

Santa Ana Regional Monitoring Program

August 2021 Update

Steven Wolosoff
Paul Caswell

8/23/21



**CDM
Smith**

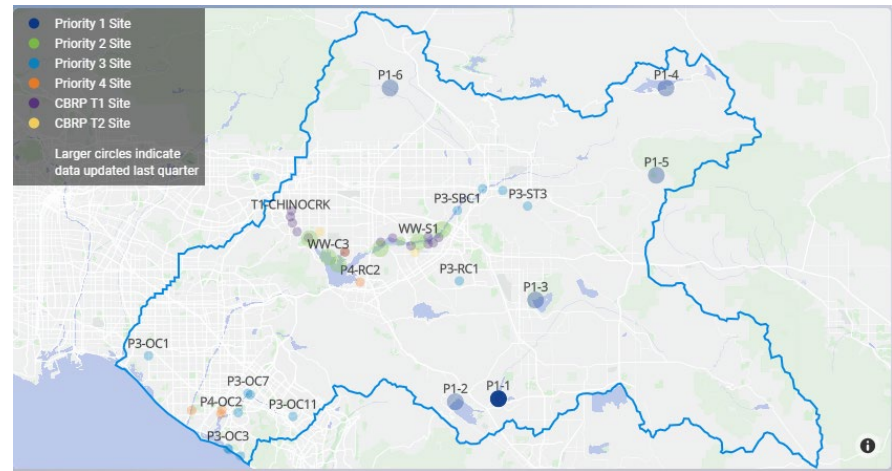
Outline

- 2021 Sampling Season Update
 - Priority 1
 - Priority 2
 - Priority 3
 - Priority 4
- Sampling site/ Monitoring Plan updates

