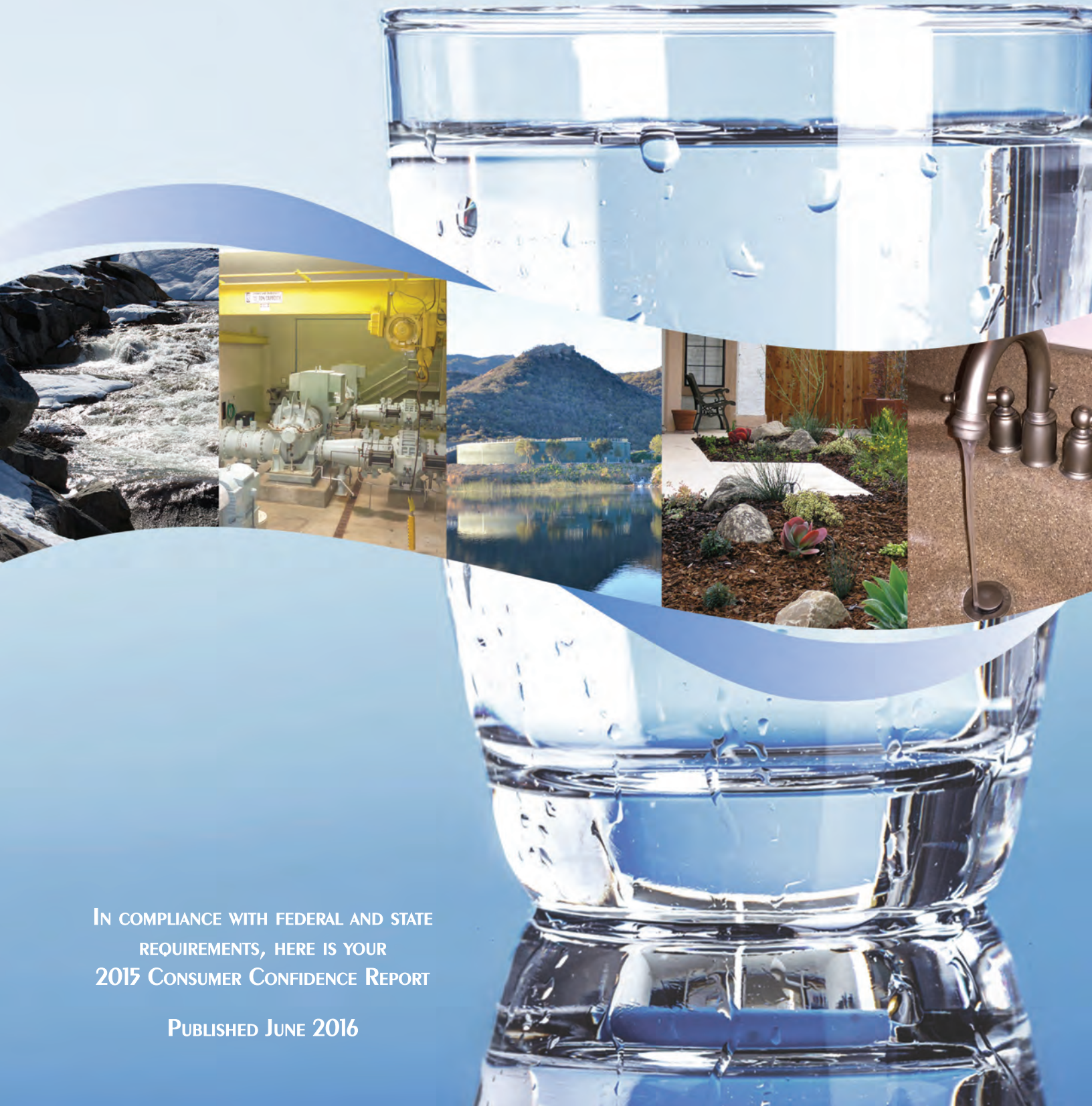


# WATER QUALITY REPORT

## LOOKING BEYOND THE FAUCET



IN COMPLIANCE WITH FEDERAL AND STATE  
REQUIREMENTS, HERE IS YOUR  
2015 CONSUMER CONFIDENCE REPORT

PUBLISHED JUNE 2016

Dear Las Virgenes Municipal Water District Customer,

Nothing is more fundamental to our quality of life than a dependable supply of clean, safe water.

