

PWSID ME0090870
LISBON WATER DEPARTMENT
2024 Consumer Confidence Report

General Information

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Report Covering Calendar Year: Jan 1 - Dec 31, 2024

Upcoming Regularly Scheduled Water Commissioners' Meeting(s):

Meetings are held on the 2nd Tuesday of every month at 5pm at the office located at 639 Lisbon St, Lisbon Falls.

Source Water Information

Description of Water Source: Wells: 4

The Department has four gravel packed wells. The Bauer well is drilled to a depth of 56 feet and is located on the southwest side of route 196 on the easterly edge of Lisbon Village. The Ann Street well is drilled to a depth of 78 feet and is located on the east side of Ann Street in the middle of the Lisbon Falls Village. The Moody wells are on the westerly side of Lisbon Village and are drilled to 70 feet and 88 feet. Currently, the Ann Street well facility is not producing water for the utility as the water quality does not meet requirements.

Water Treatment & Filtration Information:

All water pumped to the distribution system is treated with a poly-orthophosphate blend and sodium hypochlorite. Treatment or filtration is based on water quality tests designed, reviewed and regulated from the Maine Department of Health and Human Services. All sites are currently equipped with a means to add disinfection should water quality results indicate that need. The Moody well facility provides a means of disinfection in addition to four (4) Green Sand filters. The Green Sand filters reduce or remove contaminants found in the Moody Wells.

Source Water Assessment:

The sources of drinking water include rivers, lakes, ponds, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material and can pick up substances resulting from human or animal activity. The Maine Drinking Water Program (DWP) has evaluated all public water supplies as part of the Source Water Assessment Program (SWAP). The assessments included geology, hydrology, land uses, water testing information, and the extent of land ownership or protection by local ordinance to see how likely our drinking water source is to being contaminated by human activities in the future. Assessment results are available at town offices and public water systems.

Definitions:

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

Locational Running Annual Average (LRAA): A 12 month rolling average of all monthly or quarterly samples at specific sampling locations. Calculation of the RAA may contain data from the previous year.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in 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.

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.

Running Annual Average (RAA): A 12 month rolling average of all monthly or quarterly samples at all locations. Calculation of the RAA may contain data from the previous year.

Secondary Maximum Contaminant Level (SMCL): Non-mandatory water quality standards.

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

Units:

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

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

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

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

MFL = million fibers per liter.

pos = positive samples.

Water Test Results

Contaminant Date Results MCL MCLG Possible Sources of Contamination

Microbiological

COLIFORM (TCR) (9) 2024 0 pos 1 pos/mo or 5% 0 pos Naturally present in the environment.

Inorganics

ARSENIC (1) 11/1/2024 10.3 ppb 10 ppb 0 ppb Erosion of natural deposits. Runoff from orchards, glass and electronics production wastes.

BARIUM 12/5/2023 0.0206 ppm 2 ppm 2 ppm Discharge of drilling wastes. Discharge from metal refineries. Erosion of natural deposits.

CHROMIUM 12/5/2023 1 ppb 100 ppb 100 ppb Discharge from steel and pulp mills. Erosion of natural deposits.

NITRATE (6) 5/30/2024 1.39 ppm 10 ppm 10 ppm Runoff from fertilizer use. Leaching from septic tanks, sewage. Erosion of natural deposits.

Synthetics

TOTAL PFAS (6 regulated) (7) 12/23/2024 19.3 ppt 20 ppt 0 ppt Man-made chemicals in a wide variety of consumer products and industrial applications. Stain- and water-resistant fabrics, carpeting, non-stick cookware, cleaning products and paints, Class B Firefighting foam (AFFF) foam and industrial processes.

Radionuclides

COMBINED URANIUM 12/5/2023 9.5 ppb 30 ppb 0 ppb Erosion of natural deposits.

Lead/Copper

COPPER 90TH% VALUE (5) 1/1/2024 - 6/30/2024 0.34 ppm AL = 1.3 ppm 1.3 ppm Corrosion of household plumbing systems.

Range (0.0376-0.544 ppm)

Number of sampling sites exceeding the action level: 0

LEAD 90TH% VALUE (5) 1/1/2024 - 6/30/2024 3.6 ppb AL = 15 ppb 0 ppb Corrosion of household plumbing systems.

Range (0-15.8 ppb)

Number of sampling sites exceeding the action level: 1 Complete lead tap sampling data are available upon request

Disinfectants and Disinfection Byproducts

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TOTAL HALOACETIC ACIDS (HAA5) (10) LRAA(2024) 3.7 ppb 60 ppb 0 ppb By-product of drinking water chlorination.

TOTAL TRIHALOMETHANE (TTHM) (10) LRAA(2024) 13 ppb 80 ppb 0 ppb By-product of drinking water chlorination.

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TOTAL HALOACETIC ACIDS (HAA5) (10) LRAA(2024) 4.6 ppb 60 ppb 0 ppb By-product of drinking water chlorination.

TOTAL TRIHALOMETHANE (TTHM) (10) LRAA(2024) 23 ppb 80 ppb 0 ppb By-product of drinking water chlorination.

Chlorine Residual (Add chlorine residual information)

CHLORINE RESIDUAL Range (0.00-2.01 ppm) MRDL=4 ppm MRDLG= By-product of drinking water chlorination. 4 ppm

Notes:

1) Arsenic: While your drinking water may meet EPA's standard for Arsenic, if it contains between 5 to 10 ppb you should know that the standard balances the current understanding of arsenic's possible health effects against the costs of removing it from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. Quarterly compliance is based on running annual average. **The annual average for Arsenic exceeded the 10ppb due to a sample taken from the Ann St. well site that is not putting water into the distribution system.**

2) E. coli: 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.

