

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

There When You Need Us

We are once again proud to present our annual water quality report covering all testing performed between January 1 and December 31, 2013. Over the years, we have dedicated ourselves to producing drinking water that meets and exceeds all state and federal standards. We continually strive to adopt new methods for delivering the best-quality drinking water to you. As new challenges to drinking water safety emerge, we remain vigilant in meeting the goals of source water protection, water conservation, operation efficiency, and community education while continuing to serve the needs of all our water users.

For more information about this report, or for any questions relating to your drinking water, please call Lydia Cardenas, Water Treatment Plant Chemist, at (805) 736-1617, or visit our City of Lompoc Water Division Web site at http://www.cityoflompoc.com/ utilities/water/.

Where Does My Water Come From?

The City of Lompoc's source of supply is from ten groundwater wells. The annual production of clean drinking water for the City was 1.64 billion gallons or 4.49 million gallons per day.

Some customers in Miguelito Canyon, including Santa Barbara County Miguelito Park, receive treated surface water (Frick Springs). The annual production for Frick Springs was 3.61 million gallons.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa.gov/drink/hotline.

Substances That Could Be in Water

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.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the California Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public 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.

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 can 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 that can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems; Radioactive Contaminants, that can be naturally occurring or can be the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Lead in Home Plumbing

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. We are responsible for providing high-quality drinking water, but we 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 www.epa.gov/safewater/lead.

Water Treatment Process

The City of Lompoc uses a conventional treatment process to ensure the safety and quality of our drinking water. Our process consists of disinfection, coagulation, flocculation, sedimentation, and filtration. Constructed in 1964, the treatment plant was originally designed to allow filtration of approximately 7 million gallons per day (MGD); with some enhancements and additions of filters, our capability is now approximately 10 MGD.

The City of Lompoc is also responsible for the operation of the Frick Springs treatment plant. This plant consists of small diatomaceous earth (DE) filtration and disinfection systems. The water treated at this plant is collected from seven springs located in the upper hills of Miguelito Canyon. Frick Springs water treatment plant must comply with the Surface Water Treatment Rule (SWTR).

CCR Electronic Download

In recent years, the City of Lompoc has mailed its customers a printed copy of the Consumer Confidence Report to comply with the Safe Drinking Water Act (SDWA). On February 21, 2013, the California Department of Public Health expanded its interpretation of the SDWA to allow for electronic delivery of the CCR. The electronic delivery method will allow the City to reduce the consumption of paper, and minimize potential printing and mailing costs. To view your 2013 CCR and to learn more about your drinking water, please visit the following Web site:

http://www1.cityoflompoc.com/departments/ utilities/2013ccr.pdf

Hard copies will be located at City Hall, the Public Library, and Water Treatment Plant. If you would like a paper copy of the 2013 CCR mailed to your mailing address, please call the Water Treatment Plant (805) 736-1617.

Naturally Occurring Bacteria

The simple fact is, bacteria and other microorganisms inhabit our world. They can be found all around us: in our food, on our skin, in our bodies, and in the air, soil, and water. Some are harmful to us and some are not. Coliform bacteria are common in the environment and are generally not harmful themselves. The presence of this bacterial form in drinking water is a concern because it indicates that the water may be contaminated with other organisms that can cause disease. Throughout the year, we tested many water samples for coliform bacteria. In that time, none of the samples came back positive for the bacteria.

Federal regulations require that public water that tests positive for coliform bacteria must be further analyzed for fecal coliform bacteria. Fecal coliform are present only in human and animal waste. Because these bacteria can cause illness, it is unacceptable for fecal coliform to be present in water at any concentration. Our tests indicate no fecal coliform is present in our water.

Community Participation

Included in the oversight of the Water Divsion are the City Council and Utility Commission. Here is their public meeting information.

You are invited to participate in the monthly Utility Commission meetings held on the second Monday of the month, starting at 6 p.m. at 100 Civic Center Plaza (Lompoc City Hall, Utility Conference Room). Public communications are scheduled at the beginning of the meeting agenda.

Also, the City Council meets the first and third Tuesdays of each month, where public communication time is available. Meetings are held at 7 p.m. at 100 Civic Center Plaza, City Hall.

Sampling Results

During the past year, we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic organic organic organic organic organic, the tables below show only those contaminants that were detected in the water. The state requires us to monitor for certain substances less often 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. A complete list is available at City Hall and the Lompoc Public Library.

We participated in the 3rd stage of the EPA's Unregulated Contaminant Monitoring Regulation (UCMR3) program by performing additional tests on our drinking water. UCMR3 benefits the environment and public health by providing the EPA with data on the occurrence of contaminants suspected to be in drinking water, in order to determine if the EPA needs to introduce new regulatory standards to improve drinking water quality. Any UCMR3 detections are shown in the data tables in this report. Contact us for more information on this program.

