

Timber Lakes Water Special Service District

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2023 Annual Drinking Water Quality \ Report Timber Lakes Water SSD

We are pleased to present to you the most recent year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality of the water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water sources are springs; they are Lone Pine 1,2, 3,4,5, and 6, Cove East and Cove West, and Look Out Mountain. Lone Pine 3, 4, 5, and 6 were turned into the system in 2010.

Timber Lakes Water SSD has a Drinking Water Source Protection Plan that is available for your review. It contains information about source protection zones, potential contamination sources and management strategies to protect our drinking water. It has been determined that we have a low susceptible level to potential sources of contamination, such as septic tanks, roads, homes etc. If you have any questions regarding source protection, contact our office to review our source protection plan. Our sources are in remote locations, and there are no known potential contamination sources in the protection zones, so we consider our sources to have a low susceptibility to potential contamination events.

We are pleased to once again report that our drinking water meets federal and state requirements. We have about 982 customers connected to the water system. When connections are properly installed and maintained, the concerns are minimal. However, unapproved, and improper piping changes or connections can adversely affect not only the availability, but also the quality of the water. A cross connection may let polluted water or even chemicals mingle into the water supply system when not properly protected. This not only compromises the water quality but can also affect your health. So, what can you do? Do not make or allow improper connections at your homes. Even that unprotected garden hose lying in the puddle next to the driveway is a cross connection. When a cross connection is allowed to exist at your home, it will affect you and your family first. If you would like to learn more about helping to protect the quality of our water, call us for further information about ways you can help.

In 2021, the Environmental Protection Agency (EPA) updated the lead and copper rule to include a service line inventory. This means they require us to identify the type of piping that runs between your water meter and your home. Initially, they require information for homes built before 1989 since plumbing codes did not exclude service lines made of suspect materials until after 1989. After finishing those homes, we will then be required to develop the line type for homes built after 1989. It is worth noting that lead and copper samples taken from the Timber Lakes Water System meet EPA standards for safe drinking water. We will send each homeowner a survey to collect this information and will sincerely appreciate your cooperation in helping us meet the requirement.

On a different topic, to meet the requirements of the Utah Division of Drinking Water (DDW), this summer the District is planning to develop and redevelop springs to meet water supply requirements. Additionally, the district plans to install master and overflow meters to maintain water rights and comply with DDW regulations. The cost of these endeavors and replacing a mile of degraded pipeline, including associated telemetry, will be covered by a \$2.2 million-dollar, 0% interest, 40-year loan from DDW.

If you have any questions about this report, please contact Jody Defa at 385-450-0750 or Justin Dietrich 801-495-2224. We want our valued customers to be informed about their water utility. If you want to learn more, our monthly meetings are held on the third Tuesday of each month at 5:00 P.M. either in the Wasatch County building located at 25 North Main St. in Heber City, Utah or via Zoom. Monthly meetings are open to the public. Please contact the office at 435-654-0125 to receive an attendance link via Zoom.

Timber Lakes Water routinely monitors constituents in our drinking water in accordance with the Federal and Utah State laws. The following table shows the results of our monitoring for the period of January 1st to December 31st, 2023. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It is important to remember that the presence of these constituents does not necessarily pose a health risk.

In the following table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we have provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

ND/Low - High - For water systems that have multiple sources of water, the Utah Division of Drinking Water has given water systems the option of listing the test results of the constituents in one table, instead of multiple tables. To accomplish this, the lowest and highest values detected in the multiple sources are recorded in the same space in the report table.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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

Maximum Contaminant Level (MCL) - The “Maximum Allowed” (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The “Goal” (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

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.

Date- Because of required sampling time frames i.e., yearly, 3 years, 4 years and 6 years, sampling dates may seem outdated.

Waivers (W)- Because some chemicals are not used or stored in areas around drinking water sources, some water systems have been given waivers that exempt them from having to take certain chemical samples, these waivers are also tied to Drinking Water Source Protection Plans.

Microbiological Contaminants

| Contaminant | Violation Y/N | Level Detected | Unit Measurement | MCLG | MCL | Date Sampled | Likely Source of Contamination |
|----------------------------|---------------|----------------|------------------|------|--|--------------|--------------------------------------|
| Total Coliform Bacteria | N | 0 | N/A | 0 | Presence of coliform bacteria in 5% of monthly samples | 2023 | Naturally present in the environment |
| Fecal Coliform & E. Coli | N | 0 | N/A | 0 | If a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive | 2023 | Human and animal fecal waste |
| Turbidity for Ground Water | N | .082 | NTU | N/A | 0.5 in at least 95% of the samples, never to exceed 5.0 | 2023 | Soil runoff |

Inorganic Contaminants

| | | | | | | | |
|---|---|----------|-----|-----|--------|------|---|
| Antimony | N | ND | ppb | 6 | 6 | 2020 | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |
| Arsenic | N | ND | ppm | 0 | 10 | 2020 | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. |
| Barium | N | .044-096 | ppm | 2 | 2 | 2020 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Beryllium | N | ND | ppb | 4 | 4 | 2020 | Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries |
| Cadmium | N | ND | ppb | 5 | 5 | 2020 | Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints |
| Chromium | N | ND | ppb | 100 | 100 | 2020 | Discharge from steel and pulp mills; erosion of natural deposits |
| Copper a. 90% results # of sites that exceed the AL | N | .0653 | ppm | 1.3 | AL=1.3 | 2021 | Corrosion of household plumbing systems; erosion of natural deposits |
| Cyanide | N | ND | ppb | 200 | 200 | 2020 | Discharge from steel/metal factories; discharge from plastic and fertilizer factories |

