2012 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 Stand	lardsHealth-	Related St	andards					
Organic Chemicals								
Tetrachloroethylene (ppb)	5	0.06	ND	ND	No	Monthly	Industrial discharge	
richloroethylene (ppb)	5	1.7	<0.5	ND - 0.54	No	Monthly	Industrial discharge	
norganic Chemicals								
-luoride (ppm)	2	1	0.96	0.65 - 1.4	No	2011	Erosion of natural deposits	
Nitrate as NO3 (ppm) <sup>[2]</sup>	45	45	10	3.5 - 20	No	Monthly/Quarterly	Fertilizers, Septic Tanks	
Secondary Standards <sup>[3]</sup>								
Chloride (ppm)	500	n/a	8.4	6.8 - 12	No	2011	Erosion of natural deposits	
Odor (threshold odor number)[3]	3	n/a	1	1	No	2011/2012	Naturally present in the groundwater	
Specific Conductance (µmho/cm)	1,600	n/a	300	280 - 350	No	2011	Substances that form ions in water	
Sulfate (ppm)	500	n/a	17	12 - 30	No	2011	Erosion of natural deposits	
Total Dissolved Solids (ppm)	1,000	n/a	230	210 - 280	No	2011	Erosion of natural deposits	
Turbidity (NTU)	5	n/a	0.059	ND - 0.3	No	2011/2012	Erosion of natural deposits	
Jnregulated Chemicals Requi	iring Monitori	ng						
Alkalinity, total as CaCO3 (ppm)	Not Regulated	n/a	150	140 - 160	n/a	2011	Run off / leaching from natural deposits	
Calcium (ppm)	Not Regulated	n/a	41	36 - 46	n/a	2011	Run off / leaching from natural deposits	
Hardness, total as CaCO3 (ppm)	Not Regulated	n/a	140	120 - 150	n/a	2011	Erosion of natural deposits	
Hardness, total (grains/gal)	Not Regulated	n/a	8	7 - 9	n/a	2011	Erosion of natural deposits	
Magnesium (ppm)	Not Regulated	n/a	9.1	6.6 - 12	n/a	2011	Run off / leaching from natural deposits	
H (pH Units)	Not Regulated	n/a	8.3	8.2 - 8.5	n/a	2011	Hydrogen ion concentration	
Potassium (ppm)	Not Regulated	n/a	1.1	0.8 - 1.8	n/a	2011	Run off / leaching from natural deposits	
Sodium (ppm)	Not Regulated	n/a	20	12 - 43	n/a	2011	Erosion of natural deposits	
Total Organic Carbon (ppm)	TT <sup>[4]</sup>	n/a	< 0.3	ND - 0.79	n/a	Monthly	Naturally present in the groundwater	

## 2012 CITY OF SIERRA MADRE DISTRIBUTION SYSTEM WATER QUALITY

Postorial Quality	MCL	MCLG	Highest Monthly # of Positives	MCL Violation ?	Most Recent Sampling	l ypical Source of Contaminant			
Bacterial Quality	MCL	MCLG	Positives	Violation:	Sampling				
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	0.4	ND - 1.1	No	Quarterly	Byproducts of chlorine disinfection
Total Trihalomethanes (ppb)	80	n/a	6.0	ND - 13	No	Quarterly	Byproducts of chlorine disinfection
Chlorine Residual (ppm)	(4)	(4)	0.67	0.23 - 0.98	No	Weekly	Drinking water disinfectant
Fluoride (ppm)	2	1	1.1	0.76 - 1.8	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) <sup>[3]</sup>	5	n/a	0.055	ND - 0.2	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	0.22		0 / 30	No	Corrosion of household plumbing
Lead (nnh)	15	0.2	ND		0 / 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 2011. Lead was not detected in any sample. Copper was detected in 20 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; 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; pmho/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.