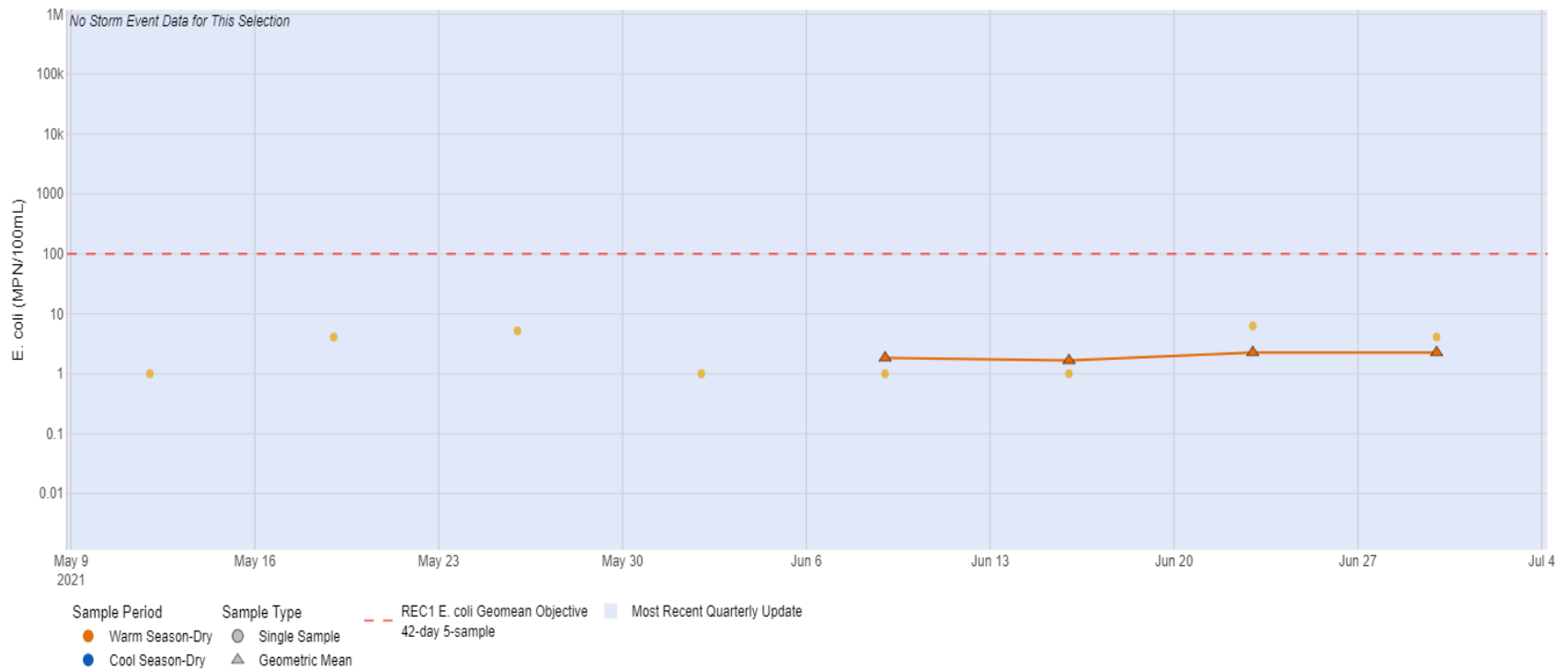


Priority 1

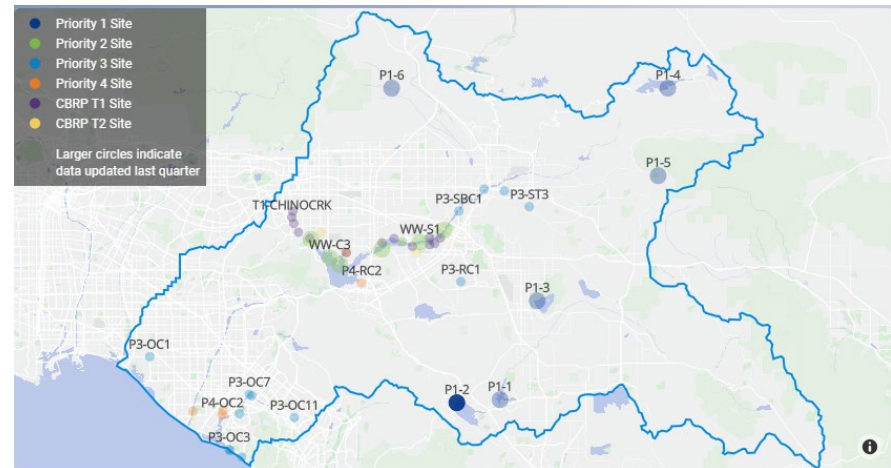
P1-1 Canyon Lake



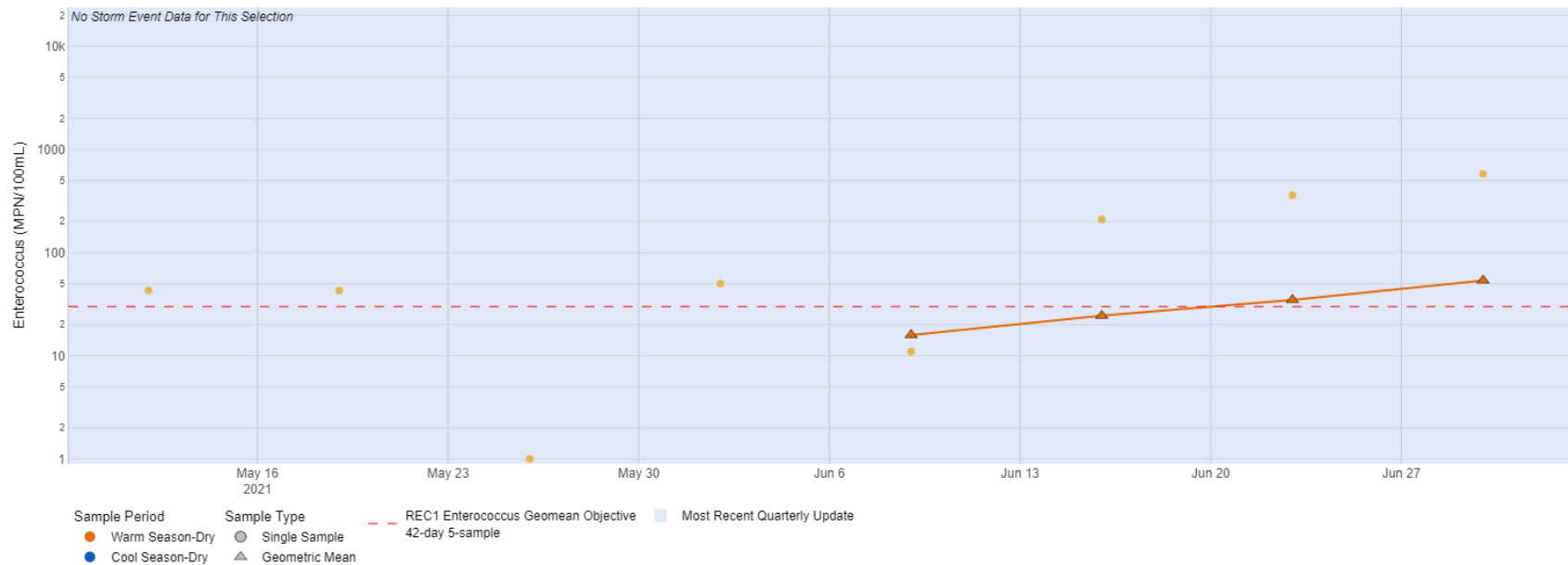
P1-1 - Canyon Lake at Holiday Harbor (E. coli) for 2016 - 2021



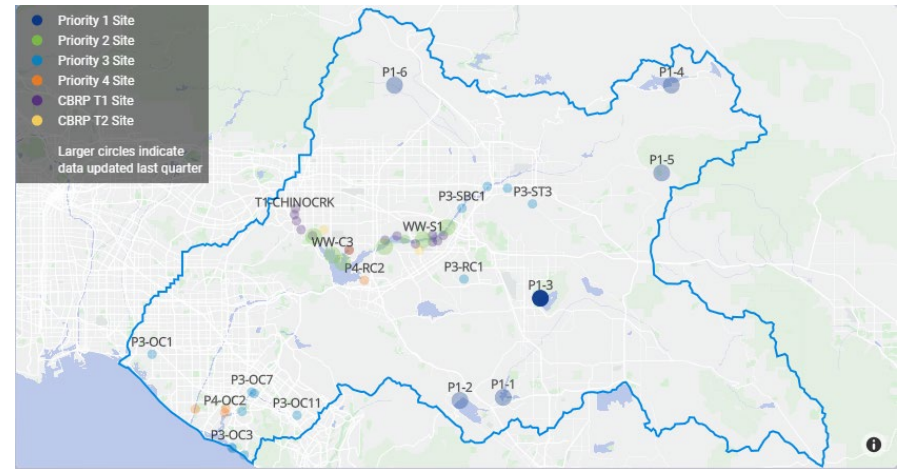
P1-2 Lake Elsinore



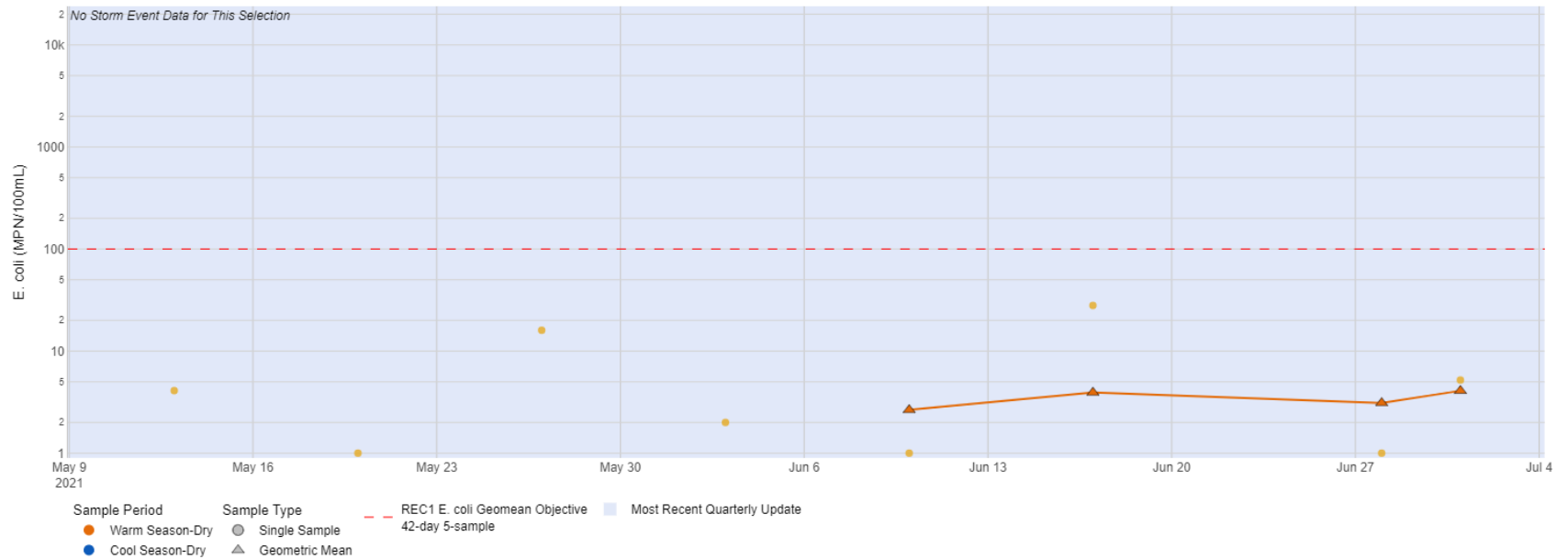
P1-2 - Lake Elsinore (Enterococcus) for 2019 - 2021



