



*Ventura Countywide
Stormwater Quality
Management Program*

2019-2020
Permit Year

Ventura Countywide Stormwater Quality
Management Program Annual Report

Attachment E - TMDL Reports (Part 3/5)



December 15, 2020

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

Central Services
Joan Araujo, Director

Engineering Services
Christopher Cooper, Director

Transportation
David Fleisch, Director

Water & Sanitation
Joseph Pope, Director

Watershed Protection
Glenn Shephard, Director

May 28, 2020

LB Nye, Regional Programs Section Chief
Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

SUBJECT: UPPER MALIBU CREEK TRASH TMDL 2017-2018 ANNUAL MONITORING REPORT DATED FEBRUARY 2019

Dear Ms. Nye:

Enclosed for your review and consideration is the Upper Malibu Creek Trash Total Maximum Daily Load (TMDL) Annual Monitoring Report (AMR) for the 2017-2018 monitoring year. The AMR is being submitted per the requirements of the Malibu Creek Trash Total Maximum Daily Load (TMDL), the Los Angeles Regional Water Quality Control Board Resolution No. 2008-007 on behalf of the County of Ventura, and the Ventura County Watershed Protection District.

The AMR documents the seventh-year implementation of the Malibu Creek Watershed Trash Monitoring and Reporting Plan and Minimum Frequency of Assessment and Collection (TMRP/MFAC) program, submitted collaboratively by the County, the District, and the City of Thousand Oaks on April 30, 2010. It provides a summary of conducted monitoring activities, a summary of the monitoring results, and documentation of on-going maintenance of full capture devices installed by the County of Ventura towards point source compliance.

If you have any comments or question regarding the attached document, please contact me via email at Ewelina.Mutkowska@ventura.org or by phone at (805) 645-1382.

Sincerely,

Ewelina Mutkowska
Senior Stormwater Manager

Enclosure: Annual Monitoring Report for the 2017-2018 monitoring year

cc: Jun Zhu, RWQCB-Los Angeles Region, TMDL Section Chief
Alexander Prescott, RWQCB-Los Angeles Region, Environmental Scientist
Jeff Pratt, Ventura County Public Works Agency, Director
Glenn Shephard, Ventura County Watershed Protection District, Director
Arne Anselm, Ventura County Watershed Protection District, Deputy Director

K:\Programs\CountyStormwaterProgram\040508_TMDLs_Malibu Creek\TRASH TMDL\Reports\2017-18





PUBLIC
VENTURA COUNTY
WORKS



FEBRUARY 2019

Upper Malibu Creek Watershed Trash TMDL 2017-2018 Annual Monitoring Report

submitted to

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD,
LOS ANGELES REGION

submitted by

COUNTY OF VENTURA AND
VENTURA COUNTY WATERSHED PROTECTION DISTRICT

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Executive Summary

The purpose of this report is to present the results of the seventh-year (July 1, 2017 through June 30, 2018) monitoring efforts conducted by the County of Ventura (County) and the Ventura County Watershed Protection District (VCWPD). The program is designed to comply with the requirements of the Amendments to the Water Quality Control Plan – Los Angeles Region for the Malibu Creek Watershed Trash TMDL (Trash TMDL), Resolution No. R4-2008-007 (effective July 7, 2009). The trash monitoring results and compliance assessments are reported for point source waste load allocations (WLAs) and non-point source load allocations (LAs). Monitoring efforts were conducted according to the Trash Monitoring and Report Plan (TMRP) for the Malibu Creek Trash TMDL submitted to the California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board) on April 30, 2010.

The County and VCWPD are complying with the point source requirements of the Trash TMDL through the installation of full capture systems in all conveyances collecting drainage from Priority Land Use areas and implementation of a MFAC/BMP Program in all the non-priority land use areas. To comply with the point source requirement of a 100 percent reduction of trash from the baseline WLA, the County and VCWPD needs to show a minimum of a 30 percent decrease from at least one of the three baseline WLAs listed in the TMRP. This is due to the installed full capture systems collecting 70 percent of the total trash generated in the County/VCWPD's jurisdictions.

The MFAC trash data showed a 50 percent reduction in the volume of trash compared to the baseline WLA, a 43 percent reduction in the weight of trash compared to the baseline WLA and a 61 percent reduction in trash from the pieces baseline WLA. Based on the amount of trash captured by the County/VCWPD'S full capture systems, and the greater than 30 percent reduction shown in the three baseline WLA metrics, the County/VCWPD are complying with the final July 2017 point source requirement of a 100 percent reduction in trash from the baseline WLA.

The County/VCWPD are complying with the non-point source requirements of the Trash TMDL through the implementation of a MFAC/BMP Program. Immediately following each MFAC Event, the MFAC/BMP Program resulted in zero trash as required by the Trash TMDL. Furthermore, the average monthly volume of trash, weight of trash, and the amount of trash were 0.30 cubic feet, 0.78 pounds, and 32 pieces, respectively. This indicates that trash is not accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections. Therefore, the MFAC/BMP Program is effective for meeting the Trash TMDL's non-point source requirements.

Starting in July 2018, the County/VCWPD will add additional monthly cleanup events to the on-going implementation of the BMP Program and will evaluate the MFAC data after completion of the 2018-2019 monitoring year to be reported in the next Annual Report.

The County/VCWPD will need to revise and re-submit their TMRP once the revised TMDL (Resolution No. R18-006) becomes effective (to be determined). In the revised TMRP, the County/VCWPD intends to propose switching their MFAC Program from quantitative to visual as an assessment of the reduction from the baseline WLA will no longer be needed. All proposed changes will be included in the revised TMRP.

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1 Overview

The purpose of this Annual Report is to present the results of the seventh-year (2017-2018) monitoring efforts conducted by County of Ventura (County) and the Ventura County Watershed Protection District (VCWPD). The monitoring efforts are designed to comply with the requirements of the Amendments to the Water Quality Control Plan – Los Angeles Region for the Malibu Creek Watershed Trash TMDL (Trash TMDL), Resolution No. R4-2008-007 (effective July 7, 2009). Monitoring efforts were conducted according to the Trash Monitoring and Report Plan (TMRP) for the Malibu Creek Trash TMDL submitted to the California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board) on April 30, 2010. To complete this effort, the responsible parties hired the California Conservation Corps (CCC) to conduct field monitoring efforts and Larry Walker Associates, Inc. (LWA) to complete reporting requirements.

The Trash TMDL assigns the County and the VCWPD point source waste load allocations (WLAs) and non-point source load allocations (LAs) as well as a numeric target of “zero trash in the above listed subwatersheds of the Malibu Creek Watershed, and on the shorelines of those waterbodies.” For point sources, zero is defined “as no trash discharged into the listed waterbodies of the Malibu Creek Watershed and on the shorelines of those waterbodies.” For non-point sources, zero is defined as “no trash immediately following each assessment and collection event with an established Minimum Frequency of Assessment and Collection Program (MFAC Program). The MFAC Program is established at an interval that prevents trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections.” The MFAC Program and TMRP were developed to meet the requirements of the Trash TMDL and to assess compliance with the point source WLAs and non-point source LAs.

This TMRP Annual Report includes:

- A description of the MFAC Site and a summary of the monitoring events conducted during the 2017-2018 reporting year;
- A discussion of the data collected during the 2017-2018 reporting year;
- A compliance discussion for point and non-point sources;
- A summary of trash best management practices (BMPs) implemented; and
- Recommended changes to the MFAC/BMP Program and TMRP.

2 MFAC Site and Monitoring Events

The following subsections provide information for the MFAC Site and for the completed monitoring events during the 2017-2018 reporting year.

2.1 MFAC SITE LOCATION

The Medea Creek MFAC site (MC1) location was selected at the lowest point of flow from the subwatershed in Ventura County where creek morphology is conducive to accumulate trash deposits. This provides a measure of the level of trash movement in the subwatershed. This location was also judged to be accessible and safe for entry. The area within the County unincorporated community of Oak Park with drainage to Reach 2 of Medea Creek is 3.3 square miles. A breakdown of land uses for this area is: 6.93 percent commercial and community facilities; 30.1 percent residential; and 62.9 percent open space. The population in Oak Park is about 13,800. Medea Creek follows a single flow path as it moves through the assessment area. When flow levels rise due to a storm event, the stream configuration causes bank overflow and deposition of transported trash and debris onto an existing flood plain. The Medea Creek assessment site is shown in **Figure 1**.

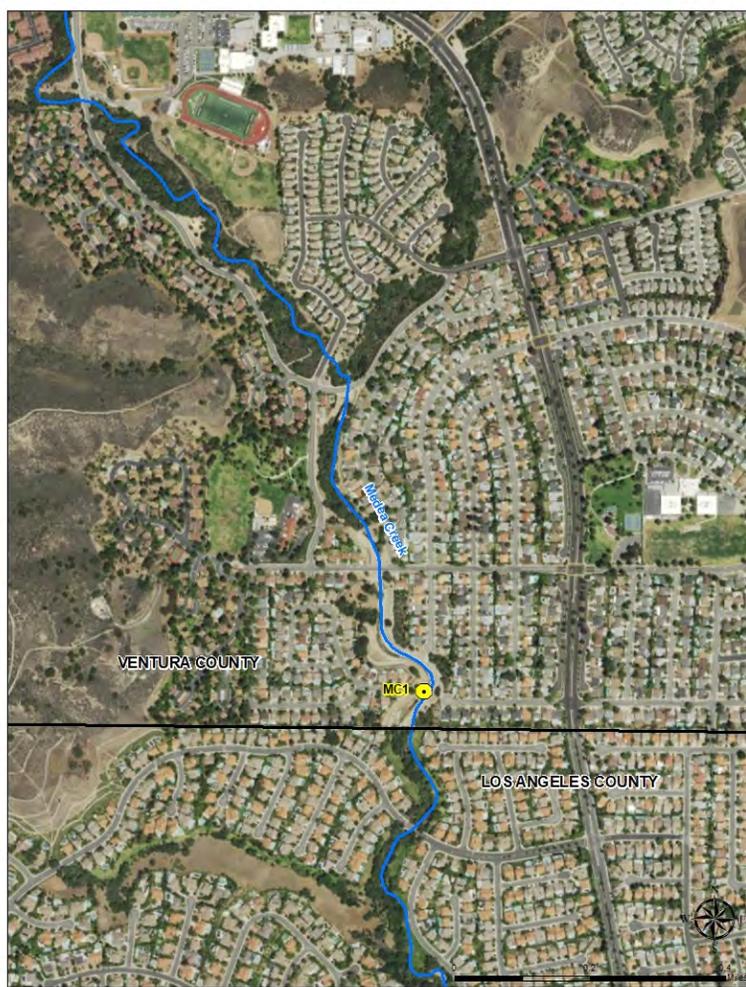


Figure 1. Medea Creek MFAC Site (MC1) Location

2.2 SUMMARY OF MONITORING EVENTS

As specified in the TMRP, a minimum of one MFAC Event per month is conducted at the Medea Creek site. As mentioned above, the CCC conducted all MFAC Events, which were completed as indicated in **Table 1**. The CCC utilized an equivalent method/variation of the Rapid Trash Assessment Protocol (RTAP), developed by the San Francisco Bay Water Board. The CCC began each MFAC event at the lower site boundary and moved upstream making sure to differentiate between items found above and below the high-water line. The CCC collected all identified trash, while simultaneously categorizing and tabulating trash items on the field log (Appendix 1). After the collection was completed, the sum of each item found above and below the high-water line was written next to the item's respective category. The trash collected was then weighed and the volume measured.

Table 1. MFAC Event Completion Summary

Monitoring Date	Medea Creek Reach 2, MC1 Site
7/21/2017	X
8/25/2017	X
9/22/2017	X
10/13/2017	X
11/17/2017	X
12/28/2017	X
1/30/2018	X
2/20/2018	X
3/16/2018	X
4/24/2018	X
5/18/2018	X
6/20/2018	X

"X" indicates a completed MFAC Event

3 Data Collection Discussion

The location of trash (i.e., above or below the high-water line) at the site is likely associated with the method that the debris was deposited and can assist the Responsible Parties with sourcing the debris. Items found above the high-water line may have been deposited by wind transport, littering from adjacent land uses, and illegal dumping. Items found below the high-water line may have been deposited by downstream accumulation. During the monitoring year, the types of trash found were consistently urban and recreational.

The trash data collected during the 2017-2018 reporting year were highly variable in that during some months, the volume, weight, and pieces were higher above the high-water line than below and in some months, this trend was reversed. In addition, it is difficult to correlate the volume-to-weight-to-pieces data as they often do not align. That is, one month there might be a high volume of trash, but a low weight of trash and a low number of pieces. Again, this trend might be reversed another month. Overall, the highest volume of trash occurred during October 2017, the highest weight in January 2018, and the highest number of pieces occurred in August 2017 and January 2018. Generally, the highest volume of trash was found in the winter, the highest weight in winter and spring, and there is no clear pattern for pieces of trash. **Table 2** summarizes the volume, weight and pieces of trash found above and below the high-water line as well as the total amount of trash collected at MC1 site, by month. **Figure 2**, **Figure 3**, and **Figure 4** show the volume of trash collected, the weight of trash collected, and the pieces of trash collected, respectively.

Table 2. Trash Data Collected Above and Below the High-Water Line and Total Trash Collected at MC1

Date	Above High-Water Line			Below High-Water Line			Total Trash Collected		
	Volume (CF)	Weight (lbs)	Total Pieces of Trash	Volume (CF)	Weight (lbs)	Total Pieces of Trash	Volume (CF)	Weight (lbs)	Total Pieces of Trash
7/21/2017	0.30	0.28	42	0.10	0.08	10	0.40	0.36	52
8/25/2017	0.20	0.19	18	0.20	0.61	39	0.40	0.80	57
9/22/2017	0.10	0.17	17	0.10	0.26	8	0.20	0.43	25
10/13/2017	0.10	0.04	17	0.66	0.20	15	0.76	0.24	32
11/17/2017	0.15	0.44	16	0.10	0.33	18	0.25	0.77	34
12/28/2017	0.05	0.05	5	0.30	0.97	11	0.35	1.02	16
1/30/2018	0.05	0.08	6	0.30	1.69	52	0.35	1.77	58
2/20/2018	0.15	0.36	9	0.05	0.33	14	0.20	0.69	23
3/16/2018	0.05	0.15	7	0.10	0.52	13	0.15	0.67	20
4/24/2018	0.05	0.13	7	0.10	0.33	5	0.15	0.46	12
5/18/2018	0.10	0.28	26	0.20	1.12	11	0.30	1.40	37
6/20/2018	0.05	0.24	10	0.05	0.50	7	0.10	0.74	17
Totals	1.35	2.41	180	2.26	6.94	203	3.61	9.35	383

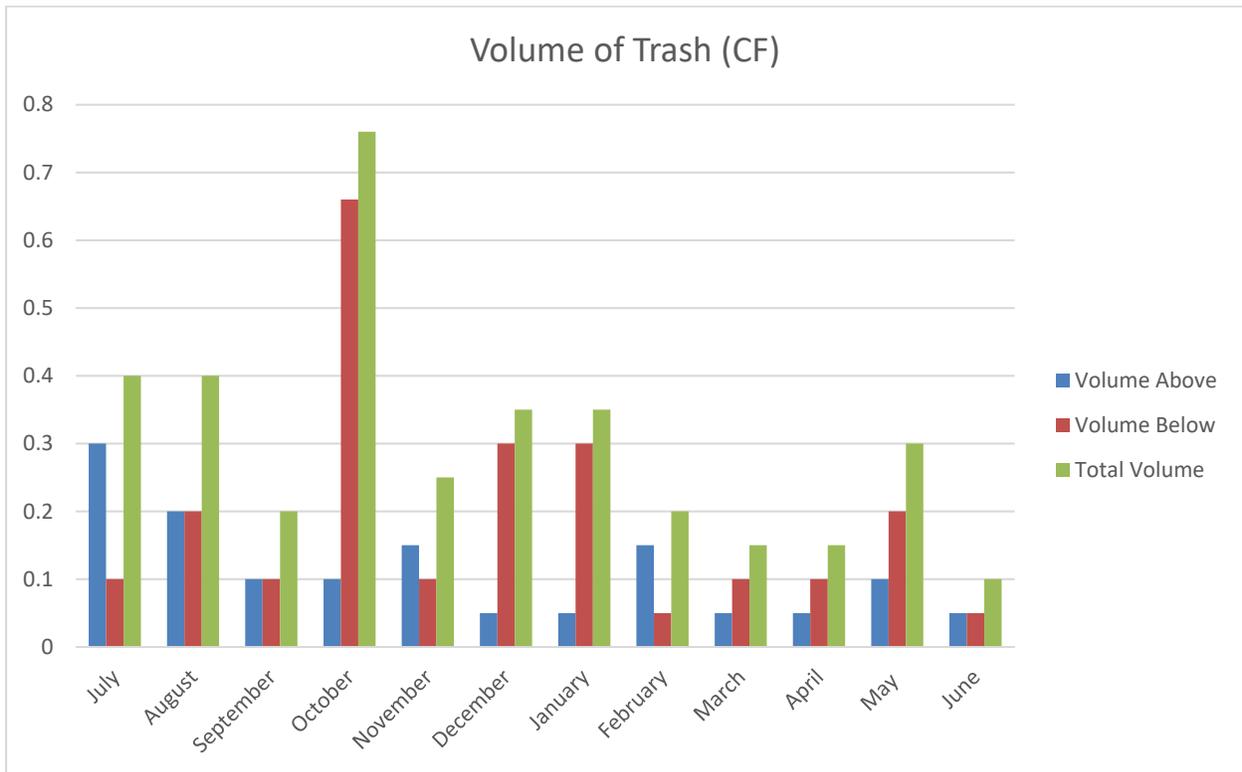


Figure 2. Volume of Trash Collected at MC1

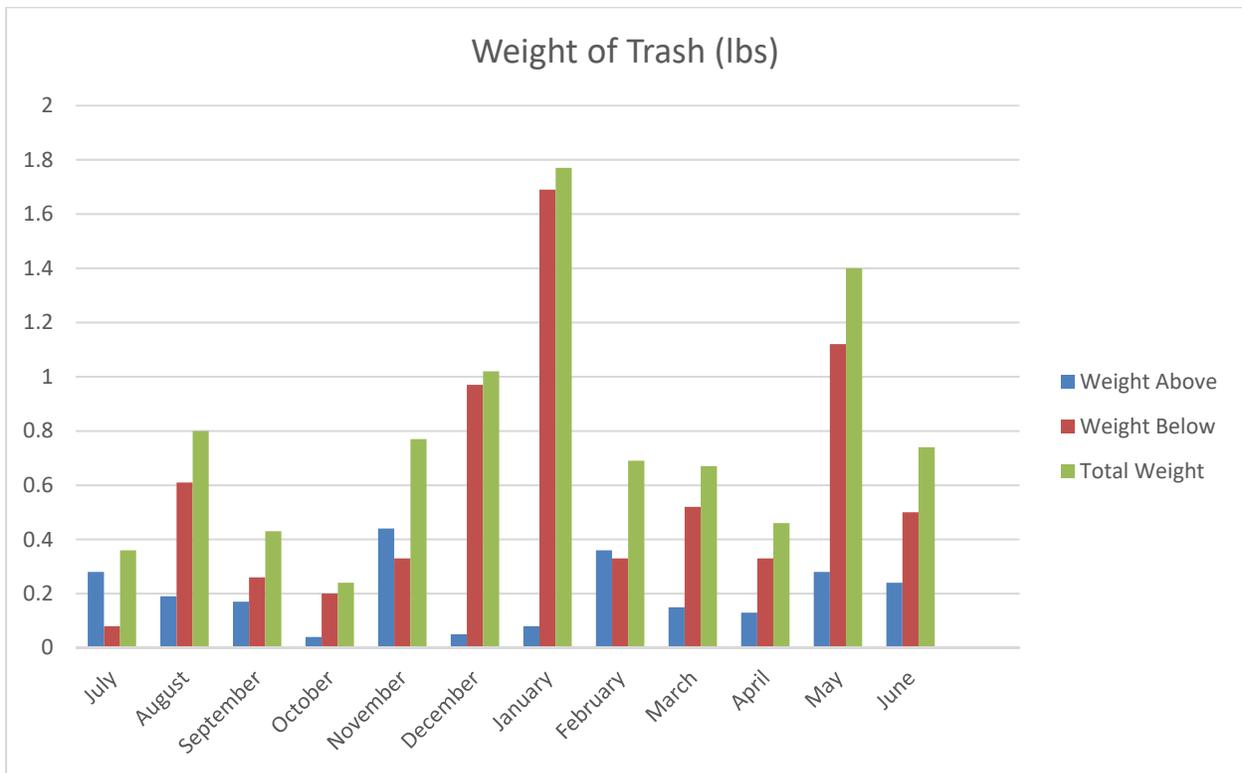


Figure 3. Weight of Trash Collected at MC1

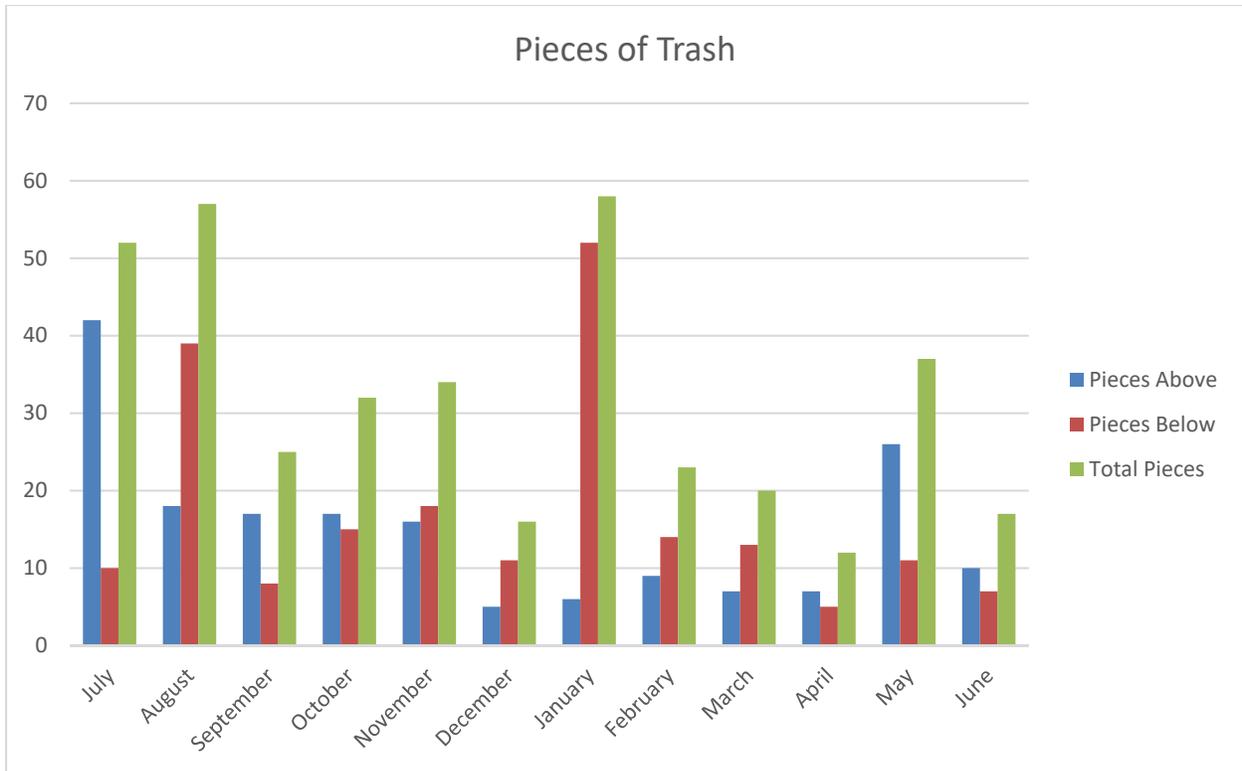


Figure 4. Pieces of Trash Collected at MC1

4 Point and Non-Point Source Compliance Discussion

4.1 POINT SOURCES

To address the point source requirements of the Trash TMDL, the County/VCWPD originally implemented a MFAC/BMP Program, which was detailed in the TMRP submitted to the Los Angeles Water Board on April 30, 2010. The Trash TMDL requires implementation of the TMRP six months from receipt of the letter of approval from Regional Board (Table 7-31.2a of the Trash TMDL). The County/VCWPD did not receive a response or approval from Los Angeles Water Board regarding the submitted TMRP and on March 25, 2011, submitted a Notice of Intent (NOI) to proceed with implementing the proposed TMRP. In July 2011, the County/VCWPD commenced implementing the proposed MFAC/BMP Program towards meeting the Trash TMDL's requirements.

