# General Information About Water Sources

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 naturallyoccurring or be 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 protection for public health.

# What Makes Water Hard

f substantial amounts of either calcium or magnesium, both nontoxic minerals, are present in drinking water, the water is said to be hard. "Hard" water does not dissolve soap readily, and therefore making lather for washing and cleaning is difficult. Conversely, water containing little calcium or magnesium is called "soft" water.

# Maintaining High Standards

Once again we are proud to present our annual water quality report. This report covers the testing performed between January 1 and December 31, 2014. The events of the past few years have presented many of us with challenges we could not have imagined. In spite of this, we have maintained high standards in an effort to continue delivering a reliable water supply that meets Title 22 requirements. There may be other challenges in the future, yet please know that we will always work diligently to provide you with quality water at a reasonable cost. We will also remain vigilant in meeting the challenges of new regulations, new local source water production, water conservation, community outreach and education while continuing to serve all your water needs.

We take our responsibility of providing you and your family with quality drinking water seriously. We encourage you to share your thoughts with us on the information contained in this report. Should you ever have any questions or concerns, we are always available to assist you.

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).

entura County Waterworks District No.

Aoorpark, CA 93020

7 Spring Road . Box 250

6767 P.O. I  informe contiene información muy importante e su agua potable. Tradúzcalo o hable con ien que lo entienda bien.



# Where Does the District Water Come From?

The District's water supply comes from both imported and local sources. In 2014, 78% of our total supply came from the State Water Project. This water originates in northern California where it is captured in reservoirs north of Sacramento and released into the delta of the Sacramento and San Joaquin rivers. It is transported via the 444-mile California Aqueduct to State Water Project contractors such as the Metropolitan Water District of Southern California (MWD). The District water is filtered and disinfected by MWD at its Jensen Filtration Facility in Granada Hills. MWD then delivers the water to its 26-member public agencies, including Calleguas Municipal Water District (CMWD), Ventura County's regional wholesale purveyor and the District's direct supplier.

Local water is pumped from the Las Posas Basin by five (5) groundwater wells owned and operated by the District. The wells produced approximately 22% of our total supply in 2014. The District treats the water that is pumped from these wells, and then delivers it to our customers. Local and imported water is delivered to our customers through our distribution system, which consists of 18 reservoirs, 10 booster pump stations, and approximately 138 miles of water lines. Water service is provided through approximately 10,800 service connections.

In the year 2014, the District supplied approximately 11,380 acre-feet of water to over 38,703 people in the city of Moorpark and the contiguous unincorporated areas to the north and west. The water supplied by the District was used for residential, industrial, commercial, agricultural, and fire protection purposes.

# Lead in Household Plumbing

f 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 District 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.

### **Community Participation**

You are invited to participate in our public forum and voice your concerns about your drinking water. The Citizens' Advisory Committee meets monthly at the District office located at 6767 Spring Road in Moorpark. If you wish to participate, please call (805) 378-3000 for the specific date and time.

For more information about this report, or for any other questions relating to the quality of your drinking water, please contact Al Sexton, Water and Wastewater Laboratory Manager, at (805) 378-3022.

# Information for Customers with Special Water Needs

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).

### Water Main Flushing

Distribution mains (pipes) convey water to homes, businesses, and hydrants in your neighborhood. The water entering distribution mains is of very high quality. However, water quality can deteriorate over time as a consequence of stagnant water in areas of the distribution mains. Water main flushing is the process of cleaning the interior of water distribution mains by sending a rapid flow of water through the mains.

Flushing maintains water quality in several ways. For example, flushing removes sediments like iron and manganese. Although iron and manganese do not pose health concerns, they can affect the taste, clarity, and color of the water. Additionally, sediments can shield microorganisms from the disinfecting power of chlorine, contributing to the growth of microorganisms within distribution mains. Flushing helps remove stagnant water and ensures the presence of fresh water with sufficient dissolved oxygen, disinfectant levels, and an acceptable taste and smell.

During flushing operations in your neighborhood, some short-term deterioration of water quality, though uncommon, is possible. If you do use the tap, allow your cold water to run for a few minutes at full velocity before use and avoid using hot water, to prevent sediment accumulation in your hot water tank.

Please contact us if you have any questions or if you would like more information on our water main flushing schedule.

## Information on Radon

Radon is a radioactive gas that you cannot see, Rtaste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. You should pursue radon removal for your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program (1-800-745-7236), the USEPA Safe Drinking Water Act Hotline (1-800-426-4791), or the National Safety Council Radon Hotline (1-800-767-7236).

