



2024 Consumer Confidence Report

For

Lincoln Water Department

Lincoln, Massachusetts
MASSDEP PWSID #3157000

INTRODUCTION

At the **Lincoln Water Department (LWD)**, we understand that maintaining water service is essential for public health and safety. Protecting our customers' health and ensuring the safety of our staff and contractors are our top priorities. This report, issued annually, provides you, the consumer, with a clear overview of Lincoln's **drinking water sources** and **treated water quality**. We explain how we maintain the high quality of your water, where it comes from, how it's treated, and answer frequently asked questions about our system.

Founded in 1874, LWD delivers drinking water and fire flow protection across Town. Our water supply comes from **Flint's Pond** and the **Tower Road Well**. Water from Flint's Pond is treated and filtered at our micro-filtration plant. Our robust distribution system includes the **Bedford Road water storage tank**, **62 miles of water main**, and **491 fire hydrants**.

PUBLIC SYSTEM INFORMATION

Address: Lincoln Water Department
16 Lincoln Road
Lincoln, MA 01773

Contact Person: Richard Nolli – Water Superintendent

Telephone #: 781-259-2669

email: nollir@lincolntown.org

Internet Address: <https://www.lincolntown.org/219/Water-Department>.

Join us on Facebook at: <https://www.facebook.com/groups/747772673496079>

Your water Commissioners are:

Steven Gladstone, Chair: Steve.gladstone@gmail.com

Matt Bio: mattbio@mac.com

Patrick Lawler : pjjal@verizon.net

The Water Department Administrative office is located at 77 Sandy Pond Road, Lincoln.

Opportunities for Public Participation:

Water Commission meetings are generally held at 8:00 A.M on the 3rd Tuesday of each month via live “Adequate, alternative means” of public access pursuant to Governor Healey, on March 28, 2025, signing into law Chapter 2 of the Acts of 2025, An Act Extending Certain COVID-19 Measures Adopted During the State of Emergency which, among other things, further extends temporary provisions pertaining to the Open Meeting Law to June 30, 2027, “Adequate, alternative means” may include, without limitation, providing public access through telephone, internet, or satellite enabled audio or video conferencing or any other technology that enables the public to clearly follow the proceedings of the public body in real time.

<https://www.mass.gov/info-details/updated-guidance-on-holding-meetings-pursuant-to-the-act-extending-certain-covid-19-measures>.

Find the agenda for the Water Commission Meetings at <http://www.lincolntown.org/AgendaCenter>. Members of the public who wish to participate in the meeting may do so in the following manner:

Topic: Board of Water Commissioners Zoom Meeting

Join Zoom Meeting:

<https://us06web.zoom.us/j/85732204397?pwd=A48tTpDxOy09nPbL8waa8DnqToCAFO.1>

Meeting ID: 857 3220 4397

Passcode: 478393

VISIT OUR WEBSITE TO FIND OUT MORE ON.....

Water Department Rules and Regulations:

<https://www.lincolntown.org/DocumentCenter/View/58873/2021-Lincoln-Rules-and-Regulations?bidId=>

How to update information for your account

<https://www.lincolntown.org/DocumentCenter/View/58755/Request-for-Account-Info-Update>

Application form to request water shut off

<https://www.lincolntown.org/DocumentCenter/View/58758/Water-Shut-Off-Request-Form>

Apply for Abatement

<https://www.lincolntown.org/DocumentCenter/View/58756/Abatement-Application>

Request a final water meter read:

<https://www.lincolntown.org/DocumentCenter/View/44749/Final-Water-Bill-Request-Form>

Water Department Governance Overview:

Governed by three elected Commissioners, the Department operates as an Enterprise Fund, being supported entirely by user fees. Revenues are expected to meet or exceed expenditures on a year-to-year basis, with the difference (Retained Earnings) held in reserve to fund emergency repairs, capital expenditures, and system improvements. Our budget and capital expenses are voted on by the Town at the annual Town Meeting. We receive accounting, insurance, and personnel services from the general Town government, for which we are billed. LWD maintains liaisons with various Town entities, including Town Administration, Conservation and the Finance Committee.