The Trash TMDL requires point source dischargers to achieve a stepwise reduction in trash from the baseline WLA in 20 percent increments or install full captures systems in the corresponding percentages of conveyances discharging to the Malibu Creek Watershed. During the first year of monitoring, July 1, 2011 through June 30, 2012, trash volume, weight, and pieces data collected at the Medea Creek (MC1) monitoring location served as the baseline WLAs from which, the County/VCWPD have been assessing compliance (Table 3).

Table 3. Baseline WLAs for the Medea Creek Reach 2 (MC1) Sampling Site

Medea Creek Reach 2 (MC1) Sampling Site Baseline WLAs		
Volume (CF)	Weight (lbs)	Pieces
7.2	16.3	970

As discussed in details in the 2016-2017 Trash Monitoring Report, in consultation with Regional Water Board staff, the County revised point source compliance strategy and installed full capture devices to address runoff from priority land uses as defined by the Amendment to the Water Quality Control Plan for Ocean Waters of California (Ocean Plan) and the Proposed Final Part 1 Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California (ISWEBE Plan) (together, "Statewide Trash Provisions"). In addition, County continues addressing all non-priority land uses through a MFAC/BMP Program. To demonstrate compliance with the phased percent reductions required by the Trash TMDL, the County/VCWPD proposed to use the percent reduction identified by the trash data collected during the MFAC Events combined with the percent of total trash generated that is captured by the full capture systems in the priority land use areas. As described in the 2016-2017 Trash Monitoring Report, it was concluded that the County/VCWPD needs to show at least a 30 percent reduction from one of the baselines WLA matrices through the MFAC/BMP Program to comply with the final July 2017's 100 percent reduction from the baseline WLA requirement.

As shown in Table 4, the trash data collected during the 2017-2018 reporting year through the MFAC Program at MC1 showed a 50 percent reduction in the volume of trash compared to the baseline WLA, a 43 percent reduction in the weight of trash compared to the baseline WLA, and

a 61 percent reduction in trash from the pieces baseline WLA. Based on the amount of trash captured by the County’s/VCWPD’S full capture systems, and the greater than 30 percent reduction shown in the three baseline WLA metrics, the County/VCWPD are complying with the final July 2017 point source requirement of a 100 percent reduction in trash from the baseline WLA.

Table 4. 2017-2018 Percent Reductions from Baseline WLAs

Metric	Volume (CF)	Weight (lbs)	Pieces
Baseline WLA	7.2	16.3	970
30 percent Reduction from Baseline WLA Values	5.04	11.41	649
2017-2018 Trash Data	3.61	9.35	383
Percent Reduction from Baseline WLA	50 percent	43 percent	61 percent

4.2 NON-POINT SOURCES

For non-point sources, the numeric target of zero trash is defined as “no trash immediately following each assessment and collection event with an established Minimum MFAC Program, where the MFAC Program is established at an interval that prevents trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections.

Immediately following each 2017-2018 MFAC Event, the MFAC Program resulted in zero trash as required by the Trash TMDL for non-point sources. Furthermore, the average monthly volume, weight, and amount of trash were 0.30 cubic feet, 0.78 pounds, and 32 pieces, respectively. This indicates that trash is not accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections. Therefore, the MFAC/BMP Program is effective for meeting the Trash TMDL’s non-point source requirements.

5 Trash BMPs Implemented

The County/VCWPD Litter Management Program includes the following:

- Catch basin cleaning - Catch basins are inspected at least once a year and cleaned when filled to 25 percent or more of the catch basin's capacity. During the storm season, all drainage facilities are inspected and cleaned as necessary.
- Ventura County's catch basins are labeled, "Don't Pollute, Flows to Waterways."
- Open channel storm drain maintenance - All channels owned and maintained by VCWPD are cleared, inspected, and cleaned as required, at least once per year.
- Trash Management at Public Events - A trash and litter management plan is required when obtaining a permit for staging public events. This plan requires adequate facilities for trash collection and disposal.
- Public areas - Trash receptacles have been placed within high trash generation areas. These devices are cleaned and maintained regularly to prevent trash overflow.
- The amended Ventura County Stormwater Quality Management Ordinance for Unincorporated Areas (Ventura County Ordinance No. 4450) has been in effect since August 2012. It includes litter and trash specific prohibitions (§ 6942) on the discharge or deposition of trash that may enter the County storm drain system or receiving waters. The revised ordinance also includes increased civil penalties for violations and provisions for issuing administrative fines, recovery of costs, and misdemeanor violations.
- The County and VCWPD participate in the Ventura Countywide Stormwater Quality Management Program to that provides outreach and education facilitated by contracted services from "The Agency," a professional advertisement group that designs and conducts countywide, bilingual outreach programs advocating proper trash disposal. Outreach includes social media messages about litter prevention and the protection of stormwater quality.
- The County conducts commercial, industrial, and construction facility/site inspections to ensure pollution prevention BMPs are adequate and maintained and to educate employees about the importance of pollution prevention.

6 Recommended MFAC Program and TMRP Changes

Starting in July 2018, the County/VCWPD will add additional monthly cleanup events to the ongoing implementation of the BMP Program and will evaluate the MFAC data after completion of the 2018-2019 monitoring year to be reported in the next Annual Report.

On June 14, 2018, the Los Angeles Water Board adopted proposed revisions to the Trash TMDL that align the Trash TMDL with the Statewide Trash Provisions. In the proposed revised Basin Plan Amendment (BPA), the Los Angeles Water Board indicated that the Trash TMDL's responsible parties will be required to submit a revised TMRP three months after effective date of the revised TMDL.

The proposed revised BPA indicates the responsible parties will only need to address priority land uses within their jurisdictions to meet the point source requirements. The County/VCWPD have installed full capture systems all conveyances collecting drainage from priority land use areas within their jurisdictions. As such, they will no longer need to use a reduction from the baseline WLAs for compliance. Therefore, if the proposed revised Trash TMDL, with the priority land uses component, is adopted by the Los Angeles Water Board, the County/VCWPD will likely revise their MFAC to a visual screening approach that will allow to allow for program effectiveness assessment and will eliminate the collection of quantitative data. The MFAC will continue to address non-point sources and will address trash from non-priority land use areas.

As outlined in the TMRP, a further assessment of BMP efficiency is to be conducted after each year of monitoring. Given the broad nature of most of the BMPs implemented to date (*e.g.*, education programs, ordinances), the highly variable amounts of trash collected each year, and the relatively short time frame that full capture systems have been installed, trends were not identified in the monitoring data that could be used to determine effectiveness of individual BMPs. As such, the implementation of the BMPs is not clearly reflected in the trash monitoring results and program implementation continues to be evaluated to consider these results. The County/VCWPD are confident the currently implemented BMPs are adequately addressing trash and ongoing activities by the County/VCWPD continue to assess and improve litter control in urban and recreational areas.

7 Conclusion

The County/VCWPD conducted monthly MFAC Events at the MC1 site in Medea Creek Reach 2. Trash volume, weight, and pieces data were collected during each MFAC Event. The trash data collected during the 2017-2018 reporting year were highly variable and it is difficult to correlate the volume-to-weight-to-pieces data as they often do not align. Overall, the highest volume of trash occurred during October 2017, the highest weight in January 2018, and the highest number of pieces occurred in August 2017 and January 2018. Generally, the highest volume of trash was found in the winter, the highest weight in winter and spring, and there is no clear trend for pieces of trash.

The County/VCWPD are complying with the point source requirements of the Trash TMDL through the installation of full capture systems in all conveyances collecting drainage from priority land use areas and implementation of a MFAC/BMP Program in all the non-priority land use areas. As described in the 2016-2017 Trash Monitoring Report, the installed full capture systems address 70 percent of the total trash generated within the County unincorporated MS4 areas. As such, to comply with the point source requirement of a 100 percent reduction of trash from the baseline WLA, the County/VCWPD needs to show a minimum of a 30 percent decrease from at least one of the three the baseline WLAs listed in the TMRP.

The MFAC trash data showed a 50 percent reduction in the volume of trash compared to the baseline WLA, 43 percent reduction in the weight of trash compared to the baseline WLA and a 61 percent reduction in trash from the pieces baseline WLA. Based on the amount of trash captured by the County's/VCWPD'S full capture systems, and the greater than 30 percent reduction shown in the three baseline WLA metrics, the County/VCWPD are complying with the final July 2017 point source requirement of a 100 percent reduction in trash from the baseline WLA.

The County/VCWPD are complying with the non-point source requirements of the Trash TMDL through the implementation of a MFAC/BMP Program. Immediately following each MFAC Event, the MFAC/BMP Program resulted in zero trash as required by the Trash TMDL. Furthermore, the average monthly volume of trash, weight of trash, and the amount of trash were 0.30 cubic feet, 0.78 pounds, and 32 pieces, respectively. This indicates that trash is not accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections. Therefore, the MFAC/BMP Program is effective for meeting the Trash TMDL's non-point source requirements.

Starting in July 2018, the County/VCWPD will add additional monthly cleanup events to the on-going implementation of the BMP Program and will evaluate the MFAC data after completion of the 2018-2019 monitoring year to be reported in the next Annual Report.

The County/VCWPD will need to revise and re-submit their TMRP once the revised TMDL (Resolution No. R18-006) becomes effective (to be determined). In the revised TMRP, the County/VCWPD intends to propose switching their MFAC Program from quantitative to visual as an assessment of the reduction from the baseline WLA will no longer be needed. All proposed changes will be included in the revised TMRP.

Appendix 1
Field Logs and Photos



Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass	II		
-----------------	----	--	--

Metal

(Other/Unknown)			
Bottle			
Can			

Paper

(Other/Unknown)	IIII IIII I		
Box			
Cardboard			
Cup			
Office			
Paper Bags			

Plastic

(Other/Unknown)	IIIIIIII III		
Ammo			
Balloon			
Bottle	I		
Bottle Cap			
CD / DVD			
Cup			
Food Container			
Glove			
Hose			
Lid / Straw	I		
Pipe / Rope			
Plastic Bags	III		
Six-Pack Ring			
Tarp			
Tire			
Wrapper	III	II	

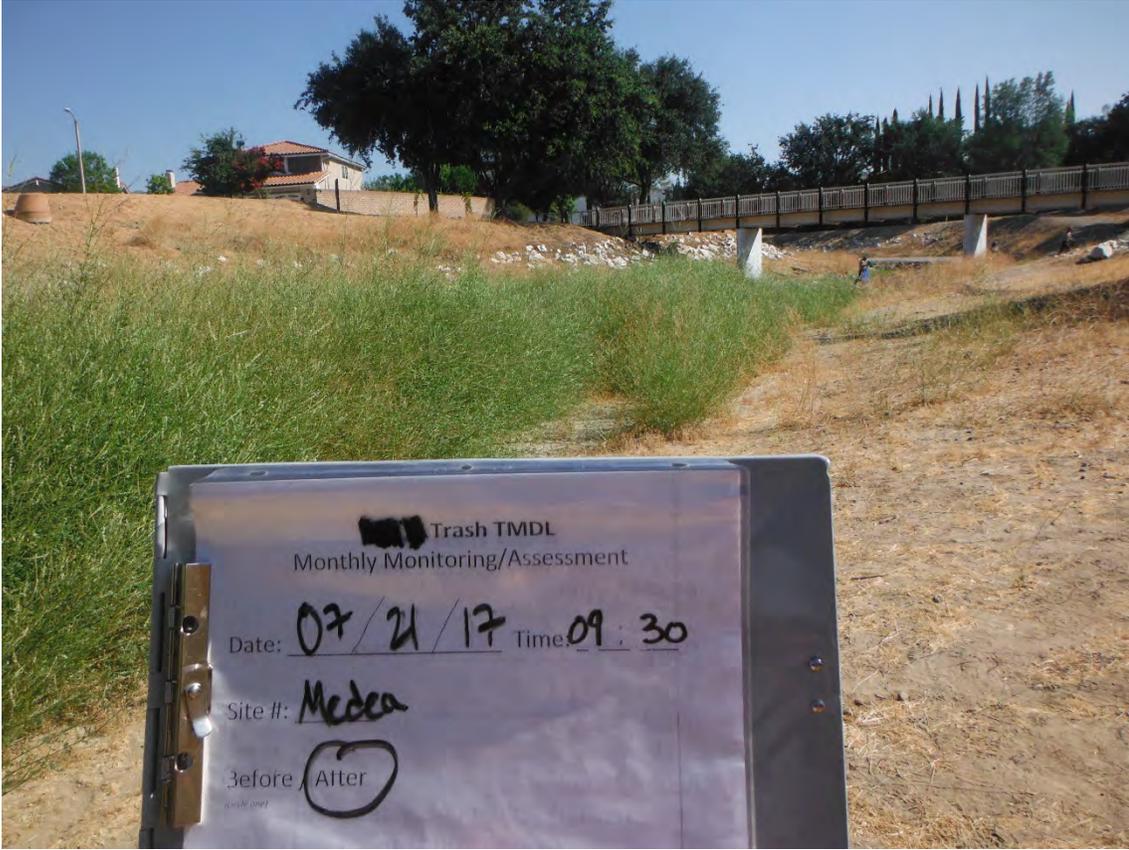
Styrofoam

Styrofoam

(Other/Unknown)			
Block			
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
After cleanup event



Medea Creek:
Volume of trash
below high water line

Malibu Creek Trash IMDL
Trash Identification Form

*Pictures
Say Lindero
Creek.

- No Trash Observed
- Intractable Trash?

Event Date: 8/25/17
 Site: Lindero Medea Creek
 Staff: Sarah Kates
 Event: dense vegetation. Algae.
 Comments: More trash than usual / Recent past events

Above High Water Line
 Volume: .2 cubic feet
 Weight: .19 pounds
 Below High Water Line
 Volume: .2 cubic feet
 Weight: .61 pounds

Material Category Above High Water Line Below High Water Line Notes

(Miscellaneous)

(Other/Unknown)			
Automotive			
Cigarette			
Food Container			
Furniture			
Household Items			
Sporting Good	I	III	

Biohazard

(Other/Unknown)			
Diaper			
Excrement			
Syringe or Pipette			

Construction

(Other/Unknown)			
Brick			
Concrete			
Rebar			
Wood			

Fabric

(Other/Unknown)			
Natural (i.e. cotton)			
Synthetic (i.e. nylon)	I		

Glass

(Other/Unknown)	III		
Bottle			

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass			
-----------------	--	--	--

Metal

(Other/Unknown)			
Bottle			
Can			

Paper

(Other/Unknown)			
Box			
Cardboard			
Cup			
Office			
Paper Bags			

Plastic

(Other/Unknown)			
Ammo			
Balloon			
Bottle			
Bottle Cap			
CD / DVD			
Cup			
Food Container			
Glove			
Hose			
Lid / Straw			
Pipe / Rope			
Plastic Bags			
Six-Pack Ring			
Tarp			
Tire			
Wrapper			

Styrofoam

Styrofoam

(Other/Unknown)	11		
Block			
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
Volume of trash
below high water line

	Category	Above High water line	Below High water line	Notes
Glass	Shattered Glass			
Metal	Other/Unknown Bottle		1	
	Can			
Paper	Other/Unknown Box			
	Cardboard			
	Cup			
	Office			
	Paper Bags			
Plastic	(Other/Unknown)			
	Ammo			
	Balloon			
	Bottle			
	Bottle cap			
	CD/DVD			
	Cup			
	Food container			
	Glove			
	Hose			
	Lid/straw			
	Pipe/Rope	1		
	Plastic Bags			
	Six-pack ring			
	Tarp			
	Tire			
	Wrapper	1		

Styrofoam



Material

Category

Above High
Waterline

Below High
Waterline

Notes

Styrofoam

Other/Unknown

I

III

Block

Cup

Food Container

Toxic

Other/Unknown

Battery/Small

Battery Vehicle

Chemical Container

Electronics



Medea Creek:
Before cleanup event



Medea Creek:
Volume of trash
below high water line

Malibu Creek Trash IMDL
 Trash Identification Form

- No Trash Observed
- Intractable Trash?

Event Date: 10/13/17
 Site: Malibu
 Staff: Sarah Kates
 Event: bank vegetation high
 Comments: less algae in channel

Above High Water Line
 Volume: .1 cubic feet
 Weight: .04 pounds
 Below High Water Line
 Volume: .66 cubic feet
 Weight: .2 pounds

Material	Category	Above High Water Line	Below High Water Line	Notes
(Miscellaneous)	(Other/Unknown)	1		duct tape
	Automotive			
	Cigarette			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good		1	
Biohazard	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or Pipette			
Construction	(Other/Unknown)			
	Brick			
	Concrete			
	Rebar			
	Wood			
Fabric	(Other/Unknown)			
	Natural (i.e. cotton)			
	Synthetic (i.e. nylon)	1		
Glass	(Other/Unknown)			
	Bottle			

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass			
-----------------	--	--	--

Metal

(Other/Unknown)			
Bottle			
Can			

Paper

(Other/Unknown)			
Box			
Cardboard			
Cup			
Office			
Paper Bags			

Plastic

(Other/Unknown)			
Ammo			
Balloon			
Bottle			
Bottle Cap			
CD / DVD			
Cup			
Food Container			
Glove			
Hose			
Lid / Straw			
Pipe / Rope			
Plastic Bags			
Six-Pack Ring			
Tarp			
Tire			
Wrapper			

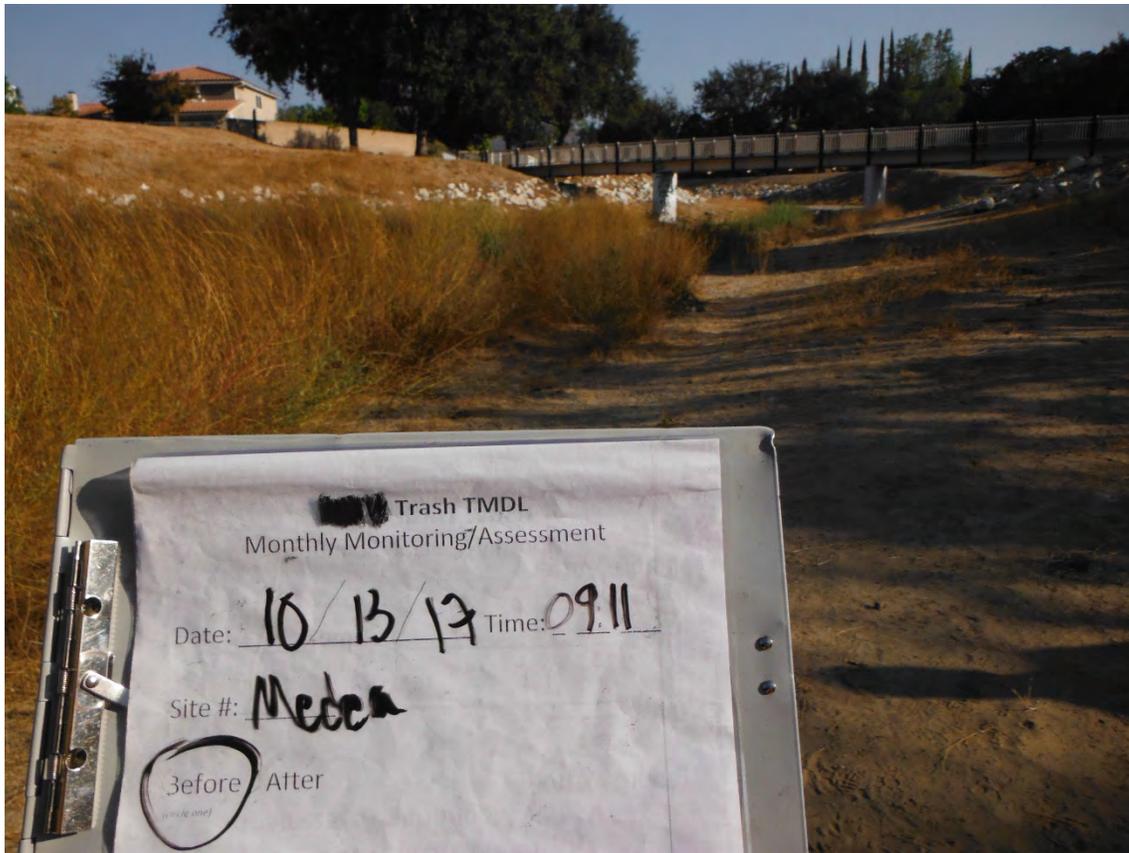
Styrofoam

Styrofoam

(Other/Unknown)		1	
Block			
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
Before cleanup event

Malibu Creek Trash IMDL
Trash Identification Form

Event Date: 11/17/17
 Site: Medea
 Staff: Sarah Kates
 Event: Overcast/cloudy
 Comments: Rain yesterday night may have contributed to trash.

Above High Water Line
 Volume: .15 cubic feet
 Weight: .44 pounds
 Below High Water Line
 Volume: .1 cubic feet
 Weight: .33 pounds

- No Trash Observed
- Intractable Trash?