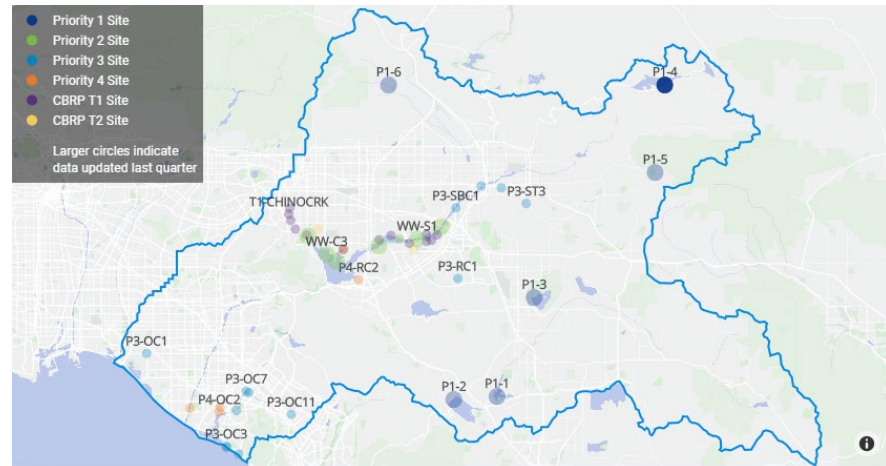
P1-3 Lake Perris



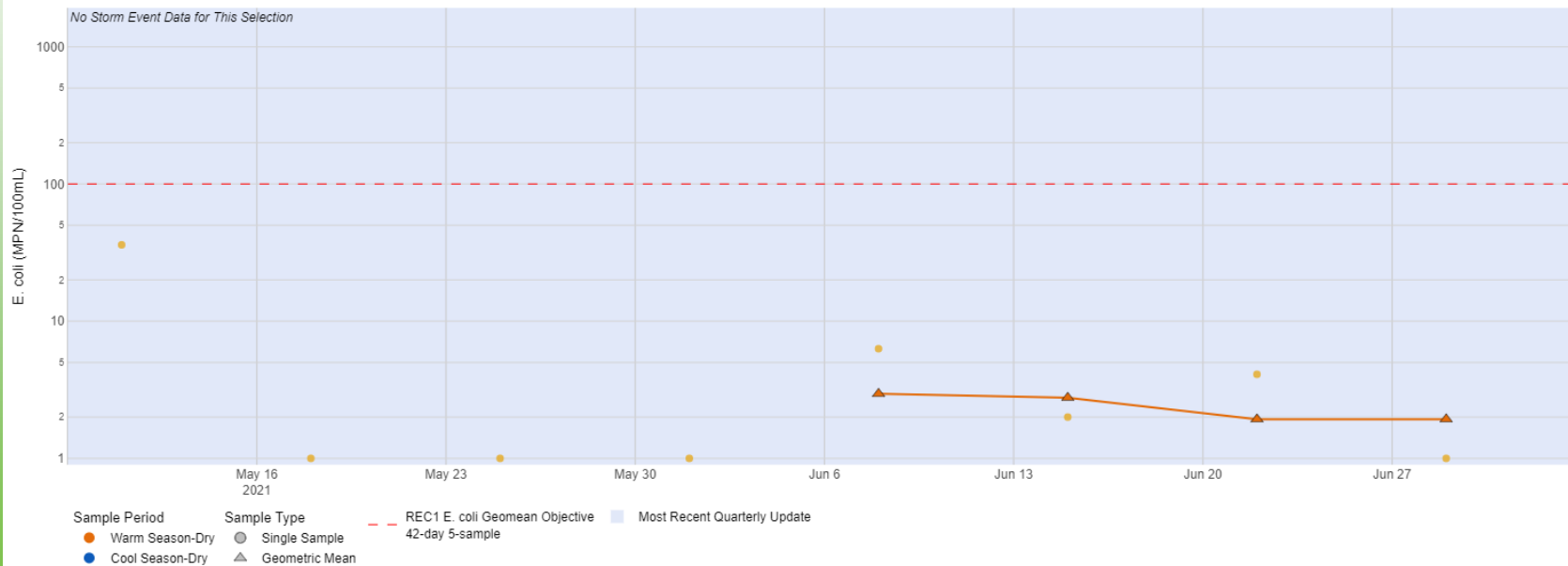
P1-3 - Lake Perris (E. coli) for 2016 - 2021



