

Appendix 5.7 - Summary of San Vicente Watershed Source Water Constituents 2016 - 2020

CSD

			Basin Plan Inland Surface Waters Quality ¹		Barona Creek BAR4				Kimball Creek KIM4				Aqueduct Creek AQA3				Tollroad Creek TOL2				San Vicente Creek SNC4			
Group/Constituents	Units	CSD MDL	Criteria	Objectives	No. of Samples	Min	Max	Mean	No. of Samples	Min	Max	Mean	No. of Samples	Min	Max	Mean	No. of Samples	Min	Max	Mean	No. of Samples	Min	Max	Mean
General Physical																								
Flow	ft ³ /s				53	0	92.7	4.59	55	0	58.3	2.93	53	0	22.9	0.94	53	0	30.7	1.20	53	0	332	21.4
pH	PH		6.5-8.5 ²		12	6.02	8.12	7.28	21	6.58	7.73	7.21	14	6.53	8.15	7.33	15	6.41	7.6	7.12	27	6.46	7.86	7.24
Specific Conductance (E.C.)	US/CM				12	233	765	458	21	203	2070	978	14	208	823	489	15	166	639	388	27	298	2300	1390
Total Filterable Residue @ 180 C (TDS)	MG/L	10		300	12	177	464	293	19	190	1280	585	14	180	486	309	15	140	369	240	24	242	1400	837
Total Suspended Solids (TSS)	MG/L	1			12	< 1	66	17.9	19	< 1	250	17	14	< 1	70.7	11.2	15	< 1	11.5	2.11	24	< 1	626	40.4
Microbiological																								
Enterococcus	/100 ML	1	60 ³		12	3	1700	276	19	4	820	173	14	5	1100	219	15	1	330	87.1	24	< 1	> 2400	441
Escherichia Coli	/100 ML	1	190 ³		12	< 100	1200	251	19	< 100	1600	362	14	< 100	630	181	15	< 100	100	< 100	24	100	41000	2330
Total Coliform	/100 ML	1			12	2000	31000	9990	19	< 100	37000	6490	14	630	52000	11800	15	1100	29000	6950	24	310	160000	19800
Inorganic Constituents																								
Ammonia-N	MG/L	0.031	0.025		10	ND	0.115	0.029	16	ND	0.202	0.038	14	ND	0.088	0.015	15	ND	0.058	0.013	20	ND	1.89	0.164
Bromide	MG/L	0.1			13	ND	0.531	0.173	20	ND	0.873	0.371	15	ND	0.514	0.242	16	ND	0.376	0.195	24	ND	0.588	0.313
Chloride	MG/L	0.5	250	50	13	38.5	189	86.6	20	26.9	438	167	15	33.8	131	80	16	12.2	141	77.3	24	36.1	447	237
Fluoride	MG/L	0.02	1	1	13	0.107	0.187	0.137	20	0.069	0.341	0.223	15	0.107	0.61	0.322	16	ND	0.12	0.082	24	0.11	0.374	0.269
Nitrate (as NO3)	MG/L		5		13	0.303	21.7	7.27	21	ND	14.4	3.48	15	ND	23.6	6.00	16	ND	32.2	5.31	26	ND	30.4	5.18
Nitrite (NO2)	MG/L				13	ND	0.141	0.038	19	ND	0.099	0.03	15	ND	0.139	0.028	16	ND	0.069	0.013	24	ND	0.473	0.1
Phosphate, Ortho (as PO4)	MG/L	0.2			11	ND	0.309	0.028	16	ND	0.316	0.036	13	ND	0.126	0.01	14	ND	0.087	0.006	18	ND	0.774	0.08
Phosphorus	MG/L	0.078	0.025 ⁴	0.025 ⁴	11	0.048	0.261	0.119	18	0.061	0.234	0.11	12	0.062	0.248	0.103	13	0.014	0.183	0.072	22	0.069	0.315	0.158
Sulfate (SO4)	MG/L			65	13	15.8	59.5	31.0	20	17.4	483	94.5	15	11.8	64.2	34.6	16	2.58	28.5	15.8	24	33.7	324	172
Total Nitrogen	MG/L	0.156		0.25 ⁴	10	0.444	3.79	1.89	19	0.238	4.23	1.44	11	ND	6.25	1.77	13	ND	9.07	1.91	23	0.185	8.94	2.03

End Notes:

CSD MDL: City of San Diego Water Quality Laboratory minimum detection level, DLR: detection level for reporting, MCL: maximum contaminant level, SMCL: Secondary MCL, ND: not detected, Calculated mean below CSD MDL reported as ND.

¹ Water Quality Control Plan for the San Diego Basin (9) with amendments effective on or before May 17, 2016. Water Quality Objectives concentrations not to be exceeded more than 10% of the time during any one year period.

² Waters designated Fresh or Warm changes in normal ambient pH levels shall not exceed 0.5 units

³ Beach Action Values (BAV): Amendment to the Domestic Water Permit issued by SWRCB to CSD, August 27, 2018

⁴ P= 0.025 mg/L in any standing body of water. Nitrogen threshold determined by monitoring or if data are lacking, ratio of N:P = 10:1 is used. These values not to be exceeded more than 10% of the time.