# Consumer Confidence Water Quality Report 2024

## City of Big Bear Lake Department of Water & Power

Big Bear Shores RV Park System

41972 Garstin Drive Big Bear Lake, CA 92315

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## To Our Customers

The City of Big Bear Lake Department of Water & Power (DWP) is proud to present our Annual Water Quality Report, also referred to as a Consumer Confidence Report (CCR). By law, each community water system is required to provide this report to its customers each year.

Your CCR Provides Need-To-Know Information such as:

Where your **water comes from (Sources).**

A list of **regulated contaminants** detected and the level.

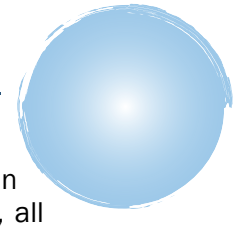
Potential **health effects** from consuming contaminated water and safeguards against water-related illnesses.

**Contaminant levels** in your area compared to national standards and any violations of health-based standards.

## Water System Information

This report is a summary of the quality of water provided to customers. Throughout the year DWP conducts hundreds of tests for multiple types of water contaminants. To ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Regulations also establish limits for contaminants in bottled water that provide similar protection for public health.

## Drinking Water Sources



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 tests drinking water for many contaminants as required by state and federal regulations. This report shows the results of monitoring for the period of January 1 - December 31, 2024**

## DWP's Sources

DWP produces all its water from local ground water sources. There are 2 wells, 3 boosters and 1 reservoir with a total storage capacity of 125,000 gallons. 4 portable generators, and 2 portable booster pumps are available for deployment to maintain this system during emergencies. In 2024 there were 5.56 million gallons of water produced out of the Big Bear Shores RV Park system.

*DWP's mountaintop water supply is geographically isolated from any state or regional water sources replenished solely from precipitation. Please help protect this strong but limited water supply by conserving water. Contact us... we can assist!*

## Definitions

The following terms and abbreviations are used in tables 1-3:

- **Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.
- **Contaminant:** Any physical, chemical, biological or radiological substance or matter in water. Drinking water may reasonably be expected to contain at least small amounts of some contaminants. Some contaminants may be harmful if consumed at certain levels in drinking water. The presence of contaminants does not necessarily indicate that the water poses a health risk.
- **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 USEPA.
- **N/A:** Not applicable
- **N/S:** No standard
- **ND:** Not detectable at testing limit.
- **Nephelometric Turbidity Units (NTU):** This is a measure of suspended material in water.
- **ppm:** parts of substance per million parts of water or milligrams per liter.
- **ppb:** parts of substance per billion parts of water or micrograms per liter.
- **pCi/L:** picocuries per liter (a measure of radiation)
- **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.

## Contaminants

Contaminants that may be present in source water before treatment include:

- Microbial contaminants, such as viruses and bacteria that can come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, agricultural application, and septic systems.
- Radioactive contaminants can be naturally occurring or be the result of oil and gas production and mining activities.

## How To Read The Tables 1-3

- Starting with “Regulated Contaminants” on the far-left column, read across.
- The next column to the right, “Last Sample,“ is the year the sample was taken for the Regulated Contaminants on the far-left column.
- The same pattern can be followed for the rest of the columns, reading from left to right: “Range” tells the highest and lowest amounts measured.
- “Goal,” “MCLG,” or “PHG” is the goal level for that substance (this may be lower than what is allowed).

- "State MCL" shows the highest level of substance (contaminant) allowed.
- "Average Detected" represents the measured amount (less is better).
- A "No" in the "Violation" column indicates government requirements have been met.
- "Major Sources" in Drinking Water tells where the substance usually originates.

## Water Information Sources

- American Water Works Association: www.awwa.org
- Centers for Disease Control and Prevention: www.cdc.gov
- City of Big Bear Lake Department of Water: www.bbldwp.com
- National Library of Medicine/National Institute of Health: www.nlm.nih.gov/medlineplus/drinkingwater.html
- State Water Resources Control Board, Division of Drinking Water: www.waterboards.ca.gov/drinking_water/programs/
- United States Environmental Protection Agency (USEPA): www.epa.gov

Certain individuals are 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, persons with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk.

These individuals 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.

## Water Quality Data For 2024

The following tables list all the drinking water contaminants detected during the most recent sampling. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. The state requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some data, though representative of the water quality, is more than one year old.