This document is our annual report to you on the quality of the water we deliver to homes, schools and businesses in our service area. Once again, I am pleased to say the water we provide to LVMWD customers meets or exceeds all state and federal water quality standards.

In 2015, everyone's water awareness was elevated due to the fourth year of a record drought in California and the water crisis in Flint, Michigan. These events remind us that our supply and water quality should never be taken for granted.

Responding to the statewide call for conservation, LVMWD customers increased their water use efficiency in 2015. We thank all who reduced their usage and helped extend our water supply. The District's new water budget program will help keep customers actively engaged in managing their water use.

We've also been asked if our water supply is subject to lead contamination, and the answer is "no." LVMWD does not have any lead service lines and our water is non-corrosive, meaning it does not dissolve piping materials on its way to your tap. In compliance with regulations, we routinely test for the presence of lead at locations throughout the service area. You can find a summary of the results inside this report.

This annual report is required by state and federal law. It's also an opportunity for LVMWD to demonstrate the great care we take in safeguarding, testing and monitoring the water you use. I invite you to examine this report and visit our website to see the many different ways we work to provide you with excellent water and quality service every day of the year.

Sincerely,



David W. Pedersen, P.E.  
General Manager

## STAY INFORMED

LVMWD encourages you to stay informed about your water. Sign up for e-Notification at [www.LVMWD.com/e-notification](http://www.LVMWD.com/e-notification) to receive information on topics that interest you. Be sure to check the website frequently for timely information on water conservation and other topics.

The District publishes *The e-Current Flow* on our website at [www.LVMWD.com/e-Current-Flow](http://www.LVMWD.com/e-Current-Flow). The customer newsletter is also delivered with your bill.

The LVMWD Board of Directors meets at 5 p.m. on the second and fourth Tuesday of each month. Meetings are conducted at District Headquarters, 4232 Las Virgenes Rd., in Calabasas.

If you wish to speak with someone about your water service, contact Carol Palma, Customer Service Manager, at (818) 251-2200 or e-mail [Customer\\_Service@LVMWD.com](mailto:Customer_Service@LVMWD.com).



## WATER CONSERVATION

Most of the water delivered in the LVMWD service area is used outdoors. Many customers can do more to reduce outdoor water usage, including:

- ✓ Reducing the amount of area you irrigate by replacing lawn areas with drought-tolerant or “California-Friendly” plant varieties.
- ✓ If you have a swimming pool or spa, considering a cover for times when it is not in use. This will reduce water lost to evaporation.
- ✓ If you have a gardener or landscape maintenance contractor, discussing the importance of staying within your water budget. It is not necessary to water every day.
- ✓ Preventing runoff from irrigated areas onto adjacent properties or into storm drains.
- ✓ Checking your irrigation system for broken or misaligned sprinkler heads.
- ✓ Replacing your irrigation timer with a new “smart” weather-based irrigation controller.

Indoor use can be reduced by:

- ✓ Installing newer, high-efficiency toilets that use 1.28 gallons per flush (or less).
- ✓ Replacing older washing machines with a high-efficiency model.
- ✓ Using a water-efficient shower head and taking showers instead of baths.
- ✓ Only washing full loads of laundry and dishes.
- ✓ Fixing leaking faucets and toilets.
- ✓ Shutting off the water when brushing teeth or shaving.



## PROTECTING WATER RESOURCES

Protecting our water resources is everyone’s responsibility. We can do this by:

- ✗ Eliminating excess use of lawn and garden fertilizers and pesticides—they contain hazardous chemicals that can reach drinking water sources.
- ✓ Picking up pet waste and properly disposing of it in a trash can.
- ✓ If you have a septic system, properly maintaining it to reduce leaching to water sources.

- ✓ Disposing of chemicals properly. For example, take used paint or motor oil to a hazardous waste collection center.
- ✓ Volunteering to protect your local watershed. Visit [www.epa.gov/hwp](http://www.epa.gov/hwp) for more information.
- ✗ Not flushing unused or expired pharmaceuticals down the drain. Find a collection event or take them to the Lost Hills Sheriff’s Station, 27050 Agoura Rd., in Calabasas. (Individual parties only—not intended for commercial use.)



# HOW DID WE DO IN 2015? WATER QUALITY REPORT

## (BASED ON DATA COLLECTED IN 2015)

Primary Standards apply to contaminants that may be unhealthy at certain levels. They are measured in terms of Maximum Contaminant Levels (MCLs) as published by the State of California. If water contains a contaminant level above a primary MCL, the safety of the water cannot be assured. None of the tests for water served to LVMWD customers exceeded the MCLs.

