

2017 Consumer Confidence Report

Water System Name: Port San Luis Harbor District Report Date: May 2, 2018

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2017 and may include earlier monitoring data.

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

Type of water source(s) in use: Surface Water

Name & general location of source(s): Lopez Lake Water Supply Project

Drinking Water Source Assessment information: A source assessment was performed in 2001; Lopez Lake and Lopez Terminal Reservoir were found to be the most vulnerable to wastewater generation at the Lopez Recreation Area, livestock near the reservoirs, and a roadway that bisects the Terminal Reservoir. To date, these activities have not adversely impacted the WTP treated water quality. A copy of the assessment can be found at the San Luis Obispo County Public Works Department website or by contacting the Water Quality Laboratory at (805) 781-5111.

Time and place of regularly scheduled board meetings for public participation: Regular meetings are held on the fourth Tuesday of each month at 6pm at the Coastal Gateway Building (3900 Avila Beach Drive).

For more information, contact: Port San Luis Harbor District Phone: (805) 595-5400

TERMS USED IN THIS REPORT

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 (U.S. EPA).

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.

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.

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

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

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

Variations and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

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 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 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. EPA 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.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA					
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a mo.)	0	1 positive monthly sample	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive		Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	(In the year)	0	(a)	0	Human and animal fecal waste
(a) Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .					

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER								
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	N/A	N/A	N/A	N/A	15	0.2	0 (No schools within service area)	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	9/15/17	5	0.235	ND – 0.360	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Lopez Lake WSP Sodium (ppm)	2017	35	N/A	none	none	Salt present in the water and is generally naturally occurring
Lopez Lake WSP Hardness as CaCO ₃ (ppm)	2017	380	N/A	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Lopez Lake WSP Aluminum (ppm)	2017	<0.02	0.014	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Lopez Lake WSP Arsenic (ppb)	2017	3.1	1.7 – 3.9	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Lopez Lake WSP Barium (ppm)	2017	0.033	N/A	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Lopez Lake WSP Chlorine (ppm)	2017	2.50	1.27 – 4.5 ¹	MRDL = 4.0 (as Cl ₂)	MRDLG = 4 (as Cl ₂)	Drinking water disinfectant added for treatment
Lopez Lake WSP Chlorite (ppm)	2017	0.64	0.46 – 0.72	1.0	0.05	Byproduct of drinking water disinfection
Lopez Lake WSP Chlorate (ppb)	2017	482	374 – 607	RAL = 800	N/A	Byproduct of drinking water disinfection
Lopez Lake WSP Chlorine Dioxide (ppb)	2017	152	132 – 189	MRDL = 800 (as ClO ₂)	MRDLG = 800 (as ClO ₂)	Drinking water disinfectant added for treatment
Lopez Lake WSP Copper (ppm)	2017	0.042	N/A	(AL=1.3)	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lopez Lake WSP Fluoride (ppm)	2017	0.415	N/A	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lopez Lake WSP Gross Alpha Particle Activity (pCi/L)	2013	1.51	1.42 – 1.59	15	(0)	Erosion of natural deposits
Lopez Lake WSP Total Trihalomethanes (ppb)	2017	37.1	23.9 – 44.9	80	N/A	Byproduct of drinking water disinfection
Port San Luis Total Trihalomethanes (ppb)	8/23/17	24	N/A	80	N/A	Byproduct of drinking water disinfection
Lopez Lake WSP Haloacetic Acids (ppb)	2017	22.8	18.8 – 27.6	60	N/A	Byproduct of drinking water disinfection
Port San Luis Haloacetic Acids (ppb)	8/23/17	10	N/A	60	N/A	Byproduct of drinking water disinfection

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Lopez Lake WSP Aluminum (ppb)	2017	14	ND - <20	200	N/A	Erosion of natural deposits; residual from some surface water treatment processes

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD, CONT.

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Lopez Lake WSP Chloride (ppm)	2017	35	N/A	500	N/A	Runoff/leaching from natural deposits; seawater influence
Lopez Lake WSP Color (CU)	2017	4	N/A	15	N/A	Naturally-occurring organic materials
Lopez Lake WSP Copper (ppm)	2017	0.042	N/A	1.0	N/A	Naturally-occurring organic materials
Lopez Lake WSP Odor – Threshold (TON)	2017	2.1	1.0 – 4.0	3	N/A	Naturally-occurring organic materials
Lopez Lake WSP Specific Conductance (µS/cm)	2017	850	N/A	1600	N/A	Substances that form ions when in water; seawater influence
Lopez Lake WSP Sulfate (ppm)	2017	140	N/A	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Lopez Lake WSP Total Dissolved Solids – TDS (ppm)	2017	530	N/A	1000	N/A	Runoff/leaching from natural deposits
Lopez Lake WSP Turbidity (NTU)	2017	0.09	0.04 – 0.4	5	N/A	Soil runoff

*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

¹ The MRDL for chlorine is based on a running annual average of distribution system samples.

Additional General Information on Drinking Water

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

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. U.S. EPA/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-Specific Language for Community Water Systems: 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. Port San Luis Harbor 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. [Optional: If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering 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 (1-800-426-4701) or at <http://www.epa.gov/lead>.