

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

Analyte	Method	Miramar Effluent	Alvarado Effluent	Otay Effluent	Units	MDL
pH	SM4500-H+B	8.06	8.00	8.06	pH	
Conductivity	SM2510B	696	680	684	µmho/cm	
Total Alkalinity	SM2320B	91.3	91.0	80.3	mg/L	5
Total Dissolved Solids	SM2540C	412	395	412	mg/L	10
Total Hardness	SM2340C	177	169	159	mg/L	10
Calcium Hardness	SM2340C	108	102	98.1	mg/L	10
Carbonate	Calculation	0	0	0	mg/L	
Bicarbonate	Calculation	111	111	97.0	mg/L	
Turbidity	EPA180.1	0.100	0.100	0.050	ntu	0.041
Color	SM2120C	ND	ND	ND	color	1
Bromide	EPA300.0	ND	ND	ND	mg/L	0.1
Chloride	EPA300.0	82.0	85.3	92.3	mg/L	0.5
Fluoride	EPA300.0	0.695	0.690	0.679	mg/L	0.02
Silica	SM4500-SiO2 E	7.47	9.67	8.11	mg/L	0.625
Sulfate	EPA300.0	130	109	120	mg/L	0.5
Aluminum	EPA200.8	ND	ND	ND	µg/L	15
Calcium	Calculation	43.2	40.8	39.2	mg/L	
Copper	EPA200.8	2.15	2.72	2.03	µg/L	5
Iron	SM3111B	ND	ND	ND	µg/L	100
Lead	EPA200.8	ND	ND	ND	µg/L	5
Manganese	EPA200.8	4.54	9.52	ND	µg/L	5
Magnesium	SM3111B	17.0	16.8	15.2	mg/L	3
Potassium	SM3111B	3.93	3.79	3.67	mg/L	0.5
Sodium	SM3111B	74.6	69.2	84.4	mg/L	20
Zinc	EPA200.8	ND	ND	ND	µg/L	5
Aggressive Index	Calculation	12.0	11.9	11.9	.	
Langlier Index	Calculation	0.220	0.140	0.130	.	
Bromate	EPA300.1	---	ND	---	µg/L	5
Chlorite	EPA300.1	---	---	264	µg/L	20
Chlorate	EPA300.1	---	---	147	µg/L	20
Perchlorate	EPA314.0	---	---	---	µg/L	2
Boron	EPA200.8	---	---	---	µg/L	15
Total Organic Carbon	SM5310B	2.48	2.44	2.06	mg/L	0.3
Nitrate	EPA300.0	ND	ND	ND	mg/L	0.4
Nitrate (as N)	EPA353.2	0.105	0.136	0.179	mg/L	
Ortho Phosphate	EPA300.0	ND	ND	ND	mg/L	0.1
Total Nitrogen	SM4500-N B	NA	NA	NA	mg/L	0.2
Total THMs	EPA524.2	26.4	28.0	33.8	µg/L	0.4
HAA5	EPA552.2	8.15	6.98	3.40	µg/L	1

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

< = Less than

ND = Not Detected

--- = Not Sampled, Not Needed

MDL = Minimum Detection Limit

NR = Not Reportable

NA = Not Analyzed; No analyst available

NS = Not Sampled