PARAMETER	Units	STATE OR FEDERAL MCL [MRDL]	PHG (MCLG) [MRDLG]	STATE DLR	RANGE AVERAGE	JENSEN PLANT	LVMWD	MAJOR SOURCES IN DRINKING WATER
Percent State Project Water	%	NA	NA	NA	Range	100	100	
					Average	100	100	
<b>CLARITY</b>								
Combined Filter Effluent Turbidity	NTU %	TT ≡ 1 TT (a)	NA	NA	Highest	0.09	0.18	Soil runoff
					% ≤ 0.3	100	100	
<b>MICROBIOLOGICAL</b>								
Total Coliform Bacteria (b)	%	5.0	(0)	NA	Range	ND-0.2	ND-1.1	Naturally present in the environment
					Average	ND	0.2	
Heterotrophic Plate Count (HPC) (c)	CFU/ml	TT	NA	NA	Range	TT	TT	Naturally present in the environment
					Average	TT	TT	
<b>Semi-Volatile Organic Compounds</b>								
Acrylamide	NA	TT	(0)	NA	Range	TT	TT	Water treatment chemical impurities
					Average	TT	TT	
Epichlorohydrin	NA	TT	(0)	NA	Range	TT	TT	Water treatment chemical impurities
					Average	TT	TT	
<b>INORGANIC CHEMICALS</b>								
Aluminum	ppb	1,000	600	50	Range	ND-84	ND-69	Residue from water treatment process; natural deposits erosion
					Highest RAA	ND	59	
Arsenic	ppb	10	0.004	2	Range	3.3	2.1-2.9	Natural deposits erosion, glass and electronics production wastes
					Average	3.3	2.5	
Fluoride (d) Treatment-related	ppm	2.0	1	0.1	Range	0.6-0.9	0.6-0.8	Erosion of natural deposits; water additive that promotes strong teeth
					Average	0.7	0.7	
Nitrate (as Nitrogen) (e)	ppm	10	10	0.4	Range	0.6-0.9	0.5-0.8	Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion
					Average	0.8	0.7	
<b>RADIOLOGICALS</b>								
Gross Alpha Particle Activity	pCi/L	15	(0)	3	Range	ND-5	ND	Erosion of natural deposits
					Average	3	ND	
Gross Beta Particle Activity	pCi/L	50 (f)	(0)	4	Range	ND-5	ND	Decay of natural and man-made deposits
					Average	ND	ND	
Uranium	pCi/L	20	0.43	1	Range	2-3	NA	Erosion of natural deposits
					Average	2	NA	
<b>DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BYPRODUCT PRECURSORS</b>								
Total Trihalomethanes (TTHM)	ppb	80	NA	1.0	Range	7.1-19	21-54	Byproduct of drinking water chlorination
					Average	14	35	
Haloacetic Acids (five) (HAA5)	ppb	60	NA	1.0	Range	3.3-6.7	ND-13	Byproduct of drinking water chlorination
					Average	4.4	8.9	
Total Chlorine Residual	ppm	[4.0]	[4.0]	NA	Range	1.1-3.0	ND-3	Drinking water disinfectant added for treatment
					Highest RAA	2.4	1.8	
Bromate	ppb	10	0.1	1.0	Range	1.1-13	NA	Byproduct of drinking water ozonation
					Highest RAA	8.0	NA	
DBP Precursors Control as Total Organic Carbon (TOC)	ppm	TT	NA	0.30	Range	TT	TT	Various natural and man-made sources; TOC as a medium for the formation of disinfection byproducts
					Average	TT	TT	



Lake Oroville, a Department of Water Resources reservoir at the beginning of the State Water Project, the source of water for Las Virgenes MWD customers.

# YOUR WATER & THIS ANNUAL REPORT

LVMWD is entirely dependent upon water imported from elsewhere; there are no local drinking water sources. The supply to our region travels hundreds of miles from Lake Oroville in the Sierras via the State Water Project and is then treated and conveyed to the District by the Metropolitan Water District of Southern California. LVMWD is one of Metropolitan's 26 member agencies.

Your water is one of the most tested and monitored substances you consume. This report conveys the results of tests conducted in 2015. Readers of this report sometimes ask if the substances identified in the report are harmful. It is normal to find trace amounts of contaminants in tap water or most bottled waters unless it is distilled or treated through a process such as reverse osmosis. Trace salts, chemicals and minerals are natural and keep water from tasting "flat."