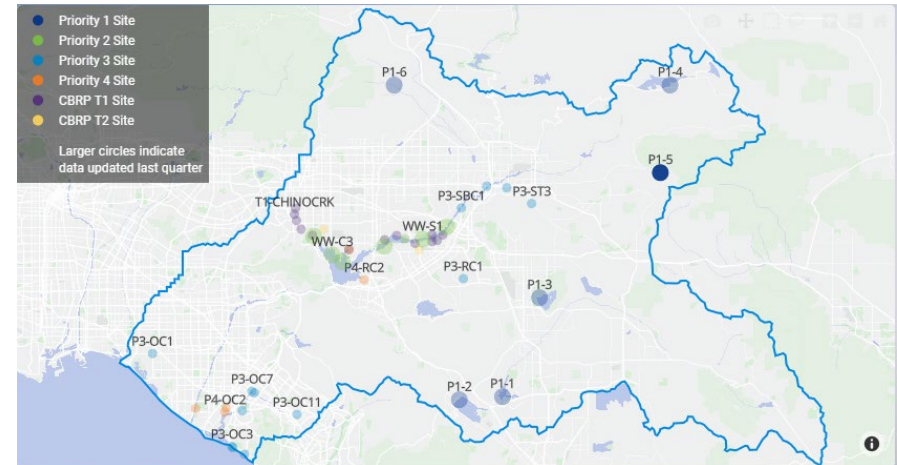
P1-4 Big Bear Lake



P1-4 - Big Bear Lake at Swim Beach (E. coli) for 2016 - 2021



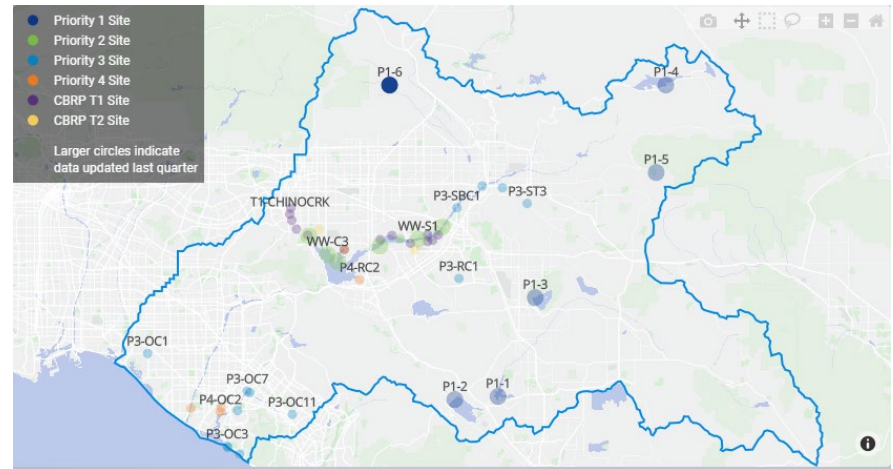
P1-5 Mill Creek Reach 2



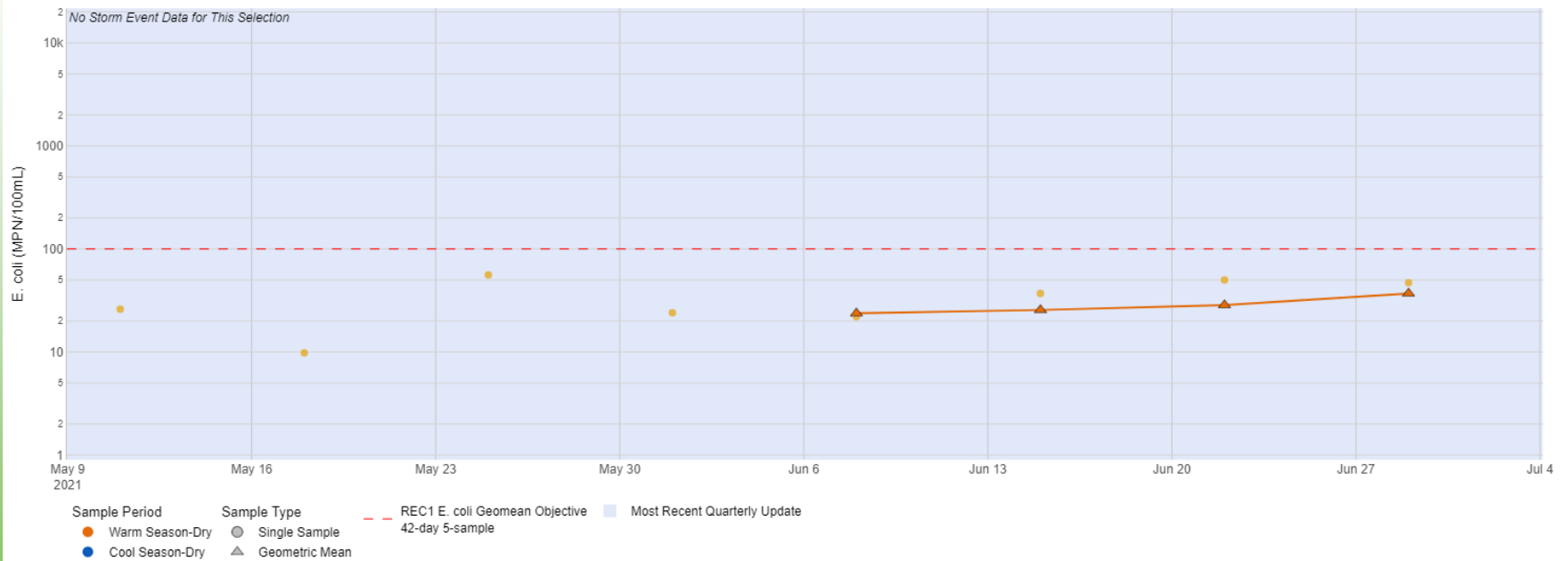
P1-5 - Mill Creek Reach 2 (E. coli) for 2016 - 2021



P1-6 Lytle Creek



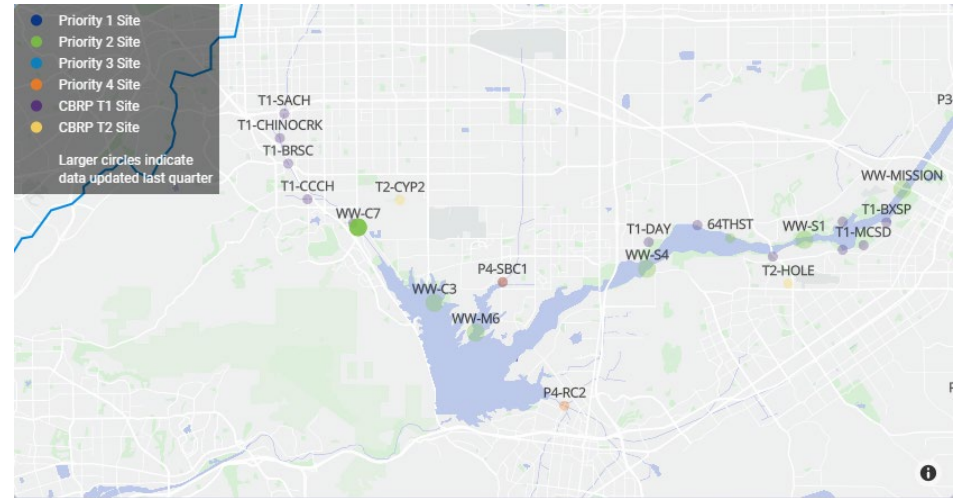
P1-6 - Lytle Creek (Middle Fork) (E. coli) for 2016 - 2021



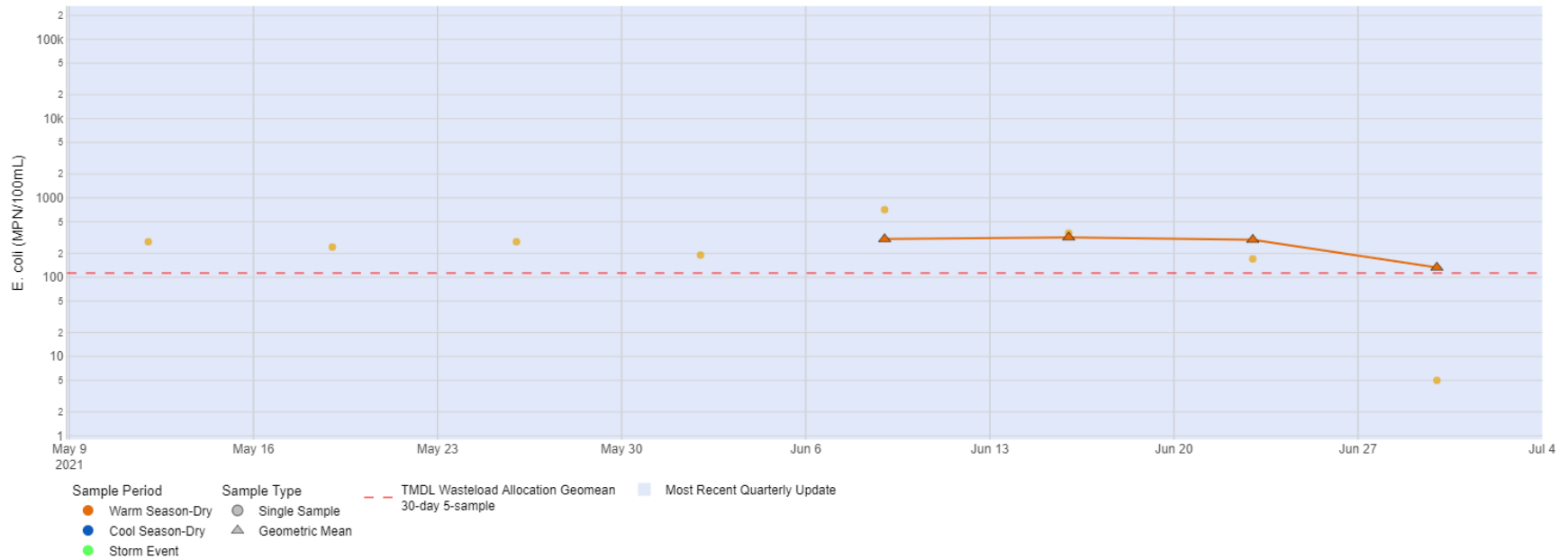
A small, clear glass globe sits on a dark, mossy surface. Inside the globe, a small green plant with several leaves is visible. The background is a soft-focus green.