REGULATED SUBSTANCES													
				City of Lompoc W	ater Division	Frick Spri	ngs						
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	PHG (MCLG) [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURC	E			
Arsenic ¹ (ppb)	2013	10	0.004	2	ND–2	3	NA	No	Erosion of natur	al deposits; run	off from orchards; glass and electronics production wastes		
Barium (ppm)	2013	1	2	0.0063	NA	0.0828	NA	No	Discharges of oi	l drilling wastes	and from metal refineries; erosion of natural deposits		
Cadmium (ppb)	2013	5	0.04	ND	NA	0.4	NA	No			pipes; erosion of natural deposits; discharge from electroplating , and metal refineries; runoff from waste batteries and paints		
Chlorine (ppm)	2013	[4.0 (as Cl2)]	[4 (as Cl2)]	1.45 (as Total Cl2)	1.42-1.46	1.4 (as Free Cl2)	1.2–2.6	No	Drinking water	disinfectant add	led for treatment		
Fluoride ² (ppm)	2013	2.0	1	ND	NA	0.1	NA	No	Erosion of natur	charge from fertilizer and aluminum factories			
Nickel (ppb)	2013	100	12	ND	NA	4	NA	No	Erosion of natur	charge from metal factories			
Nitrate [as nitrate] (ppm)	2013	45	45	ND	NA	0.5	NA	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; ero natural deposits				
Selenium (ppb)	2013	50	30	3	NA	9	NA	No Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)					
Stage 2 Disinfection/Disinfe	ction By-Pr	oducts				City of Lompoc \	Nater Divisio	on Fr	Frick Springs				
SUBSTANCE (UNIT OF MEASURE)			YEAF SAMPL		PHG (MCLG) [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOU DETEC		VIOLATION	TYPICAL SOURCE		
Haloacetic Acids–Stage 2	2013	3 60	NA	4.0	4.0-4.0	7.0	NA	No	By-product of drinking water disinfection				
TTHMs [Total Trihalome	ethanes]–St	age 2 (ppb)	2013	8 80	NA	1.2	1.0–1.4	18.3	3 NA	No	By-product of drinking water disinfection		
Tap water samples were collected for Lead and Copper analyses with the cooperation of 31 homeowners throughout the community													

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AL	PHG (MCLG)	AMOUNT DETECTED (90TH%TILE)	SITES ABOVE AL/TOTAL SITES	VIOLATION	TYPICAL SOURCE
Copper (ppm)	2013	1.3	0.3	0.153	0/31	No	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	2013	15	0.2	1.4	0/31	No	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

SECONDARY SUBSTANCES											
				City of Lompoc Water Division		Frick Springs					
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	SMCL	PHG (MCLG)	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE		
Chloride (ppm)	2013	500	NS	109	90–137	50	NA	No	Runoff/leaching from natural deposits; seawater influence		
Manganese (ppb)	2013	50	NS	1.8	ND-3.7	ND	NA	No	Leaching from natural deposits		
Specific Conductance ³ (µS/cm)	2013	1,600	NS	1,222	1,196–1,246	919	900–942	No	Substances that form ions when in water; seawater influence		
Sulfate (ppm)	2013	500	NS	419	368-485	73	NA	No	Runoff/leaching from natural deposits; industrial wastes		
Total Dissolved Solids (ppm)	2013	1,000	NS	796	696–868	550	NA	No	Runoff/leaching from natural deposits		
Turbidity ^{3,4} (NTU)	2013	5	NS	0.13	0.07-0.27	0.06	0.05–0.10	No	Soil runoff		

UNREGULATED SUBSTANCES

City of		City of Lompo	oc Water Division	Frick Springs		
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE
Boron (ppm)	2013	0.1	NA	ND	NA	The babies of some pregnant women who drink water containing boron in excess of the 1ppm notification level may have an increased risk of developmental effects, based on studies in laboratory animals.
pH ³ (Units)	2013	NA	8.01-8.42	NA	7.36–7.56	Treatment process
Sodium ⁵ (ppm)	2013	149	109–184	43	NA	Sodium refers to the salt present in the water and is generally naturally occurring
Total Hardness as CaCO3 (ppm)	2013	302	265–356	420	NA	Hardness is the sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally occurring.

UNREGULATED CONTAMINANT MONITORING REGULATION 3 (UCMR3)

		City of Lompoc Water Division		Groundwater Sample Station #3		Frick Springs		Surface Water Sample Station #1		
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE
Chlorate (ppb)	2013	295	250-340	300	260-340	155	130–190	168	130-200	NA
Chromium (Total) (ppb)	2013	0.43	0.32-0.53	0.36	0.27-0.45	1	ND-1	ND	ND-ND	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Chromium VI [Hexavalent Chromium] (ppb)	2013	0.36	0.30–0.41	0.32	0.31-0.32	0.027	ND-0.044	0.040	0.032-0.051	NA
Molybdenum (ppb)	2013	19	18–20	19	18-19	39	36–42	42	39–43	Naturally occurring
Strontium (ppb)	2013	525	510–540	490	440-540	148	140–160	160	150–170	Naturally occurring
Vanadium (ppb)	2013	0.41	0.36–0.46	0.41	0.34–0.47	14	12–17	14	12–15	The babies of some pregnant women who drink water containing vanadium in excess of the 50ppb notification level may have an increased risk of developmental effects, based on studies in laboratory animals.

¹Low detected amounts of arsenic in August for the City of Lompoc were reported to the state office. In all other months, arsenic was Not Detected.

²Our treatment process does NOT add fluoride.

³Results for pH, specific conductance, and turbidity are from distribution system samples.

⁴Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

⁵Our softening process adds sodium to the drinking water. Consumers on sodium-restricted diets may wish to consult with their physicians.

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

µS/cm (microsiemens per centimeter): A unit expressing the amount of electrical conductivity of a solution.

MCL (Maximum Contaminant Level): 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 (SMCLs) are set to protect the odor, taste, and appearance of drinking water.

MCLG (Maximum Contaminant Level Goal): 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. EPA.

MRDL (Maximum Residual Disinfectant Level): 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.

MRDLG (Maximum Residual Disinfectant Level Goal): 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.

NA: Not applicable

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

NS: No standard

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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

PHG (Public Health Goal): 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 EPA.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).