When evaluating the presence of contaminants in your water, consider the following comparative measures:

**One part per million** (milligrams per liter) equals three drops added to a 42-gallon barrel.

**One part per billion** (micrograms per liter) equals one drop added to a large tanker truck.

**One part per trillion** (nanograms per liter) equals ten drops added to the Rose Bowl Stadium filled with water.

**One part per quadrillion** (picograms per liter) equals two teaspoons added to Utah's Great Salt Lake.

(Source: Metropolitan Water District)

## HOW TO READ THESE TABLES

These tables may contain complex measurements and terminology, but they also contain a lot of valuable information about the water delivered to your tap. While the information in these tables is important, what you don't see is also significant. Water agencies are only required to report contaminants that are detected; none were found at levels considered to be unsafe or unhealthy.

Testing results are presented for the Jensen Water Treatment Plant operated by the Metropolitan Water District of Southern California and for LVMWD's water delivery system. If you have any questions or need clarification, please call us at (818) 251-2200, or contact any of the agencies listed in this report under "Additional Information."

## ABBREVIATIONS AND FOOTNOTES

ABBREVIATIONS AND TERMS ~	
DEFINITIONS AND EXPLANATIONS TO HELP YOU UNDERSTAND THE CHARTS	
AI	Aggressiveness Index
AL	Action Level
CDPH	California Department of Public Health
CFU	Colony-Forming Units
DBP	Disinfection Byproducts
DLR	Detection Limits for Purposes of Reporting
LRAA	Locational Running Annual Average; highest LRAA is the highest of all Locational Running Annual Averages calculated as average of all samples collected within a 12-month period
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MRDL	Maximum Residual Disinfectant Level
MRDLG	Maximum Residual Disinfectant Level Goal
N	Nitrogen
NA	Not Applicable
ND	Not Detected
NL	Notification Level
NTU	Nephelometric Turbidity Units
pCi/L	picoCuries per Liter
PHG	Public Health Goal
ppb	parts per billion or micrograms per liter (µg/L)
ppm	parts per million or milligrams per liter (mg/L)
ppt	parts per trillion or nanograms per liter (ng/L)
RAA	Running Annual Average; highest RAA is the highest of all Running Annual Averages calculated as average of all the samples collected within a 12-month period
SI	Saturation Index (Langelier)
TON	Threshold Odor Number
TT	Treatment Technique is a required process intended to reduce the level of a contaminant in drinking water
µS/cm	microSiemen per centimeter; or micromho per centimeter (µmho/cm)

FOOTNOTES	
(a)	For the Jensen plant, the turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1 NTU at any time. For the Westlake plant, the turbidity level of the filtered water shall be less than or equal to 0.5 NTU in 95% of the measurements taken each month and shall not exceed 5.0 NTU at any time. Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance. The averages and ranges of turbidity shown in the Secondary standards were based on the treatment plant effluent.
(b)	Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive. Compliance is based on the combined distribution system sampling from all the treatment plants. In 2015, 1173 samples were analyzed. The MCL was not violated.
(c)	All distribution system samples collected had detectable total chlorine residuals and no HPC was required. HPC reporting level is 1 CFU/ml. Values are based on monthly median per state guidelines and recommendations.
(d)	Starting June 1, 2015, the fluoride levels at the treatment plants were adjusted to achieve an optimal fluoride level of 0.7 ppm and a control range of 0.6 ppm to 1.2 ppm. Metropolitan was in compliance with all provisions of the State of California's Fluoridation System Requirements.
(e)	State MCL is 45 mg/L as nitrate, which is the equivalent of 10 mg/L as N.
(f)	CDPH considers 50 pCi/L to be the level of concern for beta particles.
(g)	AI ≥ 12.0 = Non-aggressive water AI (10.0–11.9) = Moderately aggressive water AI ≤ 10.0 = Highly aggressive water
(h)	Positive SI index = non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative SI index = corrosive; tendency to dissolve calcium carbonate
(i)	Thirty (30) households were sampled in 2014 to determine the 90th percentile and none exceeded the action level.

