

2007 Water Quality Data for San Miguel CSD

During 2007, hundreds of water samples were collected to determine the presence or absence of any biological, radioactive, inorganic or organic contaminants in your drinking water. Tables 1 through 7 list all of the drinking water contaminants that were detected in 2007 or in the most recent sampling event. The presence of these contaminants in water does not necessarily indicate that the water poses a health risk. The Department of Health Services does not require us to monitor for certain contaminants every year because the concentrations of these contaminants do not change significantly from year to year. Some of this data may be more than one year old, but it is still representative of the current water quality. In these cases, the most recent sample data are included along with the year in which the sample was collected.

DETECTION of PRIMARY DRINKING WATER STANDARDS (Regulated in Order to Protect Against Possible Adverse Health Effects)

Table 1 - Microbiological Contaminants

Contaminant	Reporting Units	Where Sampled	Year Sampled	Average Amount Detected	Range Detected	MCL	PHG (MCLG)	Potential Source of Contamination
Total Coliform Bacteria	MPN/100mL	Distribution System	2007	0	ND	two or more positive samples in a month	(0)	Naturally present in the environment
E. coli Bacteria	MPN/100mL	Distribution System	2007	0	ND	two or more positive samples in a month	(0)	Naturally present in the environment
Turbidity	NTU	Distribution System	2007	0.08	0.04 - 0.41	TT (Treatment Technique)	NA	Surface water runoff
Heterotrophic plate count	CFU/mL	Distribution System	2007	11	< 1 - 100	TT = adequate disinfection (HPC < 500 CFU/mL)	(0)	Naturally present in the environment

Table 2 - 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 and fixtures; erosion of natural deposits
Copper	ppb	Homes	2005	10	97	0	1300	170	

Table 3 - Radioactive Contaminants

Contaminant	Reporting Units	Year Sampled	Level found	Range Detected	MCL	PHG (MCLG)	Potential Source of Contamination
Gross Alpha Particle Activity	pCi/L	2007	7	4.4 - 12	15	(0)	Erosion of natural deposits
Uranium	pCi/L	2007	18.0	16 - 20	30	(0)	Erosion of natural deposits

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Table 4 - Inorganic Contaminants

Contaminant	Reporting Units	Year Sampled	Level found	Range Detected	MCL	PHG (MCLG)	Potential Source of Contamination
Arsenic	ppb	2007	11	9.0 - 13	10	0	Erosion of natural deposits; residue from surface
Barium	ppb	2006	71.5	65 - 78	2	2	Erosion of natural deposits; runoff from orchards
Chromium	ppb	2006	1.6	1.0 - 2.1	100	100	Erosion of natural deposits
Fluoride	ppm	2006	0.4	0.4	4	4	Erosion of natural deposits
Mercury	ppb	2006	0.5	0.5	2	2	Erosion of natural deposits; runoff from landfills; runoff from cropland
Nitrate (as nitrate, NO3)	ppm	2007	20.2	11.0 - 51.4	45	45	Erosion of natural deposits

Table 5 - Detection of Contaminants with a Secondary Drinking Water Standard (Regulated in Order to Protect the Odor, Taste, and Appearance of Drinking Water)

Contaminant	Reporting Units	Year	Treated Water	Range Detected	MCL	Potential Source of Contamination
Chloride	ppm	2007	74.7	35 - 110	500	Runoff/leaching from natural deposits; seawater influence
Color	color units	2006	1.5	ND - 3.0	15	Naturally occurring organic materials
Iron	ppb	2007	ND	18 - 53	300	Leaching from natural deposits
Manganese	ppb	2007	ND	ND	50	Leaching from natural deposits
Specific Conductance	micromohs/cm	2007	937	690 - 1200	1600	Substances that form ions when in water
Sulfate	ppm	2007	107	57 - 170	500	Runoff/leaching from natural deposits
Turbidity (NTU)	ppm	2007	0.18	0.04 - 1.4	5	Soil Runoff
Total Dissolved Solids	ppm	2007	580	450 - 740	1000	Runoff/leaching from natural deposits

Contaminant	Reporting Units	Where Sampled	Year Sampled	Average Amount Detected	Range Detected	MCL	PHG	Potential Source of Contamination
Odor - Threshold	TON	Distribution	2007	1.3	1.0 - 2.0	3	NS	Naturally occurring organic materials
Color	color units	Distribution	2007	0.7	ND - 1.0	15	NS	Naturally occurring organic materials

Table 6 - Detection of Contaminants without a Drinking Water Standard

Contaminant	Reporting Units	Year Sampled	Treated Water Amount Detected	Range Detected	PHG	Potential Source of Contamination
Alkalinity as CaCO3	ppm	2007	253	240 - 270	NS	Runoff/leaching from natural deposits
Calcium	ppm	2007	44	19 - 61	NS	Runoff/leaching from natural deposits
Hardness as CaCO3	ppm	2007	280	120 - 380	NS	Generally found in ground and surface water
Magnesium	ppm	2007	38	14 - 54	NS	Runoff/leaching from natural deposits
pH	pH units	2007	7.8	7.66 - 7.98	NS	Runoff/leaching from natural deposits
Sodium	ppm	2007	100	71 - 120	NS	Runoff/leaching from natural deposits