



CCWA

Please see last page for key to abbreviations.

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

**CLARITY (a)**

Combined Filter Effluent Turbidity	NTU	TT	NA		Range Average	0.04 - 0.24 0.06	NA NA	Soil runoff
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**MICROBIOLOGICAL (b)**

Total Coliform Bacteria (Distribution System)		5.0%	(0)	--	Range Average Highest	0.0% - 0.8% 0.1% 0.8%	NA	Naturally present in the environment
Fecal Coliform and E. coli (Distribution System)			(0)	--	Range Average Highest	0 Positives 0 Positives 0 Positives	NA	Human and animal fecal waste

**ORGANIC CHEMICALS**

Total Trihalomethanes (c) (Distribution System)	ppb	80	NA	0.5	Range Average	29 - 62 54	ND ND	By-product of drinking water chlorination
Haloacetic Acids (c) (Distribution System)	ppb	60	NA	1.0	Range Average	3 - 32 26	NC NC	By-product of drinking water chlorination
Methyl-tert-butyl-ether (MTBE) (d)	ppb	13	13	3	Range Average	ND ND	ND ND	Leaking underground gasoline storage tanks and pipelines

**INORGANIC CHEMICALS**

Aluminum (d)	ppm	1	0.6	0.05	Range Average	ND - 0.06 ND	0.18 - 0.23 0.21	Residue from water treatment process; Erosion of natural deposits
Asbestos	MFL	7	(7)	0.2	Range Average	ND ND	2.10 2.10	Asbestos cement pipes internal corrosion; natural deposits; erosion
Fluoride	ppm	2	1	0.1	Range Average	ND ND	0.11 0.11	Erosion of natural deposits; water additive for tooth health
Nitrate (as NO <sub>3</sub> )	ppm	45	45	2	Range Average	2.86 2.86	2.77 2.77	Runoff & leaching from fertilizer use; sewage; natural erosion
Nitrate and Nitrite (as N)	ppm	10	10	0.4	Range Average	0.65 0.65	0.63 0.63	Runoff & leaching from fertilizer use; sewage; natural erosion
Total chlorine residual (Distribution System)	ppm	MRDL = 4.0	MRDLG = 4.0	--	Range Average	1.2 - 2.1 1.6	NA NA	Measurement of the disinfectant used in the production of drinking water

**RADIONUCLIDES (e)**

Gross Alpha Particle Activity	pCi/L	15	(0)	1	Range Average	0.78 - 2.98 1.46	0.73 - 2.34 1.49	Erosion of natural deposits
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**SECONDARY STANDARDS--Aesthetic Standards**

Chloride	ppm	500	NA	--	Range Average	50 - 138 89	48 - 135 86	Runoff/leaching from natural deposits; seawater influence
Color (ACU)	Units	15	NA	--	Range Average	0 - 6 2	27 - 112 52	Naturally occurring organic materials
Corrosivity	SI non-corrosive	NA	NA	--	Range Average	non-corrosive	NA	Balance of hydrogen, carbon, & oxygen in water; affected by temp., other factor
Iron	ppb	300	NA	100	Range Average	ND ND	310 310	Leaching from natural deposits; industrial wastes
Manganese	ppb	50	NA	20	Range Average	ND ND	25 25	Leaching from natural deposits
Odor Threshold	Units	3	NA	--	Range Average	(h) (h)	(h) (h)	Naturally occurring organic materials
Specific Conductance	µmho/cm	1600	NA	--	Range Average	489 489	440 440	Substances that form ions when in water; seawater influence.
Sulfate	ppm	500	NA	0.5	Range Average	75 75	47 47	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	1000	NA	--	Range Average	230 230	260 260	Runoff/leaching from natural deposits; seawater influence
Turbidity (Monthly)	NTU	5	NA	0.05	Range Average	0.04 - 0.07 0.06	1.9 - 6.8 4.4	Soil runoff

**Additional Parameters (Unregulated):**

Alkalinity	ppm	NA	NA	--	Range Average	54 - 92 79	70 - 101 86	Runoff/leaching from natural deposits; seawater influence
Calcium	ppm	NA	NA	--	Range Average	41 - 72 57	40 - 71 57	Runoff/leaching from natural deposits; seawater influence
Hardness (Total Hardness)	ppm	NA	NA	--	Range Average	86 - 132 115	88 - 132 115	Leaching from natural deposits
Heterotrophic Plate Count (f)	CFU/mL	NA	NA	--	Range Average	< 1 - 1 < 1	NA NA	Naturally present in the environment
Magnesium	ppm	NA	NA	--	Range Average	15 15	15 15	Runoff/leaching from natural deposits; seawater influence
pH	pH Units	NA	NA	--	Range Average	7.8 - 8.9 8.2	7.7 - 9.4 8.5	Runoff/leaching from natural deposits; seawater influence
Potassium	ppm	NA	NA	--	Range Average	2.5 2.5	2.7 2.7	Runoff/leaching from natural deposits; seawater influence
Sodium	ppm	NA	NA	--	Range Average	53 53	50 50	Runoff/leaching from natural deposits; seawater influence
Total Organic Carbon (g) (TOC)	ppm	TT	NA	--	Range Average	1.4 - 3.7 2.4	2.6 - 7.2 3.9	Various natural and manmade sources.

**Constituents of Concern:**

Boron	ppb	NA	AL=1,000	100	Range Average	NA NA	ND - 210 142	
Chromium VI	ppb	NA	NA	1	Range Average	NA NA	ND ND	
Perchlorate	ppb	NA	AL=4	4	Range Average	NA NA	ND ND	
Vanadium	ppb	NA	AL=50	3	Range Average	NA NA	ND - 4.8 1.70	

**ABBREVIATIONS AND NOTES**

**Footnotes:**

- (a) 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
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive. Fecal coliform/E. coli MCLs: The

**Abbreviations**

- AL = Regulatory Action Level
- ACU = Apparent Color Units
- CFU/ml = Colony Forming Units per milliliter
- DLR = Detection Level for purposes of Reporting
- MCL = Maximum Contaminant Level

- 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 2002. Results are on the distribution system's highest percent positives.
- Compliance is based on the combined samples from the distribution system and from the filtration plant. 1,400 samples were analyzed in 2002.
- (c) Compliance based on the running quarterly average of treatment plant effluent samples.
  - (d) Aluminum & MTBE have Secondary MCLs of 200 ppb & 5 ppb respectively.
  - (e) Results are from the 1998 survey.
  - (f) Water utilities are required to make these surveys every four years.
  - (g) Pour plate technique -- monthly averages.
  - (h) TOCs are taken at the treatment plant's combined filter effluent.
  - (i) CCWA has developed a flavor-profile analysis method that can more accurately detect odor occurrences. For more information, contact CCWA at (805-688-2292).

PHG = Public Health Goal  
MCLG = Maximum Contaminant Level Goal  
MRDL = Maximum Residual Disinfectant Level  
MRDLG = Maximum Residual Disinfectant Goal  
MFL = million fibers per liter  
NA = not applicable  
NC = Not Collected  
ND = None Detected  
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)  
SI = Saturation Index  
TOC = Total Organic Carbon  
TT = Treatment Technique  
µmho/cm = micromhos per centimeter  
(unit of specific conductance of water)



If you have any questions or comments regarding this site or the information contained herein, please send e-mail to [Sharon Robles](#), CCWA Secretary II.

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