The Board of Water Commissioners and Water Department Staff are committed to providing safe, reliable, and high-quality water service for our customers. To meet this commitment, the Board has developed a long-term financial and capital improvement program to ensure there are adequate funds available to make necessary investments in infrastructure and personnel.

The Board of Water Commissioners works hard to achieve a budget that supports high quality operations, needed capital investments, and will yield enough retained earnings to keep the Department fiscally healthy. Capital improvement projects continue: The Water Dept. started installing Mach-10 Ultrasonic meters, which are wired to cellular endpoints for wireless data transmission. We are continuing to proceed with the Lincoln Road water main replacement project planning. The installation of a replacement Well on Tower Road was expected to commence in the fall of 2024 but was delayed and now expected to begin in the spring of 2025 (ARPA funding). Distribution system repairs (to valves and hydrants) have been taking place and continue in 2024 (ARPA funding).

The capital investments and proactive approach to distribution system maintenance and repair will help ensure our infrastructure is operational into the future, but the challenges of expensive water main replacement and ever-tightening regulatory standards are substantial. While long-term water supply options were recently analyzed by the Water Commissioners in 2021, there are new discussions with approximately 20 Metro West communities about a regional approach to water supply by connecting to the MWRA. We are doing our due diligence to investigate this option as a possible long-term solution to clean, safe, affordable drinking water in Lincoln.

The Commission continues to work with the Lincoln Finance Committee to develop long-term financial and capital improvement programs. This ensures current water rates are sufficient and there are adequate funds available to maintain infrastructure and provide for the delivery of safe and reliable water service into the future.

WATER SYSTEM IMPROVEMENTS

The Town of Lincoln is supplied by both surface water and a groundwater well. Flint's Pond is the primary supply. Tower Road Well is a supplemental source used daily, providing redundancy and resiliency.

Source Name	Mass DEP Source ID#	Source Type	Location of Source
Flint's Pond	3157000-01S	Surface Water	North Central region of town
Tower Road Well	3157000-01G	Ground Water	Tower Road

How Are These Sources Protected?

Since 1874, when the system was known as the Lincoln Water Works, the Town recognized the need to protect its watershed. The watershed consists of 465 acres of land surrounding Flint's Pond, which is approximately 92 percent owned and/or controlled by the Town. The Town also owns the land around the Tower Road Well within the Zone I border defined by Mass DEP regulations. The Town has in place a Watershed Protection Plan designed to limit access to the water and protect the land from any development that would endanger the water supply. One of the biggest threats to the Town's water supply is improperly maintained septic systems. You can help protect your drinking water quality by pumping out your septic system every two years. Never dump hazardous substances down septic or storm drains. Do not use septic system cleaners. For more information on how to maintain your septic system you can visit:

<https://www.epa.gov/septic/how-care-your-septic-system>

Is My Water Treated?

To purify surface water, a coagulant is introduced, causing small particles and dissolved organic materials to bind together into larger flocs. These flocs are then removed as the water is filtered through the treatment plant's microfiltration membranes. To mitigate corrosiveness, Lincoln Water Department (LWD) adjusts the water's pH by adding a low concentration of either potassium hydroxide or sodium hydroxide, depending on the water's origin.

Disinfection occurs at the Flint's Pond treatment plant where chlorine is added. For dental health, fluoride is introduced at both the treatment plant and the Tower Road well. Additionally, zinc orthophosphate is applied at both locations to control corrosion and to sequester naturally occurring iron and manganese.

Monitoring and reporting Violations

We routinely monitor our water system for the presence of drinking water contaminants in compliance with the Massachusetts Department of Environmental Protection (DEP). In 2024, there were no violations of Massachusetts DEP drinking water standards.

INFORMATION ABOUT YOUR DRINKING WATER

Drinking water, including bottled water, may reasonably be expected to contain at least trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. However, some people may be more vulnerable to contaminants 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 infection. These people should seek advice about drinking water from their health care provider. More information about contaminants and potential health effects, including EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants can be obtained by calling the USEPA's Safe Drinking Water Hotline 1-800-426-4791.