Priority 2

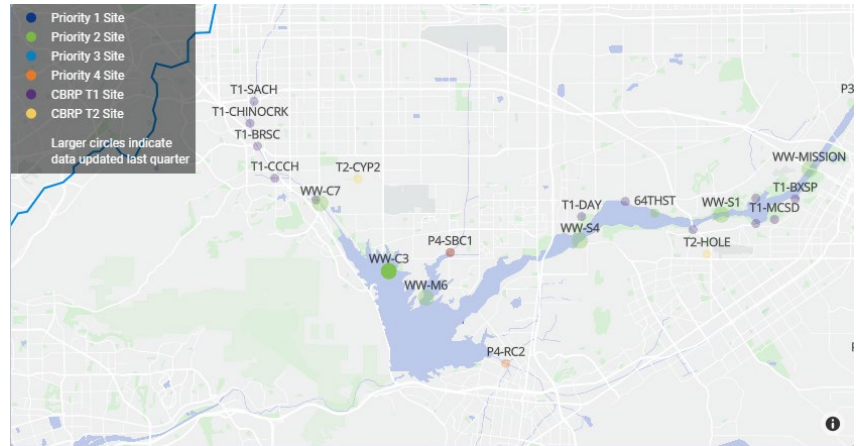
WW-C7 Chino Creek



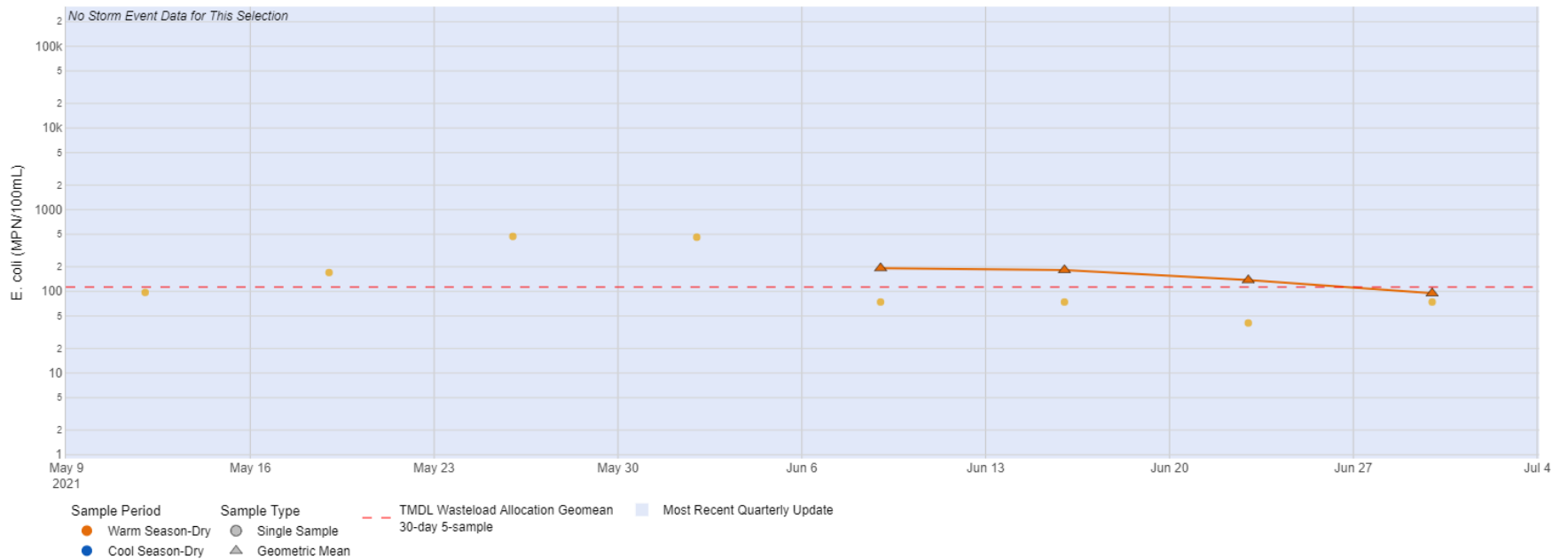
WW-C7 - Chino Creek at Central Avenue (E. coli) for 2016 - 2021