Material	Category	Above High Water Line	Below High Water Line	Notes
(Miscellaneous)	(Other/Unknown)			
	Automotive			
	Cigarette	1		
	Food Container			
	Furniture			
	Household Items	11		Ceramic
	Sporting Good		1	golf ball
Biohazard	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or Pipette			
Construction	(Other/Unknown)			
	Brick			
	Concrete			
	Rebar			
	Wood			
Fabric	(Other/Unknown)			
	Natural (i.e. cotton)			
	Synthetic (i.e. nylon)			
Glass	(Other/Unknown)			
	Bottle			

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass			
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Metal

(Other/Unknown)			New canister
Bottle			
Can			

Paper

(Other/Unknown)			
Box			
Cardboard			
Cup			
Office			
Paper Bags			

Plastic

(Other/Unknown)			
Ammo			
Balloon			
Bottle			
Bottle Cap			
CD / DVD			
Cup			
Food Container			
Glove			
Hose			
Lid / Straw			
Pipe / Rope			
Plastic Bags			
Six-Pack Ring			
Tarp			
Tire			
Wrapper			

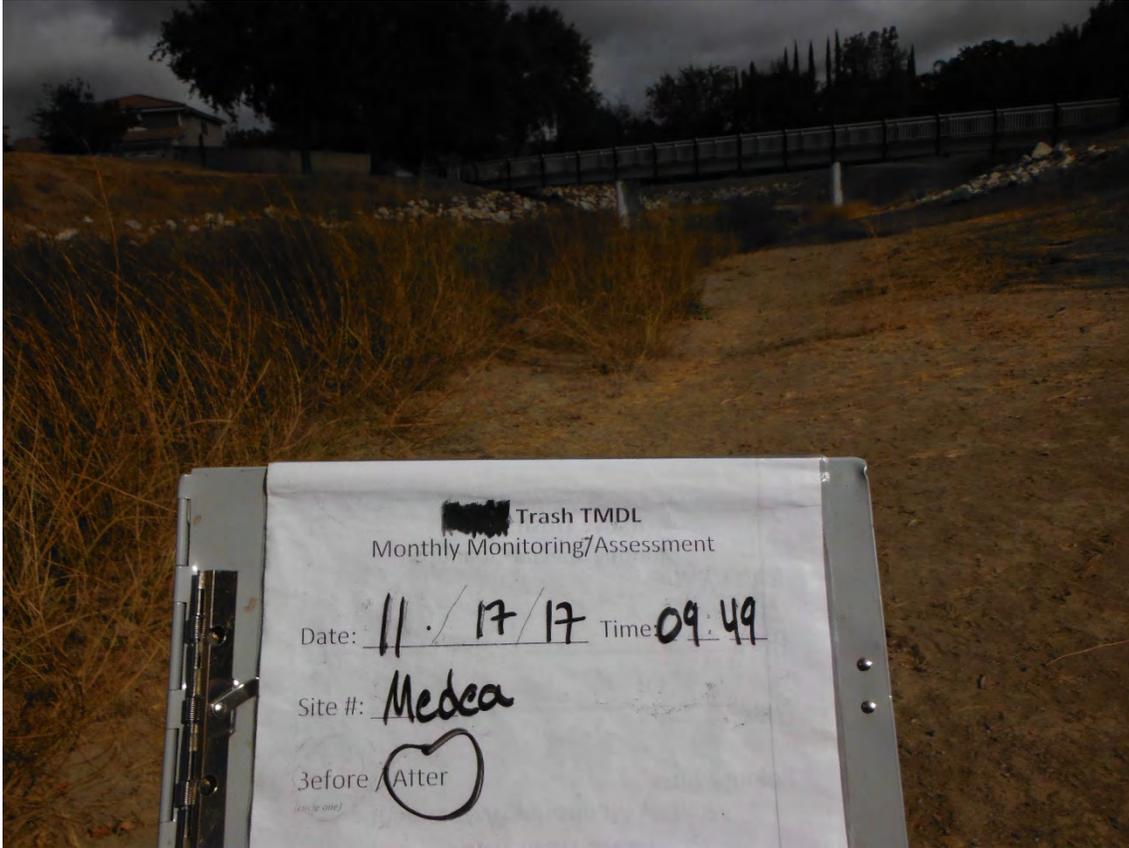
Styrofoam

Styrofoam

(Other/Unknown)		 	
Block			
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
After Cleanup Event



Medea Creek:
Volume of trash
below high water line

Malibu Creek Trash TMDL
Trash Identification Form

Event Date: 12/28/17
 Site: Medea
 Staff: Sarah Kates
 Event: Sunny + warm.
 Comments: less algae in water

Above High Water Line
 Volume: .05 cubic feet
 Weight: .05 pounds
 Below High Water Line
 Volume: .3 cubic feet
 Weight: 0.97 pounds

Blue: .11
 Grey: .06

No Trash Observed
 Intractable Trash?

Material Category Above High Water Line Below High Water Line Notes

(Miscellaneous)

(Other/Unknown)			
Automotive			
Cigarette			
Food Container			
Furniture			
Household Items			
Sporting Good		11	tennis balls

Biohazard

(Other/Unknown)			
Diaper			
Excrement			
Syringe or Pipette			

Construction

(Other/Unknown)			
Brick			
Concrete			
Rebar			
Wood			

Fabric

(Other/Unknown)			
Natural (i.e. cotton)			
Synthetic (i.e. nylon)			

Glass

(Other/Unknown)			
Bottle			

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass			
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Metal

(Other/Unknown)			NET trap tag (loose)
Bottle			
Can			

Paper

(Other/Unknown)			Gift wrap
Box			
Cardboard			Part of box
Cup			
Office			
Paper Bags			

Plastic

(Other/Unknown)			Part of bottle ?
Ammo			
Balloon			
Bottle			
Bottle Cap			
CD / DVD			
Cup			
Food Container			
Glove			
Hose			
Lid / Straw			
Pipe / Rope			
Plastic Bags			
Six-Pack Ring			
Tarp			
Tire			
Wrapper			

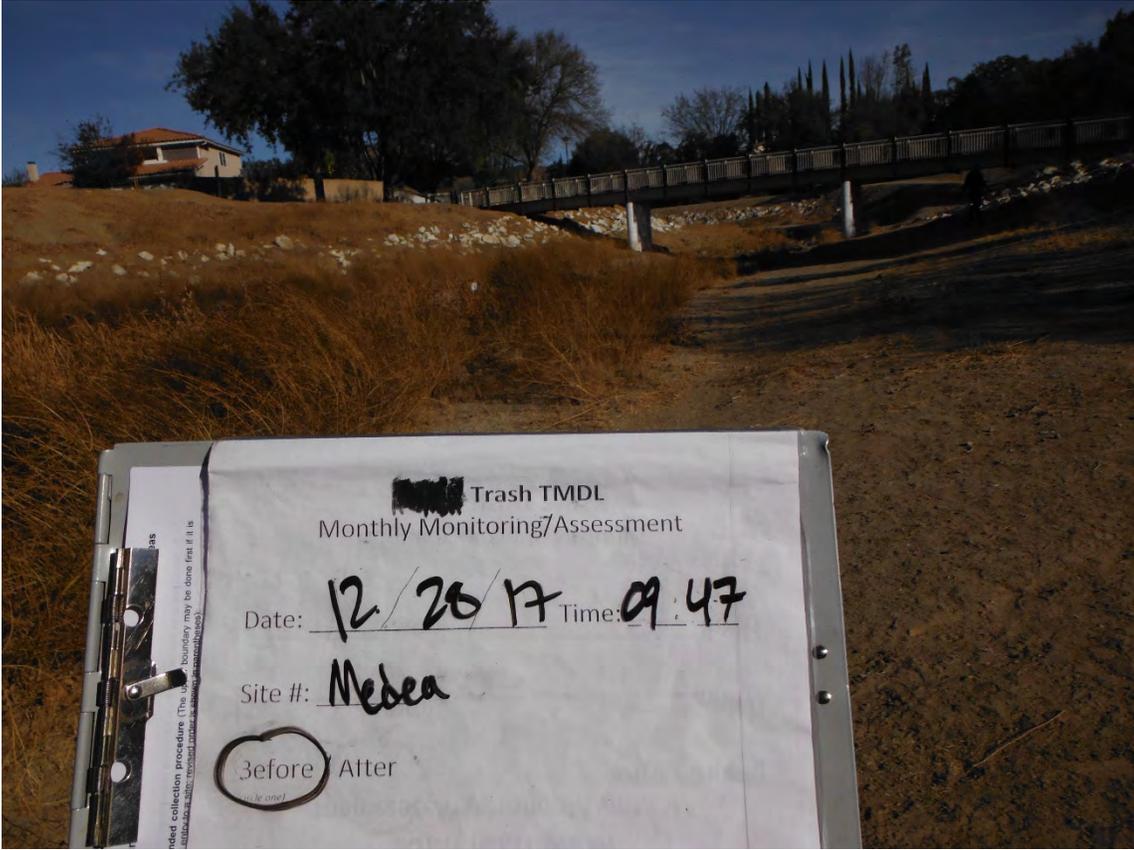
Styrofoam

Styrofoam

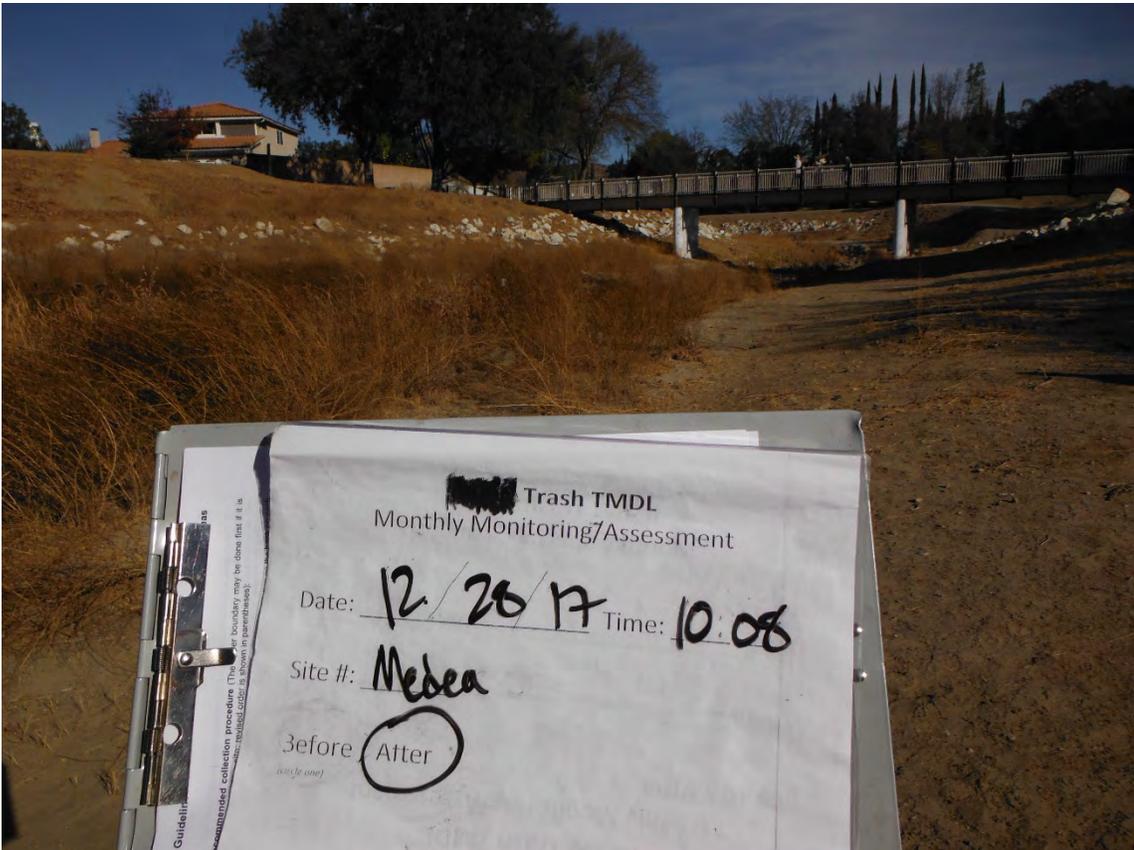
(Other/Unknown)			
Block			
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
Before cleanup event



Medea Creek:
After cleanup event



Medea Creek:
Volume of trash
below high water line

Material

Category

Above High

Below High

Notes

Water Line

Water Line

Glass

Shattered Glass			
-----------------	--	--	--

Metal

(Other/Unknown)	I (1)		MET TAG
Bottle			
Can			

Paper

(Other/Unknown)	II (2)	III (4)	
Box			
Cardboard		I (1)	
Cup		I (1)	
Office			
Paper Bags			

Plastic

(Other/Unknown)	I (1)	III (6)	
Ammo			
Balloon			
Bottle			
Bottle Cap			
CD / DVD			
Cup			
Food Container			
Glove			
Hose			
Lid / Straw	I (1)	III (3)	
Pipe / Rope		I (1)	
Plastic Bags		III (10)	
Six-Pack Ring			
Tarp			
Tire			
Wrapper		III (10)	

Styrofoam

Styrofoam

(Other/Unknown)		(3)	
Block	1 (1)	1 (1)	
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
Volume of trash
below high water line

Malibu Creek Trash IMDL
Trash Identification Form

- No Trash Observed
 Intractable Trash?

Event Date	2/20/18	Above High Water Line
Site	Medpa	Volume <input type="text" value="0.15"/> cubic feet
Staff	Sarah Kates	Weight <input type="text" value="0.36"/> pounds
Event		Below High Water Line
Comments		Volume <input type="text" value="0.05"/> cubic feet
		Weight <input type="text" value="0.33"/> pounds

Material	Category	Above High Water Line	Below High Water Line	Notes
(Miscellaneous)	(Other/Unknown)	1	①	Ceramic piece
	Automotive			
	Cigarette			
	Food Container			
	Furniture			
	Household Items	1	①	1 teddy bear
	Sporting Good			
Biohazard	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or Pipette			
Construction	(Other/Unknown)	1	①	
	Brick			
	Concrete			
	Rebar			
	Wood			
Fabric	(Other/Unknown)			
	Natural (i.e. cotton)			
	Synthetic (i.e. nylon)			
Glass	(Other/Unknown)			
	Bottle			

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass	I (1)	III (3)	
-----------------	-------	---------	--

Metal

(Other/Unknown)			
Bottle			
Can			

Paper

(Other/Unknown)	I (1)	I (1)	
Box			
Cardboard			
Cup			
Office			
Paper Bags			

Plastic

(Other/Unknown)	II (2)	III (3)	tape (1) tag (1)
Ammo			
Balloon			
Bottle			
Bottle Cap			
CD / DVD			
Cup			
Food Container			
Glove			
Hose			
Lid / Straw		I (1)	
Pipe / Rope			
Plastic Bags	I (1)	III (3)	
Six-Pack Ring			
Tarp			
Tire			
Wrapper	I (1)	II (2)	

Styrofoam

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Styrofoam

(Other/Unknown)		1 0	
Block			
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
Volume of trash
below high water line

Malibu Creek Trash TMDL
Trash Identification Form

Event Date: 3/16/18
 Site: Medea
 Staff: Julia Grothe
 Event:
 Comments:

Above High Water Line

Volume: 0.05 cubic feet

Weight: 0.15 pounds

Below High Water Line

Volume: 0.1 cubic feet

Weight: 0.52 pounds

lowest: 0.05

- No Trash Observed
 Intractable Trash?

<u>Material</u>	<u>Category</u>	<u>Above High Water Line</u>	<u>Below High Water Line</u>	<u>Notes</u>
(Miscellaneous)	(Other/Unknown)			
	Automotive			
	Cigarette			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Biohazard	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or Pipette			
Construction	(Other/Unknown)			
	Brick			
	Concrete			
	Rebar			
	Wood			
Fabric	(Other/Unknown)			
	Natural (i.e. cotton)			
	Synthetic (i.e. nylon)	1	①	
Glass	(Other/Unknown)			
	Bottle			

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass			
-----------------	--	--	--

Metal

(Other/Unknown)			
Bottle			
Can			

Paper

(Other/Unknown)		1	①	Candy Wrapper
Box				
Cardboard				
Cup				
Office				
Paper Bags				

Plastic

(Other/Unknown)	11	②	1	①	Sprinkler, Condom
Ammo					
Balloon					
Bottle			1	①	
Bottle Cap			1	①	
CD / DVD					
Cup					
Food Container					
Glove			1	①	
Hose					
Lid / Straw					
Pipe / Rope					
Plastic Bags			111	③	
Six-Pack Ring					
Tarp					
Tire					
Wrapper	11	②	111	③	

Styrofoam

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Styrofoam

(Other/Unknown)				
Block		①		②
Cup				
Food Container				

Toxic

(Other/Unknown)				
Battery (Small)				
Battery (Vehicle)				
Chemical Container				
Electronics				



Medea Creek:
Volume of trash
below high water line

Malibu Creek Trash IMDL
Trash Identification Form

Event Date: 4/24/18

Site: Medea

Staff: Julia Grothe

Event Comments:

Above High Water Line
Volume: .05 cubic feet
Weight: 0.13 pounds

Below High Water Line
Volume: .01 cubic feet
Weight: .33 pounds

- No Trash Observed
- Intractable Trash?

<u>Material</u>	<u>Category</u>	<u>Above High Water Line</u>	<u>Below High Water Line</u>	<u>Notes</u>
(Miscellaneous)	(Other/Unknown)			
	Automotive			
	Cigarette			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Biohazard	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or Pipette			
Construction	(Other/Unknown)			
	Brick			
	Concrete			
	Rebar			
	Wood			
Fabric	(Other/Unknown)			
	Natural (i.e. cotton)			
	Synthetic (i.e. nylon)			
Glass	(Other/Unknown)			
	Bottle			

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass			
-----------------	--	--	--

Metal

(Other/Unknown)			
Bottle			
Can			

Paper

(Other/Unknown)	①		
Box			
Cardboard			
Cup			
Office			
Paper Bags			

Plastic

(Other/Unknown)	①	①	toy, dog bowl
Ammo			
Balloon			
Bottle			
Bottle Cap			
CD / DVD			
Cup			
Food Container			
Glove			
Hose			
Lid / Straw			
Pipe / Rope			
Plastic Bags	①		
Six-Pack Ring			
Tarp			
Tire			
Wrapper	④	③	

Styrofoam

MATERIAL

CATEGORY

Above High
Water Line

Below High
Water Line

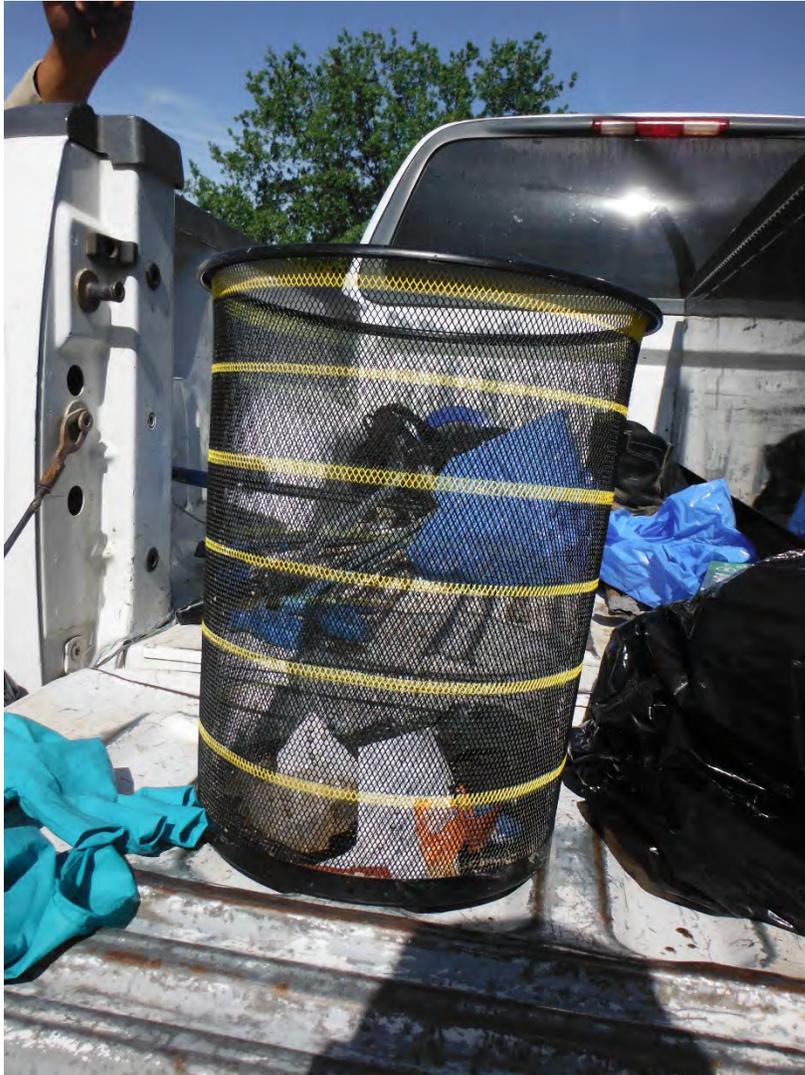
Notes

Styrofoam

(Other/Unknown)			
Block		1	①
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
Volume of trash
below high water line

Malibu Creek Trash IMDL
Trash Identification Form

Event Date: 5/18/18
 Site: Medea Creek
 Staff: Julia Grothe
 Event Comments:

Above High Water Line
 Volume: 0.1 cubic feet
 Weight: 0.28 pounds
 Below High Water Line
 Volume: 0.2 cubic feet
 Weight: 1.12 pounds

- No Trash Observed
 Intractable Trash?

<u>Material</u>	<u>Category</u>	<u>Above High Water Line</u>	<u>Below High Water Line</u>	<u>Notes</u>
(Miscellaneous)	(Other/Unknown)			
	Automotive			
	Cigarette	1	①	
	Food Container			
	Furniture			
	Household Items		1	① top of irrigation control valve
	Sporting Good	1	①	tennis ball
Biohazard	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or Pipette			
Construction	(Other/Unknown)			
	Brick			
	Concrete			
	Rebar			
	Wood			
Fabric	(Other/Unknown)			
	Natural (i.e. cotton)			
	Synthetic (i.e. nylon)			
Glass	(Other/Unknown)			
	Bottle			

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Glass

Shattered Glass			
-----------------	--	--	--

Metal

(Other/Unknown)			
Bottle			
Can			

Paper

(Other/Unknown)	(4)		Flier
Box			
Cardboard			
Cup			
Office			
Paper Bags		(1)	

Plastic

(Other/Unknown)	(4)		film container, balloon string
Ammo			lipof stick
Balloon			piece of toy
Bottle			
Bottle Cap	(1)		
CD / DVD			
Cup			
Food Container		(2)	coffee creamer (2)
Glove			
Hose			
Lid / Straw	(1)		
Pipe / Rope			
Plastic Bags	(2)	(2)	
Six-Pack Ring			
Tarp			
Tire			
Wrapper	(5)	(5)	(4)

lipof stick
piece of toy

Styrofoam

(12)

Material

Category

Above High
Water Line

Below High
Water Line

Notes

Styrofoam

(Other/Unknown)			
Block			
Cup		1	①
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			



Medea Creek:
Volume of trash
below high water line

Malibu Creek TMDL
Trash Identification Form

Event Date: JUNE 20, 2018 Above High Water Line

Site: MEDEA CREEK Volume: 0.05 cubic feet

Staff: BRI CODY Weight: 0.24 pounds

Event: LARGE AMOUNT OF ALGAE Below High Water Line

Comments: POOR VISIBILITY IN WATER Volume: 0.05 cubic feet

Weight: 0.50 pounds

- No Trash Observed
- Intractable Trash

Material	Category	Above High Water Line	Below High Water Line	Notes
(Miscellaneous)	(Other/Unknown)			
	Automotive			
	Cigarette			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Biohazard	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or Pipette			
Construction	(Other/Unknown)			
	Brick			
	Concrete			
	Rebar			
	Wood			
Fabric	(Other/Unknown)	1		1 above
	Natural (i.e. cotton)			
	Synthetic (i.e. nylon)			
Glass	(Other/Unknown)	11		2 above
	Bottle			

Material	Category	Above High Water Line	Below High Water Line	Notes
Glass	Shattered Glass			
	(Other/Unknown)			
Metal	Bottle			
	Can			
	(Other/Unknown)	I	II	① above / ② below
Paper	Box			
	Cardboard			
	Cup			
	Office			
	Paper Bags			
	(Other/Unknown)		II	② below
Plastic	Ammo			
	Balloon	I		① above
	Bottle			
	Bottle Cap	I		① above
	CD / DVD			
	Cup			
	Food Container			
	Gloves			
	Knife			
	Lid / Straw		I	① below
	Pipe / Rope			
	Plastic Bags		I	① below
	Six-Pack Ring			
	Tarp			
	Tire			
Wrapper	II		② above	

Styrofoam:

Styrofoam

(Other/Unknown)	11	1	(2) above (1) below
Block			
Cup			
Food Container			

Toxic

(Other/Unknown)			
Battery (Small)			
Battery (Vehicle)			
Chemical Container			
Electronics			

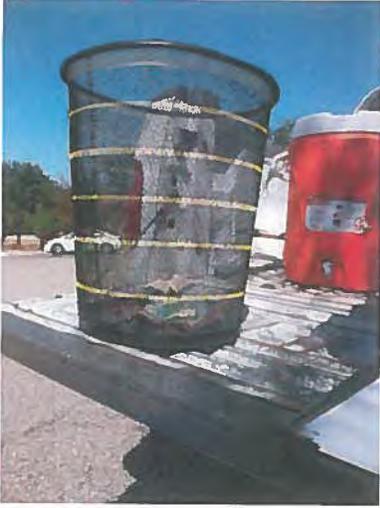
photos:

