



**CENTRAL COAST WATER AUTHORITY
POLONIO PASS WATER TREATMENT PLANT
WATER QUALITY TABLE**

COVERING THE REPORTING PERIOD OF JANUARY-DECEMBER 2017

Please see last page for key to abbreviations.

Parameter	Units	State MCL	PHG (MCLG)	State DLR	Range Average	TREATED	SOURCE	Major Sources in Drinking Water
						CCWA	STATE WATER	

PRIMARY STANDARDS--Mandatory Health-Related Standards

CLARITY (a)

Combined Filter Effluent Turbidity (a)	NTU	TT=<1 NTU every 4 hours			Range	0.04 - 0.18	NA	Soil runoff
		TT=95% of samples <0.3 NTU			%	100%	NA	

INORGANIC CHEMICALS

Aluminum	ppm	1 (b)	0.6	0.05	Range	ND - 0.11	ND - 0.77	Residue from water treatment process; erosion of natural deposits
					Average	0.066	0.26	
Nitrate as Nitrogen	ppm	10 (h)	10	0.4	Range	0.44	0.56	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
					Average	0.44	0.56	

DISTRIBUTION SYSTEM MONITORING

Total Chlorine Residual	ppm	MRDL = 4.0	MRDLG = 4.0	NA	Range	1.1 - 3.1	NA	Measurement of the disinfectant used in the production of drinking water
					Average	2.2	NA	
Total Coliform Bacteria (c)	--	5.0% of monthly samples	(0)	--	Range	0	NA	Naturally present in the environment
					Average	0	NA	
					Highest	0%	NA	
Total Trihalomethanes (d)	ppb	80	NA	NA	Range	26 - 55	NA	By-product of drinking water chlorination
					Average	36	NA	
					Highest LRAA	43.5	NA	
Haloacetic Acids (d)	ppb	60	NA	(e)	Range	6.2 - 22	NA	By-product of drinking water chlorination
					Average	14.2	NA	
					Highest LRAA	15.2	NA	

SECONDARY STANDARDS--Aesthetic Standards

Chloride	ppm	500	NA	NA	Range	8 - 145	8 - 142	Runoff/leaching from natural deposits; seawater influence
					Average	39	36	
Color	ACU	15	NA	NA	Range	ND	25	Naturally occurring organic materials
					Average	ND	25	
Corrosivity (Aggressivity Index) (i)	None	non-corrosive	NA	NA	Range	11	11	Balance of hydrogen, carbon, & oxygen in water, affected by temperature & other factors
					Average	11	11	
Odor Threshold	TON	3	NA	1	Range	1.0	ND	Naturally occurring organic materials
					Average	1.0	ND	
Specific Conductance	uS/cm	1600	NA	NA	Range	148 - 758	105 - 702	Substances that form ions when in water; seawater influence
					Average	306	265	
Sulfate	ppm	500	NA	NA	Range	30	13	Runoff/leaching from natural deposits; industrial wastes
					Average	30	13	
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	Range	77 - 394	55 - 365	Runoff/leaching from natural deposits;
					Average	165	142	
Turbidity (Monthly) (a)	NTU	5	NA	NA	Range	0.04 - 0.09	0.43 - 49.3	Soil runoff
					Average	0.05	7.7	

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ADDITIONAL PARAMETERS (Unregulated)								
Alkalinity (Total) as CaCO ₃ equivalents	ppm	NA	NA	NA	Range	24 - 74	21 - 78	Runoff/leaching from natural deposits; seawater influence
					Average	44	48	
Calcium	ppm	NA	NA	NA	Range	18 -62	18 - 60	Runoff/leaching from natural deposits; seawater influence
					Average	34	35	
Chromium, Hexavalent	ppb	NA	0.02	NA	Range	0.050	0.051	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits
					Average	0.050	0.051	
Hardness (Total) as CaCO ₃	ppm	NA	NA	NA	Range	32 -140	32 -140	Leaching from natural deposits
					Average	67	68	
Heterotrophic Plate Count (f)	CFU/mL	TT	NA	NA	Range	0 - 22	NA	Naturally present in the environment
					Average	0.8	NA	
Iron, Total	ppb	300	NA	100	Range	ND	760	Leaching from natural deposits, industrial wastes
					Average	ND	760	
Magnesium	ppm	NA	NA	NA	Range	4.8	4.6	Runoff/leaching from natural deposits; seawater influence
					Average	4.8	4.6	
Manganese, Total	ppb	NA	NA	NA	Range	ND	39	Runoff/leaching from natural deposits; seawater influence
					Average	ND	39	
2-Methylisoborneol	ng/L	NA	NA	NA	Range	1 -3	1 - 3	
					Average	1.6	2.1	
pH	pH Units	NA	NA	NA	Range	8.03 - 8.50	7.50 - 8.55	Runoff/leaching from natural deposits; seawater influence
					Average	8.29	7.80	
Potassium	ppm	NA	NA	NA	Range	1.7	1.7	Runoff/leaching from natural deposits; seawater influence
					Average	1.7	1.7	
Sodium	ppm	NA	NA	NA	Range	24	14	Runoff/leaching from natural deposits; seawater influence
					Average	24	14	
Total Organic Carbon (TOC) (g)	ppm	TT	NA	0.30	Range	1.6 - 2.7	2.9 - 6.1	Various natural and man made sources
					Average	2.0	3.6	

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)

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 (µg/L)
 ppm = parts per million, or milligrams per liter (mg/L)
 TON = Threshold Odor Number
 TT = Treatment Technique
 LRAA = Locational Running Annual Average