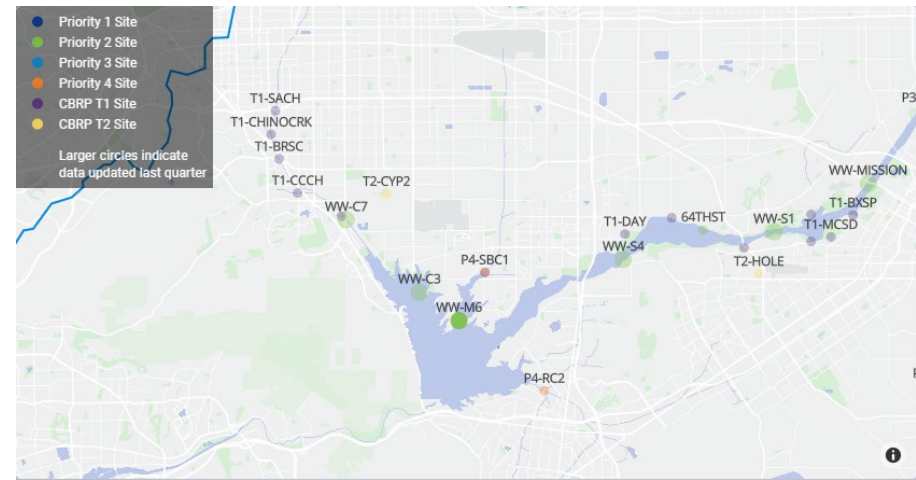
WW-C3 Prado Park Lake



WW-C3 - Prado Park Lake (E. coli) for 2015 - 2021



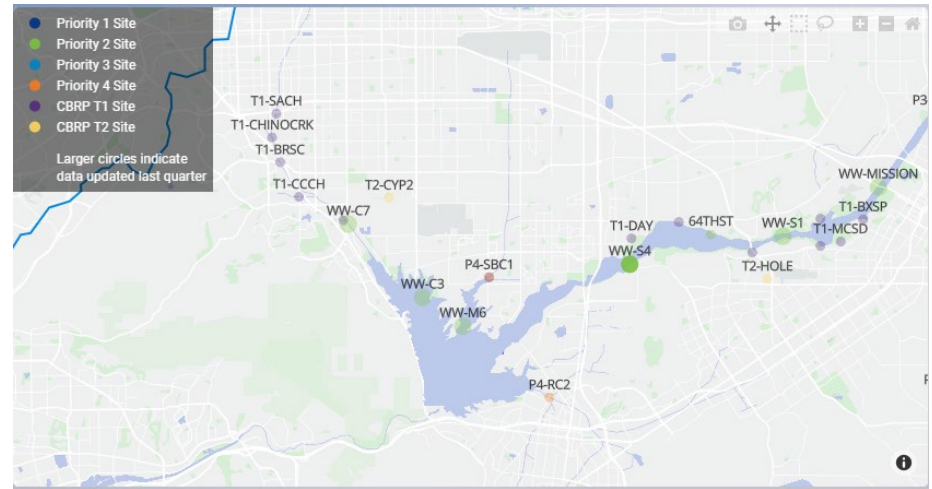
WW-M6 Mill-Cucamonga Creek



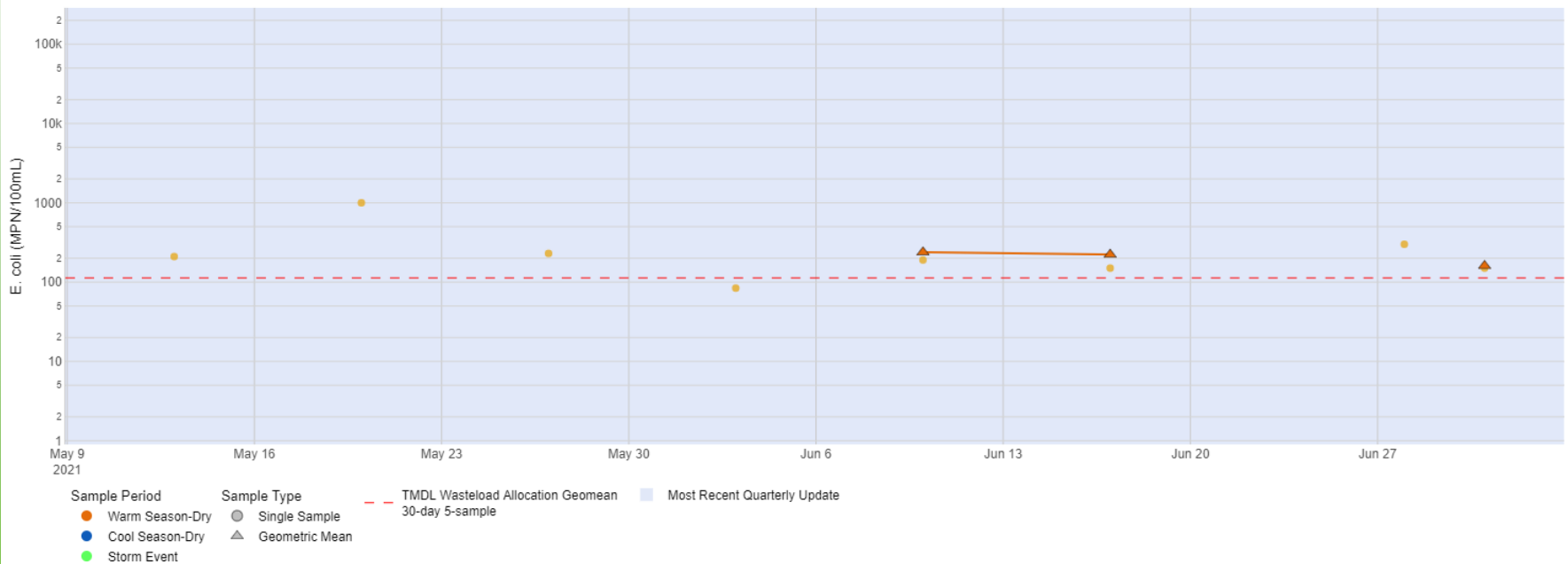
WW-M6 - Mill-Cucamonga Creek below Wetlands (E. coli) for 2016 - 2021