- DSCF 7068 : Before 1
- DSCF 7069 : Before 2
- DSCF 7070 : Algae 1
- DSCF 7071: Algae 2 (poor visibility)
- DSCF 7072: Above water line trash in volume waste basket.
- DSCF 7073: Below water line trash in volume waste basket.
- DSCF 7074 : After 1
- DSCF 7075: After 2

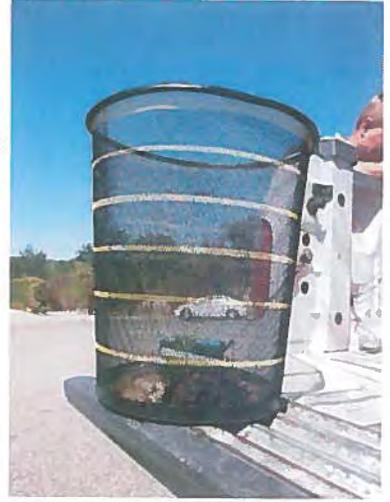
MEDEA CREEK PHOTOS

June 20, 2018

DSCF7072



DSCF7073



DSCF7068



DSCF7071



DSCF7069



DSCF7074



DSCF7070

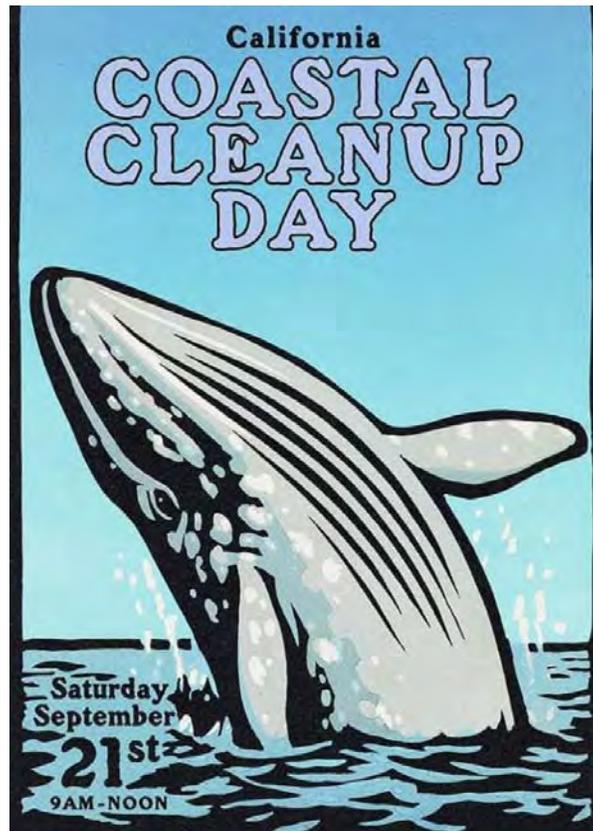


DSCF7075



Appendix 2
2017-2018 Public Educational Outreach





September 2017- Coastal Cleanup Day 2017 poster



September 2017 – Volunteers collected trash during Coastal Cleanup Day 2017



April 2018 – EcoHero performed at Oak Hills Elementary School and Red Oak Elementary School in Oak Park



April 2018 – Earth Day presentation at the Government Center



October 2017 – County Stormwater Program completed Phase 1 of the Oak Park Green Streets Urban Retrofit with the installation of ten subsurface modular wetlands



May 2018 – Volunteers participated in the Big Sunday event where they conducted trash cleanups in Medea Creek and stenciled storm drain inlets



May 2018 – County Stormwater Program informational booth setup for Public Works Week at the Government Center



Community for a Clean Watershed

June 11, 2018 at 4:25 PM · 🌐

Did you know? Cigarette filters are not biodegradable; they're made of plastic and can easily move through our waterways, potentially harming aquatic life. Kick the habit now for your health and #VenturaCounty's!



2 Likes · 1 Comment

June 2018 – Ventura County Community for a Clean Watershed Facebook post informing the public about the harmful effects that cigarette filters can have on the environment



THE ECOHERO SHOW



Ventura Thank You + Recap

Dear Ventura County,

Thanks to you, we were able to perform at 250 schools this school year reaching 137,000 students resulting in 500,000 views on our YouTube.

This spring, we started collecting teachers emails and sending them a survey which allowed them to remain anonymous. Here were our results!



Who: The assembly coordinator at the school, this person could be the principal to a teacher or anyone in between.

Question: Would you ever have The EcoHero Show at your school again?

79 Yes 1 No

Who: Teachers who watched the show

Question: Would you ever have The EcoHero Show at your school again?

82 Yes 2 No

Who: Teachers who watched the show

Question: Did you Find Show Educational:

83 1

Who: Teachers who watched the show

Question: Were students engaged?

81 3

We would love to come back next school year and build on the success of empowering EcoHero leaders for life in your community!

Love,

The EcoHero Show:

Brett "Mr. Eco" Edwards

Yagmur "Ms. Eco" Yalcin

EcoHero Gabe | Pia Piscitelli | Rayand Villainueva



SCHOOLS RECAP

1. School: Hollywood Beach Elementary

Date: Wed, March 21, 2018

No. of Show: 2

Enrollees: 360

2. School: Sunset Elementary

Date: Thu, April 12, 2018

No. of Show: 1

Enrollees: 366

3. School: Brookside Elementary

Date: Thursday, April 12, 2018

No. of Show: 2

Enrollees: 570

4. School: Oak Hills Elementary

Date: Friday, April 13, 2018

No. of Show: 2

Enrollees: 530

5. School: Red Oak Elementary

Date: Friday, April 13, 2018

No. of Show: 2

Enrollees: 575

6. School: Rio Plaza Elementary

Date: Friday, March 23, 2018

No. of Show: 2

Enrollees: 570

7. School: Camarillo Heights Elementary

Date: Tuesday, March 20, 2018

No. of Shows: 1

Enrollees: 366

Of Students Reached: 3,337

FEEDBACK FROM VENTURA COUNTY:

"Students enjoyed the interactive nature of the presentation. They liked the competitive teacher dance. Fun way to communicate important messages. Mr. Eco introduced important topics in a fun and entertaining way; students were enthusiastic to learn more about the issues he presented and find ways to take action, to be an Eco-hero in our community."

- 3/23/2018: Lynz Mullaney, Hollywood Beach School, Grade 4

"Students loved it! Echo Hero was so informative and fun! Our students are fired up about helping the environment!"

- 3/26/2018: Tracy Lipsett, Principal, Hollywood Beach School

"The students and teachers loved the performance. Thank you so much for sending this program to our school. Our students and teachers really enjoyed the show."

- 4/16/2018: Maureen Frey, Office Manager, Oak Hills Elementary School



Contact Information: The EcoHero Show

Phone: 888-482-3885

Email: ecoheroshow@gmail.com

Website: <http://www.ecoheroshow.com/>

Appendix 3

Presentation Slides for the Los Angeles Regional Water Quality Control
Board's Hearing on June 14, 2018





PUBLIC
VENTURA COUNTY
WORKS



Malibu Creek Watershed Trash TMDL Revisions

Presentation to

Los Angeles Regional Water Quality Control Board

Ewelina Mutkowska, County Stormwater Program Manager
Ventura County Public Works Agency

June 14, 2018

TMDL Implementation

- Three Responsible Parties in upper MCW
- Not included in Ventura MS4 Permit
- MFAC/BMP including trash monitoring (including trash collection) since July 2011



Medea Creek Monitoring



2016-2017 average 2.5 lb or 48 pieces or 0.2 cu ft of trash

TMDL Implementation

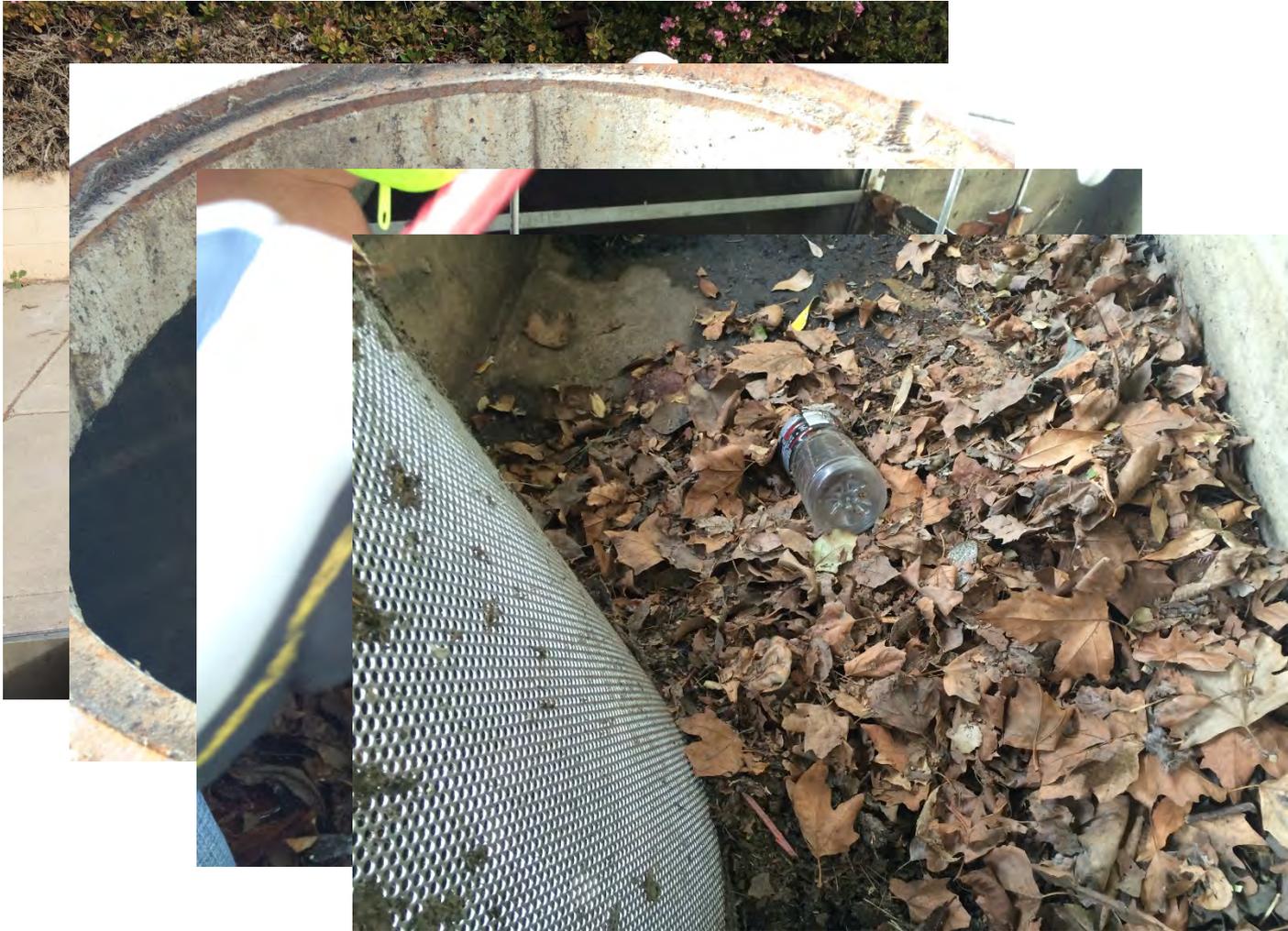
- Litter Management Programs – details are provided in the Annual Reports.
- Full trash capture devices – County (100% priority land uses) and City in progress.



Maintenance Procedures



Maintenance Procedures



Annual Big Sunday Event & Other Volunteer Events



Eco-Hero Shows for Schools



Ventura Countywide
Stormwater Quality
Management Program



Oak Park High School WFG - Fall 2016



Green Your Concrete Footprint

Keep polluted water from running off hard surfaces and contaminating streams, rivers, and the ocean.

Break up concrete, eliminate dry-weather runoff, and make your garden a sponge to become part of the solution.



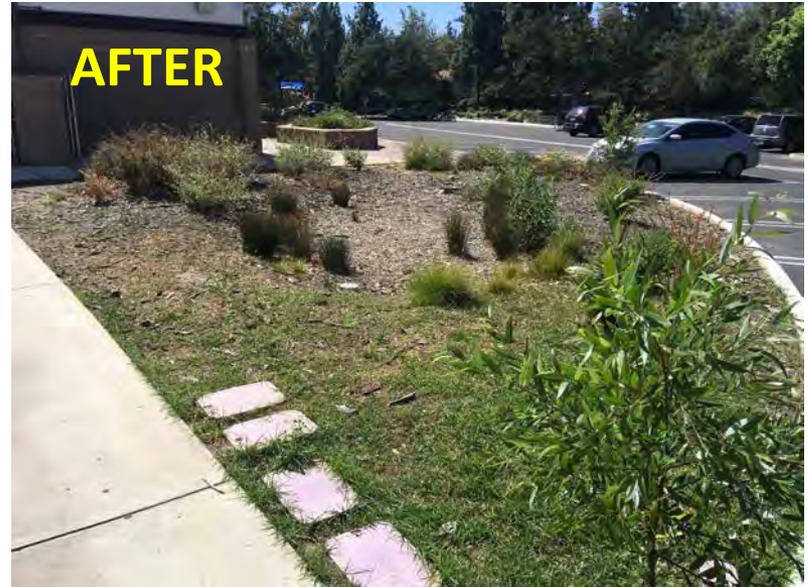
PUBLIC
VENTURA COUNTY
WORKS




Surfrider
Foundation.



Oak Park High School WFG – Fall 2016



MCW Trash TMDL Revisions Letter - Comment No. 5

Additional MFAC Revisions – recommended language:

Medea Creek Reach 2 (above confluence)

~~2. Twice~~ Once per month above the intersection with
Thousand Oaks Blvd., and within 72 hours of critical
conditions.

Lindero Creek Reach 2 (above Lake Lindero)

~~Twice~~ Once per month for Lindero Creek Reach 2 including
the waterbody, shorelines and the adjacent areas., and
within 72 hours of critical conditions.

MCW Trash TMDL Revisions Letter - Comment No. 7

Request for an extension of the final point source compliance date from July 7, 2017 to **July 8, 2020**.

- This TMDL is not included in 2010 Ventura MS4 Permit
- Consistency with the State Trash Amendments
 - 10 yr implementation timeline per 2010 Ventura MS4 Permit similarly to request for RS/BW Trash TMDL
 - TMDL milestones of 20% installation/reduction per year vs. State Trash Amendments' 10% installation/reduction per year

MCW Trash TMDL Revisions Letter - Comment No. 9

- Request for more time to complete required Tasks after the TMDL Revisions are adopted.

Task No. 2

~~Six months~~ One year from approval of TMRP from Los Angeles Board Executive Officer.

Task No. 5

~~Three~~ Six months from the effective date of the revisions to the TMDL.

Questions?

Ewelina Mutkowska, County Stormwater Program Manager
Ventura County Public Works Agency
(805) 645-1382 or Ewelina.Mutkowska@ventura.org

Acknowledgements

City of Thousand Oaks

County of Ventura

Larry Walker Associates, Inc.

John Minkel, Paul Jorgensen, and
Ron Manwill

Glenn Shephard & Arne Anselm



Clifford G. Finley
Public Works Director

City of Thousand Oaks Fiscal Year 2019-20 Annual Trash Report on Compliance with the Malibu Creek Trash TMDL, Resolution R18-006

This report differs from previously submitted annual trash reports to reflect that the City of Thousand Oaks (City) has opted to achieve Waste Load Allocation compliance with the Malibu Creek Trash TMDL by utilizing a full-capture trash control for its MS4. To make the conversion, the City installed 90 full-capture trash control devices along with inlet trash excluders to effectively prevent the transport of litter and trash through any City-owned catch basins in priority trash-generating land use areas. The change was completed at the end of July 2018 and reported to the Los Angeles Regional Water Quality Control Board (Regional Water Board) in City of Thousand Oaks Annual Trash Monitoring and Reporting Plan Report for the Malibu Creek Watershed July 2016 – June 2017 (submitted Nov. 29, 2018).

These steps to gain compliance with point source trash were taken as allowed by the Reconsideration of the Malibu Creek Trash TMDL, Resolution R18-006 (effective 5/6/20). This TMDL states that “MS4 Permittees may comply with WLAs by installing certified full capture systems on conveyances that collect drainage from priority land use areas as defined in Part 1 Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California...”

The City continues to work jointly with the Ventura County Watershed Protection District and the County of Ventura to control non-point source (NPS) trash and litter through an established Trash Monitoring and Reporting Plan (TMRP) and a Minimum Frequency of Assessment and Collection (MFAC). The existing TMRP is currently being revised and is subject to approval by the Executive Officer of the Regional Water Board. This report is therefore an interim report that is soon to be modified in form and content.

The reporting period of this report is Fiscal Year (FY) 2019-20 which goes from 7/1/19 until 6/30/20. Table 1 shows amounts of trash removed each month for MFAC events at Lindero Creek. To reduce trash accumulation between assessments, 12 additional BMP trash collections were conducted. Because they were collections not assessments, these events were not included in Table 1. This MFAC frequency aligns with that required by the Reconsidered Trash TMDL referenced above.

Table 1

Monthly Assessment of Collected Trash at LC1			
Date	Count (pieces)	Vol. (c.f.)	Weight (lbs.)
7/19	0	0	0
8/19	2	0.05	0.15
9/19	4	0.05	0.01
10/19	13	0.2	0.37
11/19	6	0.1	3.1
12/19	14	0.15	0.44
1/20	13	0.45	1.88
2/20	17	0.2	1.22
3/20	17	0.1	0.88
4/20	6	0.15	0.62
5/20	12	0.15	0.43
6/20	22	0.55	4.15

Compliance was maintained during the period of this report as verified by zero trash in creek areas after an MFAC collection. The addition of full-capture screening has additionally decreased levels of trash that had previously entered the creek and creek areas. Table 2 below shows that FY 2019-20 had reductions in the total annual loading of trash and litter among all metrics relative to prior years.

Table 2

Fiscal Year	Annual Loading at Lindero Creek, LC1		
	Pieces	Vol., c.f.	Weight, pounds
Original Baseline	902	13.4	69
2014-15	143	2.5	20.8
2015-16	302	3.4	26.4
2016-17	548	3.9	39.9
2017-18	227	3.3	18.6
2018-19	298	3	25.8
2019-20	126	2.1	13.3

Paul Jorgensen

Paul Jorgensen
Water Quality Supervisor





December 15, 2019

LB Nye
Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Subject: 2019 ANNUAL MONITORING REPORT FOR SANTA CLARA RIVER BACTERIA TOTAL
MAXIMUM DAILY LOAD

Dear Ms. Nye,

The Santa Clara River (SCR) Estuary and Reaches 3, 5, 6, and 7 Indicator Bacteria Total Maximum Daily Load (Bacteria TMDL) was adopted by the Los Angeles Regional Water Quality Control Board (Regional Water Board) on July 8, 2010 and came into effect on March 21, 2012. The Bacteria TMDL incorporates the reaches listed on the 303(d) list, Reach 3 which was added to the 303(d) list in the 2016 Integrated Report, and all tributaries to the impaired SCR reaches.

The Cities of Fillmore, Oxnard, Santa Paula, and Ventura, and the County of Ventura are working collaboratively to implement Bacteria TMDL requirements for the lower SCR to address impairments to the SCR Estuary and Reach 3. The Bacteria TMDL required an in-stream compliance bacteria water quality Monitoring Plan, as well as an Implementation Plan (including an Outfall Monitoring Plan) to outline how the TMDL Responsible Agencies will achieve compliance with the Bacteria TMDL Waste Load Allocations and Load Allocations for the lower Santa Clara River. In accordance with the *Bacteria TMDL final in-stream Compliance Monitoring Plan (CMP)*, in-stream monitoring for the Reach 3 (SCRR3-RW1) and SCR Estuary (SCRE-R005) has been conducted since October 11, 2016. The Regional Water Board accepted the *Implementation Plan for the Lower Santa Clara River Watershed (Implementation Plan)* in a letter dated December 26, 2017, and following an extension granted by Ms. Newman on May 25, 2018, the outfall monitoring has been conducted in accordance with the Implementation Plan's Outfall Monitoring Plan at five jurisdictional outfalls since September 18, 2018.¹

This annual report presents monitoring results for sampling events completed between October 30, 2018 and October 29, 2019. The attached tables summarize the results of weekly monitoring required by the CMP and monthly monitoring required by the Outfall Monitoring Plan. Weekly sampling occurs on Tuesdays at in-stream receiving water monitoring locations, and monthly at the five jurisdictional outfall monitoring locations (in coordination with in-stream receiving water monitoring activities).

Table 1 displays the annual sampling results for both in-stream receiving water and outfall monitoring locations, while Table 2 presents weekly results rolling 30-day geometric means for the in-stream receiving water monitoring locations. Sample collection dates are marked with a diamond (◆) symbol. Daily geometric means for wet weather and dry weather using the past 30 days of the respective sampling data (Table 2). Non-sampling-day bacteria values are assigned the value of the most recent sampling event. To meet the prescribed dry weather geometric mean frequency, statistics are calculated for dry events at SCRR3-RW1 by assigning a concentration value of 0.01 colony-forming unit (CFU) (rather than

¹ One jurisdictional outfall was selected per agency in Fillmore, Santa Paula, Ventura, Oxnard, and County unincorporated Saticoy (MO-FIL, -SPA, -VEN, -SRG, and -SAT respectively)

Ms. LB Nye
December 15, 2019
Page 2 of 2

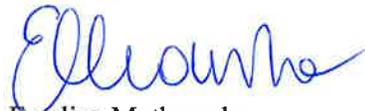
0.0 CFU) when the site was not flowing. A zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation.

Samples were collected by Ventura City's Wastewater Treatment Plant (WWTP) staff at SCRE-R005 and by Rincon Consultants at SCRR3-RW1, MO-FIL, MO-SPA, MO-VEN, MO-SRG, and MO-SAT for bacteria analysis by Ventura City's WWTP Laboratory. This report was prepared by Rincon Consultants, Inc.

On June 4, 2019, Rincon Consultants observed turbid receiving water conditions at SCRR3-RW1, likely caused by elevated flows within the Santa Clara River. Upon investigation, it was determined that water was flowing from Lake Piru, through Piru Creek and into Santa Clara River, and was the likely cause of the turbid water conditions at SCRR3-RW1. United Water Conservation District, the owner and operator of Lake Piru, confirmed that 30,000 cubic hectares of water were released from Lake Piru through most of June and into July. Turbid conditions were continued to be observed through July and August 2019.

If you have any questions regarding the results or activities related to the lower SCR Bacteria TMDL monitoring, please contact me at (805) 645-1382.