3) Fluoride: For those systems that fluoridate, fluoride levels must be maintained between 0.5 to 1.2 ppm. The optimum level is 0.7 ppm.

4) Gross Alpha: Action level over 5 pCi/L requires testing for Radium 226 and 228. Action level over 15 pCi/L requires testing for Uranium. Compliance is based on Gross Alpha results minus Uranium results = Net Gross Alpha.

5) Lead/Copper: Action levels (AL) are measured at consumer's tap. 90% of the tests must be equal to or below the action level.

6) Nitrate: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health provider.

7) PFAS: The degree of risk depends on the level of chemicals and duration of exposure. Laboratory studies of animals exposed to high doses of PFAS have shown numerous negative effects such as issues with reproduction, growth and development, thyroid function, immune system, neurology, as well as injury to the liver. Research is still relatively new, and more needs to be done to fully assess exposure effects on the human body.

8) Radon: The State of Maine adopted a Maximum Exposure Guideline (MEG) for Radon in drinking water at 4000 pCi/L, effective 1/1/07. If Radon exceeds the MEG in water, treatment is recommended. It is also advisable to test indoor air for Radon.

9) Total Coliform Bacteria: Reported as the highest monthly number of positive samples, for water systems that take less than 40 samples per month.

10) TTHM/HAA5: Total Trihalomethanes and Haloacetic Acids (TTHM and HAA5) are formed as a by-product of drinking water chlorination. This chemical reaction occurs when chlorine combines with naturally occurring organic matter in water. Compliance is based on LRAA.

11) Turbidity: 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.

All other regulated drinking water contaminants were below detection levels.

Secondary Contaminants (You are not required to list detects for secondary contaminants, but this information, particularly sodium levels, might be useful to your customers. The decision to supply this information in your CCR is up to you.)

SODIUM	45.4 ppm	12/5/2023
CHLORIDE	80 ppm	12/5/2023
IRON	0.5 ppm	12/5/2023
MAGNESIUM	8.42 ppm	12/5/2023
MANGANESE	0.298 ppm	12/5/2023
NICKEL	0.0021 ppm	12/5/2023
ZINC	0.0553 ppm	12/5/2023
SULFATE	21 ppm	12/5/2023

Health Information

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 water poses a health risk.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which 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, which 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, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban runoff, and septic systems.

Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791) or at the following link:

<https://www.epa.gov/ccr/forms/contact-us-about-consumer-confidence-reports>

Unregulated Contaminants Monitoring

Unregulated contaminants are those for which U.S. EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of these contaminants in drinking water and whether future regulation is warranted. In 2023 we participated in the fifth round of the Unregulated Contaminant Monitoring Rule (UCMR 5). We had the following detections for contaminants in this round of testing:

Contaminant	Sample Year	Avg Level Found	Range of Detections
Lithium	2024	17.5 ppb	11.9-22.9 ppb
PFBS	2024	9.15 ppt	9-9.3 ppt
PFHxA	2024	4.75 ppt	4-5.5 ppt
PFHxS	2024	7.88 ppt	3.7-13.2 ppt
PFOA	2024	4.1 ppt	
PFPeA	2024	3.7 ppt	3.3-6.7 ppt

Lead and Copper

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. Your public water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your public water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at: <http://www.epa.gov/safewater/lead>

Our system completed a Lead Service Line Inventory as required by the Revised Lead and Copper Rule. It is publicly accessible at this location: [The Lisbon Water Dept Office at 639 Lisbon St, Lisbon Falls ME 04252](#)

Location/URL (must be direct)

Violations

Violation Period	Violation Type
3/31/2024 - 7/1/2024	66 Violation - LEAD CONSUMER NOTICE (LCR) LEAD & COPPER RULE
8/28/2024	MO Violation - MANAGEMENT & OPERATIONS
8/1/2024 - 8/31/2024	07 Violation - TREATMENT TECHNIQUES (OTHER) ARSENIC**
1/1/2024 - 6/30/2024	53 Violation - WATER QUALITY PARAMETER M/R (LCR) LEAD & COPPER RULE TREAT PT 2
7/1/2024 - 12/31/2024	53 Violation - WATER QUALITY PARAMETER M/R (LCR) LEAD & COPPER RULE TREAT PT 2

Treatment Technique Violation: In 2024, our drinking water treatment/filtration system malfunctioned. Notification was distributed to all residents. Maintenance and repairs were done to the water treatment/filtration system in August and water tests demonstrate the treatment is working correctly again.

In 2024, we failed to adequately test or failed to report water quality parameters following a lead/copper exceedance. When a water system exceeds a lead or copper action level, they are required to collect additional water quality parameters to help determine whether their water is corrosive and contributing to the high values or to ensure that they are adjusting their pH adequately to prevent corrosion. We failed to take/report the necessary tests, but have collected/will collect the required tests needed to come back into compliance.

Maintenance & Operations Violation: In 2024, we failed to adequately maintain and operate our public water system per requirements of the Safe Drinking Water Act and the State of Maine Drinking Water Program. Specifically, System failed to notify the DWP immediately when they experienced a failure in their treatment processes that allowed arsenic sludge from the decant chambers to enter the distribution system-AMS

****In November, as reported to the Board of Water Commissioners, the engineer's investigation showed that there was no failure within the treatment process and all water was filtered and treated that entered the distribution system. -SR**

We are required to notify any customer who participated in our lead/copper testing of their individual lead results. In 2024, we failed to provide this information to our customers or failed to report information to the DWP on time.

Waiver Information (to be included in the CCR for systems that were granted a waiver)

No Water Testing Waivers in 2024

Please share this information with anyone who drinks this water (or their guardians), especially those who may not have received this report directly.