PARAMETER	UNITS	STATE OR FEDERAL MCL [MRDL]	PHG (MCLG) [MRDLG]	STATE DLR	RANGE AVERAGE	JENSEN PLANT	LVMWD	MAJOR SOURCES IN DRINKING WATER		
<b>SECONDARY STANDARDS—Aesthetic Standards</b>										
Aluminum	ppb	200	600	50	Range	ND-84	ND-69	Residue from water treatment process; natural deposits erosion		
					Highest RAA	ND	59			
Chloride	ppm	500	NA	NA	Range	85-86	79-93	Runoff/leaching from natural deposits; seawater influence		
					Average	86	85			
Color	Color Units	15	NA	NA	Range	1	ND-15	Naturally-occurring organic materials		
					Average	1	ND			
Odor Threshold	TON	3	NA	1	Range	2	ND-1	Naturally-occurring organic materials		
					Average	2	ND			
Specific Conductance	µS/cm	1,600	NA	NA	Range	692-703	720-840	Substances that form ions in water; seawater influence		
					Average	698	780			
Sulfate	ppm	500	NA	0.5	Range	108-112	130-160	Runoff/leaching from natural deposits; industrial wastes		
					Average	110	145			
Total Dissolved Solids (TDS)	ppm	1,000	NA	NA	Range	405	420-510	Runoff/leaching from natural deposits; seawater influence		
					Average	405	458			
<b>MICROBIOLOGICAL</b>										
HPC (c)	CFU/ml	TT	NA	NA	Range	ND-1	ND-1400	Naturally present in the environment		
					Median	ND	ND			
<b>CHEMICAL</b>										
Alkalinity (as CaCO <sub>3</sub> )	ppm	NA	NA	NA	Range	89-92	95-110			
					Average	91	101			
Boron	ppb	NL = 1,000	NA	100	Range	240	NA	Runoff/leaching from natural deposits; industrial wastes		
					Average	240	NA			
Calcium	ppm	NA	NA	NA	Range	36	42-46			
					Average	36	44			
Chlorate	ppb	NL = 800	NA	20	Range	70	NA	Byproduct of drinking water chlorination; industrial processes		
					Range	91-147	NA			
Corrosivity (g) (as Aggressiveness Index)	Al	NA	NA	NA	Range	12.1-12.3	NA	Elemental balance in water; affected by temperature, other factors		
					Average	12.2	NA			
Corrosivity (h) (as Saturation Index)	SI	NA	NA	NA	Range	0.21-0.51	0.16-0.36	Elemental balance in water; affected by temperature, other factors		
					Average	0.36	0.25			
Hardness (as CaCO <sub>3</sub> )	ppm	NA	NA	NA	Range	130-134	161-175			
					Average	132	166			
Magnesium	ppm	NA	NA	NA	Range	10-11	13-17			
					Average	11	15			
pH	pH Units	NA	NA	NA	Range	8.2-8.4	7.2-8.7			
					Average	8.3	8.1			
Potassium	ppm	NA	NA	NA	Range	2.5-2.9	NA			
					Average	2.7	NA			
Sodium	ppm	NA	NA	NA	Range	90-92	75-100			
					Average	91	87			
TOC	ppm	TT	NA	0.30	Range	1.2-2.4	2.4-5	Various natural and man-made sources; TOC as a medium for the formation of disinfection byproducts		
					Highest RAA	1.6	3.2			
Vanadium	ppb	NL = 50	NA	3	Range	7.7	NA	Naturally-occurring; industrial waste discharge		
					Average	7.7	NA			
N-Nitrosodimethylamine (NDMA)	ppt	NL = 10	3	2	Range	2.1-2.2	NA	Byproduct of drinking water chloramination; industrial processes		
							NA			
PARAMETER	YEAR SAMPLED	UNITS	AL	PHG (MCLG) [MRDLG]	STATE DLR	90th PERCENTILE	# SITES SAMPLED	# SITES OVER AL	EXCEEDED AL Y/N	MAJOR SOURCES IN DRINKING WATER
<b>INORGANIC CHEMICALS</b>										
Lead (I)	2014	ppb	15	0.2	5	9.3	30	0	N	House pipes internal corrosion; erosion of natural deposits
Copper (I)	2014	ppb	1300	300	50	270	30	0	N	House pipes internal corrosion; erosion of natural deposits



## SUBSTANCES FOUND IN DRINKING WATER

The sources of drinking water (both tap 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. In some cases, it can pick up

radioactive material or substances resulting from the presence of animals or 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 byproducts 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 the result of oil and gas production and mining activities.

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 public health protection.

Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the 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 at (800) 426-4791.

## LEARNING MORE ABOUT LEAD EXPOSURE

Recent news stories have raised questions about the presence of lead in drinking water systems. LVMWD's water distribution system has no lead pipes. In compliance with monitoring requirements, the District tests for lead at 30 different locations throughout the service area. Results show that the levels of lead in LVMWD's water are well within state and federal guidelines. (See the report matrix for details.)