Sincerely,



Ewelina Mutkowska
County Stormwater Program Manager
Ventura County Public Works Agency

CC: Jun Zhu, Regional Water Quality Control Board – Los Angeles Region
Celine Gallon, Regional Water Quality Control Board – Los Angeles Region
Jeff Pratt, Ventura County Public Works Agency
Glenn Shephard, Ventura County Watershed Protection District
Arne Anselm, Ventura County Watershed Protection District
Joe Yahner, City of Ventura
Peter Shallenberger, City of Ventura
Roxanne Hughes, City of Fillmore
Tai Chau, City of Santa Paula
Steven Clark, City of Santa Paula
Jan Hauser, City of Oxnard
Badaoui Mouderrres, City of Oxnard
Heather D'Anna, City of Oxnard

Table 1.
Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)

Location	Time	Date	Rain	Single Sample		Single Sample		Single Sample				
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)		(10,000 MPN)		(400 MPN)		(104 MPN)	
Santa Clara River Reach 3												
SCRR3-RW1	8:10	10/30/2018	◆	Dry		n/s		n/a		n/a		n/a
SCRR3-RW1	11:26	11/6/2018	◆	Dry		n/s		n/a		n/a		n/a
SCRR3-RW1	8:51	11/13/2018	◆	Dry		n/s		n/a		n/a		n/a
SCRR3-RW1	7:57	11/20/2018	◆	Dry		n/s		n/a		n/a		n/a
SCRR3-RW1	7:56	11/27/2018	◆	Dry		n/s		n/a		n/a		n/a
SCRR3-RW1	8:15	12/4/2018	◆	Dry	=	579.4		n/a		n/a		n/a
SCRR3-RW1	8:50	12/11/2018	◆	Dry	=	108.1		n/a		n/a		n/a
SCRR3-RW1	8:05	12/18/2018	◆	Dry	=	88.2		n/a		n/a		n/a
SCRR3-RW1	8:50	12/26/2018	◆	Dry	=	93.3		n/a		n/a		n/a
SCRR3-RW1	7:55	1/2/2019	◆	Dry	=	75.9		n/a		n/a		n/a
SCRR3-RW1	9:05	1/8/2019	◆	Wet	=	686.7		n/a		n/a		n/a
SCRR3-RW1	8:18	1/15/2019	◆	Wet	=	260.2		n/a		n/a		n/a
SCRR3-RW1	8:15	1/22/2019	◆	Dry	=	44.1		n/a		n/a		n/a
SCRR3-RW1	10:00	1/29/2019	◆	Dry	=	43.5		n/a		n/a		n/a
SCRR3-RW1	9:00	2/5/2019	◆	Wet	=	278.0		n/a		n/a		n/a
SCRR3-RW1	8:20	2/12/2019	◆	Wet	=	27.5		n/a		n/a		n/a
SCRR3-RW1	8:05	2/19/2019	◆	Wet	=	8.6		n/a		n/a		n/a
SCRR3-RW1	10:15	2/26/2019	◆	Dry	=	38.4		n/a		n/a		n/a
SCRR3-RW1	8:10	3/5/2019	◆	Wet	=	65.2		n/a		n/a		n/a
SCRR3-RW1	8:30	3/12/2019	◆	Dry	=	34.1		n/a		n/a		n/a
SCRR3-RW1	9:00	3/19/2019	◆	Dry	=	1,732.9		n/a		n/a		n/a
SCRR3-RW1	8:25	3/26/2019	◆	Dry	=	39.1		n/a		n/a		n/a
SCRR3-RW1	9:00	4/2/2019	◆	Dry	=	24.2		n/a		n/a		n/a
SCRR3-RW1	8:25	4/9/2019	◆	Dry	=	53.4		n/a		n/a		n/a
SCRR3-RW1	8:45	4/16/2019	◆	Dry	=	57.1		n/a		n/a		n/a
SCRR3-RW1	8:25	4/23/2019	◆	Dry	=	95.9		n/a		n/a		n/a
SCRR3-RW1	9:00	4/30/2019	◆	Dry	=	59.8		n/a		n/a		n/a
SCRR3-RW1	9:30	5/7/2019	◆	Dry	=	57.1		n/a		n/a		n/a
SCRR3-RW1	8:15	5/14/2019	◆	Dry	=	108.1		n/a		n/a		n/a
SCRR3-RW1	11:57	5/21/2019	◆	Wet	=	86.2		n/a		n/a		n/a
SCRR3-RW1	8:35	5/28/2019	◆	Dry	=	54.6		n/a		n/a		n/a
SCRR3-RW1	8:30	6/4/2019	◆	Dry	=	1,732.8		n/a		n/a		n/a
SCRR3-RW1	8:30	6/11/2019	◆	Dry	=	210.0		n/a		n/a		n/a
SCRR3-RW1	10:45	6/18/2019	◆	Dry	=	143.9		n/a		n/a		n/a

Table 1.
Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)

Location	Time	Date		Rain		Single Sample		Single Sample		Single Sample		Single Sample
						E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)
						(235 MPN)		(10,000 MPN)		(400 MPN)		(104 MPN)
SCRR3-RW1	11:50	6/25/2019	◆	Dry	=	143.9		n/a		n/a		n/a
SCRR3-RW1	8:30	7/2/2019	◆	Dry	=	151.5		n/a		n/a		n/a
SCRR3-RW1	8:30	7/9/2019	◆	Dry	=	98.8		n/a		n/a		n/a
SCRR3-RW1	9:45	7/16/2019	◆	Dry	=	140.1		n/a		n/a		n/a
SCRR3-RW1	8:30	7/23/2019	◆	Dry	=	135.4		n/a		n/a		n/a
SCRR3-RW1	7:30	7/30/2019	◆	Dry	=	248.1		n/a		n/a		n/a
SCRR3-RW1	7:10	8/6/2019	◆	Dry	=	224.7		n/a		n/a		n/a
SCRR3-RW1	7:40	8/13/2019	◆	Dry	=	114.5		n/a		n/a		n/a
SCRR3-RW1	10:00	8/20/2019	◆	Dry	=	235.9		n/a		n/a		n/a
SCRR3-RW1	8:30	8/27/2019	◆	Dry	=	65.7		n/a		n/a		n/a
SCRR3-RW1	10:07	9/3/2019	◆	Dry	=	231.0		n/a		n/a		n/a
SCRR3-RW1	8:00	9/10/2019	◆	Dry	=	96.0		n/a		n/a		n/a
SCRR3-RW1	9:43	9/17/2019	◆	Dry	=	66.3		n/a		n/a		n/a
SCRR3-RW1	8:35	9/24/2019	◆	Dry	=	461.1		n/a		n/a		n/a
SCRR3-RW1	8:30	10/1/2019	◆	Dry	>	2,419.2		n/a		n/a		n/a
SCRR3-RW1	9:19	10/8/2019	◆	Dry	=	54.7		n/a		n/a		n/a
SCRR3-RW1	11:16	10/15/2019	◆	Dry	=	435.2		n/a		n/a		n/a
SCRR3-RW1	13:15	10/22/2019	◆	Dry	=	53.7		n/a		n/a		n/a
SCRR3-RW1	9:46	10/29/2019	◆	Dry	=	93.4		n/a		n/a		n/a
Santa Clara River Estuary												
SCRE-R005	9:12	10/30/2018	◆	Dry		n/a	>	16,000.0	=	4.0	=	23.8
SCRE-R005	10:30	11/6/2018	◆	Dry		n/a	=	170.0	=	20.0	<	1.0
SCRE-R005	9:28	11/14/2018	◆	Dry		n/a	=	152.0	=	13.0	=	19.0
SCRE-R005	9:38	11/20/2018	◆	Dry		n/a	=	330.0	=	20.0	=	21.0
SCRE-R005	7:38	11/27/2018	◆	Dry		n/a	=	9,200.0	=	40.0	=	7.0
SCRE-R005	8:09	12/4/2018	◆	Dry		n/a	>	16,000.0	=	130.0	=	56.0
SCRE-R005	8:49	12/11/2018	◆	Dry		n/a	>	16,000.0	=	220.0	=	68.9
SCRE-R005	7:56	12/18/2018	◆	Dry		n/a	>	16,000.0	=	490.0	=	2.0
SCRE-R005	9:57	12/26/2018	◆	Dry		n/a	=	9,200.0	=	310.0	=	16.2
SCRE-R005	9:57	1/2/2019	◆	Dry		n/a	=	1,700.0	=	20.0	=	9.7
SCRE-R005	9:05	1/8/2019	◆	Wet		n/a	>	16,000.0	=	3,500.0	=	1,553.1
SCRE-R005	8:10	1/15/2019	◆	Wet		n/a	>	16,000.0	>	16,000.0	>	2,419.2
SCRE-R005	8:59	1/22/2019	◆	Dry		n/a	=	9,200.0	=	1,400.0	=	137.4
SCRE-R005	9:00	1/29/2019	◆	Dry		n/a	=	1,700.0	=	170.0	=	145.0
SCRE-R005	9:58	2/5/2019	◆	Wet		n/a	>	16,000.0	=	1,700.0	=	217.8

Table 1.
Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)

Location	Time	Date		Rain	Single Sample		Single Sample		Single Sample		
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)
					(235 MPN)		(10,000 MPN)		(400 MPN)		(104 MPN)
SCRE-R005	8:12	2/12/2019	◆	Wet	n/a	=	3,500.0	=	330.0	=	238.2
SCRE-R005	8:10	2/19/2019	◆	Wet	n/a	=	16,000.0	=	210.0	=	178.9
SCRE-R005	8:29	2/26/2019	◆	Dry	n/a	=	5,400.0	=	120.0	=	135.4
SCRE-R005	11:00	3/5/2019	◆	Wet	n/a	=	9,200.0	=	1,300.0	=	435.2
SCRE-R005	9:02	3/12/2019	◆	Dry	n/a	=	3,500.0	=	140.0	=	275.5
SCRE-R005	9:56	3/19/2019	◆	Dry	n/a	=	9,200.0	=	270.0	=	75.9
SCRE-R005	9:52	3/26/2019	◆	Dry	n/a	=	1,100.0	=	460.0	=	70.3
SCRE-R005	9:43	4/2/2019	◆	Dry	n/a	=	9,200.0	=	490.0	=	133.4
SCRE-R005	10:09	4/9/2019	◆	Dry	n/a	=	700.0	=	20.0	=	29.9
SCRE-R005	10:30	4/16/2019	◆	Dry	n/a	=	1,400.0	=	49.0	=	167.4
SCRE-R005	10:17	4/23/2019	◆	Dry	n/a	=	1,700.0	=	310.0	=	137.4
SCRE-R005	13:15	4/30/2019	◆	Dry	n/a	>	16,000.0	=	2,800.0	=	68.1
SCRE-R005	10:10	5/7/2019	◆	Dry	n/a	=	2,400.0	=	120.0	=	46.1
SCRE-R005	9:33	5/14/2019	◆	Dry	n/a	=	2,400.0	=	2,400.0	=	178.9
SCRE-R005	9:37	5/21/2019	◆	Wet	n/a	=	2,400.0	=	330.0	=	235.9
SCRE-R005	8:40	5/28/2019	◆	Dry	n/a	=	9,200.0	=	5,400.0	=	365.4
SCRE-R005	9:15	6/4/2019	◆	Dry	n/a	=	16,000.0	=	9,200.0	=	1,986.3
SCRE-R005	8:25	6/11/2019	◆	Dry	n/a	=	2,400.0	=	330.0	=	547.5
SCRE-R005	9:20	6/18/2019	◆	Dry	n/a	=	9,200.0	=	410.0	=	275.5
SCRE-R005	9:20	6/25/2019	◆	Dry	n/a	=	790.0	=	18.0	=	613.1
SCRE-R005	9:10	7/2/2019	◆	Dry	n/a	=	16,000.0	=	20.0	=	517.0
SCRE-R005	8:25	7/9/2019	◆	Dry	n/a	>	16,000.0	=	9,200.0	>	2,419.0
SCRE-R005	9:05	7/16/2019	◆	Dry	n/a	=	790.0	=	45.0	=	158.0
SCRE-R005	8:23	7/23/2019	◆	Dry	n/a	=	9,200.0	=	130.0	=	59.0
SCRE-R005	8:33	7/30/2019	◆	Dry	n/a	=	3,500.0	=	20.0	=	15.0
SCRE-R005	9:15	8/6/2019	◆	Dry	n/a	=	1,100.0	<	18.0	=	105.8
SCRE-R005	8:06	8/13/2019	◆	Dry	n/a	=	330.0	=	20.0	>	2,419.2
SCRE-R005	8:37	8/20/2019	◆	Dry	n/a	=	3,500.0	=	45.0	=	325.6
SCRE-R005	8:49	8/27/2019	◆	Dry	n/a	=	1,700.0	=	93.0	=	435.2
SCRE-R005	9:40	9/3/2019	◆	Dry	n/a	=	5,400.0	=	260.0	>	2,419.2
SCRE-R005	8:18	9/10/2019	◆	Dry	n/a	=	3,500.0	<	18.0	>	2,419.2
SCRE-R005	8:06	9/17/2019	◆	Dry	n/a	=	4,300.0	=	20.0	=	194.7
SCRE-R005	9:20	9/24/2019	◆	Dry	n/a	>	16,000.0	=	130.0	>	2,419.2
SCRE-R005	9:05	10/1/2019	◆	Dry	n/a	>	16,000.0	=	78.0	=	128.1
SCRE-R005	9:50	10/8/2019	◆	Dry	n/a	=	940.0	<	18.0	=	7.2

Table 1.
Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)

Location	Time	Date		Rain		Single Sample		Single Sample		Single Sample		Single Sample
						E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)
						(235 MPN)		(10,000 MPN)		(400 MPN)		(104 MPN)
SCRE-R005	11:20	10/15/2019	◆	Dry		n/a	=	9,200.0	<	18.0	=	75.2
SCRE-R005	9:08	10/22/2019	◆	Dry		n/a	=	1,200.0	<	18.0	=	204.6
SCRE-R005	9:45	10/29/2019	◆	Dry		n/a	>	16,000.0	=	130.0	=	517.2
Fillmore Outfall												
MO-FIL	8:03	11/20/2018	◆	Dry	>	2,419.2	>	16,000.0	=	16,000.0	>	2,419.2
MO-FIL	7:26	12/18/2018	◆	Dry	>	2,419.2	=	5,400.0	=	490.0	=	920.8
MO-FIL	7:40	1/15/2019	◆	Wet	>	2,419.2	>	16,000.0	=	5,400.0	>	2,419.2
MO-FIL	7:25	2/19/2019	◆	Wet	=	83.6	=	9,200.0	=	270.0	=	285.1
MO-FIL	8:25	3/19/2019	◆	Dry	>	2,419.2	>	16,000.0	=	1,700.0	>	2,419.2
MO-FIL	8:30	4/16/2019	◆	Dry	=	2,419.2	>	16,000.0	>	16,000.0	>	2,419.2
MO-FIL	11:34	5/21/2019	◆	Wet	=	579.4	=	9,200.0	=	1,700.0	>	2,419.2
MO-FIL	9:30	6/18/2019	◆	Dry	=	43.9	=	490.0	=	110.0	=	20.6
MO-FIL	9:09	7/16/2019	◆	Dry	=	104.3	=	5,400.0	=	490.0	>	2,419.2
MO-FIL	9:22	8/20/2019	◆	Dry	=	79.4	>	16,000.0	=	110.0	>	2,419.2
MO-FIL	9:28	9/3/2019	◆	Dry	=	112.6	>	16,000.0	=	16,000.0	>	2,419.2
MO-FIL	10:38	10/15/2019	◆	Dry	=	82.0	>	16,000.0	=	3,500.0	>	2,419.2
Santa Paula Outfall												
MO-SPA	8:08	11/20/2018	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	8:12	12/18/2018	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	8:10	1/15/2019	◆	Wet	>	2,419.2	>	16,000.0	>	16,000.0	>	2,419.2
MO-SPA	8:14	2/19/2019	◆	Wet		n/s		n/s		n/s		n/s
MO-SPA	9:11	3/19/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	9:16	4/16/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	12:15	5/21/2019	◆	Wet		n/s		n/s		n/s		n/s
MO-SPA	10:17	6/18/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	9:55	7/16/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	9:57	8/20/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	9:50	9/3/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	13:26	10/15/2019	◆	Dry		n/s		n/s		n/s		n/s
Ventura Outfall												
MO-VEN	9:01	11/20/2018	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	8:57	12/18/2018	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	8:42	1/15/2019	◆	Wet		n/s		n/s		n/s		n/s
MO-VEN	9:09	2/19/2019	◆	Wet		n/s		n/s		n/s		n/s
MO-VEN	9:46	3/19/2019	◆	Dry		n/s		n/s		n/s		n/s

Table 1.
Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)

Location	Time	Date	◆	Rain	Single Sample		Single Sample		Single Sample	
					E.coli (MPN/100mL)	(235 MPN)	Total Coliform (MPN/100mL)	(10,000 MPN)	Fecal Coliform (MPN/100mL)	(400 MPN)
MO-VEN	10:02	4/16/2019	◆	Dry		n/s		n/s		n/s
MO-VEN	12:41	5/21/2019	◆	Wet		n/s		n/s		n/s
MO-VEN	11:43	6/18/2019	◆	Dry		n/s		n/s		n/s
MO-VEN	10:39	7/16/2019	◆	Dry		n/s		n/s		n/s
MO-VEN	10:45	8/20/2019	◆	Dry		n/s		n/s		n/s
MO-VEN	10:51	9/3/2019	◆	Dry		n/s		n/s		n/s
MO-VEN	14:11	10/15/2019	◆	Dry		n/s		n/s		n/s
Oxnard Outfall										
MO-SRG	9:14	11/20/2018	◆	Dry		n/s		n/s		n/s
MO-SRG	9:08	12/18/2018	◆	Dry		n/s		n/s		n/s
MO-SRG	9:10	1/15/2019	◆	Wet	=	1,413.6	>	16,000.0	=	1,300.0 > 2,419.2
MO-SRG	9:21	2/19/2019	◆	Wet		n/s		n/s		n/s
MO-SRG	10:01	3/19/2019	◆	Dry		n/s		n/s		n/s
MO-SRG	10:13	4/16/2019	◆	Dry		n/s		n/s		n/s
MO-SRG	12:54	5/21/2019	◆	Wet		n/s		n/s		n/s
MO-SRG	11:57	6/18/2019	◆	Dry		n/s		n/s		n/s
MO-SRG	10:53	7/16/2019	◆	Dry		n/s		n/s		n/s
MO-SRG	10:58	8/20/2019	◆	Dry		n/s		n/s		n/s
MO-SRG	11:02	9/3/2019	◆	Dry		n/s		n/s		n/s
MO-SRG	14:35	10/15/2019	◆	Dry		n/s		n/s		n/s
Saticoy Outfall										
MO-SAT	8:40	11/20/2018	◆	Dry		n/s		n/s		n/s
MO-SAT	8:36	12/18/2018	◆	Dry		n/s		n/s		n/s
MO-SAT	8:31	1/15/2019	◆	Wet		n/s		n/s		n/s
MO-SAT	8:48	2/19/2019	◆	Wet		n/s		n/s		n/s
MO-SAT	9:37	3/19/2019	◆	Dry		n/s		n/s		n/s
MO-SAT	9:41	4/16/2019	◆	Dry		n/s		n/s		n/s
MO-SAT	12:29	5/21/2019	◆	Wet		n/s		n/s		n/s
MO-SAT	11:21	6/18/2019	◆	Dry		n/s		n/s		n/s
MO-SAT	10:20	7/16/2019	◆	Dry		n/s		n/s		n/s
MO-SAT	10:19	8/20/2019	◆	Dry		n/s		n/s		n/s
MO-SAT	10:31	9/3/2019	◆	Dry		n/s		n/s		n/s
MO-SAT	13:47	10/15/2019	◆	Dry		n/s		n/s		n/s

Notes:

◆ Date of Sampling

**Table 1.
Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain	Single Sample	Single Sample	Single Sample	Single Sample
				E.coli (MPN/100mL)	Total Coliform (MPN/100mL)	Fecal Coliform (MPN/100mL)	Enterococcus (MPN/100mL)
				(235 MPN)	(10,000 MPN)	(400 MPN)	(104 MPN)

MPN - most probably number > - greater than
TMDL - Total Maximum Daily Load < - less than
E.coli - Escherichia coli = - equal to
n/s - not sampled due to dry conditions
n/a - not applicable to site

