

## SOURCES OF WATER

The Metropolitan Water District of Southern California (MWD) is a consortium of 26 cities and water districts that provides drinking water to nearly 19 million people in parts of Los Angeles, Orange, San Diego, Riverside, San Bernardino and Ventura counties. MWD supplies the City with water treated at the Weymouth Treatment Plant. Most of the water treated at this plant originates in the mountain ranges in seven western states, travels down the Colorado River and flows through MWD's 242-mile Colorado River Aqueduct. To a lesser degree, water supplied to the plant also comes from Northern California rivers and streams that feed the State Water Project's 444-mile California Aqueduct.

The plant uses conventional techniques to treat your water. This includes the coagulation process where aluminum sulfate and other chemical additives cling to particles in the water. These particles stick together and form large particles that will settle to the bottom of large sedimentation basins. Then, the water flows through coal and sand for filtration. Chloramines (chlorine plus ammonia) disinfection is used to kill remaining microorganisms, such as bacteria, and to keep the water safe as it travels to your tap. The water received from MWD is then mixed with the City's groundwater well located in the service area.

In December 2002, MWD completed a source water assessment of its Colorado River and State Water Project supplies. Colorado River water is considered to be most vulnerable to recreation, urban and storm water runoff, increasing urbanization in the watershed, and wastewater. The State Water Project is considered to be most vulnerable to urban and storm water runoff, wildlife, agriculture, recreation, and wastewater. A copy of the assessment can be obtained by contacting MWD at (213) 217-6850.

An assessment of the City's groundwater well was completed in 2014. The well is considered vulnerable to various contaminating activities including the following: automobile-repairs, gas stations, dry cleaners, landfills/dumps, and other chemical/industrial activities. A copy of the complete assessment may be viewed at: State Water Resources Control Board, Los Angeles Region, 320 West Fourth Street, Suite 200, Los Angeles, CA 90013 or by phone at (213) 576-6600.

## TO OUR CUSTOMERS:

Each year, the City provides this report to inform you, our customers, about the quality of the water you drink. We are proud to report that in 2014, your water met or surpassed all health-based drinking water standards.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

To meet these regulations, the City contracts with certified laboratories to perform water quality testing. We welcome your thoughts and suggestions to improve our service and delivery of the earth's most precious resource. Please visit our website, [www.lomita.com/cityhall](http://www.lomita.com/cityhall), or attend our City Council meetings (see additional information below).

Thank you for taking the time to read our annual water quality report. We look forward to another year of providing you with safe, reliable drinking water.

*Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo o hable con alguien que lo entienda bien.*

### Public Information & Contact Information

Regular City Council Meetings are held on the 2<sup>nd</sup> and 4<sup>th</sup> Wednesdays of each month at 6:30 p.m. at Lomita City Hall (24300 Narbonne Avenue, City of Lomita CA 90717).

For questions or comments regarding water quality or this report, please contact Mark McAvoy, Public Works Director at (310) 325-7110. To view this report on the internet, please visit

# CITY OF LOMITA



## ANNUAL WATER QUALITY REPORT

Water testing performed in 2014



## DRINKING WATER & YOUR HEALTH

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

## LEAD & COPPER

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

### TABLE DEFINITIONS

**90th Percentile:** Out of every 10 homes sampled, 9 were at or below this level.

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

**Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

## SAMPLING RESULTS

During the past year, your water was tested for chemical, physical, radiological and bacteriological parameters. We also test for additional organic and inorganic chemicals that are not regulated. The tables included in this report list all the substances that were detected. The presence of these substances in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table are from the testing performed last year. The State allows monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.



**Primary Drinking Water Standard (PDWS):** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

<b>ppb:</b> parts per billion (micrograms per liter)	<b>N/A:</b> Not applicable
<b>ppm:</b> parts per million (milligrams per liter)	<b>ND:</b> Non-detect
<b>µS/cm:</b> MicroSiemens per centimeter	<b>NL:</b> Notification level
<b>NTU:</b> Nephelometric turbidity unit	<b>pCi/L:</b> PicoCuries per liter
<b>TON:</b> Threshold Odor Number	

\* Chlorine, Fecal coliform and *e. coli*, HAA5, Total coliform bacteria, TTHMs, Color, Odor, Turbidity and pH were measured within the distribution system.

\*\* Iron, Manganese, TDS, Calcium, Hardness and Magnesium were measured after treatment.

\*\*\*Sampled in 2013.