Drinking water comes from various natural sources, including rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over land or through the ground, it acts as a universal solvent, dissolving naturally occurring minerals—and occasionally radioactive materials. It can also pick up substances from pets, livestock, wildlife, or human activities.

Contaminants that can be present include:

- **Microbial contaminants**, such as viruses and bacteria, which may come from septic systems, dog waste and wildlife.
- **Inorganic contaminants**, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- **Radioactive contaminants**, which may be naturally occurring or be the result of oil and gas production and mining activities.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, septic systems, fertilizer, dog waste and other manure.
- **PFAS – Per- and Polyfluoroalkyl Substances**, manufactured “forever” compounds that have been used in industry and consumer products since the 1940s.

Lead and Copper: Infants and children who drink water containing lead in excess of the 0.015ppm action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Copper is an essential nutrient, but some people who drink water containing copper in excess of the 1.3ppm action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson’s disease should consult their personal doctor.

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. LWD 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 1 minute before using water for drinking or cooking. If you are concerned about lead in your water, you may want 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 <https://www.epa.gov/aboutepa/epa-hotlines> -

Turbidity has no health effects. However, 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. **Sodium** sensitive individuals, such as those experiencing hypertension, kidney failure, or congestive heart failure, should be aware of sodium levels where exposures are being carefully controlled.

Manganese is a naturally occurring mineral found in rocks, soil, groundwater, and surface water. Manganese is necessary for proper nutrition and is part of a healthy diet but can have undesirable effects on certain sensitive populations at elevated concentrations. The United States Environmental Protection Agency (EPA) and Mass DEP have set an aesthetics-based Secondary Maximum Contaminant Level (SMCL) for manganese of 50 ug/L (micrograms per liter), or 50 parts per billion. In addition, Mass DEP’s Office of Research and Standards (ORS) has set a drinking water guideline for manganese (ORSG), which closely follows the EPA public health advisory for manganese. Drinking water may naturally have manganese and, when concentrations are greater than 50 ppb, the water may be discolored and taste bad. Over a lifetime, the EPA recommends that people drink water with manganese levels less than 300 ppb and over the short term, EPA recommends that people limit their consumption of water with levels over 1000 ppb, primarily due to concerns about possible neurological effects. Children younger than one year old should not be given water with manganese concentrations over 300 ppb, nor should formula for infants be made with that water for more than a total of ten days throughout the year. The ORSG differs from the EPA’s health advisory because it expands the age group to which a lower manganese concentration applies from children less than six months of age to children up to one year of age to address concerns about children’s susceptibility to manganese toxicity.

Water Health Advisory for manganese at:

https://www.epa.gov/sites/production/files/2014-09/documents/support_cc1_magnese_dwreport_0.pdf

Mass DEP Office of Research and Standards (ORSG) for manganese:

<https://www.mass.gov/doc/massdep-office-of-research-and-standards-guideline-orsg-for-manganese/download>

FOR YOUR HEALTH

In order to ensure that tap water is safe to drink, Mass DEP and USEPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration and the Massachusetts Department of Public Health regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

The U.S. Environmental Protection Agency (USEPA) sets drinking water standards for substances it classifies as regulated contaminants to protect human health. In contrast, unregulated contaminants are those for which the USEPA has not yet established such standards. Monitoring these unregulated contaminants helps the USEPA understand their presence in drinking water and decide if future regulation is necessary.