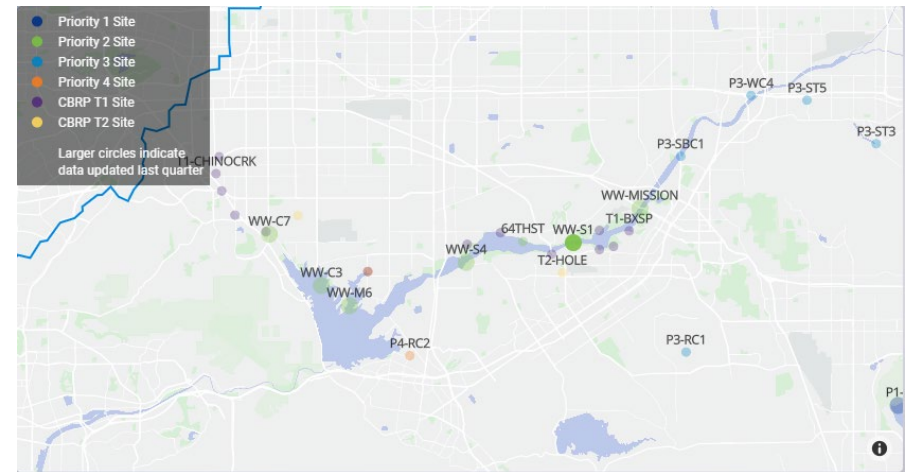
WW-S4 Santa River @ Pedley



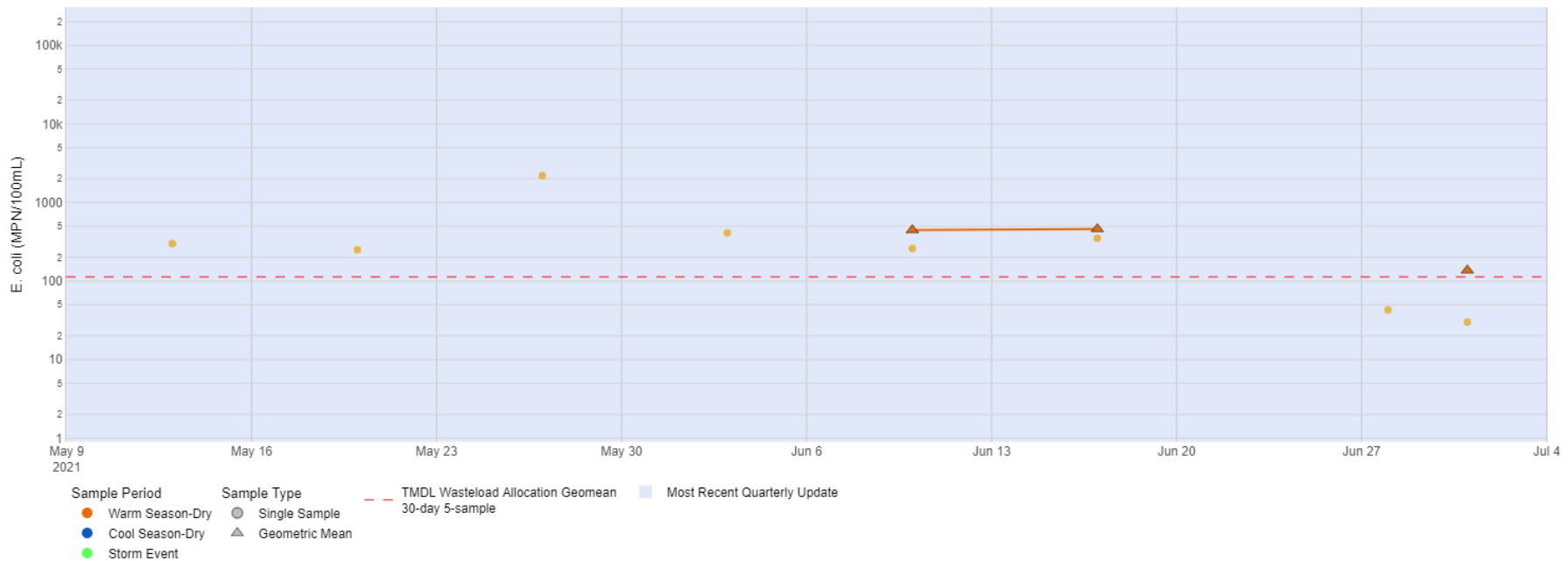
WW-S4 - Santa Ana River Reach 3 at Pedley Avenue (E. coli) for 2016 - 2021



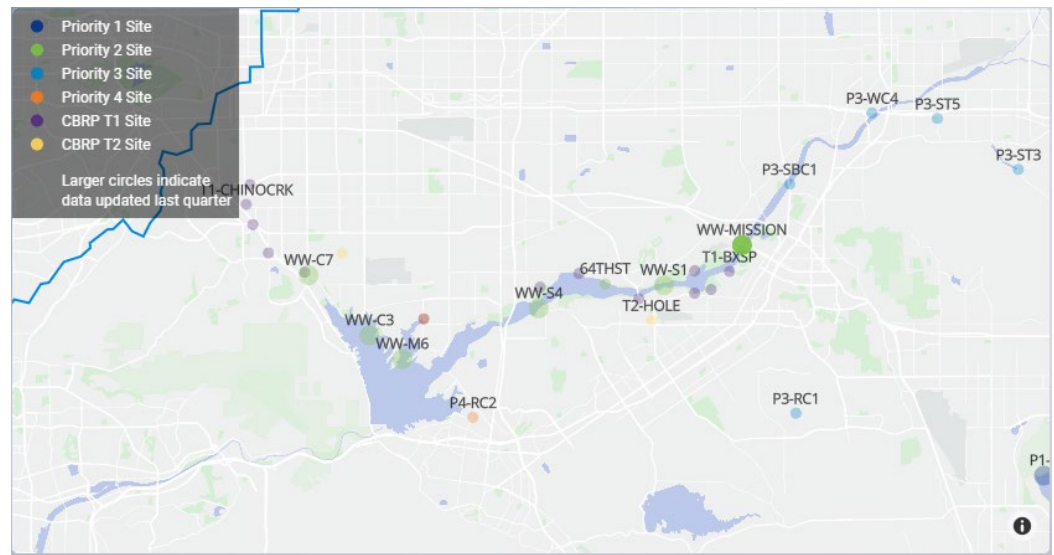
WW-S1 Santa Ana River @ MWD



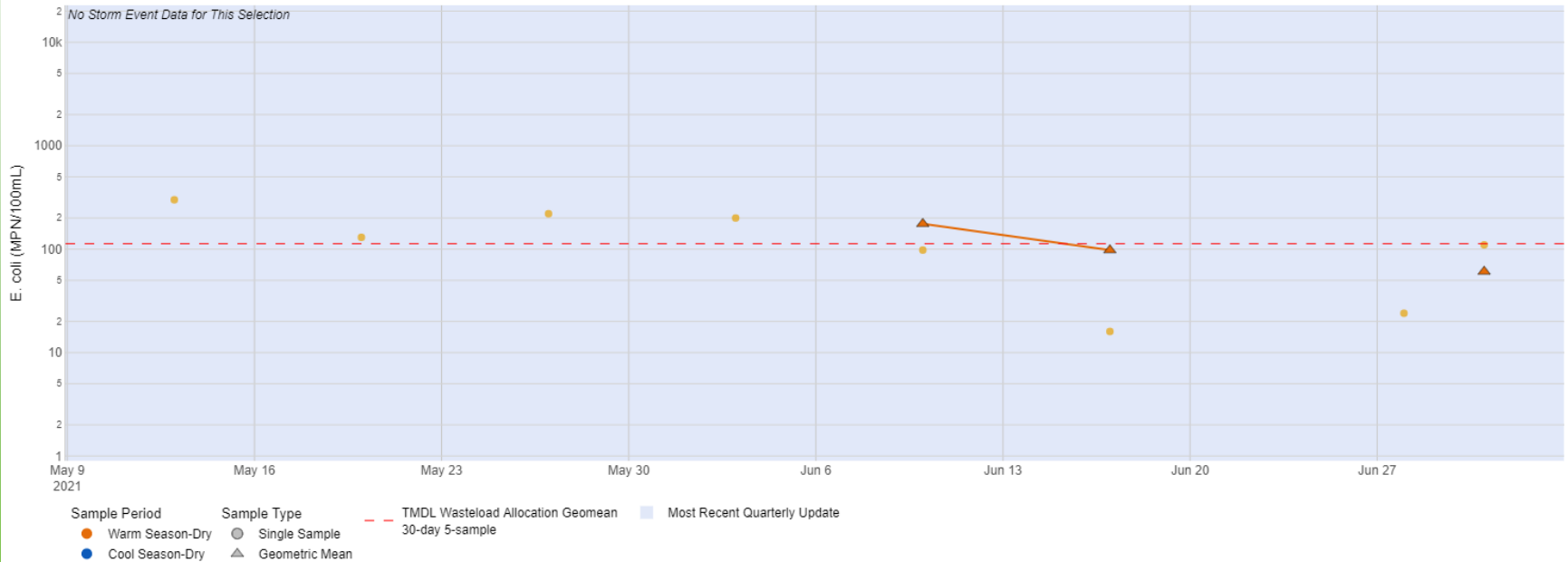
WW-S1 - Santa Ana River Reach 3 at MWD Crossing (E. coli) for 2016 - 2021



MISSION



WW-MISSION - Santa Ana River at Mission Blvd. Bridge (E. coli) for 2019 - 2021



A small, clear glass globe sits on a dark, mossy surface. Inside the globe, a small green plant with several leaves is visible. The background is a soft-focus green.