| Contaminant | Violation Y/N | Level Detected | Unit of Measurement | MCLG | MCL | Date Sampled | Likely Source of Contaminations |
|---|---------------|----------------|---------------------|-----------------|-----------------|--------------|---|
| Fluoride | N | ND | ppb | 4000 | 4000 | 2020 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| Lead a. 90% results # of sites that exceed the AL | N | .0010 | ppb | 15 | AL=15 | 2021 | Corrosion of household plumbing systems, erosion of natural deposits |
| Mercury (inorganic) | N | ND | ppb | 2 | 2 | 2020 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland |
| Nickel | N | ND | ppb | 10000 | 10000 | 2020 | |
| Nitrate (as Nitrogen) | N | .15-.27 | ppm | 10 | 10 | 2023 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Selenium | N | ND | ppb | 50 | 50 | 2020 | Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines |
| Sodium | N | 3.6-4.2 | ppm | None set by EPA | None set by EPA | 2020 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills. |
| Sulfate | N | 2 | ppm | 1000 | 1000 | 2020 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from cropland |
| TDS (Total Dissolved solids) | N | 124-160 | ppm | 2000 | 2000 | 2020 | Erosion of natural deposits |

Radioactive Contaminants

| | | | | | | | |
|----------------|---|--------|-------|---|----|------|-----------------------------|
| Alpha Emitters | N | 0-0.4 | pCi/l | 0 | 15 | 2020 | Erosion of natural deposits |
| Radium 228 | N | 0-.001 | pCi/l | 0 | 5 | 2020 | Erosion of natural deposits |

Disinfection By-products

| | | | | | | | |
|-----------------------|---|-------|-----|-------------------|----|------|---|
| Halo acetic Acids | N | 12 | ppb | No goal for total | 60 | 2023 | By-product of drinking water disinfection |
| Total Trihalomethanes | N | 11.5 | ppb | 0 | 80 | 2023 | By-product of drinking water disinfection |
| Chlorine | N | .4-.9 | ppm | 4 | 4 | 2023 | Water additive used to control microbes. |
| | | | | | | | |

Volatile Organic Contaminants

| Contaminant | Violation Y/N | Level Detected | Unit of Measurement | Level Detected | MCLG | MCL | Likely Case of Contamination |
|-------------------------------|---------------|----------------|---------------------|----------------|------|------|--|
| Benzene | N | ND | ppm | 0 | 5 | 2020 | Discharge from chemical plants and other industrial activities |
| Carbon tetrachloride | N | ND | ppb | 0 | 5 | 2020 | Discharge from chemical plants and other industrial activities |
| Chlorobenzene | N | ND | ppb | 100 | 100 | 2020 | Discharge from chemical and agricultural chemical factories |
| o-Dichlorobenzene | N | ND | ppb | 600 | 600 | 2020 | Discharge from industrial chemical factories |
| 1,2 - Dichloromethane | N | ND | ppb | 0 | 5 | 2020 | Discharge from industrial chemical factories |
| 1,2 - Dichloromethane | N | ND | ppb | 0 | 5 | 2020 | Discharge from industrial chemical factories |
| 1,1 - Dichloroethylene | N | ND | ppb | 7 | 7 | 2020 | Discharge from industrial chemical factories |
| cis-1,2-ichloroethylene | N | ND | ppb | 70 | 70 | 2020 | Discharge from industrial chemical Factories |
| trans - 1,2 -Dichloroethylene | N | ND | ppb | 100 | 100 | 2020 | Discharge from industrial chemical factories |
| Dichloromethane | N | ND | ppb | 0 | 5 | 2020 | Discharge from pharmaceutical and chemical factories |
| 1,2-Dichloropropane | N | ND | ppb | 0 | 5 | 2020 | Discharge from industrial chemical |
| Ethylbenzene | N | ND | ppb | 700 | 700 | 2020 | Discharge from petroleum refineries |
| Styrene | N | ND | ppb | 100 | 100 | 2020 | Discharge from rubber and plastic factories; leaching from landfills |
| Tetrachloroethylene | N | ND | ppb | 0 | 5 | 2020 | Discharge from factories and dry cleaners. |
| 1,2,4 -Trichlorobenzene | N | ND | ppb | 70 | 70 | 2020 | Discharge from textile-finishing factories |
| 1,1,1 - Trichloroethane | N | ND | ppb | 200 | 200 | 2020 | Discharge from metal degreasing sites and other factories |
| 1,1,2 -Trichloroethane | N | ND | ppb | 3 | 5 | 2020 | Discharge from industrial chemical factories |
| Trichloroethylene | N | ND | ppb | 0 | 5 | 2020 | Discharge from metal degreasing sites and other factories |
| Toulene | N | ND | Ppb | 1000 | 1000 | 2020 | Discharge from petroleum factories |
| Vinyl Chloride | N | ND | ppb | 0 | 2 | 2020 | Leaching from PVC piping; discharge from plastics factories |

| Contaminant | Violation Y/N | Level Detected | Unit of Measurement | Level Detected | MCLG | MCL | Likely Cause of Contamination |
|-------------|---------------|----------------|---------------------|----------------|-------|------|---|
| Xylenes | N | ND | ppb | 10000 | 10000 | 2020 | Discharge from petroleum factories; discharge from chemical factories |

In addition to the sampling outlined above, we have also sampled for 31 Synthetic Organic Contaminants, Radiological Contaminants and 1 Unregulated Contaminant including Pesticides. These additional chemicals were not detected.

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. Timber Lakes 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 number below or at <http://www.epa.gov/safewater/lead>.

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring, or manmade. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. 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 is available by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

MCLs are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect. 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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

We ask that all our customers help us protect our water sources, which are the heart of our community, and our way of life.

Jody Defa, Manager
Timber Lakes Water Special Service District