

2024 Annual Drinking Water Quality Report

Bedford Township Municipal Authority

As your public drinking water supplier (Public Water Supply ID Number 4050037), the Bedford Township Municipal Authority (BTMA) is pleased to present to you our Consumer Confidence Report for the 2024 operating year. This report provides you with information about the quality of water and the services we deliver to you every day. We constantly strive to provide you with a safe and dependable supply of drinking water. We want you to understand the constant effort we make to continually protect our water sources and improve the quality of water supplied to you. We are committed to ensuring the quality and consistency of your water.

SOURCES: Three separate groundwater sources, consisting of a total of five production wells, make up the public water supply that is owned and operated by the BTMA. The first source is located in the Chalybeate area of Bedford Township and consists of two wells known as the Bowman Tract Wells. Construction of these wells was completed in May 2000. The second source is situated in the Bedford Springs area and consists of one well referred to as the Bedford Springs or "Hotel" Well. This well was placed into operation in mid-2007. Development of a third new source was completed in and placed into operation in late 2009. The third source consists of two wells known as the Shaffer Tract wells. These wells are located in the Belden (Camp Shaffer) area of the Township. The BTMA developed this additional source to ensure an adequate supply for its current customers, to provide for continuing growth that is being experienced within the Township and to provide an alternative source of supply in the event of an emergency, a supply problem, or down time during system maintenance within one of its other sources. The BTMA is also in the process of developing an additional supply well in the Bedford Springs area to provide a supplemental backup source for the area supplied by the existing Bedford Springs Well. During 2024, a combined total of nearly 134 million gallons of water was provided from these sources for use by BTMA customers. The availability of multiple, independent sources of supply affords the BTMA considerable flexibility in its operation of the water system which minimizes the chance of a long term service interruption to its customers during periods of necessary source maintenance and repair, or potential emergency events.

In addition to these ground water sources, the Authority maintains four active, bidirectional interconnections with Bedford Borough's water system which may be utilized during emergency situations as supplemental sources of supply for both the BTMA and Bedford Borough when needed. These interconnects were not needed to supplement the BTMA supply in 2024.

SOURCE WATER ASSESSMENT: A Geographic Information System (GIS) analysis-based, Source Water Assessment was completed in 2005 by the PA Department of Environmental Protection (PA DEP) and the Penn State Environmental Resources Research Institute for the Bedford Township Municipal Authority water supply. The Assessment has found that the BTMA ground water sources are potentially susceptible to contamination from agricultural activities situated within the well systems' recharge zones. Source Water Assessments were also completed for the Bedford Borough Water System in 2003. The Bedford Borough Source Water Assessments determined that the Bedford surface water sources have a high-risk susceptibility rating for contamination from runoff of deicing materials and spills along roadways, bridges and railroads storm water runoff from salt storage facilities, agricultural fields, golf courses, malfunctioning septic systems and timbering operations. Copies of the respective reports were provided to the BTMA, Bedford Township, Bedford Borough Water Authority and the Altoona District Office of the PA DEP. Copies of the respective summary reports are available by writing to the BTMA, 1007 Shed Road, Suite 102, Bedford PA 15522 or to the Bedford Borough Water Authority, 244 West Penn Street, Bedford PA 15522. A summary of the PA DEP Source Water Assessment report is available in the eLibrary page on the DEP website at www.depgreenport.state.pa.us/elibrary/GetFolder.aspx?FolderID=4490. Copies of the complete reports are also available for review at the PA DEP Southcentral Regional Office, Records Management Unit at (717) 705-4700.

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 storm water 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 storm water runoff and residential uses.
- **Organic Chemical Contaminants**, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water 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 at (1-800-426-4791).

DRINKING WATER, INCLUDING BOTTLED WATER, may reasonably be expected to contain at least small amounts of some contaminants. The presence of some 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 EPA's Safe Drinking Water Hotline (1-800-426-4791). **IN ORDER TO ENSURE THAT TAP WATER IS SAFE TO DRINK**, EPA and DEP prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

WATER QUALITY was monitored during the operating period between January 1, and December 31, 2024. The Authority routinely monitors for contaminants in your drinking water according to Federal and State laws.

THE FOLLOWING TABLE SHOWS THE RESULTS OF OUR WATER QUALITY MONITORING for the period of January 1st through December 31, 2024. In reviewing this table, it should be noted that the State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of the data is from previous years in accordance with the Safe Drinking Water Act. The date of sampling has been noted on the following sampling results table. Only those contaminants found in the Authority's treated water are listed in the table.

