

**Water Quality Chemistry Services
 2023 ADDITIONAL PARAMETERS**

PARAMETER	Units	CSD MDL	CITY OF SAN DIEGO TREATMENT PLANTS								
			ALVARADO			MIRAMAR			OTAY		
			MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX
2-Methylisoborneol (MIB)	ppt	5	ND	ND	ND	ND	ND	6.49	ND	ND	ND
Aggressive Index	---	---	11.9	12.2	12.6	12.0	12.3	12.6	11.8	12.1	12.4
Ammonia (as Nitrogen)	ppm	0.03	0.39	0.62	0.75	0.16	0.59	0.93	0.41	0.60	0.77
Bicarbonate	ppm	---	111	136	158	110	133	158	97	132	162
Bromide	ppm	0.1	ND	ND	0.31	ND	ND	0.20	ND	0.13	0.31
Calcium	ppm	5	39.9	49.1	62.0	43.2	56.8	73.3	39.2	49.2	63.2
Calcium Hardness	ppm	10	100	123	155	108	140	178	98	123	158
Carbonate	ppm	---	ND	ND	ND	ND	0.29	1.4	ND	0.16	1.7
Dissolved Organic Carbon (DOC)*	ppm	0.3	2.7	3.3	4.7	2.8	2.8	3.8	2.3	3.2	6.9
Heterotrophic Plate Count (HPC)	CFU/mL	---	<1	<1	1	<1	<1	3	<1	<1	1
Iron	ppb	5	ND	ND	5.69	ND	ND	6.30	ND	6.48	10.9
Langlier	---	---	0.10	0.39	0.85	0.21	0.50	0.75	-0.01	0.32	0.65
Magnesium	ppm	3	15.9	21.5	27.6	16.0	22.2	29.0	14.6	23.1	29.7
Manganese	ppb	5	ND	8.57	14.2	ND	ND	18.9	ND	ND	ND
Non-Carb-Hardness	ppm	---	61.0	100	145	83.3	124	172	27.0	97.0	150
Total Phosphorus	ppb	12.5	ND	ND	24.7	ND	ND	16.1	ND	ND	15.3
Phosphate, Ortho (as PO4)	ppm	0.1	ND	ND	0.10	ND	ND	0.11	ND	ND	0.20
Potassium	ppm	0.5	3.7	4.6	5.5	3.7	4.6	5.5	3.7	4.8	5.4
Ryzner Aggressive Index	---	---	6.9	7.3	7.8	6.7	7.2	7.6	7.0	7.4	7.8
Silica	ppm	0.625	8.2	10.9	15.7	4.4	7.6	9.3	6.4	7.6	9.5
SUVA*	L/mg-m	---	1.2	1.7	2.3	1.1	1.4	1.7	1.1	1.5	1.8
Total Nitrogen	ppm	0.156	0.85	0.92	1.08	0.74	0.82	0.90	0.91	0.95	1.01

* Results from untreated water