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
Santa Clara River Reach 3																
SCRR3-RW1	10/30/2018	◆	8:10	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/31/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/1/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/2/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/3/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/4/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/5/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/6/2018	◆	11:26	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/7/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/8/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/9/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/10/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/11/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/12/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/13/2018	◆	8:51	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/14/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/15/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/16/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/17/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/18/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/19/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/20/2018	◆	7:57	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/21/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/22/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/23/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/24/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/25/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/26/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/27/2018	◆	7:56	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/28/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/29/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/30/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/1/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/2/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/3/2018		-	Dry	=	0.0	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/4/2018	◆	8:15	Dry	=	579.4	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/5/2018		-	Dry	=	579.4	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/6/2018		-	Dry	=	579.4	0.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/7/2018		-	Dry	=	579.4	0.0		n/a	n/a		n/a	n/a		n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)	
SCRR3-RW1	12/8/2018		-	Dry	=	579.4	0.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/9/2018		-	Dry	=	579.4	0.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/10/2018		-	Dry	=	579.4	0.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/11/2018	◆	8:50	Dry	=	108.1	0.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/12/2018		-	Dry	=	108.1	0.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/13/2018		-	Dry	=	108.1	0.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/14/2018		-	Dry	=	108.1	0.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/15/2018		-	Dry	=	108.1	0.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/16/2018		-	Dry	=	108.1	0.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/17/2018		-	Dry	=	108.1	1.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/18/2018	◆	8:05	Dry	=	88.2	1.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/19/2018		-	Dry	=	88.2	2.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/20/2018		-	Dry	=	88.2	2.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/21/2018		-	Dry	=	88.2	3.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/22/2018		-	Dry	=	88.2	5.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/23/2018		-	Dry	=	88.2	6.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/24/2018		-	Dry	=	88.2	9.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/25/2018		-	Dry	=	88.2	12.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/26/2018	◆	8:50	Dry	=	93.3	17.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/27/2018		-	Dry	=	93.3	23.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/28/2018		-	Dry	=	93.3	31.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/29/2018		-	Dry	=	93.3	43.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/30/2018		-	Dry	=	93.3	58.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/31/2018		-	Dry	=	93.3	79.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/1/2019		-	Dry	=	93.3	107.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/2/2019	◆	7:55	Dry	=	75.9	144.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/3/2019		-	Dry	=	75.9	135.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/4/2019		-	Dry	=	75.9	126.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/5/2019		-	Dry	=	75.9	118.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/6/2019		-	Dry	=	75.9	110.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/7/2019		-	Dry	=	75.9	103.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/8/2019	◆	9:05	Wet	=	686.7	103.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/9/2019		-	Wet	=	686.7	104.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/10/2019		-	Wet	=	686.7	110.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/11/2019		-	Wet	=	686.7	117.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/12/2019		-	Wet	=	686.7	125.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/13/2019		-	Wet	=	686.7	133.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/14/2019		-	Wet	=	686.7	141.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/15/2019	◆	8:18	Wet	=	260.2	146.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/16/2019		-	Wet	=	260.2	150.5	n/a	n/a	n/a	n/a	n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)	
SCRR3-RW1	1/17/2019		-	Wet	=	260.2	156.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/18/2019		-	Wet	=	260.2	161.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/19/2019		-	Wet	=	260.2	167.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/20/2019		-	Wet	=	260.2	173.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/21/2019		-	Wet	=	260.2	180.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/22/2019	◆	8:15	Dry	=	44.1	176.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/23/2019		-	Dry	=	44.1	172.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/24/2019		-	Dry	=	44.1	168.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/25/2019		-	Dry	=	44.1	164.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/26/2019		-	Dry	=	44.1	159.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/27/2019		-	Dry	=	44.1	156.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/28/2019		-	Dry	=	44.1	152.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/29/2019	◆	10:00	Dry	=	43.5	148.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/30/2019		-	Dry	=	43.5	144.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/31/2019		-	Dry	=	43.5	141.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/1/2019		-	Dry	=	43.5	138.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/2/2019		-	Dry	=	43.5	135.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/3/2019		-	Dry	=	43.5	133.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/4/2019		-	Dry	=	43.5	130.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/5/2019	◆	9:00	Wet	=	278.0	136.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/6/2019		-	Wet	=	278.0	142.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/7/2019		-	Wet	=	278.0	138.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/8/2019		-	Wet	=	278.0	134.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/9/2019		-	Wet	=	278.0	130.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/10/2019		-	Wet	=	278.0	126.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/11/2019		-	Wet	=	278.0	122.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/12/2019	◆	8:20	Wet	=	27.5	110.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/13/2019		-	Wet	=	27.5	99.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/14/2019		-	Wet	=	27.5	91.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/15/2019		-	Wet	=	27.5	85.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/16/2019		-	Wet	=	27.5	79.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/17/2019		-	Wet	=	27.5	73.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/18/2019		-	Wet	=	27.5	68.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/19/2019	◆	8:05	Wet	=	8.6	60.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/20/2019		-	Wet	=	8.6	54.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/21/2019		-	Wet	=	8.6	51.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/22/2019		-	Wet	=	8.6	48.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/23/2019		-	Wet	=	8.6	46.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/24/2019		-	Wet	=	8.6	43.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/25/2019		-	Wet	=	8.6	41.3	n/a	n/a	n/a	n/a	n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)	
SCRR3-RW1	2/26/2019	◆	10:15	Dry	=	38.4	41.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/27/2019		-	Dry	=	38.4	40.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/28/2019		-	Dry	=	38.4	40.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/1/2019		-	Dry	=	38.4	40.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/2/2019		-	Dry	=	38.4	40.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/3/2019		-	Dry	=	38.4	40.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/4/2019		-	Dry	=	38.4	40.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/5/2019	◆	8:10	Wet	=	65.2	40.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/6/2019		-	Wet	=	65.2	41.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/7/2019		-	Wet	=	65.2	39.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/8/2019		-	Wet	=	65.2	37.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/9/2019		-	Wet	=	65.2	35.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/10/2019		-	Wet	=	65.2	33.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/11/2019		-	Wet	=	65.2	32.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/12/2019	◆	8:30	Dry	=	34.1	30.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/13/2019		-	Dry	=	34.1	28.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/14/2019		-	Dry	=	34.1	28.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/15/2019		-	Dry	=	34.1	28.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/16/2019		-	Dry	=	34.1	28.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/17/2019		-	Dry	=	34.1	28.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/18/2019		-	Dry	=	34.1	29.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/19/2019	◆	9:00	Dry	=	1,732.9	33.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/20/2019		-	Dry	=	1,732.9	38.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/21/2019		-	Dry	=	1,732.9	45.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/22/2019		-	Dry	=	1,732.9	54.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/23/2019		-	Dry	=	1,732.9	65.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/24/2019		-	Dry	=	1,732.9	78.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/25/2019		-	Dry	=	1,732.9	93.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/26/2019	◆	8:25	Dry	=	39.1	97.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/27/2019		-	Dry	=	39.1	102.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/28/2019		-	Dry	=	39.1	103.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/29/2019		-	Dry	=	39.1	103.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/30/2019		-	Dry	=	39.1	103.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/31/2019		-	Dry	=	39.1	103.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/1/2019		-	Dry	=	39.1	103.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/2/2019	◆	9:00	Dry	=	24.2	101.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/3/2019		-	Dry	=	24.2	100.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/4/2019		-	Dry	=	24.2	96.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/5/2019		-	Dry	=	24.2	93.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/6/2019		-	Dry	=	24.2	90.7	n/a	n/a	n/a	n/a	n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)	
SCRR3-RW1	4/7/2019		-	Dry	=	24.2	87.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/8/2019		-	Dry	=	24.2	84.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/9/2019	◆	8:25	Dry	=	53.4	84.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/10/2019		-	Dry	=	53.4	83.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/11/2019		-	Dry	=	53.4	85.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/12/2019		-	Dry	=	53.4	86.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/13/2019		-	Dry	=	53.4	87.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/14/2019		-	Dry	=	53.4	88.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/15/2019		-	Dry	=	53.4	90.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/16/2019	◆	8:45	Dry	=	57.1	91.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/17/2019		-	Dry	=	57.1	93.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/18/2019		-	Dry	=	57.1	83.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/19/2019		-	Dry	=	57.1	74.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/20/2019		-	Dry	=	57.1	66.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/21/2019		-	Dry	=	57.1	59.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/22/2019		-	Dry	=	57.1	52.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/23/2019	◆	8:25	Dry	=	95.9	48.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/24/2019		-	Dry	=	95.9	43.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/25/2019		-	Dry	=	95.9	44.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/26/2019		-	Dry	=	95.9	46.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/27/2019		-	Dry	=	95.9	47.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/28/2019		-	Dry	=	95.9	49.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/29/2019		-	Dry	=	95.9	50.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/30/2019	◆	9:00	Dry	=	59.8	51.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/1/2019		-	Dry	=	59.8	52.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/2/2019		-	Dry	=	59.8	53.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/3/2019		-	Dry	=	59.8	55.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/4/2019		-	Dry	=	59.8	57.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/5/2019		-	Dry	=	59.8	58.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/6/2019		-	Dry	=	59.8	60.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/7/2019	◆	9:30	Dry	=	57.1	62.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/8/2019		-	Dry	=	57.1	64.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/9/2019		-	Dry	=	57.1	64.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/10/2019		-	Dry	=	57.1	64.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/11/2019		-	Dry	=	57.1	64.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/12/2019		-	Dry	=	57.1	64.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/13/2019		-	Dry	=	57.1	64.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/14/2019	◆	8:15	Dry	=	108.1	66.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/15/2019		-	Dry	=	108.1	68.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/16/2019		-	Dry	=	108.1	69.4	n/a	n/a	n/a	n/a	n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)	
SCRR3-RW1	5/17/2019		-	Dry	=	108.1	70.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/18/2019		-	Dry	=	108.1	72.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/19/2019		-	Dry	=	108.1	74.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/20/2019		-	Dry	=	108.1	75.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/21/2019	◆	11:57	Wet	=	86.2	76.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/22/2019		-	Wet	=	86.2	77.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/23/2019		-	Wet	=	86.2	77.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/24/2019		-	Wet	=	86.2	77.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/25/2019		-	Wet	=	86.2	76.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/26/2019		-	Wet	=	86.2	76.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/27/2019		-	Wet	=	86.2	76.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/28/2019	◆	8:35	Dry	=	54.6	74.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/29/2019		-	Dry	=	54.6	73.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/30/2019		-	Dry	=	54.6	73.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	5/31/2019		-	Dry	=	54.6	73.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/1/2019		-	Dry	=	54.6	72.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/2/2019		-	Dry	=	54.6	72.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/3/2019		-	Dry	=	54.6	72.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/4/2019	◆	8:30	Dry	=	1,732.8	81.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/5/2019		-	Dry	=	1,732.8	90.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/6/2019		-	Dry	=	1,732.8	101.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/7/2019		-	Dry	=	1,732.8	113.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/8/2019		-	Dry	=	1,732.8	127.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/9/2019		-	Dry	=	1,732.8	142.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/10/2019		-	Dry	=	1,732.8	160.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/11/2019	◆	8:30	Dry	=	210.0	167.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/12/2019		-	Dry	=	210.0	174.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/13/2019		-	Dry	=	210.0	178.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/14/2019		-	Dry	=	210.0	182.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/15/2019		-	Dry	=	210.0	186.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/16/2019		-	Dry	=	210.0	190.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/17/2019		-	Dry	=	210.0	195.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/18/2019	◆	10:45	Dry	=	143.9	196.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/19/2019		-	Dry	=	143.9	198.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/20/2019		-	Dry	=	143.9	202.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/21/2019		-	Dry	=	143.9	205.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/22/2019		-	Dry	=	143.9	209.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/23/2019		-	Dry	=	143.9	212.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/24/2019		-	Dry	=	143.9	216.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/25/2019	◆	11:50	Dry	=	143.9	220.2	n/a	n/a	n/a	n/a	n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)	
SCRR3-RW1	6/26/2019		-	Dry	=	143.9	224.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/27/2019		-	Dry	=	143.9	231.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/28/2019		-	Dry	=	143.9	239.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/29/2019		-	Dry	=	143.9	246.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	6/30/2019		-	Dry	=	143.9	254.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/1/2019		-	Dry	=	143.9	263.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/2/2019	◆	8:30	Dry	=	151.5	272.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/3/2019		-	Dry	=	151.5	281.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/4/2019		-	Dry	=	151.5	259.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/5/2019		-	Dry	=	151.5	239.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/6/2019		-	Dry	=	151.5	220.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/7/2019		-	Dry	=	151.5	203.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/8/2019		-	Dry	=	151.5	187.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/9/2019	◆	8:30	Dry	=	98.8	170.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/10/2019		-	Dry	=	98.8	155.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/11/2019		-	Dry	=	98.8	151.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/12/2019		-	Dry	=	98.8	147.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/13/2019		-	Dry	=	98.8	143.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/14/2019		-	Dry	=	98.8	140.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/15/2019		-	Dry	=	98.8	136.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/16/2019	◆	9:45	Dry	=	140.1	135.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/17/2019		-	Dry	=	140.1	133.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/18/2019		-	Dry	=	140.1	133.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/19/2019		-	Dry	=	140.1	132.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/20/2019		-	Dry	=	140.1	132.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/21/2019		-	Dry	=	140.1	132.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/22/2019		-	Dry	=	140.1	132.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/23/2019	◆	8:30	Dry	=	135.4	132.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/24/2019		-	Dry	=	135.4	132.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/25/2019		-	Dry	=	135.4	131.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/26/2019		-	Dry	=	135.4	131.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/27/2019		-	Dry	=	135.4	131.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/28/2019		-	Dry	=	135.4	131.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/29/2019		-	Dry	=	135.4	130.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/30/2019	◆	7:30	Dry	=	248.1	133.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/31/2019		-	Dry	=	248.1	135.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/1/2019		-	Dry	=	248.1	137.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/2/2019		-	Dry	=	248.1	140.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/3/2019		-	Dry	=	248.1	142.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/4/2019		-	Dry	=	248.1	144.8	n/a	n/a	n/a	n/a	n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)	
SCRR3-RW1	8/5/2019		-	Dry	=	248.1	147.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/6/2019	◆	7:10	Dry	=	224.7	149.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/7/2019		-	Dry	=	224.7	151.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/8/2019		-	Dry	=	224.7	155.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/9/2019		-	Dry	=	224.7	159.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/10/2019		-	Dry	=	224.7	164.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/11/2019		-	Dry	=	224.7	168.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/12/2019		-	Dry	=	224.7	173.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/13/2019	◆	7:40	Dry	=	114.5	174.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/14/2019		-	Dry	=	114.5	175.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/15/2019		-	Dry	=	114.5	173.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/16/2019		-	Dry	=	114.5	172.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/17/2019		-	Dry	=	114.5	171.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/18/2019		-	Dry	=	114.5	170.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/19/2019		-	Dry	=	114.5	169.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/20/2019	◆	10:00	Dry	=	235.9	172.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/21/2019		-	Dry	=	235.9	175.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/22/2019		-	Dry	=	235.9	178.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/23/2019		-	Dry	=	235.9	181.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/24/2019		-	Dry	=	235.9	185.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/25/2019		-	Dry	=	235.9	188.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/26/2019		-	Dry	=	235.9	192.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/27/2019	◆	8:30	Dry	=	65.7	187.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/28/2019		-	Dry	=	65.7	183.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/29/2019		-	Dry	=	65.7	175.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/30/2019		-	Dry	=	65.7	167.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/31/2019		-	Dry	=	65.7	160.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/1/2019		-	Dry	=	65.7	153.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/2/2019		-	Dry	=	65.7	146.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/3/2019	◆	10:07	Dry	=	231.0	146.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/4/2019		-	Dry	=	231.0	146.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/5/2019		-	Dry	=	231.0	146.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/6/2019		-	Dry	=	231.0	146.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/7/2019		-	Dry	=	231.0	146.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/8/2019		-	Dry	=	231.0	146.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/9/2019		-	Dry	=	231.0	146.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/10/2019	◆	8:00	Dry	=	96.0	142.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/11/2019		-	Dry	=	96.0	138.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/12/2019		-	Dry	=	96.0	137.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/13/2019		-	Dry	=	96.0	137.0	n/a	n/a	n/a	n/a	n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)	
SCRR3-RW1	9/14/2019		-	Dry	=	96.0	136.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/15/2019		-	Dry	=	96.0	135.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/16/2019		-	Dry	=	96.0	134.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/17/2019	◆	9:43	Dry	=	66.3	132.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/18/2019		-	Dry	=	66.3	129.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/19/2019		-	Dry	=	66.3	124.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/20/2019		-	Dry	=	66.3	119.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/21/2019		-	Dry	=	66.3	114.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/22/2019		-	Dry	=	66.3	109.6	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/23/2019		-	Dry	=	66.3	105.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/24/2019	◆	8:35	Dry	=	461.1	107.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/25/2019		-	Dry	=	461.1	109.8	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/26/2019		-	Dry	=	461.1	117.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/27/2019		-	Dry	=	461.1	125.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/28/2019		-	Dry	=	461.1	133.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/29/2019		-	Dry	=	461.1	142.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	9/30/2019		-	Dry	=	461.1	152.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/1/2019	◆	8:30	Dry	>	2,419.2	171.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/2/2019		-	Dry	>	2,419.2	193.3	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/3/2019		-	Dry	>	2,419.2	209.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/4/2019		-	Dry	>	2,419.2	226.0	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/5/2019		-	Dry	>	2,419.2	244.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/6/2019		-	Dry	>	2,419.2	264.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/7/2019		-	Dry	>	2,419.2	285.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/8/2019	◆	9:19	Dry	=	54.7	272.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/9/2019		-	Dry	=	54.7	259.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/10/2019		-	Dry	=	54.7	254.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/11/2019		-	Dry	=	54.7	250.2	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/12/2019		-	Dry	=	54.7	245.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/13/2019		-	Dry	=	54.7	240.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/14/2019		-	Dry	=	54.7	236.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/15/2019	◆	11:16	Dry	=	435.2	248.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/16/2019		-	Dry	=	435.2	261.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/17/2019		-	Dry	=	435.2	278.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/18/2019		-	Dry	=	435.2	296.5	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/19/2019		-	Dry	=	435.2	315.7	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/20/2019		-	Dry	=	435.2	336.1	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/21/2019		-	Dry	=	435.2	357.9	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/22/2019	◆	13:15	Dry	=	53.7	355.4	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	10/23/2019		-	Dry	=	53.7	352.9	n/a	n/a	n/a	n/a	n/a	n/a

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRR3-RW1	10/24/2019		-	Dry	=	53.7	328.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/25/2019		-	Dry	=	53.7	305.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/26/2019		-	Dry	=	53.7	284.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/27/2019		-	Dry	=	53.7	264.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/28/2019		-	Dry	=	53.7	246.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/29/2019	◆	9:46	Dry	=	93.4	233.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/30/2019		-	Dry	=	93.4	221.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/31/2019		-	Dry	=	93.4	198.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/1/2019		-	Dry	=	93.4	178.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/2/2019		-	Dry	=	93.4	160.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/3/2019		-	Dry	=	93.4	143.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/4/2019		-	Dry	=	93.4	128.9		n/a	n/a		n/a	n/a		n/a	n/a
Santa Clara River Estuary																
SCRE-R005	10/30/2018	◆	9:12	Dry		n/a	n/a	>	16,000.0	9,147.7	=	4.0	15.4	=	23.8	8.9
SCRE-R005	10/31/2018		-	Dry		n/a	n/a	>	16,000.0	9,324.9	=	4.0	14.8	=	23.8	8.8
SCRE-R005	11/1/2018		-	Dry		n/a	n/a	>	16,000.0	9,324.9	=	4.0	14.3	=	23.8	9.4
SCRE-R005	11/2/2018		-	Dry		n/a	n/a	>	16,000.0	9,324.9	=	4.0	13.7	=	23.8	9.9
SCRE-R005	11/3/2018		-	Dry		n/a	n/a	>	16,000.0	9,324.9	=	4.0	13.2	=	23.8	10.5
SCRE-R005	11/4/2018		-	Dry		n/a	n/a	>	16,000.0	9,324.9	=	4.0	12.7	=	23.8	11.2
SCRE-R005	11/5/2018		-	Dry		n/a	n/a	>	16,000.0	9,324.9	=	4.0	12.2	=	23.8	11.8
SCRE-R005	11/6/2018	◆	10:30	Dry		n/a	n/a	=	170.0	8,014.1	=	20.0	12.4	<	1.0	11.3
SCRE-R005	11/7/2018		-	Dry		n/a	n/a	=	170.0	6,887.5	=	20.0	12.5	<	1.0	10.8
SCRE-R005	11/8/2018		-	Dry		n/a	n/a	=	170.0	6,034.0	=	20.0	12.2	<	1.0	9.8
SCRE-R005	11/9/2018		-	Dry		n/a	n/a	=	170.0	5,286.2	=	20.0	11.8	<	1.0	8.9
SCRE-R005	11/10/2018		-	Dry		n/a	n/a	=	170.0	4,631.1	=	20.0	11.4	<	1.0	8.1
SCRE-R005	11/11/2018		-	Dry		n/a	n/a	=	170.0	4,057.2	=	20.0	11.1	<	1.0	7.4
SCRE-R005	11/12/2018		-	Dry		n/a	n/a	=	170.0	3,554.4	=	20.0	10.8	<	1.0	6.7
SCRE-R005	11/13/2018		-	Dry		n/a	n/a	=	170.0	3,113.9	=	20.0	10.4	<	1.0	6.1
SCRE-R005	11/14/2018	◆	9:28	Dry		n/a	n/a	=	152.0	2,717.8	=	13.0	10.0	=	19.0	6.1
SCRE-R005	11/15/2018		-	Dry		n/a	n/a	=	152.0	2,419.1	=	13.0	10.4	=	19.0	6.3
SCRE-R005	11/16/2018		-	Dry		n/a	n/a	=	152.0	2,153.2	=	13.0	10.8	=	19.0	6.4
SCRE-R005	11/17/2018		-	Dry		n/a	n/a	=	152.0	1,916.5	=	13.0	11.2	=	19.0	6.6
SCRE-R005	11/18/2018		-	Dry		n/a	n/a	=	152.0	1,705.9	=	13.0	11.7	=	19.0	6.8
SCRE-R005	11/19/2018		-	Dry		n/a	n/a	=	152.0	1,518.3	=	13.0	12.1	=	19.0	6.9
SCRE-R005	11/20/2018	◆	9:38	Dry		n/a	n/a	=	330.0	1,386.8	=	20.0	12.8	=	21.0	7.1
SCRE-R005	11/21/2018		-	Dry		n/a	n/a	=	330.0	1,266.7	=	20.0	13.5	=	21.0	7.3
SCRE-R005	11/22/2018		-	Dry		n/a	n/a	=	330.0	1,134.5	=	20.0	13.4	=	21.0	7.6
SCRE-R005	11/23/2018		-	Dry		n/a	n/a	=	330.0	1,016.2	=	20.0	13.3	=	21.0	7.9
SCRE-R005	11/24/2018		-	Dry		n/a	n/a	=	330.0	910.1	=	20.0	13.1	=	21.0	8.2
SCRE-R005	11/25/2018		-	Dry		n/a	n/a	=	330.0	815.2	=	20.0	13.0	=	21.0	8.5

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean	
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRE-R005	11/26/2018		-	Dry	n/a	n/a	=	330.0	730.1	=	20.0	12.9	=	21.0	8.8
SCRE-R005	11/27/2018	◆	7:38	Dry	n/a	n/a	=	9,200.0	730.6	=	40.0	13.0	=	7.0	8.8
SCRE-R005	11/28/2018			Dry	n/a	n/a	=	9,200.0	731.2	=	40.0	13.2	=	7.0	8.7
SCRE-R005	11/29/2018		-	Dry	n/a	n/a	=	9,200.0	717.8	=	40.0	14.3	=	7.0	8.4
SCRE-R005	11/30/2018		-	Dry	n/a	n/a	=	9,200.0	704.7	=	40.0	15.4	=	7.0	8.1
SCRE-R005	12/1/2018		-	Dry	n/a	n/a	=	9,200.0	691.8	=	40.0	16.6	=	7.0	7.7
SCRE-R005	12/2/2018		-	Dry	n/a	n/a	=	9,200.0	679.2	=	40.0	17.9	=	7.0	7.4
SCRE-R005	12/3/2018		-	Dry	n/a	n/a	=	9,200.0	666.8	=	40.0	19.4	=	7.0	7.1
SCRE-R005	12/4/2018	◆	8:09	Dry	n/a	n/a	>	16,000.0	666.8	=	130.0	21.8	=	56.0	7.3
SCRE-R005	12/5/2018		-	Dry	n/a	n/a	>	16,000.0	666.8	=	130.0	24.4	=	56.0	7.6
SCRE-R005	12/6/2018		-	Dry	n/a	n/a	>	16,000.0	775.8	=	130.0	26.0	=	56.0	8.6
SCRE-R005	12/7/2018		-	Dry	n/a	n/a	>	16,000.0	902.7	=	130.0	27.7	=	56.0	9.9
SCRE-R005	12/8/2018		-	Dry	n/a	n/a	>	16,000.0	1,050.3	=	130.0	29.5	=	56.0	11.3
SCRE-R005	12/9/2018		-	Dry	n/a	n/a	>	16,000.0	1,222.1	=	130.0	31.4	=	56.0	12.9
SCRE-R005	12/10/2018		-	Dry	n/a	n/a	>	16,000.0	1,422.0	=	130.0	33.4	=	56.0	14.8
SCRE-R005	12/11/2018	◆	8:49	Dry	n/a	n/a	>	16,000.0	1,654.6	=	220.0	36.2	=	68.9	17.0
SCRE-R005	12/12/2018		-	Dry	n/a	n/a	>	16,000.0	1,925.3	=	220.0	39.2	=	68.9	19.6
SCRE-R005	12/13/2018		-	Dry	n/a	n/a	>	16,000.0	2,240.2	=	220.0	42.4	=	68.9	22.6
SCRE-R005	12/14/2018		-	Dry	n/a	n/a	>	16,000.0	2,616.3	=	220.0	46.6	=	68.9	23.5
SCRE-R005	12/15/2018		-	Dry	n/a	n/a	>	16,000.0	3,055.6	=	220.0	51.2	=	68.9	24.6
SCRE-R005	12/16/2018		-	Dry	n/a	n/a	>	16,000.0	3,568.7	=	220.0	56.3	=	68.9	25.7
SCRE-R005	12/17/2018		-	Dry	n/a	n/a	>	16,000.0	4,167.9	=	220.0	61.9	=	68.9	26.8
SCRE-R005	12/18/2018	◆	7:56	Dry	n/a	n/a	>	16,000.0	4,867.7	=	490.0	69.8	=	2.0	24.8
SCRE-R005	12/19/2018		-	Dry	n/a	n/a	>	16,000.0	5,685.1	=	490.0	78.8	=	2.0	23.0
SCRE-R005	12/20/2018		-	Dry	n/a	n/a	>	16,000.0	6,470.3	=	490.0	87.7	=	2.0	21.3
SCRE-R005	12/21/2018		-	Dry	n/a	n/a	>	16,000.0	7,363.9	=	490.0	97.5	=	2.0	19.7
SCRE-R005	12/22/2018		-	Dry	n/a	n/a	>	16,000.0	8,381.0	=	490.0	108.5	=	2.0	18.2
SCRE-R005	12/23/2018		-	Dry	n/a	n/a	>	16,000.0	9,538.5	=	490.0	120.7	=	2.0	16.8
SCRE-R005	12/24/2018		-	Dry	n/a	n/a	>	16,000.0	10,856.0	=	490.0	134.3	=	2.0	15.6
SCRE-R005	12/25/2018		-	Dry	n/a	n/a	>	16,000.0	12,355.4	=	490.0	149.4	=	2.0	14.4
SCRE-R005	12/26/2018	◆	9:57	Dry	n/a	n/a	=	9,200.0	13,804.8	=	310.0	163.7	=	16.2	14.3
SCRE-R005	12/27/2018			Dry	n/a	n/a	=	9,200.0	13,804.8	=	310.0	175.3	=	16.2	14.7
SCRE-R005	12/28/2018		-	Dry	n/a	n/a	=	9,200.0	13,804.8	=	310.0	187.7	=	16.2	15.1
SCRE-R005	12/29/2018		-	Dry	n/a	n/a	=	9,200.0	13,804.8	=	310.0	200.9	=	16.2	15.5
SCRE-R005	12/30/2018		-	Dry	n/a	n/a	=	9,200.0	13,804.8	=	310.0	215.1	=	16.2	16.0
SCRE-R005	12/31/2018		-	Dry	n/a	n/a	=	9,200.0	13,804.8	=	310.0	230.3	=	16.2	16.4
SCRE-R005	1/1/2019		-	Dry	n/a	n/a	=	9,200.0	13,804.8	=	310.0	246.6	=	16.2	16.9
SCRE-R005	1/2/2019	◆	9:57	Dry	n/a	n/a	=	1,700.0	13,049.3	=	20.0	240.9	=	9.7	17.1
SCRE-R005	1/3/2019		-	Dry	n/a	n/a	=	1,700.0	12,109.6	=	20.0	226.4	=	9.7	16.1
SCRE-R005	1/4/2019		-	Dry	n/a	n/a	=	1,700.0	11,237.6	=	20.0	212.7	=	9.7	15.2

