

## 2023 ANNUAL DRINKING WATER QUALITY REPORT

Tri-County Joint Municipal Authority      PWSID #: 5630045

*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 Keith Marucci at 724-377-2211. 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 each month at 6:00 PM at the office of the Tri-County Joint Municipal Authority located at 26 Monongahela Avenue in Fredericktown PA, 15333.

Our water source is the Monongahela River which is a community water source located in East Bethlehem Twp, Washington County.

A Source Water Assessment of our source 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 transportation corridors/roads deicing, "wildcat" sewers, combined sewer outfalls, utility substations, marinas, river bards, urban areas, power plants, strip mines, and wastewater treatment. Overall, our source(s) has/have high risk of significant contamination. A summary report of the Assessment is available on the Source Water Assessment Summary Reports eLibrary web page: [www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045](http://www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045). Complete reports were distributed to municipalities, water suppliers, local planning agencies and PADEP offices. Copies of the complete report are available for review at the Pa. DEP Washington County Regional Office, Records Management Unit at 724-925-5500.

**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/Centers for Disease Control (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. You may also visit EPA's website at ([www.epa.gov/safewater/](http://www.epa.gov/safewater/)).**

### **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 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**

<b>Chemical Contaminants</b>								
<b>Contaminant</b>	<b>MCL in CCR Units</b>	<b>MCLG</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>Units</b>	<b>Sample Date</b>	<b>Violation Y/N</b>	<b>Sources of Contamination</b>
Chlorine (Distribution)	MRDL =4	MRDL G=4	2.00 January	1.11-2.00	ppm	2023		
Barium (IOC)	2	2	0.0309	N/A	ppm	2/16/23	N	Discharge of drilling waste: Discharge from metal refineries: Erosion of natural deposits.
Nitrate	10	10	0.49	N/A	ppm	2/16/23	N	Runoff from fertilizer use: Leaching from septic tanks, sewage: Erosion of natural deposits.
Dalapon	200	200	0.512	0.00-0.512	ppb	2023	N	Runoff from herbicide used on rights of way
Carbofuran	40	40	0.41	0.00-0.41	ppb	2023	N	Leaching of soil fumigant used on rice and alfalfa
Haloacetic Acids	60	60	31.8975* 4 <sup>th</sup> Quarter 2023	15.20-81.40	ppb	2023	N	By-Product of drinking water disinfection.
Trihalomethanes	80	80	72.0775* 3 <sup>rd</sup> Quarter 2023	15.30-148.00	ppb	2023	Y	By-Product of drinking water disinfection.

**\*Indicates that these are the highest running annual averages calculated during 2023.**

Some people who drinking water containing trihalomethanes in excess of the MCL over many years could experience problems with their liver, kidneys or central nervous system and may have an increased risk of getting cancer. If you have any additional questions, please call us at 724-377-2211 or the PA DEP Regional Drinking Water Office of Washington County 724-847-5270.

<b>Entry Point Disinfectant Residual</b>							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Lowest Sample Date	Violation Y/N	Sources of Contamination
Chlorine 2023	0.20	1.55	1.55-2.88	ppm	3/23/23	N	Water additive used to control microbes.

<b>Lead and Copper 2022</b>							
Contaminant	Action Level (AL)	MCLG	90 <sup>th</sup> Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	3.06	ppb	0 out of 30	N	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	1.3	1.3	0.053	ppm	0 out of 30	N	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

#### **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. Tri County Joint 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>

<b>Microbial (related to Assessments/Corrective Actions regarding TC positive results)</b>					
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	In 2023 we were required to submit a RTCR Level 1 assessment to the PA DEP by August 17,2023. We failed to do so until August 22,2023	Y	Naturally present in the environment.

<b>Turbidity</b>						
<b>Contaminant</b>	<b>MCL</b>	<b>MCLG</b>	<b>Highest Level Detected</b>	<b>Sample Date</b>	<b>Violation Y/N</b>	<b>Source of Contamination</b>
Turbidity	TT=1 NTU for a single measurement	0	0.170	8/25/2023	N	Soil runoff
	TT= at least 95% of monthly samples ≤0.3 NTU		100%	2023	N	

<b>Total Organic Carbon (TOC)</b>					
<b>Contaminant</b>	<b>Range of % Removal Required</b>	<b>Range of percent removal achieved</b>	<b>Number of quarters out of compliance</b>	<b>Violation Y/N</b>	<b>Sources of Contamination</b>
TOC	35%	43.00%	0	N	Naturally present in the environment

**Violations:** There was a TTHM exceedance in the 3rd and 4<sup>th</sup> Quarters of 2023 at site location #704. Public Notification regarding these violations was submitted although late in the 4<sup>th</sup> Quarter. In 2023 we were required to submit a RTCR Level 1 assessment to the PA DEP by August 17, 2023. We failed to do so until August 22, 2023. Public Notification regarding these violations is included at the end of this report.

#### **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 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).