2010 CITY OF SIERRA MADRE GROUNDWATER QUALITY [1]

Chemical	MCL	PHG or (MCLG)	Average Amount	Range of Detections	MCL Violations?	Most Recent Testing	Typical Source of Contaminant
Primary Drinking Water Standards--Health-Related Standards							
Organic Chemicals							
Tetrachloroethylene (ppb)	5	0.06	ND	ND	No	Monthly	Industrial discharge
Trichloroethylene (ppb)	5	1.7	ND	ND	No	Monthly	Industrial discharge
Inorganic Chemicals							
Arsenic (ppb)	10	0.004	<2	ND - 2.0	No	2008	Erosion of natural deposits
Nitrate as NO3 (ppm)[2]	45	45	12	7.4 - 22	No	Monthly	Fertilizers, Septic Tanks
Secondary Standards[3]							
Chloride (ppm)	500	n/a	9	7 - 12	No	2008	Erosion of natural deposits
Specific Conductance (µmho/cm)	1,600	n/a	391	345 - 430	No	2008	Substances that form ions in water
Sulfate (ppm)	500	n/a	22	15 - 35	No	2008	Erosion of natural deposits
Total Dissolved Solids (ppm)	1,000	n/a	216	192 - 242	No	2008	Erosion of natural deposits
Turbidity (NTU)	5	n/a	0.2	0.2 - 0.3	No	2008	Erosion of natural deposits
Unregulated Chemicals Requiring Monitoring							
Alkalinity, total as CaCO3 (ppm)	Not Regulated	n/a	162	150 - 172	n/a	2008	Run off / leaching from natural deposits
Boron (ppb)	NL = 1,000	na/	363	258 - 450	n/a	2003	Erosion of natural deposits
Calcium (ppm)	Not Regulated	n/a	47	37 - 58	n/a	2008	Run off / leaching from natural deposits
Hardness, total as CaCO3 (ppm)	Not Regulated	n/a	151	119 - 175	n/a	2008	Erosion of natural deposits
Hardness, total (grains/gal)	Not Regulated	n/a	8.8	6.9 - 10	n/a	2008	Erosion of natural deposits
Chromium, hexavalent (ppb)	Not Regulated	n/a	<1	ND - 1.4	n/a	2001	Industrial waste discharge; naturally present
Magnesium (ppm)	Not Regulated	n/a	9	5 - 13	n/a	2008	Run off / leaching from natural deposits
pH (pH Units)	Not Regulated	n/a	7.5	7.4 - 7.6	n/a	2008	Hydrogen ion concentration
Potassium (ppm)	Not Regulated	n/a	1.1	0.7 - 2.0	n/a	2008	Run off / leaching from natural deposits
Sodium (ppm)	Not Regulated	n/a	28	13 - 52	n/a	2008	Erosion of natural deposits
Total Organic Carbon (ppm)	TT [4]	n/a	0.3	ND - 0.6	n/a	Monthly	Naturally present in the groundwater
Vanadium (ppb)	NL = 50	n/a	6.8	ND - 11	n/a	2003	Erosion of natural deposits

2010 CITY OF SIERRA MADRE DISTRIBUTION SYSTEM WATER QUALITY

Bacterial Quality	MCL	MCLG	Highest Monthly # of Positives	MCL Violation ?	Most Recent Sampling	Typical Source of Contaminant
Total Coliform Bacteria	1	0	0	No	Weekly	Naturally present in the environment
No more than one monthly sample may be positive for total coliform bacteria.						

Chemical	MCL or (MRDL)	PHG or (MRDLG)	Average Amount	Range of Detections	MCL Violations?	Most Recent Sampling Date	Typical Source of Contaminant
Haloacetic Acids (ppb)	60	n/a	1.1	ND - 7.7	No	Quarterly	Byproducts of chlorine disinfection
Total Trihalomethanes (ppb)	80	n/a	8.4	ND - 39	No	Quarterly	Byproducts of chlorine disinfection
Chlorine Residual (ppm)	(4)	(4)	0.6	0.2 - 1.4	No	Weekly	Drinking water disinfectant
Color (color units)[3]	15	n/a	<1	ND - 5	No	Monthly	Naturally present in the groundwater
Fluoride (ppm)	2	1	1.1	0.6 - 1.6	No	Quarterly	Erosion of natural deposits
Odor (threshold odor number)[3]	3	n/a	1	1	No	Monthly	Naturally present in the groundwater
Turbidity (NTU)[3]	5	n/a	0.1	ND - 0.6	No	Monthly	Erosion of natural deposits

At-The-Tap Lead and Copper Testing	Action Level	PHG	90th Percentile Value	Sites Exceeding Action Level	AL Violations?	Typical Source of Contaminant
Copper (ppm)	1.3	0.3	0.33	0 / 30	No	Corrosion of household plumbing
Lead (ppb)	15	0.2	11	1 / 30	No	Corrosion of household plumbing

Every three years, 30 residences are tested for lead and copper at-the-tap. The most recent set of samples was collected in 2008. Lead was detected in five samples, one of which exceeded the lead Action Level (AL). Copper was detected in 21 samples, none of which exceeded the copper AL. An AL is the concentration of a contaminant which, if exceeded in more than 10 percent of the samples, triggers treatment or other requirements that a water system must follow. The City of Sierra Madre complies with the Lead and Copper ALs.

MCL = Maximum Contaminant Level; **MCLG =** Maximum Contaminant Level Goal; **MRDL** = Maximum Residual Disinfectant Level;
MRDLG = Maximum Residual Disinfectant Level Goal; **NL** = Notification Level; **n/a** = not applicable; **ND** = not detected; **NTU** = nephelometric turbidity units;
PHG = California Public Health Goal; **ppb** = parts-per-billion; **ppm** = parts-per-million; **TT** = Treatment Technique;
µmho/cm = micromho per centimeter; **<** = detected but average is less than the required reporting limit

[1] This table includes groundwater quality for water sampled at City of Sierra Madre's wells and tunnel.
Results are from the most recent testing performed pursuant to state and federal drinking water regulations.
[2] Nitrate levels are determined in the blended water served to our customers.
[3] Chemical is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).
[4] A treatment technique is a required process intended to reduce the level of contaminants in drinking water
that are difficult and sometimes impossible to measure directly.