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean	
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRE-R005	1/5/2019		-	Dry	n/a	n/a	=	1,700.0	10,428.4	=	20.0	199.8	=	9.7	14.3
SCRE-R005	1/6/2019		-	Dry	n/a	n/a	=	1,700.0	9,677.5	=	20.0	187.7	=	9.7	13.5
SCRE-R005	1/7/2019		-	Dry	n/a	n/a	=	1,700.0	8,980.7	=	20.0	176.4	=	9.7	12.7
SCRE-R005	1/8/2019	◆	9:05	Wet	n/a	n/a	>	16,000.0	8,980.7	=	3,500.0	196.8	=	1,553.1	14.2
SCRE-R005	1/9/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	=	3,500.0	219.7	=	1,553.1	15.9
SCRE-R005	1/10/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	=	3,500.0	240.9	=	1,553.1	17.6
SCRE-R005	1/11/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	=	3,500.0	264.2	=	1,553.1	19.6
SCRE-R005	1/12/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	=	3,500.0	289.7	=	1,553.1	21.7
SCRE-R005	1/13/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	=	3,500.0	317.7	=	1,553.1	24.1
SCRE-R005	1/14/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	=	3,500.0	348.4	=	1,553.1	26.7
SCRE-R005	1/15/2019	◆	8:10	Wet	n/a	n/a	>	16,000.0	8,980.7	>	16,000.0	401.9	>	2,419.2	30.1
SCRE-R005	1/16/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	>	16,000.0	463.6	>	2,419.2	33.9
SCRE-R005	1/17/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	>	16,000.0	520.7	>	2,419.2	42.9
SCRE-R005	1/18/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	>	16,000.0	584.9	>	2,419.2	54.4
SCRE-R005	1/19/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	>	16,000.0	656.9	>	2,419.2	68.9
SCRE-R005	1/20/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	>	16,000.0	737.9	>	2,419.2	87.3
SCRE-R005	1/21/2019		-	Wet	n/a	n/a	>	16,000.0	8,980.7	>	16,000.0	828.8	>	2,419.2	110.6
SCRE-R005	1/22/2019	◆	8:59	Dry	n/a	n/a	=	9,200.0	8,816.5	=	1,400.0	858.3	=	137.4	127.4
SCRE-R005	1/23/2019		-	Dry	n/a	n/a	=	9,200.0	8,655.4	=	1,400.0	888.9	=	137.4	146.6
SCRE-R005	1/24/2019		-	Dry	n/a	n/a	=	9,200.0	8,497.2	=	1,400.0	920.5	=	137.4	168.9
SCRE-R005	1/25/2019		-	Dry	n/a	n/a	=	9,200.0	8,497.2	=	1,400.0	968.0	=	137.4	181.3
SCRE-R005	1/26/2019		-	Dry	n/a	n/a	=	9,200.0	8,497.2	=	1,400.0	1,017.9	=	137.4	194.7
SCRE-R005	1/27/2019		-	Dry	n/a	n/a	=	9,200.0	8,497.2	=	1,400.0	1,070.3	=	137.4	209.1
SCRE-R005	1/28/2019		-	Dry	n/a	n/a	=	9,200.0	8,497.2	=	1,400.0	1,125.5	=	137.4	224.5
SCRE-R005	1/29/2019	◆	9:00	Dry	n/a	n/a	=	1,700.0	8,032.1	=	170.0	1,103.2	=	145.0	241.6
SCRE-R005	1/30/2019		-	Dry	n/a	n/a	=	1,700.0	7,592.5	=	170.0	1,081.3	=	145.0	259.9
SCRE-R005	1/31/2019		-	Dry	n/a	n/a	=	1,700.0	7,177.0	=	170.0	1,059.9	=	145.0	279.6
SCRE-R005	2/1/2019		-	Dry	n/a	n/a	=	1,700.0	7,177.0	=	170.0	1,138.3	=	145.0	305.9
SCRE-R005	2/2/2019		-	Dry	n/a	n/a	=	1,700.0	7,177.0	=	170.0	1,222.4	=	145.0	334.8
SCRE-R005	2/3/2019		-	Dry	n/a	n/a	=	1,700.0	7,177.0	=	170.0	1,312.8	=	145.0	366.4
SCRE-R005	2/4/2019		-	Dry	n/a	n/a	=	1,700.0	7,177.0	=	170.0	1,409.9	=	145.0	401.0
SCRE-R005	2/5/2019	◆	9:58	Wet	n/a	n/a	>	16,000.0	7,733.9	=	1,700.0	1,634.9	=	217.8	444.8
SCRE-R005	2/6/2019		-	Wet	n/a	n/a	>	16,000.0	8,334.0	=	1,700.0	1,895.9	=	217.8	493.4
SCRE-R005	2/7/2019		-	Wet	n/a	n/a	>	16,000.0	8,334.0	=	1,700.0	1,850.8	=	217.8	462.1
SCRE-R005	2/8/2019		-	Wet	n/a	n/a	>	16,000.0	8,334.0	=	1,700.0	1,806.8	=	217.8	432.8
SCRE-R005	2/9/2019		-	Wet	n/a	n/a	>	16,000.0	8,334.0	=	1,700.0	1,763.8	=	217.8	405.4
SCRE-R005	2/10/2019		-	Wet	n/a	n/a	>	16,000.0	8,334.0	=	1,700.0	1,721.8	=	217.8	379.7
SCRE-R005	2/11/2019		-	Wet	n/a	n/a	>	16,000.0	8,334.0	=	1,700.0	1,680.9	=	217.8	355.6
SCRE-R005	2/12/2019	◆	8:12	Wet	n/a	n/a	=	3,500.0	7,922.3	=	330.0	1,553.7	=	238.2	334.1
SCRE-R005	2/13/2019		-	Wet	n/a	n/a	=	3,500.0	7,530.9	=	330.0	1,436.0	=	238.2	313.8

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRE-R005	2/14/2019		-	Wet	n/a	n/a	=	3,500.0	7,158.9	=	330.0	1,261.8	=	238.2	290.5
SCRE-R005	2/15/2019		-	Wet	n/a	n/a	=	3,500.0	6,805.3	=	330.0	1,108.7	=	238.2	268.9
SCRE-R005	2/16/2019		-	Wet	n/a	n/a	=	3,500.0	6,469.1	=	330.0	974.1	=	238.2	248.9
SCRE-R005	2/17/2019		-	Wet	n/a	n/a	=	3,500.0	6,149.5	=	330.0	855.9	=	238.2	230.4
SCRE-R005	2/18/2019		-	Wet	n/a	n/a	=	3,500.0	5,845.8	=	330.0	752.0	=	238.2	213.3
SCRE-R005	2/19/2019	◆	8:10	Wet	n/a	n/a	=	16,000.0	5,845.8	=	210.0	650.9	=	178.9	195.5
SCRE-R005	2/20/2019		-	Wet	n/a	n/a	=	16,000.0	5,845.8	=	210.0	563.3	=	178.9	179.3
SCRE-R005	2/21/2019		-	Wet	n/a	n/a	=	16,000.0	5,954.6	=	210.0	528.8	=	178.9	180.9
SCRE-R005	2/22/2019		-	Wet	n/a	n/a	=	16,000.0	6,065.4	=	210.0	496.4	=	178.9	182.5
SCRE-R005	2/23/2019		-	Wet	n/a	n/a	=	16,000.0	6,178.4	=	210.0	466.0	=	178.9	184.1
SCRE-R005	2/24/2019		-	Wet	n/a	n/a	=	16,000.0	6,293.4	=	210.0	437.4	=	178.9	185.7
SCRE-R005	2/25/2019		-	Wet	n/a	n/a	=	16,000.0	6,410.6	=	210.0	410.6	=	178.9	187.3
SCRE-R005	2/26/2019	◆	8:29	Dry	n/a	n/a	=	5,400.0	6,297.7	=	120.0	378.3	=	135.4	187.2
SCRE-R005	2/27/2019		-	Dry	n/a	n/a	=	5,400.0	6,186.8	=	120.0	348.6	=	135.4	187.2
SCRE-R005	2/28/2019		-	Dry	n/a	n/a	=	5,400.0	6,429.9	=	120.0	344.6	=	135.4	186.7
SCRE-R005	3/1/2019		-	Dry	n/a	n/a	=	5,400.0	6,682.4	=	120.0	340.6	=	135.4	186.3
SCRE-R005	3/2/2019		-	Dry	n/a	n/a	=	5,400.0	6,944.9	=	120.0	336.7	=	135.4	185.9
SCRE-R005	3/3/2019		-	Dry	n/a	n/a	=	5,400.0	7,217.6	=	120.0	332.8	=	135.4	185.5
SCRE-R005	3/4/2019		-	Dry	n/a	n/a	=	5,400.0	7,501.1	=	120.0	328.9	=	135.4	185.0
SCRE-R005	3/5/2019	◆	11:00	Wet	n/a	n/a	=	9,200.0	7,935.5	=	1,300.0	352.0	=	435.2	191.9
SCRE-R005	3/6/2019		-	Wet	n/a	n/a	=	9,200.0	8,394.9	=	1,300.0	376.7	=	435.2	199.1
SCRE-R005	3/7/2019		-	Wet	n/a	n/a	=	9,200.0	8,241.5	=	1,300.0	373.4	=	435.2	203.7
SCRE-R005	3/8/2019		-	Wet	n/a	n/a	=	9,200.0	8,090.8	=	1,300.0	370.0	=	435.2	208.5
SCRE-R005	3/9/2019		-	Wet	n/a	n/a	=	9,200.0	7,943.0	=	1,300.0	366.7	=	435.2	213.4
SCRE-R005	3/10/2019		-	Wet	n/a	n/a	=	9,200.0	7,797.8	=	1,300.0	363.5	=	435.2	218.3
SCRE-R005	3/11/2019		-	Wet	n/a	n/a	=	9,200.0	7,655.3	=	1,300.0	360.2	=	435.2	223.4
SCRE-R005	3/12/2019	◆	9:02	Dry	n/a	n/a	=	3,500.0	7,277.1	=	140.0	331.5	=	275.5	225.2
SCRE-R005	3/13/2019		-	Dry	n/a	n/a	=	3,500.0	6,917.6	=	140.0	305.0	=	275.5	227.0
SCRE-R005	3/14/2019		-	Dry	n/a	n/a	=	3,500.0	6,917.6	=	140.0	296.4	=	275.5	228.1
SCRE-R005	3/15/2019		-	Dry	n/a	n/a	=	3,500.0	6,917.6	=	140.0	288.1	=	275.5	229.2
SCRE-R005	3/16/2019		-	Dry	n/a	n/a	=	3,500.0	6,917.6	=	140.0	279.9	=	275.5	230.3
SCRE-R005	3/17/2019		-	Dry	n/a	n/a	=	3,500.0	6,917.6	=	140.0	272.1	=	275.5	231.4
SCRE-R005	3/18/2019		-	Dry	n/a	n/a	=	3,500.0	6,917.6	=	140.0	264.4	=	275.5	232.5
SCRE-R005	3/19/2019	◆	9:56	Dry	n/a	n/a	=	9,200.0	7,144.1	=	270.0	262.6	=	75.9	223.8
SCRE-R005	3/20/2019		-	Dry	n/a	n/a	=	9,200.0	7,378.0	=	270.0	260.9	=	75.9	215.5
SCRE-R005	3/21/2019		-	Dry	n/a	n/a	=	9,200.0	7,243.2	=	270.0	263.1	=	75.9	209.4
SCRE-R005	3/22/2019		-	Dry	n/a	n/a	=	9,200.0	7,110.8	=	270.0	265.3	=	75.9	203.5
SCRE-R005	3/23/2019		-	Dry	n/a	n/a	=	9,200.0	6,980.8	=	270.0	267.5	=	75.9	197.8
SCRE-R005	3/24/2019		-	Dry	n/a	n/a	=	9,200.0	6,853.2	=	270.0	269.8	=	75.9	192.2
SCRE-R005	3/25/2019		-	Dry	n/a	n/a	=	9,200.0	6,728.0	=	270.0	272.0	=	75.9	186.8

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)
SCRE-R005	3/26/2019	◆ 9:52	Dry	n/a	n/a	=	1,100.0	6,153.6	=	460.0	279.2	=	70.3	181.1
SCRE-R005	3/27/2019		Dry	n/a	n/a	=	1,100.0	5,628.2	=	460.0	286.6	=	70.3	175.5
SCRE-R005	3/28/2019	-	Dry	n/a	n/a	=	1,100.0	5,337.5	=	460.0	299.8	=	70.3	171.7
SCRE-R005	3/29/2019	-	Dry	n/a	n/a	=	1,100.0	5,061.8	=	460.0	313.5	=	70.3	168.0
SCRE-R005	3/30/2019	-	Dry	n/a	n/a	=	1,100.0	4,800.3	=	460.0	327.9	=	70.3	164.4
SCRE-R005	3/31/2019	-	Dry	n/a	n/a	=	1,100.0	4,552.3	=	460.0	342.9	=	70.3	160.8
SCRE-R005	4/1/2019	-	Dry	n/a	n/a	=	1,100.0	4,317.2	=	460.0	358.6	=	70.3	157.3
SCRE-R005	4/2/2019	◆ 9:43	Dry	n/a	n/a	=	9,200.0	4,394.6	=	490.0	375.8	=	133.4	157.3
SCRE-R005	4/3/2019	-	Dry	n/a	n/a	=	9,200.0	4,473.3	=	490.0	393.8	=	133.4	157.2
SCRE-R005	4/4/2019	-	Dry	n/a	n/a	=	9,200.0	4,473.3	=	490.0	381.2	=	133.4	151.1
SCRE-R005	4/5/2019	-	Dry	n/a	n/a	=	9,200.0	4,473.3	=	490.0	369.0	=	133.4	145.3
SCRE-R005	4/6/2019	-	Dry	n/a	n/a	=	9,200.0	4,473.3	=	490.0	357.2	=	133.4	139.7
SCRE-R005	4/7/2019	-	Dry	n/a	n/a	=	9,200.0	4,473.3	=	490.0	345.8	=	133.4	134.3
SCRE-R005	4/8/2019	-	Dry	n/a	n/a	=	9,200.0	4,473.3	=	490.0	334.7	=	133.4	129.1
SCRE-R005	4/9/2019	◆ 10:09	Dry	n/a	n/a	=	700.0	4,105.2	=	20.0	291.3	=	29.9	118.0
SCRE-R005	4/10/2019	-	Dry	n/a	n/a	=	700.0	3,767.5	=	20.0	253.4	=	29.9	108.0
SCRE-R005	4/11/2019	-	Dry	n/a	n/a	=	700.0	3,570.7	=	20.0	237.5	=	29.9	100.3
SCRE-R005	4/12/2019	-	Dry	n/a	n/a	=	700.0	3,384.2	=	20.0	222.6	=	29.9	93.1
SCRE-R005	4/13/2019	-	Dry	n/a	n/a	=	700.0	3,207.4	=	20.0	208.6	=	29.9	86.5
SCRE-R005	4/14/2019	-	Dry	n/a	n/a	=	700.0	3,039.9	=	20.0	195.5	=	29.9	80.3
SCRE-R005	4/15/2019	-	Dry	n/a	n/a	=	700.0	2,881.1	=	20.0	183.2	=	29.9	74.6
SCRE-R005	4/16/2019	◆ 10:30	Dry	n/a	n/a	=	1,400.0	2,794.4	=	49.0	176.9	=	167.4	73.3
SCRE-R005	4/17/2019	-	Dry	n/a	n/a	=	1,400.0	2,710.3	=	49.0	170.8	=	167.4	72.1
SCRE-R005	4/18/2019	-	Dry	n/a	n/a	=	1,400.0	2,545.5	=	49.0	161.4	=	167.4	74.1
SCRE-R005	4/19/2019	-	Dry	n/a	n/a	=	1,400.0	2,390.6	=	49.0	152.5	=	167.4	76.0
SCRE-R005	4/20/2019	-	Dry	n/a	n/a	=	1,400.0	2,245.2	=	49.0	144.0	=	167.4	78.1
SCRE-R005	4/21/2019	-	Dry	n/a	n/a	=	1,400.0	2,108.6	=	49.0	136.1	=	167.4	80.2
SCRE-R005	4/22/2019	-	Dry	n/a	n/a	=	1,400.0	1,980.4	=	49.0	128.5	=	167.4	82.3
SCRE-R005	4/23/2019	◆ 10:17	Dry	n/a	n/a	=	1,700.0	1,872.0	=	310.0	129.1	=	137.4	83.9
SCRE-R005	4/24/2019	-	Dry	n/a	n/a	=	1,700.0	1,769.5	=	310.0	129.7	=	137.4	85.6
SCRE-R005	4/25/2019	-	Dry	n/a	n/a	=	1,700.0	1,795.4	=	310.0	128.0	=	137.4	87.6
SCRE-R005	4/26/2019	-	Dry	n/a	n/a	=	1,700.0	1,821.6	=	310.0	126.4	=	137.4	89.5
SCRE-R005	4/27/2019	-	Dry	n/a	n/a	=	1,700.0	1,848.3	=	310.0	124.7	=	137.4	91.6
SCRE-R005	4/28/2019	-	Dry	n/a	n/a	=	1,700.0	1,875.3	=	310.0	123.1	=	137.4	93.6
SCRE-R005	4/29/2019	-	Dry	n/a	n/a	=	1,700.0	1,902.7	=	310.0	121.5	=	137.4	95.7
SCRE-R005	4/30/2019	◆ 13:15	Dry	n/a	n/a	>	16,000.0	2,080.3	=	2,800.0	129.0	=	68.1	95.6
SCRE-R005	5/1/2019		Dry	n/a	n/a	>	16,000.0	2,274.5	=	2,800.0	137.0	=	68.1	95.5
SCRE-R005	5/2/2019		Dry	n/a	n/a	>	16,000.0	2,316.8	=	2,800.0	145.2	=	68.1	93.4
SCRE-R005	5/3/2019		Dry	n/a	n/a	>	16,000.0	2,360.0	=	2,800.0	153.9	=	68.1	91.3
SCRE-R005	5/4/2019		Dry	n/a	n/a	>	16,000.0	2,403.9	=	2,800.0	163.1	=	68.1	89.3

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)
SCRE-R005	5/5/2019		Dry	n/a	n/a	>	16,000.0	2,448.7	=	2,800.0	172.9	=	68.1	87.3
SCRE-R005	5/6/2019		Dry	n/a	n/a	>	16,000.0	2,494.2	=	2,800.0	183.2	=	68.1	85.4
SCRE-R005	5/7/2019	◆ 10:10	Dry	n/a	n/a	=	2,400.0	2,385.0	=	120.0	174.8	=	46.1	82.4
SCRE-R005	5/8/2019	-	Dry	n/a	n/a	=	2,400.0	2,280.5	=	120.0	166.8	=	46.1	79.6
SCRE-R005	5/9/2019	-	Dry	n/a	n/a	=	2,400.0	2,376.1	=	120.0	177.1	=	46.1	80.7
SCRE-R005	5/10/2019	-	Dry	n/a	n/a	=	2,400.0	2,475.8	=	120.0	188.0	=	46.1	81.9
SCRE-R005	5/11/2019	-	Dry	n/a	n/a	=	2,400.0	2,579.6	=	120.0	199.5	=	46.1	83.1
SCRE-R005	5/12/2019	-	Dry	n/a	n/a	=	2,400.0	2,687.7	=	120.0	211.8	=	46.1	84.3
SCRE-R005	5/13/2019	-	Dry	n/a	n/a	=	2,400.0	2,800.4	=	120.0	224.9	=	46.1	85.5
SCRE-R005	5/14/2019	◆ 9:33	Dry	n/a	n/a	=	2,400.0	2,917.8	=	2,400.0	263.8	=	178.9	90.8
SCRE-R005	5/15/2019	-	Dry	n/a	n/a	=	2,400.0	3,040.1	=	2,400.0	309.4	=	178.9	96.3
SCRE-R005	5/16/2019	-	Dry	n/a	n/a	=	2,400.0	3,095.2	=	2,400.0	352.3	=	178.9	96.6
SCRE-R005	5/17/2019	-	Dry	n/a	n/a	=	2,400.0	3,151.4	=	2,400.0	401.0	=	178.9	96.8
SCRE-R005	5/18/2019	-	Dry	n/a	n/a	=	2,400.0	3,208.5	=	2,400.0	456.6	=	178.9	97.0
SCRE-R005	5/19/2019	-	Dry	n/a	n/a	=	2,400.0	3,266.7	=	2,400.0	519.8	=	178.9	97.2
SCRE-R005	5/20/2019	-	Dry	n/a	n/a	=	2,400.0	3,325.9	=	2,400.0	591.8	=	178.9	97.4
SCRE-R005	5/21/2019	◆ 9:37	Wet	n/a	n/a	=	2,400.0	3,386.2	=	330.0	630.7	=	235.9	98.5
SCRE-R005	5/22/2019	-	Wet	n/a	n/a	=	2,400.0	3,447.6	=	330.0	672.1	=	235.9	99.7
SCRE-R005	5/23/2019	-	Wet	n/a	n/a	=	2,400.0	3,487.4	=	330.0	673.5	=	235.9	101.5
SCRE-R005	5/24/2019	-	Wet	n/a	n/a	=	2,400.0	3,527.7	=	330.0	674.9	=	235.9	103.3
SCRE-R005	5/25/2019	-	Wet	n/a	n/a	=	2,400.0	3,568.5	=	330.0	676.3	=	235.9	105.2
SCRE-R005	5/26/2019	-	Wet	n/a	n/a	=	2,400.0	3,609.8	=	330.0	677.7	=	235.9	107.1
SCRE-R005	5/27/2019	-	Wet	n/a	n/a	=	2,400.0	3,651.5	=	330.0	679.1	=	235.9	109.1
SCRE-R005	5/28/2019	◆ 8:40	Dry	n/a	n/a	=	9,200.0	3,862.9	=	5,400.0	747.0	=	365.4	112.7
SCRE-R005	5/29/2019	-	Dry	n/a	n/a	=	9,200.0	4,086.6	=	5,400.0	821.6	=	365.4	116.4
SCRE-R005	5/30/2019	-	Dry	n/a	n/a	=	9,200.0	4,011.9	=	5,400.0	839.8	=	365.4	123.1
SCRE-R005	5/31/2019	-	Dry	n/a	n/a	=	9,200.0	3,938.6	=	5,400.0	858.4	=	365.4	130.2
SCRE-R005	6/1/2019	-	Dry	n/a	n/a	=	9,200.0	3,866.6	=	5,400.0	877.4	=	365.4	137.7
SCRE-R005	6/2/2019	-	Dry	n/a	n/a	=	9,200.0	3,795.9	=	5,400.0	896.8	=	365.4	145.7
SCRE-R005	6/3/2019	-	Dry	n/a	n/a	=	9,200.0	3,726.5	=	5,400.0	916.7	=	365.4	154.0
SCRE-R005	6/4/2019	◆ 9:15	Dry	n/a	n/a	=	16,000.0	3,726.5	=	9,200.0	953.8	=	1,986.3	172.4
SCRE-R005	6/5/2019	-	Dry	n/a	n/a	=	16,000.0	3,726.5	=	9,200.0	992.3	=	1,986.3	192.9
SCRE-R005	6/6/2019	-	Dry	n/a	n/a	=	16,000.0	3,969.8	=	9,200.0	1,146.8	=	1,986.3	218.7
SCRE-R005	6/7/2019	-	Dry	n/a	n/a	=	16,000.0	4,229.0	=	9,200.0	1,325.2	=	1,986.3	247.9
SCRE-R005	6/8/2019	-	Dry	n/a	n/a	=	16,000.0	4,505.0	=	9,200.0	1,531.5	=	1,986.3	281.0
SCRE-R005	6/9/2019	-	Dry	n/a	n/a	=	16,000.0	4,799.1	=	9,200.0	1,769.9	=	1,986.3	318.6
SCRE-R005	6/10/2019	-	Dry	n/a	n/a	=	16,000.0	5,112.4	=	9,200.0	2,045.3	=	1,986.3	361.1
SCRE-R005	6/11/2019	◆ 8:25	Dry	n/a	n/a	=	2,400.0	5,112.4	=	330.0	2,115.4	=	547.5	392.2
SCRE-R005	6/12/2019	-	Dry	n/a	n/a	=	2,400.0	5,112.4	=	330.0	2,188.0	=	547.5	425.9
SCRE-R005	6/13/2019	-	Dry	n/a	n/a	=	2,400.0	5,112.4	=	330.0	2,048.0	=	547.5	442.1