Per- and polyfluoroalkyl substances (PFAS) are a group of man-made chemicals that includes PFOA, PFOS, Gen-X, and many other chemicals. PFAS compounds have been manufactured and used in a variety of industries around the globe, including in the United States since the 1940s. PFOA and PFOS have been the most extensively produced and studied of these chemicals. Both chemicals are very persistent in the environment and in the human body – meaning they don't break down and they can accumulate over time. There is evidence that exposure to PFAS can lead to adverse human health effects. PFAS can be found in:

- Food packaged in PFAS-containing materials, processed with equipment that used PFAS, or grown in PFAS-contaminated soil or water.
- Commercial household products, including stain- and water-repellent fabrics, nonstick products (e.g., Teflon), polishes, waxes, paints, cleaning products, and fire-fighting foams (a major source of groundwater contamination at airports and military bases where firefighting training occurs).
- Workplace, including production facilities or industries (e.g., chrome plating, electronics manufacturing or oil recovery) that use PFAS.
- Drinking water typically localized and associated with a specific facility (e.g., manufacturer, landfill, wastewater treatment plant, firefighter training facility).
- Living organisms, including fish, animals and humans, where PFAS can build up and persist over time.

Lincoln started PFAS testing in the Fall of 2021. We have not had a detect over the 20ppt (parts per trillion) Massachusetts DEP MCL (Maximum Contaminant Level). Flint's Pond has detected just above the 1ppt detection limit. This is similar to other surface water bodies in Massachusetts and can be considered environmental background levels. PFOS has been consistently detected at Tower Road Well. Tower Road Levels detected in January were 6.83ppt and increased to 11.4ppt. Levels from the Water Treatment Plant were lower than 2ppt and in July increased to 2.03ppt. Results for 2024 were all under the 20ppt MCL and the well water is blended with the surface water in the distribution system, further reducing the concentration. For reference, 20ppt is equal to one second every 1,585 years.

WATER CONSERVATION

The DEP issued the Town's water withdrawal permit in 2010. There are three major permit provisions with respect to water consumption: 1. Achieve State-wide goal of 65 gallons per person per day residential use. 2. Total annual withdrawal, including non-residential users and unaccounted for (lost) water, not exceed 193.45 million gallons per year. 3. Unaccounted for water be less than 10% of total water use. We have achieved the residential water use goal six times in the last ten years, including 2024. Our overall annual water withdrawal was 155.85 million gallons. We have gone to twice a year leak detection surveys and instituted a stringent water service line repair protocol which has reduced our unaccounted-for water loss from: 26% in 2021, 20% in 2022 (adjusted up from 5% by the DEP), 15% in 2023 and down to 9.4% for 2024.

Commissioners urge our customers to follow the annual and drought-related water restrictions and to take advantage of the conservation rebate programs we offer to replace older toilets and appliances with new water-saving ones. We also offer rebates for irrigation system controllers, moisture sensors and rain barrels. You can visit our web page for more information at <https://www.lincolntown.org/398/Restrictions-Conservation-Water-Use>.

Since the Town of Lincoln exceeded the DEP’s target of 10% UAW (unaccounted for water loss) again in 2023, the Department is required to enact outdoor watering conservation measures from May 1 to September 30 as a condition of our Water Management Act Permit. Outdoor watering allowed according to house numbers: EVEN – Tues / Sat, ODD – Wed / Sun, before 7:00 a.m. and after 7:00 p.m. These conservation measures could become more strict, depending on drought level declarations made by the State in the Northeast Region. The full text of the Department’s Drought Management Plan, which included the DEP’s restrictions on our seasonal non-essential outdoor water usage, can be found at:

<https://www.lincolntown.org/DocumentCenter/View/35626/LWD-Drought-Management-Plan-July-2022?bidId=>

Please note that water users who have applied for and received the agricultural rate, and those agricultural users who meet the requirements of a farmer in the Right to Farm by-law, are considered “essential” outdoor water users.

Product	Qualifying Criteria	Limit Per Account	Rebate
Low Flow Aerator or Showerhead		No limit	Sold at Cost
Rain Barrel	Receipt	1	\$50
Toilet	WaterSense	1	\$50
Clothes washer	Energy Star certified	1	\$150
Irrigation controller	WaterSense	1	\$50
Moisture sensor	WaterSense	1	\$50

CROSS CONNECTION CONTROL PROGRAM

The purposes of this program are:

- To protect the public potable water supply from the possibility of contamination or pollution by isolating such contaminants or pollutants which could backflow or back-siphon into the public water system.
- To promote the elimination or control of existing cross connections, actual or potential between its customer’s potable water system, and non-potable systems.
- To provide for the maintenance of a continuing program of cross connection control which will effectively prevent the contamination or pollution of all potable water systems by cross connection. For information regarding our program please contact the Lincoln Water Department at 781-259-2669.

