



2018 Annual Consumer Confidence Report

Lake William Water System

This report is a summary of the quality of water provided to our customers.

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, 2018.

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

Drinking 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. As a result, all 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 USEPA's Safe Drinking Water Hotline at (800)426-4791.

DWP's Sources

The City of Big Bear Lake Department of Water produces all its water from local ground water sources. There are 3 wells and 1 reservoir with a total storage capacity of 160,000 gallons in the Lake William system. We also have 4 portable generators and 2 portable booster pumps. In 2018 there were 9.11 million gallons of water produced out of the Lake William system.

Water System Information

Throughout the year we have conducted many tests for multiple types of water contaminants. In order to ensure that tap water is safe to drink, the USEPA and the State Water Resources Control Board 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 provide similar protection for public health.

The City of Big Bear Lake Department of Water is located at 41972 Garstin Drive Big Bear Lake, CA 92315 and is open Monday through Friday from 8:00 a.m. until 4:30 p.m. Our Board of Directors meets on the fourth Tuesday of every month at 9:00 a.m. at our Garstin office. The public is welcome to participate in these meetings. Our phone number is (909) 866-5050. For questions regarding your water quality, ask for Jason Hall, or contact The Environmental Protection Agency's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water before we treat it 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.

Water Quality Data for 2018

The following tables 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 requires 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, is more than one year old.

The following terms and abbreviations are used in tables 1, 2, 3 and 4:

- **Public Health Goal (PHG)**: The level of a contaminant in drinking water below which there is no known or expected risk to health. PHG's are set by the California Environmental Protection Agency.
- **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 Environmental Protection Agency (USEPA).
- **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.
- **Regulatory Action Level (AL)**: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- **Nephelometric Turbidity Units (NTU)**. This is a measure of suspended material in water.
- **N/A**: not applicable
- **N/S**: no standard
- **ND**: not detectable at testing limit.
- **ppm**: parts per million or milligrams per liter
- **ppb**: parts per billion or micrograms per liter
- **pCi/L**: picocuries per liter (a measure of radiation)

Some people may become 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 (800) 426-4791.

Table 1: Primary Regulated Contaminants

<i>Regulated Contaminants</i>	<i>Last Sampled</i>	<i>Unit</i>	<i>Goal (PHG or MCLG)</i>	<i>State MCL</i>	<i>Detected Level (Average)</i>	<i>Detected Level (Range)</i>	<i>Major Sources</i>
Microbiological (sampled monthly)							
Total Coliform Bacteria	2018	# positive	0	2/month	0	0	Naturally present in the environment
Clarity (sampled every 3 years)							
Turbidity	2017	NTU	N/A	5	0.5	0.2 - 0.8	Soil runoff
Inorganic Chemicals (sampled every 3 years, except Nitrates which are every year)							
Fluoride	2017	ppm	1	2	0.7	ND - 1.6	Erosion of natural deposits
Nitrate (as NO3-N)	2018	ppm	10	10	4.8	0 – 9.1	Erosion of natural deposits
Radioactivity (sampled every 9 years)							
Gross Alpha Activity	2011	pCi/L	0	15	4.3	4.6 - 7.5	Erosion of natural deposits
Uranium	2011	pCi/L	0.43	20	5.4	5.4 - 10.0	Erosion of natural deposits
Additional Constituents (sampled every 3 years)							
PH	2017	units	N/S	N/S	7.1	7.0 – 6.8	N/A
Hardness (CaCO3)	2017	ppm	N/S	N/S	113	54 - 160	N/A
Calcium	2017	ppm	N/S	N/S	29.7	13 - 43	N/A
Magnesium	2017	ppm	N/S	N/S	9.2	5.1 - 13	N/A
Sodium	2017	ppm	N/S	N/S	19.9	7.9 - 30	N/A
Potassium	2017	ppm	N/S	N/S	2.7	1.7 - 5.1	N/A
Bicarbonate	2017	ppm	N/S	N/S	136.2	75 - 170	N/A
Total Alkalinity	2017	ppm	N/S	N/S	113	62 - 140	N/A

Table 2: Secondary Standards

<i>Regulated Contaminants</i>	<i>Last Sampled</i>	<i>Unit</i>	<i>Goal (PHG or MCLG)</i>	<i>State MCL</i>	<i>Detected Level (Average)</i>	<i>Detected Level (Range)</i>	<i>Major Sources</i>
Secondary Standards (sampled every 3 years)							
Odor-Threshold	2017	units	N/S	3	1	1 - 1	Naturally-occurring organic materials
Chloride	2017	ppm	N/S	500	14.9	3.9 - 20	Runoff/leaching from natural deposits
Sulfate	2017	ppm	N/S	500	11.5	2.0 - 18	Runoff/leaching from natural deposits
Total Dissolved Solids	2017	ppm	N/S	1000	187	78 - 250	Runoff/leaching from natural deposits

Secondary Standards are for contaminants that can affect the taste, odor, or appearance of the drinking water. There are no PHGs, or mandatory standard health effects language for these constituents because secondary MCLs are set on the basis of aesthetics.

Table 3: Lead and Copper

<i>Regulated Contaminants</i>	<i>No. of samples collected</i>	<i>Unit</i>	<i>Goal (PHG or MCLG)</i>	<i>State AL</i>	<i>Detected Level (90th percentile)</i>	<i>No. of sites exceeding AL</i>	<i>Major Sources</i>
Lead and Copper (sampled yearly, last sampled in 2018)							
*Lead	5	ppm	0.002	0.015	0.0028	0	Internal corrosion of household water plumbing systems
*Copper	5	ppm	0.17	1.3	0.48	0	Internal corrosion of household water plumbing systems

***Lead:** 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 of Big Bear Lake Department of Water 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 (800) 426-4791 or at <https://www.epa.gov/safewater/lead>.

***Copper:** Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time may experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years may suffer liver or kidney damage. People with Wilsons Disease should contact their personal doctor.

Table 4: Unregulated Contaminants

<i>Unregulated Contaminants</i>	<i>Last Sampled</i>	<i>Unit</i>	<i>Goal (PHG or MCLG)</i>	<i>State MCL</i>	<i>Detected Level (Average)</i>	<i>Detected Level (Range)</i>	<i>Major Sources</i>
Unregulated Inorganic Chemicals (sampled every 3 years)							
<i>(There were no unregulated inorganic contaminants detected in 2017 when last sampled)</i>							

The City of Big Bear Lake Department of Water sampled for over 80 regulated and unregulated chemicals, both organic and inorganic. Unless noted, the other results were non-detectable.

A source water assessment was conducted of the domestic water wells for the City of Big Bear Lake Department of Water "Lake William system" in December 2001. A copy of the complete assessment may be viewed at the Water Department's office at 41972 Garstin Drive in Big Bear Lake or at the SWRCB San Bernardino District office, 464 West 4th Street, Suite 437, San Bernardino, CA 92401. You may also request a summary of the assessment be sent to you by contacting Jason Hall, Production Supervisor, City of Big Bear Lake Department of Water, P.O. Box 1929, Big Bear Lake, CA 92315, or call (909) 866-5050.



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