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)
SCRE-R005	6/14/2019		-	Dry	n/a	=	2,400.0	5,112.4	=	330.0	1,916.9	=	547.5	458.9
SCRE-R005	6/15/2019		-	Dry	n/a	=	2,400.0	5,112.4	=	330.0	1,794.2	=	547.5	476.3
SCRE-R005	6/16/2019		-	Dry	n/a	=	2,400.0	5,112.4	=	330.0	1,679.4	=	547.5	494.4
SCRE-R005	6/17/2019		-	Dry	n/a	=	2,400.0	5,112.4	=	330.0	1,571.9	=	547.5	513.2
SCRE-R005	6/18/2019	◆	9:20	Dry	n/a	=	9,200.0	5,346.6	=	410.0	1,482.0	=	275.5	520.6
SCRE-R005	6/19/2019		-	Dry	n/a	=	9,200.0	5,591.5	=	410.0	1,397.2	=	275.5	528.2
SCRE-R005	6/20/2019		-	Dry	n/a	=	9,200.0	5,847.7	=	410.0	1,407.4	=	275.5	530.9
SCRE-R005	6/21/2019		-	Dry	n/a	=	9,200.0	6,115.5	=	410.0	1,417.6	=	275.5	533.7
SCRE-R005	6/22/2019		-	Dry	n/a	=	9,200.0	6,395.7	=	410.0	1,427.9	=	275.5	536.5
SCRE-R005	6/23/2019		-	Dry	n/a	=	9,200.0	6,688.7	=	410.0	1,438.3	=	275.5	539.2
SCRE-R005	6/24/2019		-	Dry	n/a	=	9,200.0	6,995.1	=	410.0	1,448.7	=	275.5	542.0
SCRE-R005	6/25/2019	◆	9:20	Dry	n/a	=	790.0	6,740.7	=	18.0	1,314.8	=	613.1	559.6
SCRE-R005	6/26/2019		-	Dry	n/a	=	790.0	6,495.6	=	18.0	1,193.3	=	613.1	577.7
SCRE-R005	6/27/2019		-	Dry	n/a	=	790.0	5,985.2	=	18.0	986.7	=	613.1	587.7
SCRE-R005	6/28/2019		-	Dry	n/a	=	790.0	5,515.0	=	18.0	815.9	=	613.1	597.9
SCRE-R005	6/29/2019		-	Dry	n/a	=	790.0	5,081.6	=	18.0	674.6	=	613.1	608.3
SCRE-R005	6/30/2019		-	Dry	n/a	=	790.0	4,682.4	=	18.0	557.8	=	613.1	618.9
SCRE-R005	7/1/2019		-	Dry	n/a	=	790.0	4,314.5	=	18.0	461.2	=	613.1	629.7
SCRE-R005	7/2/2019	◆	9:10	Dry	n/a	=	16,000.0	4,394.8	=	20.0	382.7	=	517.0	637.0
SCRE-R005	7/3/2019		-	Dry	n/a	=	16,000.0	4,476.6	=	20.0	317.6	=	517.0	644.4
SCRE-R005	7/4/2019		-	Dry	n/a	=	16,000.0	4,476.6	=	20.0	258.9	=	517.0	616.2
SCRE-R005	7/5/2019		-	Dry	n/a	=	16,000.0	4,476.6	=	20.0	211.0	=	517.0	589.1
SCRE-R005	7/6/2019		-	Dry	n/a	=	16,000.0	4,476.6	=	20.0	172.0	=	517.0	563.3
SCRE-R005	7/7/2019		-	Dry	n/a	=	16,000.0	4,476.6	=	20.0	140.2	=	517.0	538.6
SCRE-R005	7/8/2019		-	Dry	n/a	=	16,000.0	4,476.6	=	20.0	114.3	=	517.0	514.9
SCRE-R005	7/9/2019	◆	8:25	Dry	n/a	>	16,000.0	4,476.6	=	9,200.0	114.3	>	2,419.0	518.3
SCRE-R005	7/10/2019		-	Dry	n/a	>	16,000.0	4,476.6	=	9,200.0	114.3	>	2,419.0	521.8
SCRE-R005	7/11/2019		-	Dry	n/a	>	16,000.0	4,768.8	=	9,200.0	127.7	>	2,419.0	548.2
SCRE-R005	7/12/2019		-	Dry	n/a	>	16,000.0	5,080.1	=	9,200.0	142.7	>	2,419.0	576.1
SCRE-R005	7/13/2019		-	Dry	n/a	>	16,000.0	5,411.8	=	9,200.0	159.4	>	2,419.0	605.3
SCRE-R005	7/14/2019		-	Dry	n/a	>	16,000.0	5,765.1	=	9,200.0	178.1	>	2,419.0	636.1
SCRE-R005	7/15/2019		-	Dry	n/a	>	16,000.0	6,141.4	=	9,200.0	199.0	>	2,419.0	668.4
SCRE-R005	7/16/2019	◆	9:05	Dry	n/a	=	790.0	5,918.1	=	45.0	186.2	=	158.0	641.2
SCRE-R005	7/17/2019		-	Dry	n/a	=	790.0	5,702.9	=	45.0	174.3	=	158.0	615.2
SCRE-R005	7/18/2019		-	Dry	n/a	=	790.0	5,254.8	=	45.0	161.9	=	158.0	603.9
SCRE-R005	7/19/2019		-	Dry	n/a	=	790.0	4,841.9	=	45.0	150.4	=	158.0	592.8
SCRE-R005	7/20/2019		-	Dry	n/a	=	790.0	4,461.5	=	45.0	139.7	=	158.0	581.9
SCRE-R005	7/21/2019		-	Dry	n/a	=	790.0	4,110.9	=	45.0	129.8	=	158.0	571.3
SCRE-R005	7/22/2019		-	Dry	n/a	=	790.0	3,787.9	=	45.0	120.6	=	158.0	560.8
SCRE-R005	7/23/2019	◆	8:23	Dry	n/a	=	9,200.0	3,787.9	=	130.0	116.1	=	59.0	532.7

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)
SCRE-R005	7/24/2019		-	Dry	n/a	=	9,200.0	3,787.9	=	130.0	111.7	=	59.0	506.0
SCRE-R005	7/25/2019		-	Dry	n/a	=	9,200.0	4,110.9	=	130.0	119.3	=	59.0	468.0
SCRE-R005	7/26/2019		-	Dry	n/a	=	9,200.0	4,461.5	=	130.0	127.4	=	59.0	432.9
SCRE-R005	7/27/2019		-	Dry	n/a	=	9,200.0	4,841.9	=	130.0	136.1	=	59.0	400.4
SCRE-R005	7/28/2019		-	Dry	n/a	=	9,200.0	5,254.8	=	130.0	145.4	=	59.0	370.3
SCRE-R005	7/29/2019		-	Dry	n/a	=	9,200.0	5,702.9	=	130.0	155.3	=	59.0	342.5
SCRE-R005	7/30/2019	◆	8:33	Dry	n/a	=	3,500.0	5,993.0	=	20.0	155.8	=	15.0	302.7
SCRE-R005	7/31/2019		-	Dry	n/a	=	3,500.0	6,297.8	=	20.0	156.4	=	15.0	267.5
SCRE-R005	8/1/2019		-	Dry	n/a	=	3,500.0	5,986.7	=	20.0	156.4	=	15.0	237.7
SCRE-R005	8/2/2019		-	Dry	n/a	=	3,500.0	5,691.0	=	20.0	156.4	=	15.0	211.2
SCRE-R005	8/3/2019		-	Dry	n/a	=	3,500.0	5,409.9	=	20.0	156.4	=	15.0	187.7
SCRE-R005	8/4/2019		-	Dry	n/a	=	3,500.0	5,142.6	=	20.0	156.4	=	15.0	166.8
SCRE-R005	8/5/2019		-	Dry	n/a	=	3,500.0	4,888.6	=	20.0	156.4	=	15.0	148.3
SCRE-R005	8/6/2019	◆	9:15	Dry	n/a	=	1,100.0	4,471.2	<	18.0	155.8	=	105.8	140.6
SCRE-R005	8/7/2019		-	Dry	n/a	=	1,100.0	4,089.5	<	18.0	155.3	=	105.8	133.4
SCRE-R005	8/8/2019		-	Dry	n/a	=	1,100.0	3,740.3	<	18.0	126.1	=	105.8	120.2
SCRE-R005	8/9/2019		-	Dry	n/a	=	1,100.0	3,421.0	<	18.0	102.5	=	105.8	108.3
SCRE-R005	8/10/2019		-	Dry	n/a	=	1,100.0	3,128.9	<	18.0	83.2	=	105.8	97.5
SCRE-R005	8/11/2019		-	Dry	n/a	=	1,100.0	2,861.8	<	18.0	67.6	=	105.8	87.9
SCRE-R005	8/12/2019		-	Dry	n/a	=	1,100.0	2,617.5	<	18.0	54.9	=	105.8	79.2
SCRE-R005	8/13/2019	◆	8:06	Dry	n/a	=	330.0	2,299.8	=	20.0	44.8	>	2,419.2	79.2
SCRE-R005	8/14/2019		-	Dry	n/a	=	330.0	2,020.7	=	20.0	36.5	>	2,419.2	79.2
SCRE-R005	8/15/2019		-	Dry	n/a	=	330.0	1,962.8	=	20.0	35.5	>	2,419.2	86.7
SCRE-R005	8/16/2019		-	Dry	n/a	=	330.0	1,906.5	=	20.0	34.6	>	2,419.2	95.0
SCRE-R005	8/17/2019		-	Dry	n/a	=	330.0	1,851.8	=	20.0	33.7	>	2,419.2	104.0
SCRE-R005	8/18/2019		-	Dry	n/a	=	330.0	1,798.7	=	20.0	32.8	>	2,419.2	113.9
SCRE-R005	8/19/2019		-	Dry	n/a	=	330.0	1,747.1	=	20.0	31.9	>	2,419.2	124.8
SCRE-R005	8/20/2019	◆	8:37	Dry	n/a	=	3,500.0	1,836.0	=	45.0	31.9	=	325.6	127.8
SCRE-R005	8/21/2019		-	Dry	n/a	=	3,500.0	1,929.4	=	45.0	31.9	=	325.6	130.9
SCRE-R005	8/22/2019		-	Dry	n/a	=	3,500.0	1,868.2	=	45.0	30.8	=	325.6	138.6
SCRE-R005	8/23/2019		-	Dry	n/a	=	3,500.0	1,809.0	=	45.0	29.7	=	325.6	146.7
SCRE-R005	8/24/2019		-	Dry	n/a	=	3,500.0	1,751.6	=	45.0	28.7	=	325.6	155.3
SCRE-R005	8/25/2019		-	Dry	n/a	=	3,500.0	1,696.1	=	45.0	27.7	=	325.6	164.4
SCRE-R005	8/26/2019		-	Dry	n/a	=	3,500.0	1,642.3	=	45.0	26.7	=	325.6	174.1
SCRE-R005	8/27/2019	◆	8:49	Dry	n/a	=	1,700.0	1,552.5	=	93.0	26.4	=	435.2	186.0
SCRE-R005	8/28/2019		-	Dry	n/a	=	1,700.0	1,467.5	=	93.0	26.1	=	435.2	198.9
SCRE-R005	8/29/2019		-	Dry	n/a	=	1,700.0	1,432.6	=	93.0	27.5	=	435.2	222.5
SCRE-R005	8/30/2019		-	Dry	n/a	=	1,700.0	1,398.5	=	93.0	28.9	=	435.2	248.9
SCRE-R005	8/31/2019		-	Dry	n/a	=	1,700.0	1,365.2	=	93.0	30.5	=	435.2	278.5
SCRE-R005	9/1/2019		-	Dry	n/a	=	1,700.0	1,332.8	=	93.0	32.1	=	435.2	311.6

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean	
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRE-R005	9/2/2019		-	Dry	n/a	n/a	=	1,700.0	1,301.1	=	93.0	33.7	=	435.2	348.6
SCRE-R005	9/3/2019	◆	9:40	Dry	n/a	n/a	=	5,400.0	1,320.0	=	260.0	36.8	>	2,419.2	412.9
SCRE-R005	9/4/2019		-	Dry	n/a	n/a	=	5,400.0	1,339.2	=	260.0	40.0	>	2,419.2	489.2
SCRE-R005	9/5/2019		-	Dry	n/a	n/a	=	5,400.0	1,412.2	=	260.0	43.8	>	2,419.2	543.0
SCRE-R005	9/6/2019		-	Dry	n/a	n/a	=	5,400.0	1,489.1	=	260.0	47.8	>	2,419.2	602.7
SCRE-R005	9/7/2019		-	Dry	n/a	n/a	=	5,400.0	1,570.2	=	260.0	52.3	>	2,419.2	668.9
SCRE-R005	9/8/2019		-	Dry	n/a	n/a	=	5,400.0	1,655.7	=	260.0	57.2	>	2,419.2	742.5
SCRE-R005	9/9/2019		-	Dry	n/a	n/a	=	5,400.0	1,745.9	=	260.0	62.5	>	2,419.2	824.1
SCRE-R005	9/10/2019	◆	8:18	Dry	n/a	n/a	=	3,500.0	1,814.6	<	18.0	62.5	>	2,419.2	914.8
SCRE-R005	9/11/2019		-	Dry	n/a	n/a	=	3,500.0	1,886.0	<	18.0	62.5	>	2,419.2	1,015.3
SCRE-R005	9/12/2019		-	Dry	n/a	n/a	=	3,500.0	2,040.4	<	18.0	62.3	>	2,419.2	1,015.3
SCRE-R005	9/13/2019		-	Dry	n/a	n/a	=	3,500.0	2,207.5	<	18.0	62.1	>	2,419.2	1,015.3
SCRE-R005	9/14/2019		-	Dry	n/a	n/a	=	3,500.0	2,388.3	<	18.0	61.8	>	2,419.2	1,015.3
SCRE-R005	9/15/2019		-	Dry	n/a	n/a	=	3,500.0	2,583.9	<	18.0	61.6	>	2,419.2	1,015.3
SCRE-R005	9/16/2019		-	Dry	n/a	n/a	=	3,500.0	2,795.5	<	18.0	61.4	>	2,419.2	1,015.3
SCRE-R005	9/17/2019	◆	8:06	Dry	n/a	n/a	=	4,300.0	3,045.3	=	20.0	61.4	=	194.7	933.5
SCRE-R005	9/18/2019		-	Dry	n/a	n/a	=	4,300.0	3,317.4	=	20.0	61.4	=	194.7	858.3
SCRE-R005	9/19/2019		-	Dry	n/a	n/a	=	4,300.0	3,340.2	=	20.0	59.8	=	194.7	843.8
SCRE-R005	9/20/2019		-	Dry	n/a	n/a	=	4,300.0	3,363.2	=	20.0	58.2	=	194.7	829.4
SCRE-R005	9/21/2019		-	Dry	n/a	n/a	=	4,300.0	3,386.4	=	20.0	56.6	=	194.7	815.3
SCRE-R005	9/22/2019		-	Dry	n/a	n/a	=	4,300.0	3,409.7	=	20.0	55.1	=	194.7	801.5
SCRE-R005	9/23/2019		-	Dry	n/a	n/a	=	4,300.0	3,433.2	=	20.0	53.6	=	194.7	787.8
SCRE-R005	9/24/2019	◆	9:20	Dry	n/a	n/a	>	16,000.0	3,611.6	=	130.0	55.6	>	2,419.2	842.3
SCRE-R005	9/25/2019		-	Dry	n/a	n/a	>	16,000.0	3,799.2	=	130.0	57.6	>	2,419.2	900.5
SCRE-R005	9/26/2019		-	Dry	n/a	n/a	>	16,000.0	4,094.0	=	130.0	58.2	>	2,419.2	953.5
SCRE-R005	9/27/2019		-	Dry	n/a	n/a	>	16,000.0	4,411.7	=	130.0	58.9	>	2,419.2	1,009.6
SCRE-R005	9/28/2019		-	Dry	n/a	n/a	>	16,000.0	4,754.0	=	130.0	59.5	>	2,419.2	1,069.1
SCRE-R005	9/29/2019		-	Dry	n/a	n/a	>	16,000.0	5,122.9	=	130.0	60.2	>	2,419.2	1,132.0
SCRE-R005	9/30/2019		-	Dry	n/a	n/a	>	16,000.0	5,520.5	=	130.0	60.9	>	2,419.2	1,198.6
SCRE-R005	10/1/2019	◆	9:05	Dry	n/a	n/a	=	16,000.0	5,948.8	=	78.0	60.5	=	128.1	1,150.7
SCRE-R005	10/2/2019		-	Dry	n/a	n/a	=	16,000.0	6,410.4	=	78.0	60.2	=	128.1	1,104.7
SCRE-R005	10/3/2019		-	Dry	n/a	n/a	=	16,000.0	6,646.8	=	78.0	57.8	=	128.1	1,001.7
SCRE-R005	10/4/2019		-	Dry	n/a	n/a	=	16,000.0	6,891.8	=	78.0	55.5	=	128.1	908.2
SCRE-R005	10/5/2019		-	Dry	n/a	n/a	=	16,000.0	7,145.9	=	78.0	53.3	=	128.1	823.5
SCRE-R005	10/6/2019		-	Dry	n/a	n/a	=	16,000.0	7,409.4	=	78.0	51.2	=	128.1	746.6
SCRE-R005	10/7/2019		-	Dry	n/a	n/a	=	16,000.0	7,682.6	=	78.0	49.2	=	128.1	677.0
SCRE-R005	10/8/2019	◆	9:50	Dry	n/a	n/a	=	940.0	7,247.7	<	18.0	45.0	=	128.1	613.8
SCRE-R005	10/9/2019		-	Dry	n/a	n/a	=	940.0	6,837.4	<	18.0	41.2	=	128.1	556.5
SCRE-R005	10/10/2019		-	Dry	n/a	n/a	=	940.0	6,544.2	<	18.0	41.2	=	128.1	504.6
SCRE-R005	10/11/2019		-	Dry	n/a	n/a	=	940.0	6,263.6	<	18.0	41.2	=	128.1	457.5

Table 2.
Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	<	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)
SCRE-R005	10/12/2019		-	Dry	n/a	=	940.0	5,995.1	<	18.0	41.2	=	128.1	414.8
SCRE-R005	10/13/2019		-	Dry	n/a	=	940.0	5,738.1	<	18.0	41.2	=	128.1	376.1
SCRE-R005	10/14/2019		-	Dry	n/a	=	940.0	5,492.0	<	18.0	41.2	=	128.1	341.0
SCRE-R005	10/15/2019	◆ 11:20	-	Dry	n/a	=	9,200.0	5,671.8	<	18.0	41.2	=	75.2	303.8
SCRE-R005	10/16/2019		-	Dry	n/a	=	9,200.0	5,857.5	<	18.0	41.2	=	75.2	270.6
SCRE-R005	10/17/2019		-	Dry	n/a	=	9,200.0	6,007.9	<	18.0	41.1	=	75.2	262.1
SCRE-R005	10/18/2019		-	Dry	n/a	=	9,200.0	6,162.2	<	18.0	40.9	=	75.2	254.0
SCRE-R005	10/19/2019		-	Dry	n/a	=	9,200.0	6,320.4	<	18.0	40.8	=	75.2	246.0
SCRE-R005	10/20/2019		-	Dry	n/a	=	9,200.0	6,482.7	<	18.0	40.6	=	75.2	238.4
SCRE-R005	10/21/2019		-	Dry	n/a	=	9,200.0	6,649.2	<	18.0	40.5	=	75.2	230.9
SCRE-R005	10/22/2019	◆ 9:08	-	Dry	n/a	=	1,200.0	6,372.2	<	18.0	40.3	=	204.6	231.3
SCRE-R005	10/23/2019		-	Dry	n/a	=	1,200.0	6,106.8	<	18.0	40.2	=	204.6	231.7
SCRE-R005	10/24/2019		-	Dry	n/a	=	1,200.0	5,601.7	<	18.0	37.6	=	204.6	213.4
SCRE-R005	10/25/2019		-	Dry	n/a	=	1,200.0	5,138.3	<	18.0	35.2	=	204.6	196.5
SCRE-R005	10/26/2019		-	Dry	n/a	=	1,200.0	4,713.3	<	18.0	33.0	=	204.6	181.0
SCRE-R005	10/27/2019		-	Dry	n/a	=	1,200.0	4,323.4	<	18.0	30.9	=	204.6	166.7
SCRE-R005	10/28/2019		-	Dry	n/a	=	1,200.0	3,965.7	<	18.0	28.9	=	204.6	153.5
SCRE-R005	10/29/2019	◆ 9:45	-	Dry	n/a	=	16,000.0	3,965.7	<	130.0	28.9	=	517.2	145.8
SCRE-R005	10/30/2019		-	Dry	n/a	=	16,000.0	3,965.7	<	130.0	28.9	=	517.2	138.5
SCRE-R005	10/31/2019		-	Dry	n/a	=	16,000.0	3,965.7	<	130.0	29.4	=	517.2	145.1
SCRE-R005	11/1/2019		-	Dry	n/a	=	16,000.0	3,965.7	<	130.0	29.9	=	517.2	152.0
SCRE-R005	11/2/2019		-	Dry	n/a	=	16,000.0	3,965.7	<	130.0	30.4	=	517.2	159.2
SCRE-R005	11/3/2019		-	Dry	n/a	=	16,000.0	3,965.7	<	130.0	31.0	=	517.2	166.8
SCRE-R005	11/4/2019		-	Dry	n/a	=	16,000.0	3,965.7	<	130.0	31.5	=	517.2	174.8

Notes:

◆ Date of Sampling

Weeks with alternating wet weather samples (collected 72 hours after a day with >0.1" rainfall) and dry weather samples, previous 30 days of either wet weather samples or dry weather samples were used to calculate daily geomean.

Rain gages H245 – Wilson Ranch and H066 – Ventura City Hall for Reach 3 and the Estuary, respectively. Data can be found at <http://www.vcwatershed.net/fws/gmap.html>.

To meet the prescribed dry weather geometric mean frequency, statistics were calculated for dry events at SCRR3-RW1 by assigning a concentration value of 0.01 colony-forming unit (CFU) (rather than 0.0 CFU) when the site was not flowing. A zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation.

MPN - most probably number > - greater than

TMDL - Total Maximum Daily Load < - less than

E.coli - Escherichia coli = - equal to

n/a - not applicable to site