Priority 3

Priority 3

- 5-week sampling for P3-SBC1 and P3-RC1 wrapped up last week
- Sampling for Warm Creek and San Tim Creek reaches 1A, 2, and 3 to begin this week and wrap up the week of September 19th



Priority 4

Priority 4 Antidegradation Compliance

Sample Site	Date of Sample	<i>E. Coli</i> Concentration (MPN/100mL)	Anti-Degradation Target (MPN/100mL)
P4-RC2	7/23/21	7.4	725
P4-SBC1	7/23/21	1500*	1385

* Sample exceeded antidegradation target. Follow-up samples will be collected in August, September and October

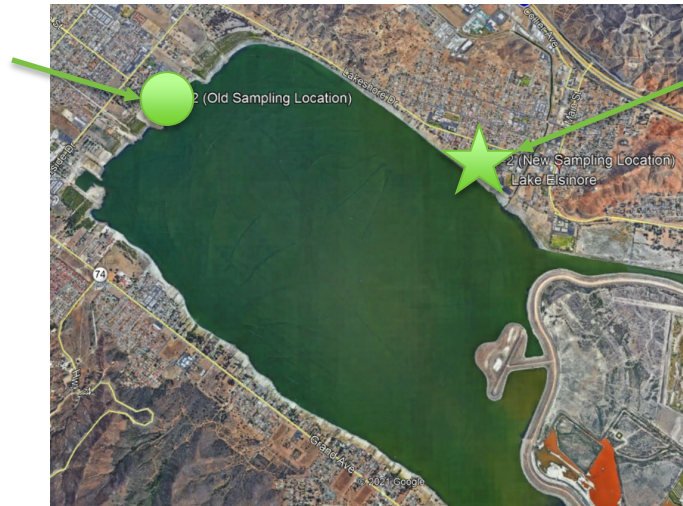


Site Monitoring Location Updates

Priority 1

Site ID	Site Description	County	Latitude	Longitude
P1-1	Canyon Lake at Holiday Harbor	Riverside	33.6808	-117.2724
P1-2	Lake Elsinore	Riverside	33.6664	-117.3356
P1-3	Lake Perris	Riverside	33.8614	-117.1908
P1-4	Big Bear Lake at Swim Beach	San Bernardino	34.2482	-116.9034
P1-5	Mill Creek Reach 2	San Bernardino	34.0891	-116.9247
P1-6	Lytle Creek (Middle Fork)	San Bernardino	34.2480	-117.5110
WW-S1	Santa Ana River Reach 3 at MWD Crossing	Riverside	33.9681	-117.4479
WW-S4	Santa Ana River Reach 3 at Pedley Avenue	Riverside	33.9552	-117.5327

Old Sampling Location



New Sampling Location

Priority 2

Site ID	Site Description	County	Latitude	Longitude
WW-M6	Mil-Cucamonga Creek below Wetlands	San Bernardino	33.9268	-117.6250
WW-C7	Chino Creek at Central Avenue	San Bernardino	33.9737	-117.6889
WW-C3	Prado Park Lake	San Bernardino	33.9400	-117.6473
WW-S1	Santa Ana River Reach 3 at MWD Crossing	Riverside	33.9681	-117.4479
WW-S4	Santa Ana River Reach 3 at Pedley Avenue	Riverside	33.9552	-117.5327
MISSION ¹	Santa Ana River at Mission Blvd. Bridge	Riverside	33.9906	-117.3951

1) Samples collected at MISSION are not for TMDL compliance assessment

Priority 3

Site ID	Site Description	County	Latitude	Longitude
P3-OC1	Bolsa Chica Channel upstream of Westminster Blvd/Bolsa Chica Rd	Orange	33.7596	-118.0430
P3-OC2	Borrego Creek upstream of Barranca Parkway	Orange	33.6546	-117.7321
P3-OC3	Buck Gully Creek Little Corona Beach at Poppy Avenue/Ocean Blvd	Orange	33.5900	-117.8684
P3-OC5	Los Trancos Creek at Crystal Cove State Park	Orange	33.5760	-117.8406
P3-OC6	Morning Canyon Creek at Morning Canyon Beach	Orange	33.5876	-117.8658
P3-OC7	Peters Canyon Wash downstream of Barranca Parkway	Orange	33.6908	-117.82404
P3-OC8	San Diego Creek downstream of Campus Drive (Reach 1)	Orange	33.6553	-117.8454
P3-OC9	San Diego Creek at Harvard Avenue (Reach 1)	Orange	33.6880	-117.8187
P3-OC11	Serrano Creek upstream of Barranca/Alton Parkway	Orange	33.6483	-117.7248
P3-RC1	Goldenstar Creek at Ridge Canyon Drive	Riverside	33.8964	-117.3586
P3-SBC1	Santa Ana River Reach 4 above S. Riverside Avenue Bridge	San Bernardino	34.0248	-117.3628
P3-SBC2	San Timoteo Creek Reach 1A at Anderson St.	San Bernardino	34.0615	-117.2629
P3-SBC3	San Timoteo Creek Reach 2 at San Timoteo Canyon Rd.	San Bernardino	34.0615	-117.2629
P3-RC3	San Timoteo Creek Reach 2 at Live Oak Canyon Rd	Riverside	34.0025	-117.1645
P3-SBC4	Warm Creek below Fairway Dr.	San Bernardino	34.0646	-117.3072

Priority 3 Schedule

Year	First Week of Sampling	Last Week of Sampling	Priority 3 Waters
2020	May 10	November 29	Group 4: Santa Ana River Reach 4
	May 10	June 7	Group 5: Goldenstar Creek
	June 14	July 12	Group 6: Warm Creek, San Timoteo Creek
	July 19	August 16	Group 2: Peters Canyon Wash, San Diego Creek Reach 1, San Diego Creek Reach 2, Borrego Creek, Serrano Creek
	August 23	September 20	Group 3: Los Trancos Creek, Morning Canyon Creek, Buck Gully Creek
	October 25	November 29	Group 1: Bolsa Chica Channel
2021	June 13	July 11	Group 4: Santa Ana River Reach 4
	June 13	July 11	Group 5: Goldenstar Creek
	TBD	TBD	Group 1: Bolsa Chica
	August 22	September 19	Group 6: Warm Creek, San Timoteo Creek
	August 15	September 19	Group 2: Serrano Creek
2022	July 10	August 7	Group 1: Bolsa Chica
	August 14	September 11	Group 4: Santa Ana River Reach 4
	August 14	September 11	Group 5: Goldenstar Creek
	July 10	August 7	Group 6: Warm Creek, San Timoteo Creek
	May 29	June 26	Group 2: Serrano Creek
2023	May 21	June 18	Group 1: Bolsa Chica
	July 2	July 30	Group 5: Goldenstar Creek
	July 2	July 30	Group 4: Santa Ana River Reach 4
	May 14	June 11	Group 6: Warm Creek, San Timoteo Creek
	July 9	August 13	Group 2: Serrano Creek