

**2023 ANNUAL DRINKING WATER QUALITY REPORT****Trumbauersville Municipal Waterworks****PWSID #: 1090091**

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 Dani McClanahan, Borough Administrator at 215-536-1761. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings, held at the Borough Office, 1 Evergreen Drive, Trumbauersville, PA 18970.

SOURCES OF WATER:

Our water sources are groundwater wells Well #2, and Well #3, Trumbauersville Road Emergency Interconnect, and Creamery Road Emergency Interconnect.

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, 2023. 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)

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 ($\mu\text{g/L}$)

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
Arsenic, EP 101 and EP 102	10	0	101=11.8 102=16.8	0 - 19	ppb	quarterly 2023	Y	Erosion of natural deposits; Runoff from orchards;
Nitrate	10	10	1.18	1.09-1.13	ppm	10/25/23	N	Fertilizer, septic tank leachate
Trihalomethanes	80	n/a	20.5	n/a	ppb	09/14/23	N	Byproduct of drinking water disinfection
Haloacetic Acids	80	60	7.4	n/a	ppb	09/14/23	N	
Tetrachloro ethylene	5	0	101=4.8 102=0.6	0.6-5.9	ppb	11/10/23	Y	Discharge from factories and dry cleaners
Barium	2	2	0.173	n/a	ppm	05/26/23	N	Erosion of natural deposits
Calcium	n/a	n/a	78.6	n/a	ppm	08/04/23	N	Erosion of natural deposits
Manganese	50	HAL=300	19	n/a	ppb	08/04/23	N	Erosion of natural deposits
Selenium	50	50	4	n/a	ppb	05/26/23	N	Erosion of natural deposits
Sulfate	n/a	n/a	45.4	n/a	ppm	08/04/23	N	Erosion of natural deposits
Cis-1,2-dichloro ethylene	70	70	1.4	1.2-1.5	ppb	quarterly 2023	N	Industrial waste, degreaser
Trichloroethylene	5	0	0.8	0.7-0.9	ppb	quarterly 2023	N	Industrial waste, degreaser
Chlorine	4	4	1.45	1.07-1.45	ppm	weekly	N	Disinfectant

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

Entry Point Disinfectant Residual							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine, EP 101	0.85	0.91	0.91-2.04	ppm	08/30/22	N	Water additive used to control microbes.
Chlorine, EP 102	0.40	0.48	0.48-2.70	ppm	09/08/23	N	

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	15	0	0	ppb	0 of 10	N	Corrosion of household plumbing.
Copper	1.3	1.3	0.110	ppm	0 of 10	N	

Microbial (related to Assessments/Corrective Actions regarding TC positive results)					
Contaminants	TT	MCLG	Assessments/ Corrective Actions	Violation Y/N	Sources of Contamination
Total Coliform Bacteria	Any system that has failed to complete all the required assessments or correct all identified sanitary defects, is in violation of the treatment technique requirement	N/A	See detailed description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Naturally present in the environment.

Microbial (related to E. coli)					
Contaminants	MCL	MCLG	Positive Sample(s)	Violation Y/N	Sources of Contamination
<i>E. coli</i>	Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .	0	0	N	Human and animal fecal waste.
Contaminants	TT	MCLG	Assessments/ Corrective Actions	Violation Y/N	Sources of Contamination
<i>E. coli</i>	Any system that has failed to complete all the required assessments or correct all identified sanitary defects, is in violation of the treatment technique requirement	N/A	See description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Human and animal fecal waste.

Raw Source Water Microbial					
Contaminants	MCLG	Total # of Positive Samples	Dates	Violation Y/N	Sources of Contamination
<i>E. coli</i>	0	0	N/A	N	Human and animal fecal waste.

DETECTED CONTAMINANTS HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:

Arsenic: While your drinking water met EPA's standard for arsenic in 2022, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic 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. Please note that the data presented in this report only summarizes 2022 results. We are currently under an advisory for arsenic in 2023.

Tetrachloroethylene - Some people who drink water containing tetrachloroethylene in excess of the MCL over many years could have problems with their liver and may have an increased risk of getting cancer. Please note that the data presented in this report only summarizes 2022 results. We are currently under an advisory for tetrachloroethylene in 2023.

Chlorine- Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Trihalomethanes – Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Haloacetic Acids – Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Barium – Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.

Manganese – Elevated levels of manganese in water can cause discoloration, and it is recommended to use an alternative water source for drinking. The EPA's Lifetime Health Advisory value for manganese is also 0.3 mg/L, or 300 µg/L. The elderly and people with liver disease, who have a decreased ability to excrete manganese, are more likely to experience negative effects from high exposure to manganese.

Selenium – Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years could experience hair or fingernail losses, numbness in fingers or toes, or problems with circulation.

Cis-1,2 – dichloropropane – Some people who drink water containing cis-1,2-dichloroethylene in excess of the MCL over many years could experience problems with their liver.

Trichloroethylene - Some people who drink water containing trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

Nitrate – Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.

EDUCATIONAL INFORMATION:

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. Trumbauersville Municipal Waterworks 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>.

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 amount 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).

VIOLATIONS:

We had several violations of the Safe Drinking Water Act in 2023. These were largely monitoring and reporting violations, which do not affect the quality of your water. However, since you are a customer of the water system, you have the right to know this.

Violation ID 17604 through 17665 – SOC samples were missed due to an administrative oversight. This occurred due to a change of operator.

Violation ID 13551 – Entry Point samples for an unused well were incorrectly reported.

Violation ID 17666 – Entry Point samples for an unused well were reported late.

Violation ID 17603, 03692, 35099, 17634, 03694, 24612-4 – Several MCL violations for Arsenic occurred during the year. Tier 2 Public Notices were issued. We have repaired Treatment Plant 301 and are in the process of public bidding for an upgrade to Treatment Plant 302. We are also in the process of a public bid for an Interconnection with another public water supplier.

Violation ID 24608 – Tetrachloroethylene exceeded the MCL in one quarter of 2023.