# Summary of Water Quality Results For 2014

During the past year, we have taken hundreds of drinking water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic organic organic organic, and the drinking water contaminants that were detected in calendar year 2014. The State requires that we monitor for certain contaminants less than once per year because the concentrations of theses contaminants do not vary significantly from year to year. Some of this data, though representative of water quality, are more than one year old.

			Local Water Supplied by: Waterworks District No. 1		Imported Water Supplied by: Calleguas Municipal Water District			
Parameter (Unit of Measure)	Percent of Suppl MCL [MRDL]	PHG	2 Average	2% Range	78 Average	% Range	Violation	Major Sources in Drinking Water
		[MRDLG]						
PRIMARY DRINKING WATER ST	TANDARDS	SMandat	ory Health-	Related Stan	dards			
CLARITY (a)	1000							
Turbidity (NTU) (TT)	Highest Si		r	n/a	0.0		No	Soil runoff
	% of sam	ples <0.3	r	n/a	100	1%	No	
DISINFECTION BY-PRODUCTS AND DIS	SINFECTANT	RESIDUALS	;					
Bromate (ppb) (b)	10	0.1	n/a	n/a	6.6	ND - 13.0	No	By-product of drinking water disinfection
Haloacetic Acids (ppb) (c)	60	n/a	5	ND - 9	6	2 - 9	No	By-product of drinking water disinfection
Total Chlorine Residual (ppm)	[4]	[4]	1.6	ND - 5.1	2.2	1.5 - 2.6	No	Drinking water disinfectant added for treatment
Total Trihalomethanes (ppb) (c)	80	n/a	23.3	5.6 - 47.6	24.1	14.5 - 29.9	No	By-product of drinking water chlorination
INORGANIC CHEMICALS								
Aluminum (ppb)	1,000	600	ND	n/a	64	ND - 230	No	Erosion of natural deposits, residual from water treatment process
Arsenic (ppb)	10	0.004	0.5	ND - 2	2	ND - 4	No	Erosion of natural deposits, runoff from orchards
Barium (ppm)	1	2	ND	n/a	ND	ND - 0.1	No	Erosion of natural deposits, discharge from oil & metal refineries
Fluoride - Distribution System (ppm) (d)	2.0	1	0.2	0.2 - 0.2	0.8	0.7 - 1.0	No	Water additive that promotes strong teeth
Nitrate (as NO <sub>3</sub> ) (ppm)	45	45	0.4	ND - 0.7	2.3	ND - 2.7	No	Runoff and leaching from fertilizer use, erosion of natural deposits
Selenium (ppb) Selenium (ppb)	50	30	1	ND - 1	ND	ND - 8	No	Runoff and leaching from fertilizer use, erosion of natural deposits
RADIOLOGICALS								
Gross Alpha Particle Activity (pCi/L)	15	(0)	1.51	0.83 - 2.47	3	ND - 5	No	Erosion of natural deposits
Gross Beta Particle Activity (pCi/L)	50	(0)	n/a	n/a	ND	ND - 6	No	Decay of natural and manmade deposits
Uranium (pCi/L)	20	0.43	n/a	n/a	2	ND - 3	No	Erosion of natural deposits
				Ti/a	2	ND - 3	NO	
Home Tap Water Samples Collected for		pper Analys	es		# O'tes Alsour			
Parameter (Unit of Measure)	Year Sampled	AL	PHG (MCLG)	Amount Detected (90th %)	AL / Total Sites	Violation		Major Sources in Drinking Water
Lead (ppb)	2012	15	0.2	3.5	0 / 30	No		n of household plumbing systems; erosion of natural deposits
Copper (ppm)	2012	1.3	0.3	0.17	0/30	No	Corrogio	n of household plumbing systems; erosion of natural deposits
		1.0	0.0	0.17			Corrosio	
		1.0	Local Water	Supplied by: District No. 1	Imported Water Calleguas Mur Dist	r Supplied by: nicipal Water	Corrosio	
			Local Water Waterworks	Supplied by:	Imported Water Calleguas Mur	r Supplied by: nicipal Water rict	Corrosio	Major Sources in Drinking Water
Parameter	Percei Secondary	nt of Supply Notification	Local Water Waterworks 2	r Supplied by: District No. 1	Imported Water Calleguas Mur Dist	r Supplied by: nicipal Water rict	Violation	
	Percer Secondary MCL	nt of Supply Notification Level	Local Water Waterworks 2 Average	Supplied by: District No. 1 2% Range	Imported Water Calleguas Mur Distr 78	r Supplied by: nicipal Water rict %		
SECONDARY DRINKING WATE	Percei Secondary MCL R STANDA	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand	Supplied by: District No. 1 2% Range dards	Imported Water Calleguas Mur Dist 78 Average	r Supplied by: nicipal Water rict % Range	Violation	Major Sources in Drinking Water
SECONDARY DRINKING WATER Aluminum (ppb)	Percer Secondary MCL R STANDA 200	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND	Supplied by: District No. 1 2% Range dards n/a	Imported Water Calleguas Mur Distr 78 Average	r Supplied by: nicipal Water rict % Range ND - 230	Violation	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process
SECONDARY DRINKING WATER Aluminum (ppb) Chloride (ppm)	Percel Secondary MCL R STANDA 200 500	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND 16	Range n/a 11 - 20	Imported Water Calleguas Mur Distr 78 Average 64 87	Range ND - 230 81 - 97	Violation	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence
SECONDARY DRINKING WATER Aluminum (ppb) Chloride (ppm) Color (Units)	Percea Secondary MCL R STANDA 200 500 15	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND 16 ND	Range dards n/a 11 - 20 n/a	Imported Water Calleguas Mur Distr 78' Average 64 87 1	Range ND - 230 81 - 97 ND - 1	Violation No No No	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence Naturally-occurring organic materials
SECONDARY DRINKING WATE Aluminum (ppb) Chloride (ppm) Color (Units) Odor Threshold (Units)	Percea Secondary MCL R STANDA 200 500 15 3	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND 16 ND 4	Range dards n/a 11 - 20 n/a ND - 16	Imported Water Calleguas Mur Distr 78' Average 64 87 1 3.0	Range ND - 230 81 - 97 ND - 3	Violation No No No No	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence Naturally-occurring organic materials Naturally-occurring organic materials
