

Water Quality Chemistry Services
ELAP Certification #1058
 Monthly Complete Report
 Miramar/Alvarado/Otay Filtration Plants
 April 2023

Analyte	Method	Miramar Effluent	Alvarado Effluent	Otay Effluent	Units	MDL
pH	SM4500-H+B	8.28	8.11	7.95	pH	
Conductivity	SM2510B	967	962	966	µmho/cm	
Total Alkalinity	SM2320B	119	125	119	mg/L	20
Total Dissolved Solids	SM2540C	641	465	605	mg/L	10
Total Hardness	SM2340C	259	186	203	mg/L	10
Calcium Hardness	SM2340C	148	101	105	mg/L	10
Carbonate	Calculation	0	0	0	mg/L	
Bicarbonate	Calculation	145	152	145	mg/L	
Turbidity	EPA180.1	0.24	0.10	0.09	ntu	0.041
Color	SM2120C	1	2	3	color	1
Bromide	EPA300.0	ND	ND	0.153	mg/L	0.1
Chloride	EPA300.0	126	97.4	177	mg/L	0.5
Fluoride	EPA300.0	0.648	0.567	0.601	mg/L	0.02
Nitrate	EPA300.0	1.05	1.22	1.22	mg/L	0.40
Nitrate (as N)	EPA300.0	0.237	0.276	0.276	mg/L	
Ortho Phosphate	EPA300.0	ND	ND	ND	mg/L	0.1
Total Nitrogen	SM4500-N B	0.815	1.08	1.01	mg/L	0.156
Silica	SM4500-SiO2 E	8.10	12.4	6.88	mg/L	0.625
Sulfate	EPA300.0	215	125	133	mg/L	0.5
Aluminum	EPA200.8	ND	ND	ND	µg/L	5
Calcium	SM3111B	59.2	40.4	42	mg/L	
Copper	EPA200.8	1.52	3.93	2.2	µg/L	1
Iron	SM3111B	ND	ND	ND	µg/L	100
Lead	EPA200.8	ND	ND	ND	µg/L	0.5
Manganese	EPA200.8	18.9	11.1	0.786	µg/L	0.5
Magnesium	SM3111B	27.6	21.9	24.7	mg/L	3
Potassium	SM3111B	5.53	4.88	5.11	mg/L	0.5
Sodium	SM3111B	107	75.3	122	mg/L	20
Zinc	EPA200.8	ND	ND	ND	µg/L	5
Aggressive Index	Calculation	12.5	12.2	12	.	
Langlier Index	Calculation	0.67	0.38	0.2	.	
Total Organic Carbon	SM5310B	3.34	4.26	4.97	mg/L	0.3
Total THMs	EPA524.2	29.4	21.9	47.7	µg/L	0.4
HAA5	EPA552.2	NA	NA	NA	µg/L	1
Bromate	EPA300.1	NA	NA	---	µg/L	5
Chlorite	EPA300.1	---	---	0.434	mg/L	0.02
Chlorate	EPA300.1	---	---	0.218	mg/L	0.02
Perchlorate	EPA314.0	---	---	---	µg/L	2

Note: Color and Total Nitrogen are non-ELAP certified methods; however, these non-regulatory analysis fulfill our quality control requirements.

< = Less than

ND = Not Detected

--- = Not Sampled, Not Needed

MDL= Minimum Detection Limit

NR= Not Reportable

NA = Not Analyzed

NS= Not Sampled