## PRIMARY DRINKING WATER STANDARDS

Substance (Unit of measure)	MCL [MRDL]	PHG [MCLG]	City of Lomita Groundwater & Distribution		MWD Surface Water		Typical Source
			Range	Detected Average Level (2014)	Range	Detected Average Level (2014)	
Aluminum (ppm)***	1	0.6	N/A	ND	0.07 - 0.23	0.14	Erosion of natural deposits; residue from some surface water treatment processes
Chlorine (ppm)*	[4.0] as Cl <sub>2</sub>	MRDLG = 4 as Cl <sub>2</sub>	0.13 - 3.7	2.00	N/A	N/A	Drinking water disinfectant added for treatment
Combined Radium (pCi/L)	5	0	N/A	0.17	ND	ND	Erosion of natural deposits
Copper (ppm)***	AL = 1.3	0.3	N/A	0.07	ND	ND	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fecal coliform and <i>e. coli</i> [Total Coliform Rule] (# positive samples)*	A routine sample and repeat sample are total coliform, and one of these is also fecal coliform or <i>e. coli</i> positive	0	N/A	ND	N/A	ND	Human and animal fecal waste.
Fluoride (ppm)***	2	1	N/A	0.336	0.6 - 1.0	0.8	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha Particle Activity (pCi/L)	15	[0]	N/A	0	ND - 4	ND	Erosion of natural deposits
Gross Beta Particle Activity (pCi/L)	50	[0]	N/A	N/A	4 - 6	5	Decay of natural and man-made deposits
Haloacetic Acids [HAA5] (ppb)*	60	N/A	6.7 - 27.4	19.05	8.2 - 17	12	Byproduct of drinking water disinfection
Nitrate [as nitrate] (ppm)	45	45	N/A	ND	N/A	ND	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Total Coliform Bacteria [Total Coliform Rule] (# positive samples)*	More than 5.0% of monthly samples are positive	0	N/A	ND	N/A	ND	Naturally present in the environment
Total Trihalomethanes [TTHMs] (ppb)*	80	N/A	30.6 - 75.5	66.3	23 - 34	28	Byproduct of drinking water disinfection
Uranium (pCi/L)	20	0.43	N/A	0.438	2 - 3	3	Erosion of natural deposits

## LEAD & COPPER

Tap water samples were collected for lead and copper analyses from sample sites throughout the community

Substance (unit of measure)	Year Sampled	AL	PHG	90 <sup>th</sup> % Level	Sites above AL/Total Sites	Typical Source
Copper (ppm)	2014	1.3	0.3	0.34	0/33	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	2014	15	0.2	5.26	0/33	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

## SECONDARY WATER STANDARDS

Substance (Unit of measure)	MCL [MRDL]	PHG [MCLG]	City of Lomita Groundwater & Distribution		MWD Surface Water		Typical Source
			Range	Detected Average Level (2014)	Range	Detected Average Level (2014)	
Aluminum (ppm)***	200	600	N/A	ND	70 - 230	136	Erosion of natural deposits; residue from some surface water treatment processes
Chloride (ppm)***	500	N/A	N/A	164	86 - 92	89	Runoff/leaching from natural deposits; seawater influence
Color (units)*	15	N/A	0	0	1	1	Naturally occurring organic materials
Iron (ppb)**	300	N/A	ND	ND	ND	ND	Leaching from natural deposits; industrial wastes
Manganese (ppb)**	50	N/A	ND	ND	ND	ND	Leaching from natural deposits
Odor Threshold (ppb)*	3	N/A	0	0	2	2	Naturally occurring organic materials
Specific Conductance (µS/cm)***	1600	N/A	N/A	1320	964 - 1,010	987	Substances that form ions when in water; seawater influence
Sulfate (ppm)***	500	N/A	N/A	105	227 - 238	233	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)**	1000	N/A	672 - 706	685	604 - 641	623	Runoff/leaching from natural deposits
Turbidity (NTU)*	TT	N/A	ND - 0.45	ND	ND	ND	Soil runoff

## OTHER PARAMETERS

Substance (Unit of measure)	City of Lomita Groundwater & Distribution		MWD Surface Water	
	Range	Detected Average Level (2014)	Range	Detected Average Level (2014)
Alkalinity (ppm)***	N/A	303	127 - 128	128
Calcium (ppm)**	72 - 81	78.5	N/A	74
Hardness (ppm)**	280 - 310	304	284 - 294	289
Magnesium (ppm)**	24 - 28	26	25 - 26	25
pH (ppm)*	7.13 - 8.3	7.74	N/A	8.1
Potassium (ppm)***	N/A	7.43	4.4 - 4.7	4.6
Sodium (ppm)***	N/A	140	89 - 96	93

## UNREGULATED CONTAMINANT MONITORING RULE 3 (UCMR 3)

As part of the 1996 Amendments to the Federal Safe Drinking Water Act, the USEPA requires utilities to sample for emerging contaminants as part of the Unregulated Contaminant Monitoring Rule (UCMR). Every five (5) years the USEPA prepares a list of unregulated contaminants for utilities to analyze. UCMR results are then used to assist the development of future drinking water regulations. In May 2015, the final round of groundwater UCMR 3 sampling was completed. The final round of distribution system sampling will occur in August 2015. For more information please visit the USEPA website: <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3/>.

## WATER CONSERVATION

Due to California's unprecedented drought, the City of Lomita has adopted a Drought Response Level 1. Mandatory conservation measures include, but are not limited to, the following:

### Permissible Watering Schedule (June-October)

Day	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Odd Addresses	X			X		X	
Even Addresses			X		X		X

### Permissible Watering Schedule (November-May)

Day	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Odd Addresses				X			
Even Addresses			X				

- Landscape irrigation is prohibited between the hours of 10:00 a.m. and 8:00 p.m. on any day.
- Landscape irrigation using sprinklers is limited to no more than 10 minutes per watering station per day.

Please call (310) 325-7110 or visit [www.lomita.com/cityhall](http://www.lomita.com/cityhall) to get information regarding additional restrictions.