SECONDARY DRINKING WATE Aluminum (ppb) Chloride (ppm) Color (Units) Odor Threshold (Units) Iron (ppb)	Percel Secondary MCL R STANDA 200 500 15 3 300	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND 16 ND 4 178	Supplied by: District No. 1 2% Range dards n/a 11 - 20 n/a ND - 16 90 - 280	Imported Water Calleguas Mur Distr 78: Average 64 87 1 3.0 ND	Range ND - 230 81 - 97 ND - 1 ND - 3 n/a	Violation No No No No No	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence Naturally-occurring organic materials Naturally-occurring organic materials Leaching from natural deposits
SECONDARY DRINKING WATE Aluminum (ppb) Chloride (ppm) Color (Units) Odor Threshold (Units) Iron (ppb) Manganese (ppb)	Percea Secondary MCL <b>STANDA</b> 200 500 15 3 300 50	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND 16 ND 4 178 53	Supplied by:           District No. 1           2%           Range           dards           n/a           11 - 20           n/a           90 - 280           30 - 60	Imported Water Calleguas Mur Distr 78' Average 64 87 1 3.0 ND ND	Range ND - 230 81 - 97 ND - 1 ND - 3 n/a n/a	Violation No No No No No No	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence Naturally-occurring organic materials Naturally-occurring organic materials Leaching from natural deposits Leaching from natural deposits
SECONDARY DRINKING WATER Aluminum (ppb) Chloride (ppm) Color (Units) Odor Threshold (Units) Iron (ppb) Manganese (ppb) Specific Conductance (µS/cm)	Percent           Secondary MCL           Standary MCL           Standary MCL           Standary MCL           300           300           50           1,600	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND 16 ND 4 178 53 609	Supplied by: District No. 1           2%           Range           dards           n/a           11 - 20           n/a           00 - 16           90 - 280           30 - 60           507 - 690	Imported Water Calleguas Mun Dist 78' Average 64 87 1 3.0 ND ND 657	Range ND - 230 81 - 97 ND - 1 ND - 3 n/a n/a 588 - 1010	Violation No No No No No No No	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence Naturally-occurring organic materials Naturally-occurring organic materials Leaching from natural deposits Leaching from natural deposits Substances that form ions when in water, seawater influence
SECONDARY DRINKING WATE Aluminum (ppb) Chloride (ppm) Color (Units) Odor Threshold (Units) Iron (ppb) Manganese (ppb)	Percea Secondary MCL R STANDA 200 500 15 3 300 50 50	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND 16 ND 4 178 53 609 121	Supplied by:           District No. 1           2%           Range           dards           n/a           11 - 20           n/a           90 - 280           30 - 60	Imported Water Calleguas Mur Distr 78' Average 64 87 1 3.0 ND ND	Range ND - 230 81 - 97 ND - 1 ND - 3 n/a n/a 588 - 1010 60 - 238	Violation No No No No No No	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence Naturally-occurring organic materials Naturally-occurring organic materials Leaching from natural deposits Leaching from natural deposits
SECONDARY DRINKING WATER Aluminum (ppb) Chloride (ppm) Color (Units) Odor Threshold (Units) Iron (ppb) Manganese (ppb) Specific Conductance (µS/cm)	Percent           Secondary MCL           R           200           500           15           3           300           50           1,600	nt of Supply Notification Level	Local Water Waterworks 2 Average thetic Stand ND 16 ND 4 178 53 609	Supplied by: District No. 1           2%           Range           dards           n/a           11 - 20           n/a           00 - 16           90 - 280           30 - 60           507 - 690	Imported Water Calleguas Mun Dist 78' Average 64 87 1 3.0 ND ND 657	Range ND - 230 81 - 97 ND - 1 ND - 3 n/a n/a 588 - 1010	Violation No No No No No No No	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence Naturally-occurring organic materials Naturally-occurring organic materials Leaching from natural deposits Leaching from natural deposits Substances that form ions when in water, seawater influence
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SECONDARY DRINKING WATE Aluminum (ppb) Chloride (ppm) Color (Units) Odor Threshold (Units) Iron (ppb) Manganese (ppb) Specific Conductance (µS/cm) Sulfate (ppm) Total Dissolved Solids (ppm)	Percent           Secondary MCL           Standary MCL           Comparison	nt of Supply Notification Level RDSAes	Local Water Waterworks 2 Average thetic Stand ND 16 ND 4 178 53 609 121 385	Supplied by: District No. 1 2% Range dards n/a 11 - 20 n/a ND - 16 90 - 280 30 - 60 507 - 690 92 - 142 300 - 450	Imported Water Calleguas Mur Distr 78' Average 64 87 1 3.0 ND 0 ND 657 89 375	Range Range ND - 230 81 - 97 ND - 1 ND - 3 n/a n/a 588 - 1010 60 - 238 325 - 641	Violation Violation No No No No No No No No	Major Sources in Drinking Water Erosion of natural deposits, residual from water treatment process Runoff and leaching from natural deposits, seawater influence Naturally-occurring organic materials Naturally-occurring organic materials Leaching from natural deposits Leaching from natural deposits Substances that form ions when in water, seawater influence Runoff and leaching from natural deposits Runoff and leaching from natural deposits Runoff and leaching from natural deposits
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#### Water Conservation

