

## Planned Updates to Santa Ana River Bacteria Monitoring Program Monitoring Plan and Quality Assurance Project Plan (QAPP)

- Update QAPP signature page with current staff
- Correct TMDL wet weather site list: Change WW-M5 to WW-M6
- Correct genetic marker from *Catelliboccus* to *Heliobacter* for bird assay and update reference for *Bacteroides thetaiotamicron* in QAPP
- Update Priority 1 Lytle Creek site from North Fork to Middle Fork
- Correct GPS coordinates for three sites: San Diego Creek Reach 2 (P3-OC9), Serrano Creek (P3-OC11), and Lake Elsinore (P1-2)
- Relocate Priority 4 Temescal Creek site from Main Street to Lincoln Avenue
- Add clarifying text for access to Priority 4 Greenville Banning site (P4-OC3)
  - ‘The monitoring site is located at an access ramp at the trash boom downstream from the rubber diversion dam’. It is unsafe to trudge through the channel 60 meters – the mud is very deep, and it is difficult to walk far downstream without stirring up the mud.
- Add text regarding access during wet weather monitoring at WW-M6 and WW-C3
  - WW-M6: During wet weather, dirt road is flooded in some areas and areas off the main road are saturated/muddy causing 4WD vehicles to get stuck. Stay to the main road. Also recommend maintaining the road with gravel, particularly at the end of the road.
  - WW-C3: Avoid dirt road due to similar conditions. Dirt road here is also steep and vehicles may lose traction.
- Los Trancos & Morning Canyon Creeks monitoring responsibilities to Santa Ana Water Board (for discussion)

# **Santa Ana River Bacteria Monitoring Program Annual Report Outline**

## **1. Introduction**

- a. Regulatory Background
- b. Monitoring Strategy

## **2. SAR Study Area**

- a. General Description
- b. Physical Characteristics
  - i. Hydrology
  - ii. Rainfall
- c. Monitoring Locations
  - i. Priority 1
  - ii. Priority 2
  - iii. Priority 3
  - iv. Priority 4

## **3. Methods**

- a. Data Collection
- b. Sample Frequency
- c. Sample Handling
- d. Data Handling
- e. Data Analysis

## **4. Results (Observations, Compliance Analysis, etc.)**

- a. Dry Weather
  - i. Priority 1
  - ii. Priority 2
  - iii. Priority 3
  - iv. Priority 4
- b. Wet Weather (Priority 2 Only)
  - i. 2015-2016
  - ii. 2016-2017

## **5. Recommended Changes for 2017-2018**

## **6. References**

## **7. Appendices**

- a. Data Summary
- b. QA/QC Summary
- c. Lab QA/QC Reports (attachments)

**APPENDIX A**

**2016 INTEGRATED REPORT**

**SUMMARY OF REGIONAL BOARD NEW LISTINGS**

WATERBODY	POLLUTANT
Big Bear Lake	Chlordane DDT (Dichlorodiphenyltrichloroethane)
Bolsa Bay Marsh	Toxicity
Bolsa Chica Ecological Reserve	Toxicity
Bonita Creek	Benthic Community Effects Toxicity
Lake Elsinore	DDT (Dichlorodiphenyltrichloroethane)
Lake Evans	PCBs (Polychlorinated biphenyls)
Little Corona Del Mar Beach	Indicator Bacteria
Mathews, Lake	Mercury
Newport Bay, Upper	Malathion
Peters Canyon Channel	Benthic Community Effects Malathion Selenium Toxicity
Prado Flood Control Basin	pH
San Diego Creek, Reach 1	Benthic Community Effects DDT (Dichlorodiphenyltrichloroethane) Malathion Toxicity
San Diego Creek, Reach 2	Benthic Community Effects
San Timoteo Creek, Reach 1A	Indicator Bacteria
San Timoteo Creek, Reach 2	Indicator Bacteria
San Timoteo Creek, Reach 3	Indicator Bacteria
Santa Ana River, Reach 3	Benthic Community Effects
Santiago Creek, Reach 4	Benthic Community Effects Toxicity
Serrano Creek	Benthic Community Effects Toxicity
Silverado Creek	Benthic Community Effects Toxicity
Talbert Channel	Toxicity
Warm Creek	Indicator Bacteria

**2016 INTEGRATED REPORT  
SUMMARY OF REGIONAL BOARD NEW DELISTINGS**

WATERBODY	POLLUTANT
Anaheim Bay	Dieldrin
Canyon Lake	Indicator Bacteria
Cucamonga Creek Reach	Indicator Bacteria
Huntington Beach State Park	Indicator Bacteria
Huntington Harbour	Nickel
Lytle Creek	Indicator Bacteria
Mill Creek, Reach 2	Indicator Bacteria
Newport Bay, Lower	Chlorpyrifos
Newport Bay, Upper (Ecological Reserve)	Chlorpyrifos
San Diego Creek, Reach 1	Pesticides
Santa Ana Delhi Channel	Indicator Bacteria
Santa Ana River, Reach 2	Indicator Bacteria
Silverado Creek	Indicator Bacteria

**AMENDMENT NO. 1  
TO THE  
AGREEMENT TO FORM THE  
MIDDLE SANTA ANA RIVER  
TMDL TASK FORCE**

Pursuant to Section V – Term of the Agreement. of that certain AGREEMENT entitled, “Agreement to Form the Middle Santa Ana River TMDL Task Force” (“Task Force Agreement”), dated December 1, 2012; and

Whereas this Task Force Agreement initially had been prepared for a five-year term and therefore is set to expire on the date of December 31, 2017, the TASK FORCE AGENCIES as named in the Agreement (Exhibit A), **hereby agree to the following changes:**

- I. Extend the term of the Task Force Agreement to **June 30, 2020**, and
- II. Stipulate the option that the Agreement, while still in full force and effect, may be extended an additional two years, to **June 30, 2022**, by means of Administrative Action by the Task Force Administrator.

Except as otherwise expressly amended herein, all of the terms, conditions, and provisions of the Agreement to Form the Middle Santa Ana River TMDL Task Force (Exhibit A) shall continue in full force and effect.

**This Amendment No. 1** may be executed in original counterparts, which together shall constitute a single Agreement document.

**IN WITNESS WHEREOF**, the parties hereto have executed this **Amendment No. 1 to the Agreement to Form the Middle Santa Ana River TMDL Task Force**, on the dates set forth below.

**SANTA ANA WATERSHED PROJECT AUTHORITY (SAWPA)**

BY \_\_\_\_\_  
Celeste Cantú, General Manager Date

**IN WITNESS WHEREOF**, the parties hereto have executed this **Amendment No. 1 to the Agreement to Form the Middle Santa Ana River TMDL Task Force**, on the dates set forth below.

*Note: Each Agency to have a separate signature page, which may be customized to the Agency's particular signature block format.*

**(AGENCY NAME)**

***Approved:***

By: \_\_\_\_\_

Title: \_\_\_\_\_

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