

PWSID ME0090200
BOOTHBAY REGION WATER DISTRICT
2020 Consumer Confidence Report

General Information

Water System Contact Name: Boothbay Region Water District

Address: P.O. Box 520, 184 Adams Pond Road

City, State, Zip Code: Boothbay, Maine 04537

Telephone #: 207-633-4723

Fax#: 207-633-7921

Email: jziegra@bbrwd.org

Report Covering Calendar Year: Jan 1 - Dec 31, 2020

Upcoming Regularly Scheduled Meeting(s): Second and Fourth Tuesday 6pm (Standard Time) & 7PM (Daylight Saving Time)

Source Water Information

Description of Water Source: Surface Water Intakes: 2 (Adams Pond, Knickerbocker Pond)

Both Adams Pond and Knickerbocker Lake are listed by Maine as "Most At Risk for Development" and both are located within the town of Boothbay.

Water Treatment & Filtration Information:

The Adams Pond Treatment Plant treats 100% of the water supplied to the region through twin, upflow clarifier treatment units.

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:

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.

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.

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.

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

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.

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).

pos = positive samples.

MFL = million fibers per liter

Water Test Results

Contaminant	Date	Results	MCL	MCLG Possible Sources of Contamination
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Microbiological

COLIFORM (TCR) (1)	2020	0 pos	1 pos/mo or 5%	0 pos Naturally present in the environment.
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Inorganics

BARIUM	3/24/2020	0.0057 ppm	2 ppm	2 ppm Discharge of drilling wastes. Discharge from metal refineries. Erosion of natural deposits.
FLUORIDE (3)	1/8/2020	1.04 ppm	4 ppm	4 ppm Erosion of natural deposits. Water additive which promotes strong teeth. Discharge from fertilizer and aluminum factories.

Lead/Copper

COPPER 90TH% VALUE (4)	1/1/2018 - 12/31/2020	0.0186 ppm	AL = 1.3 ppm	1.3 ppm Corrosion of household plumbing systems.
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Disinfectants and Disinfection Byproducts

LOBSTER COVE RD

TOTAL HALOACETIC ACIDS (HAA5) (9)	LRAA(2020)	25 ppb Range (22–34 ppb)	60 ppb	0 ppb By-product of drinking water chlorination.
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TOTAL TRIHALOMETHANE (TTHM) (9)	LRAA(2020)	41.8 ppb Range (31.6–52.5 ppb)	80 ppb	0 ppb By-product of drinking water chlorination.
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TOWNSEND AVENUE

TOTAL HALOACETIC ACIDS (HAA5) (9)	LRAA(2020)	25 ppb Range (20–35 ppb)	60 ppb	0 ppb By-product of drinking water chlorination.
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TOTAL TRIHALOMETHANE (TTHM) (9)	LRAA(2020)	38.4 ppb Range (28.2–55.5 ppb)	80 ppb	0 ppb By-product of drinking water chlorination.
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Chlorine Residual (Add chlorine residual information)

CHLORINE RESIDUAL	Range (<u>1.04</u> - <u>2.24</u> ppm)	MRDL=4 ppm	MRDLG= 4 ppm	By-product of drinking water chlorination.
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Turbidity (Add turbidity information, highest monthly reading in 2020)

TURBIDITY	<u>0.02</u>	<u>0.27</u> NTU	5 ntu	N/A Soil runoff.
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Notes:

- 1) Total Coliform Bacteria: Reported as the highest monthly number of positive samples, for water systems that take less than 40 samples per month.
- 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) Lead/Copper: Action levels (AL) are measured at consumer's tap. 90% of the tests must be equal to or below the action level.
- 5) 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.
- 6) 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 circulator problems. Quarterly compliance is based on running annual average.
- 7) 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.
- 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) 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 running annual average.

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.)

ZINC	0.0049 ppm	3/24/2020
CHLORIDE	21 ppm	3/24/2020
MAGNESIUM	1 ppm	3/24/2020

MANGANESE	0.094 ppm	3/24/2020
SODIUM	20 ppm	3/24/2020
SULFATE	14 ppm	3/24/2020

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>

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. Boothbay Region Water District 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 or at the following link:

<http://www.epa.gov/safewater/lead>

Violations

Violation Period	Violation Type
1/1/2019 - 12/31/2019	71 Violation - CCR REPORT CONSUMER CONFIDENCE RULE

As a community public water system, we are required to provide a consumer confidence report (CCR) to our customers on an annual basis and document to the State Drinking Water Program (DWP) that we completed this requirement. We distributed the required CCR in 2020, but failed to provide certification, along with a copy of the distributed CCR, to the DWP. This resulted in our receiving a reporting violation.

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

In 2020, our system was granted a 'Synthetic Organics Waiver.' This is a three year exemption from the monitoring/reporting requirements for the following industrial chemical(s): TOXAPHENE/CHLORDANE/PCB, HERBICIDES, CARBAMATE PESTICIDES, SEMIVOLATILE ORGANICS. This waiver was granted due to the absence of these potential sources of contamination within a half mile radius of the water source(s).

Maine Drinking Water Program

Consumer Confidence Report Certification Form

PWSID#: ME0090200

Name of Public Water System: BOOTHBAY REGION WATER DISTRICT

Instructions:

1. Distribute copies of your Consumer Confidence Report (CCR) to all users served by your public water system by **JULY 1ST**.
2. Use the checklist below to check off which methods you use to distribute your CCR- you **MUST** select **AT LEAST ONE** option from **EACH** of the two columns below.
3. Please complete the certification section below and submit with a copy of the CCR distributed to customers to the Maine Drinking Water Program by **OCTOBER 1ST**.

CHECK ALL APPLICABLE DISTRIBUTION METHODS (at least 1 option from each column):

Direct Delivery Method to each customer

- Mail paper copy
- Hand Deliver
- Mail notice that CCR is available on website via a direct URL (attach copy of notice i.e. bill)
www. _____
- Email direct URL
www. _____
- Email CCR as a file attachment
- Email CCR in message
- Publication of CCR in local newspaper (attach copy). Approval needed.
- Notify customers of availability of paper copy (only systems less than 500 people)

Good Faith Effort

to reach non-bill paying or other consumers

- Mailing the CCR to postal patrons within the service area (attach zip codes used).
- Delivery of multiple copies to single bill addresses serving several persons such as: apartments, businesses, and large private employers. Please list/attach copy.
- Posting on Internet at URL
www. _____
- Posting the CCR in public places (attach a list of locations).
- Publication of CCR in local newspaper (attach copy).
- Advertising availability of the CCR in news media (attach copy of announcement).
- Delivery to community organizations (attach a list).
- Availability of paper copy

Certification of Distribution and Accuracy of Consumer Confidence Report

I certify that the information in the attached/enclosed CCR contains all data and required language found in the Fillable CCR provided by the Drinking Water Program and that the CCR was distributed by July 1st by the methods noted above.

Name of licensed designated operator: Jonathan E. Ziegra
Please print

Signature: _____ Date: 1 July 2021

Date distribution completed: 15 June 2021

Email CCR form and attachments to your Public Water System Inspector or mail to:
Maine Drinking Water Program, 11 State House Station, Augusta, ME 04333-0011

****Your CCR must be available in paper copy to any consumer who requests it.**