Table 1: Primary Regulated Contaminants

| Regulated Contaminants | Last Sample | Range Detected | | Goal (PHG or MCLG) | State MCL/ TT | Average Detected | Violation | Major Sources |
|---|---|---|---|---|---|---|---|---|
| | | Low | High | | | | | |
| **Microbiological (sampled monthly)** | | | | | | | | |
| Total Coliform Bacteria (# positive) | 2024 | 0 | 0 | 0 | 2/ month | 0 | No | Naturally present in the environment |
| **Clarity (sampled every 3 years)** | | | | | | | | |
| *Turbidity (NTU) | 2023 | 4.0 | 5.9 | N/A | 5 | 4.95 | *See note | Soil runoff |
| **Inorganic Chemicals (sampled every 3 years, except Nitrates which are every year)** | | | | | | | | |
| *Arsenic (ppb) | 2023 | ND | 32 | 4 | 10 | 16 | *See note | Erosion of natural deposits |
| Fluoride (ppm) | 2023 | ND | 1.1 | 1 | 2 | 0.55 | No | Erosion of natural deposits |
| Nitrate (as NO3-N) (ppm) | 2023 | ND | 0.47 | 10 | 10 | 0.235 | No | Erosion of natural deposits |
| Nitrate + Nitrite (as-N) | 2024 | ND | 0.64 | 10 | 10 | 0.32 | No | Fertilizer runoff/leaching; septic/sewage leaching; erosion of natural deposits |
| **Radioactivity (sampled every 9 years)** | | | | | | | | |
| There were no Radioactivity Contaminants Detected when last sampled. | | | | | | | | |
| **Additional Constituents (sampled every 3 years)** | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PH (units) | 2023 | 7.8 | 9.0 | N/S | N/S | 8.4 | No | N/A |
| Hardness (CaCO3) (ppm) | 2023 | 18 | 230 | N/S | N/S | 128 | No | N/A |
| Calcium (ppm) | 2023 | 3.8 | 46 | N/S | N/S | 24.9 | No | N/A |
| Magnesium (ppm) | 2023 | 2.1 | 29 | N/S | N/S | 15.5 | No | N/A |
| Sodium (ppm) | 2023 | 10 | 88 | N/S | N/S | 49 | No | N/A |
| Potassium (ppm) | 2023 | 1.4 | 1.7 | N/S | N/S | 1.55 | No | N/A |
| Bicarbonate (ppm) | 2023 | 200 | 300 | N/S | N/S | 250 | No | N/A |
| Carbonate (ppm) | 2023 | ND | 12 | N/S | N/S | 6 | No | N/A |
| Total Alkalinity (ppm) | 2023 | 180 | 240 | N/S | N/S | 210 | No | N/A |

*Turbidity: Turbidity is a measure of the cloudiness of the water. Monitoring is done because it is a good indicator of water quality and the effectiveness of filtration. Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

*Arsenic: Some people who drink water containing arsenic exceeding the MCL over many years may experience skin damage or circulatory system problems and may have an increased risk of cancer. The state MCL of 10 ppb is established for non-transient water systems. The current detected level of 16 ppb is not considered harmful due to the infrequent short-term nature of consumption in a transient water system.

**Big Bear Shores RV Park is a Transient Non-Community Water System (TNCWS), a public water system that provides water in a place where people do not remain for long periods of time (such as a gas station or campground). As such, many of the standards are not applicable because guests are not expected to consume enough contaminants to affect their health.**

## Table 2: Secondary Standards

| Regulated Contaminants | Last Sample | Range Detected | | Goal (PHG or MCLG) | State MCL | Average Detected | Major Sources |
|---|---|---|---|---|---|---|---|
| | | Low | High | | | | |
| **Secondary Standards (sampled every 3 years)** | | | | | | | |
| Odor-Threshold (units) | 2023 | 1 | 1 | N/S | 3 | 1 | Naturally-occurring organic materials |
| Chloride (ppm) | 2023 | 1.4 | 4.1 | N/S | 500 | 2.75 | Runoff/leaching from natural deposits |
| Sulfate (ppm) | 2023 | 4.1 | 14 | N/S | 500 | 9.05 | Runoff/leaching from natural deposits |
| Total Dissolved Solids (ppm) | 2023 | 220 | 230 | N/S | 1000 | 225 | Runoff/leaching from natural deposits |
| Aluminum (ppb) | 2023 | 100 | 120 | N/S | 200 | 110 | Leaching from natural deposits |
| Iron (ppb) | 2023 | 110 | 280 | N/S | 300 | 195 | Leaching from natural deposits |
| Manganese (ppb) | 2023 | ND | ND | N/S | 50 | ND | 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 based on aesthetics and are not considered to have violations.

## Table 3: Unregulated Contaminants

| Unregulated Contaminants | Last Sample | Range Detected | | Goal (PHG or MCLG) | State MCL | Average Detected | Major Sources |
|---|---|---|---|---|---|---|---|
| | | Low | High | | | | |
| **Unregulated Inorganic Contaminants (sampled every 3 years)** | | | | | | | |
| Boron (ppb) | 2023 | ND | 200 | N/S | 1000 | 100 | Erosion of natural deposits |
| Vanadium (ppb) | 2023 | 3.2 | 15 | N/S | 50 | 9.1 | Erosion of natural deposits |

## Source Water Assessment

A source water assessment (SWA) summarizes the likelihood of individual drinking water sources becoming contaminated (usually a short-term "contamination event") and serves as a foundation for public water systems to prepare source water (drinking water) protection plans and implement protection measures.

A source water assessment was conducted of the domestic water wells for the City of Big Bear Lake Department of Water Big Bear Shores RV Park 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 Ben Berge, Production Supervisor, City of Big Bear Lake Department of Water, P.O. Box 1929, Big Bear Lake, CA 92315, or call (909) 866-5050.

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.

DWP's Board of Commissioners meets on the fourth Tuesday of every month at 9:00 a.m. at the Garstin operations facility. The public is welcome to participate in these meetings. DWP's 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.