

2006 WATER QUALITY DATA TABLE for CAYUCOS

During the year 2006, hundreds of water samples were collected in order to determine the presence or absence of any biological, radioactive, inorganic or organic contaminants in your drinking water. The following table lists all of the drinking water contaminants that were detected in 2006 or in the most recent sampling event prior to 2006. The presence of these contaminants in water does not necessarily indicate that the water poses a health risk. The California Department of Health Services does not require us to monitor for certain contaminants every year, because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data may be more than one year old, but is still representative of the water quality. In these cases, the most recent sample data are included along with the year in which the sample was collected.

TREATMENT of SURFACE WATER SOURCES

The treatment techniques used at the Cayucos Water Treatment Plant are filtration and chlorination.

Turbidity Performance Standard - Turbidity is a measure of the cloudiness of the water. We monitor turbidity because it is a good indicator of the effectiveness of our filtration system and overall water quality. When turbidity results meet performance standards, we are considered to be in compliance with filtration requirements.

The turbidity of filtered water must: 1 - Be less than or equal to 0.3 NTU in 95% of the measurements in a month. 2 - Not exceed 1.0 NTU for more than eight consecutive hours. 3 - Not exceed 5 NTU at any time.	Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1: <u>100%</u> Highest single turbidity measurement during the month: <u>0.19 NTU</u> Number of violations of any surface water treatment requirements: <u>0</u>
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DETECTION OF CONTAMINANTS WITH PRIMARY DRINKING WATER STANDARDS: Regulated in Order to Protect Against Possible Adverse Health Effects

MICROBIOLOGICAL CONTAMINANTS

Contaminant	Reporting Units	Where Sampled	Year Sampled	Average	Range	MCL	PHG (MCLG)	Potential Source of Contamination
Total Coliform Bacteria	Present or Absent	Distribution	2006	ND	ND	More than 1 sample in a month with a detection	(0)	Naturally present in the environment
Turbidity	NTU	Distribution	2006	0.09	0.05 - 0.20	TT (Treatment Technique)	NA	Surface water runoff
Heterotrophic Plate Count	CFU/mL	Distribution	2006	2	ND - 39	TT = adequate disinfection (HPC < 500 CFU/mL)	(0)	Naturally present in the environment

LEAD AND COPPER AT CONSUMER'S HOMES

Contaminant	Reporting Units	Where Sampled	Year Sampled	No. of samples collected	90th percentile level detected	No. of sites exceeding the action level	Action Level	PHG	Potential Source of Contamination
Lead	ppb	Homes	2005	10	ND	0	15	2	Internal corrosion of household water plumbing systems; erosion of natural deposits
Copper	ppb	Homes	2005	10	480	0	1300	170	

DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BYPRODUCT PRECURSORS

Contaminant	Reporting Units	Where Sampled	Year Sampled	Highest Running Annual Average	Range Detected	MCL	PHG	Potential Source of Contamination
Total Trihalomethane	ppb	Distribution	2006	67	59-72	RAA = 80	NA	Byproduct of drinking water chlorination
Haloacetic Acids	ppb	Distribution	2006	30	22-32	RAA = 60	NA	
Chlorine Residual	ppm	Distribution	2006	0.80 (Yearly Average)	0.17 - 1.50	4.0 (as Cl ₂)	4	Drinking water disinfectant added for treatment
Total Organic Carbon (Control of DBP precursors)	Percent removal	Treatment Plant	2006	32% (Yearly Average)	19% - 45%	TT	NA	Various natural and manmade sources

2006 Water Quality Data for Cayucos (continued)

RADIOACTIVE CONTAMINANTS							
Contaminant	Reporting Units	Year Sampled	Treated Water Average (and Range)	CAWO Well (provided 6% of water) Average (and Range)	MCL	PHG (MCLG)	Potential Source of Contamination
Gross Alpha Particle Activity	pCi/L	2004	2.31 (1.53 - 3.00)	1.85 (1.15 - 2.59)	15	(0)	Erosion of natural deposits
Radium 228	pCi/L	2004	0.34 (0.27 - 0.461)	0.29 (ND - 0.554)	Combined Radium=5	(0)	
INORGANIC CONTAMINANTS							
Aluminum	ppb	2006	83 (32 - 130)	ND	1000	600	Erosion of natural deposits; treatment process residue
Arsenic	ppb	2006	1.6	ND	10	0.004	Erosion of natural deposits; runoff from orchards
Barium	ppb	2006	75	23	1000	2000	Erosion of natural deposits
Fluoride	ppm	2006	0.3	0.3	2	1	
Nitrate	ppm	2006	0.53	4.9 (2.6 - 8.4)	45	45	
Detection of Contaminants with a Secondary Drinking Water Standard (to protect odor, taste, and appearance)							
Contaminant	Reporting Units	Year Sampled	Treated Water Average (and Range)	CAWO Well (provided 6% of water) Average (and Range)	MCL	Potential Source of Contamination	
Aluminum	ppb	2006	83 (32 - 130)	ND	200	Erosion of natural deposits; treatment process residue	
Chloride	ppm	2006	27	42 (40 - 44)	500	Runoff/leaching from natural deposits; seawater influence	
Manganese	ppb	2006	ND	21 (ND - 23)	50	Leaching from natural deposits	
Specific Conductance	micromohs/cm	2006	620	800 (790 - 850)	1600	Substances that form ions when in water; seawater influence	
Sulfate	ppm	2006	69	43 (40 - 46)	500	Runoff/leaching from natural deposits	
Turbidity	NTU	2006	0.09 (0.04 - 0.22)	0.11 (0.07 - 0.23)	5	Soil Runoff	
Total Dissolved Solids	ppm	2006	430	490 (460 - 510)	1000	Runoff/leaching from natural deposits	
Contaminant	Reporting Units	Year Sampled	Distribution System Average (and Range)		MCL	Potential Source of Contamination	
Odor - Threshold	TON	2006	1.4 (1.0 - 2.0)		3	Naturally occurring organic materials	
Color	color units	2006	1 (ND - 1)		15		
Detection of Contaminants without a Drinking Water Standard							
Contaminant	Reporting Units	Year Sampled	Treated Water Average (and Range)	CAWO Well (provided 6% of water) Average (and Range)	MCL	Potential Source of Contamination	
Alkalinity as CaCO3	ppm	2006	230	340 (320 - 370)	NS	Runoff/leaching from natural deposits; seawater influence	
Calcium	ppm	2006	47	58 (54 - 63)	NS		
Hardness as CaCO3	ppm	2006	270	350 (330 - 360)	NS	Generally found in ground and surface water	
Magnesium	ppm	2006	38	50 (46 - 53)	NS	Runoff/leaching from natural deposits; seawater influence	
pH		2006	8.22	7.66 (7.52 - 7.91)	NS		
Sodium	ppm	2006	35	46 (45 - 48)	NS		