

## CENTRAL COAST WATER AUTHORITY POLONIO PASS WATER TREATMENT PLANT 1999 ANNUAL WATER QUALITY REPORT

Please see last page for key to abbreviations.

Please see last page for key	to abbievi	ations.		Range	TREATED		SOURCE		
Parameter	Units	State MCL	PHG (MCLG)	Average Highest	CCWA PPWTP		STATE WATER	Major Sources in Drinking Water	
PRIMARY STAND	ARDS-	Mandat	ory Heal	th-Relate	ed Standards	3			
CLARITY									
Combined Filter Ef-		5.0 &		Highest	0.07				
fluent Turbidity	NTU	0.5 (a)	NS	% < 0.5	100%			Soil runoff	
MICROBIOLOGICAL (b)	)								
Total Coliform				Range	0 - 1.7%		NS		
Bacteria				Average	0.21%		NS		
(Distr. System-Wide)	(b)	5.0%	(0)	Highest	1.7%		NS	Naturally present in the environment	
Fecal Coliform and				Range	0 Positives		NS		
E. coli				Average	0 Positives		NS		
(Distr. System-Wide)	(b)	(b)	(0)	Highest	0 Positives		NS	Human and animal fecal waste	
ORGANIC CHEMICALS									
				Range	23.0 - 31.2		NC		
Total Trihalo-				Average	28.6		NC	By-product of drinking water	
methanes (c)	ppb	100	n/a	Highest	31.2		NC	chlorination	
INORGANIC CHEMICA	LS								
				Range	0.09 - 0.25		ND-0.74		
				Average	0.09		0.31	Residue from water treatment process;	
Aluminum (d)	ppm	1	n/a	Highest	0.25		0.74	Erosion of natural deposits	
				Range	ND - 2.1		ND-3.00		
				Average	0.30		1.05	Erosion of natural deposits; glass &	
Arsenic	ppb	50	n/a	Highest	2.1		3.00	electronics production wastes	
				Range	ND				
				Average	ND			Internal corrosion of asbestos cement	
Asbestos	MFL	7	(7)	Highest	ND		2.1	pipes; erosion of natural deposits	
				Range	ND - 0.03		ND-0.04		
				Average	0.00		ND	Internal corrosion of household pipes;	
Copper	ppm	AL=1.3	0.17	Highest	0.03		0.04	erosion of natural deposits	
				Range	0.07-0.09		0.08-0.09		
L		_	_	Average	0.08		0.08	Erosion of natural deposits; water	
Fluoride	ppm	2	1	Highest	0.09		0.09	additive that promotes strong teeth	
				Range	NC		NC	<b>.</b>	
Nitrata (aa NI) (a)		10	10	Average	NC 1.40		NC 1.20	Runoff & leaching from fertilizer use;	
Nitrate (as N) (e)	ppm	10	10	Highest	1.40		1.20	sewage; erosion of natural deposits	
RADIONUCLIDES (f)				· · ·	0.70 4.0-				
				Range	0.78 - 1.21			<u> </u> ,	
Gross Alpha	0:"	4.5	(0)	Average	1.0		0.04	Erosion of	
Particle Activity	pCi/L	15	(0)	Highest	1.21		2.34	natural deposits	

Please see last page for key to abbreviations.

Please see last page for ke	,			Range	TREATED		SOURCE			
		State	PHG	Average	CCWA		STATE			
Parameter	Units	MCL	(MCLG)	Highest	PPWTP		WATER	Major Sources in Drinking Water		
SECONDARY STANDARDSAesthetic Standards										
				Range	50 - 72		30-70			
				Average	61	1	52	Runoff/leaching from natural deposits;		
Chloride	ppm	500	NS	Highest	72		70	seawater influence		
				Range	1 - 3	1	2-22			
				Average	1.83		13			
Color	Units	15	NS	Highest	3		22	Naturally occurring organic materials		
				Range			n/a			
		non-		Average	non-		n/a	Balance of hydrogen, carbon, & oxygen		
Corrosivity		corrosive	NS	Highest	corrosive		n/a	in water; affected by temp., other factors		
				Range	86 - 106		86-106			
Hardness				Average	96		96			
(Total Hardness)	ppm	NS	NS	Highest	106		106	Leaching from natural deposits		
				Range	< 1 - 1		NS			
Heterotrophic Plate				Average	< 1		NS			
Count (h)	CFU/mL	NS	NS	Highest	1		NS	Naturally present in the environment		
				Range	ND		64-868			
				Average	ND		371	Leaching from natural deposits;		
Iron	ppb	300	NS	Highest	ND		868	industrial wastes		
				Range	ND		ND-36			
				Average	ND		9			
Manganese	ppb	50	NS	Highest	ND		36	Leaching from natural deposits		
				Range	ND		2.5-5.0			
				Average	ND		3.5			
Odor Threshold	Units	3	NS	Highest	ND		5.0	Naturally occurring organic materials		
				Range	33 - 62		28-57			
				Average	48		43	Runoff/leaching from natural deposits;		
Sodium	ppm	NS	NS	Highest	62		57	seawater influence		
	µmho/			Range	335 - 548		308-518	Substances that form ions		
Specific				Average	446		420	when in water;		
Conductance	cm	1600	NS	Highest	548		518	seawater influence		
				Range	35 - 79		25-65	Describing the second of the s		
G 16 4		<b>5</b> 00		Average	53		42	Runoff/leaching from natural deposits;		
Sulfate	ppm	500	NS	Highest	79	4	65	industrial wastes		
Tatal Disease at				Range	222 - 510	1	187-296	Dura (file a shi a mita a sa		
Total Dissolved		4000		Average	300		243	Runoff/leaching from natural deposits;		
Solids	ppm	1000	NS	Highest	510	4	296	seawater influence		
				Range	0.04 - 0.07		3.6-9.8			
To code the transfer of the transfer of	N.T.	_	NO	Average	0.04		5.6	0 - 11 11		
Turbidity (Monthly)	NTU	5	NS	Highest	0.07		9.8	Soil runoff		

