

Table _: QA/QC Data for Field and Travel Blank Samples (ng/L) Change from 2010 to 2011

Change for 2010 to 2011	# ND (2011)	# Decreased	# Same	# Increased
Acetaminophen	27	0	0	0
Bisphenol A	27	0	0	0
Caffeine	27	0	0	0
Carbamazepine	27	0	0	0
DEET	27	0	0	0
Diuron	27	0	0	0
Ethinyl Estradiol	27	0	0	0
Gemfibrozil	26	0	0	1
Ibuprofen	27	0	0	0
Sulfamethoxazole	27	0	0	0
TCEP	26	0	0	1
	295	0	0	2

Table _: QA/QC Data for Field and Travel Blank Samples (ng/L) Change from 2010 to 2011

Sampling Location	# ND (2011)	# Decreased	# Same	# Increased
City of Beaumont WWTP No. 1	11	0	0	0
City of Corona WRF 3	11	0	0	0
City of Corona WRF 1B	11	0	0	0
City of Corona WRF 2	11	0	0	0
EMWD MV-RWRF	11	0	0	0
EMWD PV-RWRF	11	0	0	0
EMWD SJV-RWRF	11	0	0	0
EMWD TV-RWRF	11	0	0	0
EVMWD Horsethief Canyon	11	0	0	0
EVMWD Railroad Canyon WRP	11	0	0	0
EVMWD Regional WRP	11	0	0	0
IEUA CCWRF	11	0	0	0
IEUA RP1 02	11	0	0	0
IEUA RP1 1B	11	0	0	0
IEUA RP5	11	0	0	0
IRWD Los Alisos Plant	11	0	0	0
IRWD Michelson Plant	11	0	0	0
City of Redlands WWTP	11	0	0	0
City of Rialto WWTP	10	0	0	1
City of Riverside RWQCP	11	0	0	0
City of San Bernardino RIX	11	0	0	0
WRCWRA 'River Rd. Plant	11	0	0	0
YVWD WRF	11	0	0	0
State Project Water at Devil Canyon (MWD)	11	0	0	0
Colo River at San Jacinto West Portal (MWD)	11	0	0	0
Santa Ana River near MWD crossing (OCWD)	11	0	0	0
Santa Ana River near Prado Dam (OCWD)	10	0	0	1
	295	0	0	2

Table _ : Emerging Constituent Sampling Results (ng/L) Change from 2010 to 2011

Change for 2010 to 2011	# ND (2011)	# Decreased	# Same	# Increased
Acetaminophen	20	2	0	5
Bisphenol A	20	0	0	7
Caffeine	16	4	0	7
Carbamazepine	4	12	0	11
DEET	7	5	0	15
Diuron	5	7	1	14
Ethinyl Estradiol	27	0	0	0
Gemfibrozil	8	2	0	17
Ibuprofen	9	3	0	15
Sulfamethoxazole	15	6	1	5
TCEP	3	9	0	15

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Table _ : Emerging Constituent Sampling Results (ng/L) Change from 2010 to 2011

Sampling Location	# ND (2011)	# Decreased	# Same	# Increased
City of Beaumont WWTP No. 1	4	4	0	3
City of Corona WRF 3	6	2	0	3
City of Corona WRF 1B	5	2	0	4
City of Corona WRF 2	3	1	0	7
EMWD MV-RWRF	5	2	0	4
EMWD PV-RWRF	7	1	0	3
EMWD SJV-RWRF	4	1	0	6
EMWD TV-RWRF	3	3	1	4
EVMWD Horsethief Canyon	6	2	0	3
EVMWD Railroad Canyon WRP	3	0	0	8
EVMWD Regional WRP	3	3	0	5
IEUA CCWRF	6	1	0	4
IEUA RP1 02	6	1	0	4
IEUA RP1 1B	6	1	1	3
IEUA RP5	6	1	0	4
IRWD Los Alisos Plant	1	5	0	5
IRWD Michelson Plant	6	2	0	3
City of Redlands WWTP	6	0	0	5
City of Rialto WWTP	6	1	0	4
City of Riverside RWQCP	4	2	0	5
City of San Bernardino RIX	7	0	0	4
WRCWRA 'River Rd. Plant	3	5	0	3
YVWD WRF	2	5	0	4
State Project Water at Devil Canyon (MWD)	10	1	0	0
Colo River at San Jacinto West Portal (MWD)	10	0	0	1
Santa Ana River near MWD crossing (OCWD)	2	1	0	8
Santa Ana River near Prado Dam (OCWD)	4	3	0	4

