



VERNON TOWNSHIP WATER AUTHORITY
16678 McMath Ave.
Meadville, PA 16335
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www.vernontwp-pa.gov/water-authority/

2019 ANNUAL DRINKING WATER QUALITY REPORT

PWSID #: 6200072

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 Donald Henderson at (814) 720-4757. 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 on the second Thursday of the month at 7:00 pm at 16678 McMath Ave, Meadville, PA 16335.

SOURCE(S) OF WATER:

Our water source is groundwater purchased from the Meadville Area Water Authority (MAWA). MAWA has seven wells that are located in an unnamed glacial outwash, sand and gravel aquifer. Each well is approximately 80 feet deep and each well is capable of producing one million gallons of water per day. VTWA is an active partner with MAWA in protecting our source water.

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 source(s) of is/are potentially most susceptible to non-point source pollution related to the nearby shooting range, former manufacturing, hydrocarbon storage sites (gasoline stations) and transportation. Overall, our source(s) has/have little risk of significant contamination. Copies of the complete report are available for review at the Pa. DEP Northwest Regional Office, Records Management Unit at (814) 332-6899, or at MAWA, 18160 Rogers Ferry Road, Meadville, PA 16335.

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 to December 31, 2019. 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.

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)

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

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

ppq = parts per quadrillion, or picograms per liter

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

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
HAA5 Haloacetic Acids	60	NA	6.00	0-6.0	ppb	9/11/19	N	By-product of drinking water chlorination.
TTHM Trihalo-methanes	80	NA	52.0	33.0-52.0	ppb	9/11/19	N	By-product of drinking water chlorination.

Entry Point Disinfectant Residual							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine as CL2	0.20	0.22	0.22-0.84	Mg/L	2019 Monthly	N	Water additive used to control microbes.

Lead and Copper							
Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	1.3	0	.644	Mg/L	0 out of 10 sites	N	Corrosion of household plumbing.
Copper	0.015	1.3	0.003	Mg/L	0 out of 10 sites	N	Corrosion of household plumbing.

Microbial					
Contaminants	MCL	MCLG	Highest # or % of Positive Samples	Violation Y/N	Sources of Contamination
Total Coliform Bacteria	For systems that collect <40 samples/month: <ul style="list-style-type: none"> • More than 1 positive monthly sample For systems that collect ≥ 40 samples/month: <ul style="list-style-type: none"> • 5% of monthly samples are positive 	0	0	N	Naturally present in the environment.
Fecal Coliform Bacteria or <i>E. coli</i>	0	0	0	N	Human and animal fecal waste.

	MCL	MCLG	Level Detected	Units	Sample Date
Fluoride (MAWA)	2	2	0.46	Mg/L	2019 Daily

*EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Results of Tests:

The tables list all the drinking water contaminants that were detected during the 2019 calendar year. The presence of contaminants does not necessarily indicate that the water poses a health risk. The data presented in these tables are from testing performed in the calendar year 2018 and includes the latest test results from the past five years for contaminants that are not tested annually. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. *Please note that the water testing results provided by MAWA are labeled in the tables.*

In 1995, MAWA was granted a waiver for monitoring Synthetic Organic Compounds (SPC's) for pesticides and herbicides from the Pennsylvania Department of Environmental Protection (PADEP). This waiver was granted because there is little risk of exposure from these contaminants. VTWA has been granted reduced monitoring for lead and copper to every three years after demonstrating compliance.

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 number 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. VTWA 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>.

OTHER INFORMATION:

Our goal is to continue improving our water facilities and to enhance customer service for you. We welcome your comments and suggestions. Please visit us on the Vernon Township's website at www.vernontwp-pa.gov, e-mail us at vtwa@zoominternet.net, call us at (814) 332-0803, or stop in to our office located at the Vernon Township Municipal Building at 16678 McMath Ave, Meadville.