You can play a role in conserving water and saving yourself money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

#### What you can do:

Wash only full loads of laundry and dishes Spend only 5 minutes in the shower Turn off the water while you brush your teeth Buy water-saving devices like high-efficiency toilets and clothes washers Check for indoor and outdoor leaks and repair promptly Install a smart sprinkler controller that adjusts watering based on weather Use a broom instead of a hose to clean driveways and sidewalks

#### **ABBREVIATIONS, DEFINITIONS, and NOTES**

n/a = not applicable ND = None Detected gpg = Grains per Gallon NTU = Nephelometric Turbidity Units ppm = parts per million, or milligrams per liter (mg/L) μS/cm = microSiemen per centimeter ppb = parts per billion, or micrograms per liter (µg/L) pCi/L = PicoCuries per Liter AL = Federal Regulatory Action Level

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. 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 pathogens. 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. 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. Primary Drinking Water Standard = MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. Treatment Technique (TT) = A required process intended to reduce the level of a contaminant in drinking water. Running Annual Average (RAA)= The average of all the samples taken for the year.

(a) The turbidity level of filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU. (b) Compliance for treatment plants that use ozone is based on a running annual average of monthly samples.

(c) Compliance is based on a running annual average of quarterly distribution system samples. Values reported reflect the highest and lowest single value in the distribution system (range) and the highest running annual average.

(d) MWD treats their water by adding fluoride to the naturally occurring level in order to help prevent dental caries in consumers. The fluoride levels in the treated water are maintained within a range of 0.7 - 1.3 ppm, as required by State Water Resources Control Board (SWRCB), Division of Drinking Water (DDW). Formally known as the Department of Public Health, the DDW was created in 2014 when the drinking water program moved under the SWRCB.

How much you can save:

Saves up to 50 gallons per week Saves up to 8 gallons each time Saves up to 2.5 gallons per minute Saves gallons of water and may be eligible for rebates Saves up to 500 gallons per month Saves up to 40 gallons per day depending on soil type, amount of shade and plant type Saves up to 150 gallons each time