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Table 3: 2011 Emerging Constituent Sampling Results (ng/L)

Sampling Location	Acetaminophen	Bisphenol A	Caffeine	Carbamazepine	DEET	Diuron	Estradiol	Ethinyl Estradiol	Gemfibrozil	Ibuprofen	Sulfamethoxazole	TCEP	Triclosan
City of Beaumont WWTP No. 1	<10	<10	40	360 ^{M3}	64	24	<10	<10	210	<10	340 ^{M3}	250 ^{M3}	21
City of Corona WRF 3	<10	<10	<10	92	120	<10	<10	<10	15	160	<10	240	<10
City of Corona WRF 1B	45	<10	<10	160	180	<10	<10	<10	11	120	<10	390	<10
City of Corona WRF 2	24	<10	<10	180	610	62	<10	<10	750	150	620	670	<10
EMWD MV-RWRF	<10	19	<10	<10	320 ^{FA}	21	<10	<10	43	29	<10	130 ^{FA}	<10
EMWD PV-RWRF	<10	<10	<10	11	160 ^{FA}	<10 ^{M1}	<10	<10	28	<10	<10 ^{M2}	190 ^{M3}	27 ^{M3}
EMWD SJV-RWRF	<10	18	<10	320	<10	170	<10	<10	5800	92	1800	220 ^{FA}	<10
EMWD TV-RWRF	10	<10	280	85	<10	100	<10	<10	940	170	150	140	<10
EVMWD Horsethief Canyon	<10	<10	<10	54	250	15	<10	<10	<10	840	<10	460	<10
EVMWD Railroad Canyon WRP	<10	110	<10	110	200 ^{FA}	80	<10	<10	140	25	55	310	<10
EVMWD Regional WRP	<10	220	97 ^{FA}	220	180 ^{FA}	24	<10	<10	49	<10	200	330	26
IEUA CCWRF	<10	<10	20	81	98	100	<10	<10	<10	<10	<10	210	130
IEUA RP1 02	<10	<10	<10	110	380	40	<10	<10	<10	24	<10	340	<10
IEUA RP1 1B	<10	<10	<10	130	320 ^{FA}	12	<10	<10	<10	19	<10	230	<10
IEUA RP5	<10	<10	14	89	100	31	<10	<10	<10	<10	<10	250	<10
IRWD Los Alisos Plant	48	44	80	340	290 ^{FA}	120	<10	<10	1900	72	1300	120	42
IRWD Michelson Plant	<10	<10	10	38	<10 ^{FA}	40	<10	<10	<10	31	<10	98	<10
City of Redlands WWTP	<10	<10	<10	210	180	39	<10	<10	17	<10	<10	200	<10
City of Rialto WWTP	<10	<10	<10	140	160	11	<10	<10	43	<10	<10	270	<10
City of Riverside RWQCP	<10	<10	<10	230 ^{M3}	410 ^{FA}	41 ^{M1}	<10	<10	27	14	11 ^{M2}	170 ^{M3}	<10
City of San Bernardino RIX	23	26	<10	<10	<10	<10	<10	<10	2700	1800	<10	<10	77
WRCWRA River Rd. Plant	<10	<10	14	200	400	42	<10	<10	250	85	520	540	<10
YVWD WRF	32	26	20	350	<10 ^{FA}	51	<10	<10	2200	150	1100	190	79
State Project Water at Devil Canyon (MWD)	<10	<10	<10	<10	<10	82	<10	<10	<10	<10	<10	<10	<10
Colo River at San Jacinto West Portal (MWD)	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	<10	<10	<10
Santa Ana River near MWD crossing (OCWD)	13	<10	59	113	42	260	<10	<10	158	49	208	69	<10
Santa Ana River near Prado Dam (OCWD)	<10	<10	52	97	76	157	<10	<10	15	<10	78	229	<10