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				Range	TREATED		SOURCE	
Parameter	Units	State MCL	PHG (MCLG)	Average Highest	CCWA PPWTP		STATE WATER	Major Sources in Drinking Water
<b>Additional Paran</b>	neters (Ui	nregula	ted)					
				Range	62 - 76		67-83	
				Average	69		74	Runoff/leaching from natural deposits;
Alkalinity	ppm			Highest	76		83	seawater influence
				Range	16 - 27		16-28	
				Average	21		21	Runoff/leaching from natural deposits;
Calcium	ppm			Highest	27		28	seawater influence
				Range	12.7 - 28.4		n/a	
				Average	17.1		n/a	By-product of drinking water
Haloacetic acids	ppb			Highest	28.4		n/a	chlorination
				Range	8.0 - 14.0		8-15	
				Average	11.6		12	Runoff/leaching from natural deposits;
Magnesium	ppm			Highest	14.0		15	seawater influence
				Range	7.99 - 8.22		8.19-8.87	
	рН			Average	8.11		8.52	Runoff/leaching from natural deposits;
pН	Units			Highest	8.22		8.87	seawater influence
				Range	1.6 - 2.9		1.6-2.9	
				Average	2.3		2.4	Runoff/leaching from natural deposits;
Potassium	ppm			Highest	2.9	1	2.9	seawater influence
				Range	1.8 - 2.12		n/a	
Total chlorine				Average	2.0		n/a	Measurement of the disinfectant
residual	ppm			Highest	2.2		n/a	used in the production of drinking water

## ABBREVIATIONS AND NOTES

n/a = not applicable

NS = No Standard

NC = Not Collected

ND = None Detected. Detection Limits for the purposes of reporting (DLRs) available on request.

µmho/cm = micromhos per centimeter

- (a) The turbidity level of the filtered water shall be less than or equal to 0.5 NTU in 95% of the measurements taken each month and shall not exceed 5.0 NTU at any time. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Monthly turbidity values are listed in the Secondary Standards section.
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples 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. These MCLs were not violated in 1999. Results are based on the distribution system's highest percent positives. Compliance is based on the combined distribution system sampling from all the filtration plants. 1,888 samples were analyzed in 1999.
- c) Calculated from the highest of quarterly filtration plant effluent samples. Compliance is based on a running annual average of more than 44 quarterly distribution system samples, which was 36.3 ppb for 1999.
- (d) Aluminum has a secondary MCL of 200 ppb (0.2 ppm).
- (e) State MCL is 45 mg/L as Nitrate, which equals 10.16 mg/L as N.
- (f) Results are for the 1998 calendar year.

  Water utilities are required to make these surveys every four years.
- (g) Standard is for Radium-226 and -228 combined.
- (I) Pour plate technique, 48-hour incubation at 35°C, monthly averages.

## **California DHS Abbreviations**

AL = Regulatory Action Level

MCL = Maximum Contaminant Level

PHG = Public Health Goal

MCLG = Maximum Contaminant Level Goal

MFL = million fibers per liter

NTU = Nephelometric Turbidity Units pCi/L = PicoCuries per liter

ppm = parts per million, or

milligrams per liter (mg/L)

ppb = parts per billion, or

micrograms per Liter (µg/L)

ppt = parts per trillion, or

nanograms per liter (ng/L)

ppq = parts per quadrillion, or

picograms per liter (pg/L)

TT = Treatment Technique