What you can do to help prevent a cross-connection: Without the proper protection something as simple as a garden hose has the potential to contaminate or pollute the drinking water lines in your house. In fact, over half of the country’s cross-connection incidents involve unprotected garden hoses. Typically, if you don’t want to drink it, don’t connect your water system to it. There are very simple steps that you, as a drinking water user, can take to prevent such hazards:

- Never submerge a hose in soapy water buckets, pet watering containers, pool, tubs, sinks, drains, or chemicals.
- Never attach a hose to a garden sprayer without the proper backflow preventer.
- Buy and install a hose bibb vacuum breaker on every threaded water fixture. The installation can be as easy as attaching a garden hose to a spigot. This inexpensive device is available at most hardware stores and home-improvement centers.
- Identify and be aware of potential cross-connections to your water line.
- Buy appliances and equipment with a backflow preventer.

- Buy and install backflow prevention devices or assemblies for all high and moderate hazard connections.

IMPORTANT DEFINITIONS

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)

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

NTU: Nephelometric Turbidity Units

Maximum Contaminant Level (MCL): 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 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.

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

90th Percentile: Out of every 10 homes sampled, 9 were at or below this level. This number is compared to the action level to determine lead and copper compliance.

Secondary Maximum Contaminant Level (SMCL): These standards are developed to protect aesthetic qualities of drinking water and are not health based.

Unregulated Contaminants: Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated monitoring is to assist EPA in determining their occurrence in drinking water and whether future regulation is warranted.

Office of Research and Standards Guideline (ORSG): This is the concentration of a chemical in drinking water at or below which adverse health effects are unlikely to occur after chronic (lifetime) exposure. If exceeded, it serves as an indicator of the potential need for further action.

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

Running Annual Average (RAA): The average of four consecutive quarters of data.

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 contamination.

WATER QUALITY DATA 2024

To safeguard the quality of our drinking water, the EPA promulgates and enforces requirements related to the prevalence of certain contaminants within public water supply systems. The water quality information presented in the below tables is from the most recent round of testing done in accordance with these regulations. All results shown were from samples collected during the last calendar year unless otherwise noted in the tables. ***Only the detected contaminants are shown.*** The detectable presence of a contaminant does not necessarily indicate any health risks associated with the drinking water. Presented are five sets of contaminants and their respective limits that the water is regularly tested for and measured against: Microbiological; Primary; Secondary, Radioactive, and Lead & Copper Contaminants. The set of Primary Contaminants includes contaminants and their associated limits that are known to occur in public water supply systems and can adversely affect public health. The Secondary Parameters and their limits are set for both aesthetic purposes and for assisting the EPA in understanding their presence in drinking water and whether there is any need for future regulation of these contaminants.

MICROBIOLOGICAL SAMPLING						
Substance	Sample Date	MCLG	MCL/AL	Highest # Positive Monthly	Violation	Possible Source(s) of Contamination and Health Language
Total Coliform	2024	Absent	> 1/month TT	0	No	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system.
Fecal Coliform or E.coli	2024	Absent	0 TT	0	No	E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems.