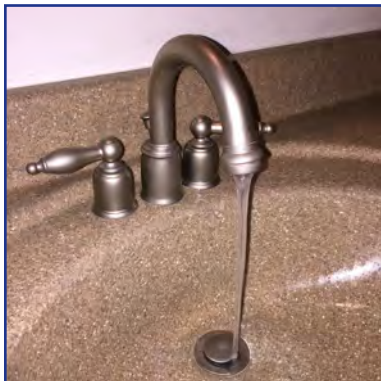
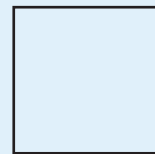
In our region, lead in drinking water primarily comes from materials and components associated with home plumbing. These sources can include pipes, soldering materials used at pipe joints and older fixtures such as faucets. LVMWD is responsible for providing high quality drinking water but cannot control the variety of materials used in customers' plumbing components. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children.

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 two minutes before using water for drinking or cooking. We suggest you capture this water in a bucket to water your plants. 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 at (800) 426-4791 or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

## HEALTH ADVISORY FOR PERSONS WITH WEAKENED IMMUNE SYSTEMS

Some people may be more vulnerable to contaminants in drinking water than the general population. People who are immune-compromised, such as those undergoing chemotherapy, those who have undergone organ transplants, those with HIV/AIDS or other immune system disorders, and 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 microbial contaminants are available by calling the Safe Drinking Water Hotline at (800) 426-4791.





# 2015 LVMWD ~ WATER QUALITY REPORT

PUBLISHED JUNE 2016

## LOOKING BEYOND THE FAUCET

### WATER QUALITY - THE SAME IN ANY LANGUAGE

This report contains important information about your drinking water. Translate it or speak with someone who understands it.

**Spanish**

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

**Farsi**

نمیتوانید این اطلاعیه را به زبان انگلیسی اطلاع ندهید. این اطلاعیه را به کسی که می‌تواند آن را ترجمه کند، این اطلاعیه را به کسی که می‌تواند آن را به زبان دیگری برگرداند، بخوانید.

**Chinese**

这份报告中有些重要的信息，讲到关于您所在社区的饮用水的品质。请您找人翻译一下，或者请能看得懂这份报告的朋友给您解释一下。

**Japanese**

この資料には、あなたの飲料水についての大切な情報が書かれています。内容をよく理解するために、日本語に翻訳して読むか説明を受けてください。

**Hebrew**

הודעה הזו מכילה מידע חשוב לגבי מי השתייה שלך. תרגום את ההודעה או דבר עם מישהו שמבין אותו.

### FOR MORE INFORMATION

LVMWD encourages you to stay informed about your water. Sign up for e-Notification at [www.LVMWD.com/e-Notification](http://www.LVMWD.com/e-Notification) to receive information on a variety of topics that interest you. Be sure to check the website frequently for timely information on water conservation and other topics.

The District publishes *The e-Current Flow* on our website at [www.LVMWD.com/e-Current-Flow](http://www.LVMWD.com/e-Current-Flow). The customer newsletter is also delivered with your bill.

The LVMWD Board of Directors meets at 5 p.m. on the second and fourth Tuesday of each month. These meetings are conducted at District Headquarters, 4232 Las Virgenes Rd., in Calabasas, and are open to the public.

If you wish to speak with someone about your water service, contact Carol Palma, Customer Service Manager at (818) 251-2200 or e-mail [Customer\\_Service@LVMWD.com](mailto:Customer_Service@LVMWD.com).

### ADDITIONAL INFORMATION ABOUT DRINKING WATER SAFETY AND STANDARDS

#### CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY - STATE WATER RESOURCES CONTROL BOARD

1001 I Street  
Sacramento, CA 95814  
(916) 449-5577  
[www.waterboards.ca.gov/tiny/pws.shtml](http://www.waterboards.ca.gov/tiny/pws.shtml)

#### U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA)

Office of Ground and Drinking Water  
401 M St., SW  
Washington, DC 20460  
(800) 426-4791  
[www.epa.gov/safewater](http://www.epa.gov/safewater)

#### U.S. CENTER FOR DISEASE CONTROL AND PREVENTION

1600 Clifton Road  
Atlanta, GA 30333  
(800) 311-3435  
[www.cdc.gov](http://www.cdc.gov)