

2020 – 2021 ANNUAL DRINKING WATER QUALITY REPORT

Beavertown Municipal Authority, Public Water System (PWS) ID # 4550012

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

WATER SYSTEM INFORMATION:

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact Eric Freed at (570) 658-2505. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at the Beavertown Municipal Building at 336 N Kern Street, Beavertown, PA 17813 on the last Tuesday of each month at 7:00 p.m.

SOURCE(S) OF WATER:

Our water sources include two groundwater wells located in the Borough of Beavertown.

A Source Water Assessment of our source(s) was completed by the PA Department of Environmental Protection (Pa. DEP). The Assessment has found that our sources of water are potentially most susceptible to underground storage tanks, land recycling cleanup site(s) and toxic release inventory sites (which include NPDES Permits). Overall, our sources have a moderate to high risk of significant contamination. A summary report of the Assessment should be available on the Source Water Assessment Summary Reports eLibrary web page:

www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045.

Complete reports were distributed to the water supplier(s) and municipalities, local planning agencies and PADEP offices. Copies of the complete report are available for review at the Pa. DEP Regional Office, Records Management Unit at (570) 327-3636.

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* (800) 426-4791.

MONITORING YOUR WATER:

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1, 2020 to December 31, 2021. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

DEFINITIONS:

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

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.

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.

Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

Level 1 Assessment – A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment – A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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

Mrem/year = millirems per year (a measure of radiation absorbed by the body)

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

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

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

ppq = parts per quadrillion, or picograms per liter

ppt = parts per trillion, or nanograms per liter

DETECTED SAMPLE RESULTS:

Chemical Contaminants								
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Total Trihalomethanes (TTHM)	80	N/A	9.15	N/A	ppb	2020	N	By-product of drinking water chlorination.
Total Trihalomethanes (TTHM)	80	N/A	7.94	N/A	ppb	2021	N	By-product of drinking water chlorination.
Haloacetic Acids (HAA5)	60	N/A	6.45	N/A	ppb	2020	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	60	N/A	4.79	N/A	ppb	2021	N	By-product of drinking water disinfection.

Disinfectant Residual							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Entry Point Chlorine	0.4	0.35	0.35 - 1.64	ppm	04/06/2020	N	Water additive used to control microbes.
Entry Point Chlorine	0.4	0.40	0.40 - 1.34	ppm	05/03/2021	N	Water additive used to control microbes.
Distribution Chlorine	0.2	0.62	0.62 - 1.10	ppm	Dec 2020	N	Water additive used to control microbes.
Distribution Chlorine	0.2	0.66	0.66 - 1.14	ppm	Jan 2021	N	Water additive used to control microbes.

Lead and Copper							
Contaminant	Action Level (AL)	MCLG	90th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	0	ppb	0 out of 10	N	Corrosion of household plumbing.
Copper	1.3	1.3	0.017	ppm	0 out of 10	N	Corrosion of household plumbing.

EDUCATIONAL INFORMATION:

The 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. 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 run-off, 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 stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the concentration of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's *Safe Drinking Water Hotline* (800) 426-4791.

Information about Lead

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. Beavertown Municipal Authority 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 <http://www.epa.gov/safewater/lead>.

VIOLATIONS:**Monitoring Requirements Not Met for Synthetic Organic Compounds, Free Chlorine and Disinfectant Byproducts**

Our water system violated several drinking water standards over the past two year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations. We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether our drinking water meets health standards. During 2020, we did not sample for the contaminants listed below, and therefore cannot be sure of the quality of our drinking water during that time.

What should I do?

There is nothing you need to do at this time. The table below lists the contaminants we did not properly test for during the last year, how often we are supposed to sample for each contaminant and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were taken.

Contaminant	Required sampling frequency	Number of samples required	Number of samples taken	When all samples should have been taken	When samples were or will be taken
Synthetic Organic Compounds (SOCs)	Every 3 Years	1	1	Second Quarter 2020 (Apr-Jun)	First Quarter 2020 (Jan-Mar)
Distribution Chlorine Residual	Weekly	1	0	Jan-Mar 2020, Sep 2021	April 2020, Sep 2021
Disinfectant Byproducts TTHM and HAA5	Annually	1	0	July 10 2020 +/- 3 days	August 2020
Disinfectant Byproducts TTHM and HAA5	Annually	1	0	July 10 2021 +/- 3 days	September 2021
Combined Uranium, Radium-226 & Radium-228	Every 9 Years	1	0	2021	2022

What happened? What was done?

Monitoring and/or reporting of the contaminants listed above was erroneously missed. All make-up samples were below Maximum Contaminant Levels (MCLs). Chlorine readings during the above-listed sampling periods were within the acceptable range of Minimum and Maximum Residual Disinfectant Levels (MRDL and MRDLG).

OTHER VIOLATIONS:

We did not deliver a 2020 Consumer Confidence Report (CCR) to our customers by July 1, 2021. In order to return to compliance with Safe Drinking Water regulations, we have combined information for our 2020 and 2021 CCRs in this report.