Notes:

	10 ng/L was the Ma<10atory Reporting Limit (MRL) for this study. The Laboratory Reporting Limits (LRL) are provided in the supporting documentation.
FA	Target analyte detected in trip or equipment or field blank above the lab MRL as per project QAPP, for the TCEP blank hit, there is no impact on the data because sample results are much higher than the level found in the blank; however, data must be flagged. For City of Redlands, there was an error with collection of the field blank resulting in multiple hits. However the equipment blank associated with the sample was ND for the analytes with hits in the sample, except for TCEP, where the value in the sample was more than ten times the level measured in the blank.
M1	Matrix spike recovery was high, but the associated blank spike recovery was acceptable. The diuron spike amount (25 ppt) was less than 50% of the ambient concentration so the high spike recovery is not meaningful as per project QAPP. Analysis and spiking of follow up samples from this site would be desirable for assessing accuracy of result.
M2	Matrix spike recovery was low, but the associated blank spike recovery was acceptable. The sulfamethoxazole is a data entry error in the spike amount - entered as 50 rather than 25. A revised report is being issued, but the flag was still showing up in the electronic data deliverable. Flag has been removed in revised EDD. Ibuprofen hit in field blank may be biased low (spike recoveries were 43 and 66%), but actual value is <25% of MRL so the field blank is still clearly non detect. There is thus no impact on the data from these low spike recoveries.
M3	The spike amount was very low in proportion to the level measured in the unspiked sample. Therefore the spike recovery is not relevant.

Table 4: 2011 QA/QC Data for Field <10 Travel Blank Samples (ng/L)

Sampling Location	Acetaminophen	Bisphenol A	Caffeine	Carbamazepine	DEET	Diuron	Estradiol	Ethinyl Estradiol	Gemfibrozil	Ibuprofen	Sulfamethoxazole	TCEP	Triclosan
City of Beaumont WWTP No. 1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
City of Corona WRF 3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
City of Corona WRF 1B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
City of Corona WRF 2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EMWD MV-RWRF	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EMWD PV-RWRF	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EMWD SJV-RWRF	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EMWD TV-RWRF	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EMWD Horsethief Canyon	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EMWD Railroad Canyon WRP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EMWD Regional WRP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
IEUA CCWRF	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 ^A
IEUA RP1 02	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
IEUA RP1 1B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
IEUA RP5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
IRWD Los Alisos Plant	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
IRWD Michelson Plant	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
City of Redlands WWTP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
City of Rialto WWTP	<10	<10	<10	<10	<10	<10	<10	<10	17	<10	<10	<10	14
City of Riverside RWQCP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
City of San Bernardino RIX	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
WRCWRA River Rd. Plant	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
YVWD WRF	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
State Project Water at Devil Canyon (MWD)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Colo River at San Jacinto West Portal (MWD)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Santa Ana River near MWD crossing (OCWD)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Santa Ana River near Prado Dam (OCWD)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	<10

Notes:

10 ng/L was the Maximum Reporting Limit (MRL) for this study. The Laboratory Reporting Limits (LRL) are provided in the supporting documentation.
 Target analyte detected in trip or equipment or field blank above the lab MRL as per project QAPP, for the TCEP blank hit, there is no impact on the data because sample results are much higher than the level found in the blank; however data must be flagged. For City of Redlands, there was an error with collection of the field blank resulting in multiple hits. However the equipment blank associated with the sample was ND for the analytes with hits in the sample, except for TCEP, where the value in the sample was more than ten times the level measured in the blank.