



CENTRAL COAST WATER AUTHORITY
OLONIO PASS WATER TREATMENT PLANT
WATER QUALITY TABLE
 COVERING THE REPORTING PERIOD OF JANUARY-DECEMBER 2018

Please see last page for key to abbreviations.

Parameter	Units	State MCL	PHG (MCLG)	State DLR	Range Average	TREATED CCWA	SOURCE STATE WATER	Major Sources in Drinking Water
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PRIMARY STANDARDS--Mandatory Health-Related Standards

CLARITY (a)

Combined Filter Effluent Turbidity (a)	NTU	TT=<1 NTU every 4 hours TT=95% of samples <0.3 NTU	Range %	0 - 0.13 100%	NA NA	Soil runoff
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INORGANIC CHEMICALS

Aluminum	mg/L	1 (b)	0.6	0.05	Range Average	ND - 0.095 0.058	ND - 0.14 0.088	Erosion of natural deposits; residual from some surface water treatment processes
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DISTRIBUTION SYSTEM MONITORING

Total Chlorine Residual	mg/L	MRDL = 4.0	MRDLG = 4.0	NA	Range Average	1.76 - 3.2 2.32	NA NA	Drinking water disinfectant added for treatment
Total Coliform Bacteria (c)	--	5.0% of monthly samples	(0)	--	Range Average Highest	0 0 0%	NA NA NA	Naturally present in the environment
Total Trihalomethanes (d)	ug/L	80	NA	(0.5)	Range Average Highest LRAA	27 - 50 39 42.8	NA NA NA	By-product of drinking water chlorination
Haloacetic Acids (d)	ug/L	60	NA	(1) (e)	Range Average Highest LRAA	8.3 - 12 10 13.1	NA NA NA	By-product of drinking water chlorination

SECONDARY STANDARDS--Aesthetic Standards

Chloride	mg/L	500 (j)	NA	(1)	Range Average	39 - 140 81	34 - 142 78	Runoff/leaching from natural deposits; seawater influence
Color	ACU	15 (j)	NA	(3)	Range Average	ND ND	30 30	Naturally occurring organic materials
Corrosivity (Aggressivity Index) (i)	SU	non-corrosive	NA	(0.1)	Range Average	11 11	11 11	
Iron, Total	mg/L	0.3 (j)	NA	0.1	Range Average	ND ND	0.17 0.17	Leaching from natural deposits; industrial wastes
Manganese, Total	ug/L	50 (j)	NA	(2)	Range Average	ND ND	22 22	
Odor Threshold	TON	3 (j)	NA	(1)	Range Average	2 2	2 2	Naturally occurring organic materials
Specific Conductance	uS/cm	1600 (j)	NA	NA	Range Average	294 - 592 481	105 - 702 451	Substances that form ions when in water; seawater influence
Sulfate	mg/L	500 (j)	NA	(0.5)	Range Average	55 55	30 30	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS)	mg/L	1000 (j)	NA	(10)	Range Average	220 220	190 190	Runoff/leaching from natural deposits
Turbidity (Monthly) (a)	NTU	5 (j)	NA	(0.1)	Range Average	ND - 0.12 0.05	ND - 10.2 1.73	Soil runoff

ADDITIONAL PARAMETERS (Unregulated)

2-Methylisoborneol	ng/L	NA	NA	(1)	Range Average	ND - 1 0.4	ND - 2 0.6	
Alkalinity (Total) as CaCO3 equivalents	mg/L	NA	NA	(2)	Range Average	44 - 78 61	46 - 86 66	Runoff/leaching from natural deposits; seawater influence
Calcium	mg/L	NA	NA	(1)	Range Average	14 14	15 15	Runoff/leaching from natural deposits; seawater influence

Chromium, Hexavalent	ug/L	NA	0.02	NA	Range	0.058	0.064	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits
					Average	0.058	0.064	
Geosmin	ng/L	NA	NA	(1)	Range	ND - 1	ND - 2	
					Average	0.6	0.6	
Hardness (Total) as CaCO ₃	mg/L	NA	NA	(3)	Range	62 - 140	58 - 142	Leaching from natural deposits
					Average	96	96	
Heterotrophic Plate Count (f)	CFU/mL	TT	NA	NA	Range	0 - 1	NA	Naturally present in the environment
					Average	0	NA	
Magnesium	mg/L	NA	NA	(0.1)	Range	7.7	8.0	Runoff/leaching from natural deposits; seawater influence
					Average	7.7	8.0	
pH	SU	NA	NA	(0.1)	Range	7.8 - 8.7	7.6 - 9.45	Runoff/leaching from natural deposits; seawater influence
					Average	8.3	8.5	
Potassium	mg/L	NA	NA	(1)	Range	1.8	1.9	Runoff/leaching from natural deposits; seawater influence
					Average	1.8	1.9	
Sodium	mg/L	NA	NA	(1)	Range	40	33	Runoff/leaching from natural deposits; seawater influence
					Average	40	33	
Total Organic Carbon (TOC) (g)	mg/L	TT	NA	(0.3)	Range	1.6 - 3.2	2.4 - 5	Various natural and man made sources
					Average	2.1	3.3	

ABBREVIATIONS AND NOTES

Footnotes:

- Turbidity (NTU) is a measure of the cloudiness of the water and it is a good indicator of the effectiveness of our filtration system. Monthly turbidity values are listed in the Secondary Standards section.
- Aluminum has a Secondary MCL of 0.2 ppm.
- Total coliform MCLs: Systems that collect ≥ 40 samples/month no more than 5.0% of the monthly samples may be Total Coliform positive. Systems that collect < 40 samples per month no more than 1 positive sample per month may be Total Coliform positive.
Fecal coliform/E. coli MCLs: The occurrence of 2 consecutive Total Coliform positive samples, one of which contains fecal coliform/E. coli, constitutes an acute MCL violation.
- Compliance based on the running quarterly annual average of distribution system samples.
- Monochloroacetic Acid (MCAA) has a DLR of 2.0 ug/L while the other four Haloacetic Acids have DLR's of 1.0 ug/L.
- Pour plate technique
- TOCs are taken at the treatment plant's combined filter effluent.
- State MCL is 45 mg/L as NO₃, which equals 10 mg/L as N.
- AI ≥ 12.0 = Non-aggressive water
AI (10.0 - 11.9) = Moderately aggressive water
AI ≤ 10.0 = Highly aggressive water
Reference: ANSI/AWWA Standard C400-93 (R98)
- Secondary MCL

Abbreviations

ACU = Apparent Color Units
 CCWA = Central Coast Water Authority
 CFU/ml = Colony Forming Units per milliliter
 DLR = Detection Level for purposes of Reporting
 MCL = Maximum Contaminant Level
 MCLG = Maximum Contaminant Level Goal
 MRDL = Maximum Residual Disinfectant Level
 MRDLG = Maximum Residual Disinfectant Level Goal
 NA = Not Applicable
 NTU = Nephelometric Turbidity Units
 pCi/L = PicoCuries per liter
 PHG = Public Health Goal
 ppb = parts per billion, or micrograms per liter ($\mu\text{g/L}$)
 ppm = parts per million, or milligrams per liter (mg/L)
 TON = Threshold Odor Number
 TT = Treatment Technique
 LRAA = Locational Running Annual Average