PRIMARY CONTAMINANTS							
Substance	Sample Date	MCLG/MRDLG	MCL/MRDL	(Highest) Detected or Running Average	Range Detected	Violation	Possible Source(s) of Contamination and Health Language
Chlorine - Total (ppm)	2024	4	4	1.13	ND - 1.13	No	Some people who use water containing chlorine in excess of the MRDL could experience irritating effects to eyes and nose.
Nitrate (ppm)	2024	10	10	0.56	< 0.05 – 0.56	No	Runoff from fertilizer use; leaching from septic tanks; natural deposits. Infants below age of six months who drink water containing Nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.
Fluoride (ppm)	2024	4	4	1.1	0.14 – 1.1	No	Erosion of natural deposits; water additive that promotes strong teeth.
Total TTHM (ppb)	Quarterly 2024	--	80	87	44 - 87	No	Carcinogenic by-product of drinking water chlorination.
Total HAA5 (ppb)	Quarterly 2024	--	60	41	1.0 - 41	No	Carcinogenic by-product of drinking water chlorination.

Secondary Contaminants							
Substance	Sample Date	Range Detected	Highest Detected	SMCL	ORSG or Health Advisory	Violation	Possible Source(s) of Contamination and Health Language
Sodium (ppm)	2024	18.0-45.2	45.2	250	20 **	NA	Some people who drink water containing sodium at high concentrations for many years could experience an increase in blood pressure. Discharge from the use and improper storage of sodium containing de-icing compounds or in water-softening agent. Use of salt for de-icing roads.

*US EPA and Mass DEP have established public health advisory levels for manganese to protect against concerns of potential neurological effects and a one-day and 10-day HA of 1000 ppb for acute exposure.

** Detected levels of sodium are well within recommended limits. Nonetheless, people restricted to sodium intake of 500 mg/day due to health issues such as high blood pressure, heart disease, or kidney failure should discuss with their doctors whether to drink Lincoln water.

PFAS							
Substance	Sample Date	MCLG/MRDLG	MCL/MRDL	Highest Detected	Range Detected	Violation	Possible Source(s) of Contamination and Health Language
Combined PFAS (ppt)	2024	20	0.5	11.4	< 2.00-11.4	No	Found in consumer products, occupational exposure, eating contaminated food, or drinking contaminated water. PFOS can be present on food crops, in packaged food items, or in the fish people catch and eat. May cause damage to liver, immune system, low birth weight and birth defects.

Turbidity	Limit	Lowest Monthly % of Samples	Highest Detected Daily Value	Violation (Y/N)	Possible Source of Contamination
Daily 2024 Compliance (NTU)	1	---	0.08	N	Soil runoff
Monthly Compliance*	At least 95%	100%	100%	N	
Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality.					
*Monthly turbidity compliance is related to a specific treatment technique (TT). Our system filters the water so at least 95% of our samples each month must be below the turbidity limits specified in the regulations.					

LEAD & COPPER (SAMPLES COLLECTED FROM HOMES IN THE SERVICE AREA)							
Substance	Sample Date	MCLG	MCL/AL	No. of Sites Sampled	90th %	Sites above AL	Possible Source(s) of Contamination
Lead (ppb)	2024	0	15	20	0.0013	0	Corrosion of household plumbing systems; Erosion of natural deposits. Can cause damage to brain and kidneys. Interfere with production of red blood cells.
Copper (ppm)	2024	1.3	1.3	20	0.238	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

See Lead and Copper section on page 3-4 for health effects and corrective actions.

Disinfection By-products							
Substance	Sample Date	ORSG	Highest Detected	Range Detected	Violation	Possible Source(s) of Contamination and Health Language	
Chloroform (ppb) (67663)	2024	70	20	< 0.5-20	No	By-product of chlorination. Drinking water with high levels of Chloroform for many years could cause liver, kidney problems and may have an increased risk of cancer.	
Bromodichloromethane (ppb) (75274)	2024	NA	4.5	< 0.5-4.5	No	By-product of chlorination. Drinking water with high levels of Bromodichloromethane for many years could experience liver and kidney problems.	
Dibromochloromethane (ppb)	2024	NA	0.47	< 0.5-0.47	No	By-product of drinking water chlorination, possible carcinogen.	
Dichloroacetic Acid (ppb)	2024	NA	13	0.90-13	No	By-product of chlorination, possible carcinogen.	
Trichloroacetic Acid (ppb)	2024	NA	28	0.54-28	No	By-product of chlorination, possible carcinogen.	