2024 Detected Regulated Contaminant Table
Bedford Township Municipal Authority

Contaminant (Unit of Measure)	MCL	MCLG	Highest Level Detected	Range	Sample Period	Violation	Likely Source of Contamination
Inorganic Contaminants							
Barium (ppm) [BTMA Entry Points]	2	2	0.0229	One sample	03/18/ 24	No	Discharge of drilling waste, discharge from metal refineries, erosion of natural deposits
Radiological Contaminants							
Combined Radium (pCi/L) [Entry Point 102]	5	0	1.05	NA-One sample only	2018	No	Erosion of natural deposits
Disinfectant Residuals							
Chlorine – Distribution System							
Chlorine (ppm) [BTMA distribution system]	MRDL = 4	MRDLG = 4	Max Level Detected= 1.45 (March)	1.03 to 1.45	2024	No	Water additive used to control microbes
Chlorine (ppm) – Entry Points							
BTMA Bowman Wells (ppm)	Min RDL=0.4	NA	Min Level Detected =1.01 07/05/2024	1.01 to 1.91	2024	No	Water additive used to control microbes
BTMA Bedford Springs Well (ppm)		NA	Min Level Detected = 0.68 11/17/2024	0.68 to 1.98	2024	No	
BTMA Shaffer Wells (ppm)		NA	Min Level Detected= 1.06 10/01/2024	1.06 to 1.98	2024	No	
Disinfection By-Products							
Trihalomethanes, Total (ppb) [BTMA distribution system]	80	NA	16.7	14.7 to 16.7	3 rd Qtr 2024	No	Byproduct of drinking water chlorination.
Haloacetic Acids (ppb) [BTMA distribution system]	60	N/A	7.0	5.0 to 7.0	3 rd Qtr 2024	No	Byproduct of drinking water disinfection.
Lead and Copper							
Contaminant (Unit of Measure)	Action Level (AL)	MCLG	90 th Percentile Value	# Sites Above AL of Total Sites	Sample Period	Violation	Likely Source of Contamination
Lead (ppb) [BTMA Distribution System]	15	0	0.51	Zero out of 10 samples	2022	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm) [BTMA Distribution System]	1.3	1.3	0.31	Zero out of 10 samples	2022	No	Corrosion of household plumbing systems; Erosion of natural deposits. Leaching from wood preservatives.

Violations- Bedford Township Municipal Authority Water System – No violations were issued to BTMA in 2024.

Supplemental Information Regarding Lead in Drinking Water – Although no samples from the BTMA distribution system that were tested for lead exceeded the established Action Limit (AL), lead was present at detectable levels in two samples analyzed in 2022. 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. Bedford Township Municipal Authority is responsible for providing high quality drinking water and it removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an

American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact the Bedford Township Municipal Authority at 814-623-7879. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Bedford Township Municipal Authority has prepared a service line inventory that includes the type of materials contained in each service line in our distribution system. The inventory can be accessed online at <https://goh2o.net/btma/service-line-inventory/> or by contacting our office at bedfordtma@gmail.com.

Additional contaminants are regulated and are also routinely tested for, but are **not** present at detectable levels. Contaminants that have been tested for by the Bedford Township Municipal Authority, but **not detected** in the Authority's system during 2024 or recent years, included:

- **Radioactive Contaminants: (2018)**, Radium 226 & 228. **(2019)** Gross Alpha Emitters, Combined Uranium
- **Volatile Organic Compounds (VOCs) including: (2024 all sources)** cis-1,2-Dichloroethylene; Benzene; trans-2-Dichloroethylene; Dichloromethane; 1,2-Dichloropropane; Ethylbenzene; Styrene; Tetrachloroethylene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethylene; Toluene; Xylenes (total); Carbon tetrachloride; Chlorobenzene; o-Dichlorobenzene; p-Dichlorobenzene; 1-2-Dichloroethane; 1,1-Dichloroethylene; 1,2,4-Trichlorobenzene; Vinyl chloride - Bowman, Shaffer and Bedford Springs Well Sources
- **Inorganic contaminants including: (2024)** Nitrates; Nitrites, **(2024)** Antimony; Arsenic; Beryllium; Cadmium; Chromium; Cyanide; Mercury; Nickel; Fluoride; Thallium – Bowman, Shaffer and Bedford Springs sources; **(2020)** Asbestos
- **Synthetic Organic Chemicals (SOCs) including: (2024 all sources)** Lindane; Methoxychlor; Endothall; Di(2-Ethylhexyl)Adipate; Oxyal (Vydate); Simazine; Di(2-Ethylhexyl) Phthalate; Piclorem; Carbofuran; Hexachlorocyclopentadiene; Atrazine; Alachlor; 2,4-D; Benzo(a)pyrene; Pentachlorophenol; 1,2-Dibromo, 3 Chloroprop; Ethylene Dibromide (EDP); Chlorodane; Toxaphene; Dalpon; Diquat; Glyphosate; Dinoseb; Dioxin; Heptachlor; Heptachlor epoxide; 2,4,-D; 2,4,5-Silvex; Hexachlorobenzene; Endrin; PCBs
- **Microbial Contaminants (2024):** Total Coliform Bacteria

Glossary of Terms Used in This Report

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

BTMA - Bedford Township Municipal Authority

DEP – Pennsylvania Department of Environmental Protection; **EPA** – US Environmental Protection Agency

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 contamination.

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

NA – Not Applicable **ND** – Not Detected **(pCi/L)** - PicoCuries per liter - A measure of radioactivity

(ppb) - Parts per billion or micrograms per liter **(ppm)** - Parts per million or milligrams per liter

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

- PLEASE CONSERVE OUR WATER RESOURCES –

The Bedford Township Municipal Authority requests that customers conserve our water resources by conserving water in the home and at places of work. Efficient water use can have major environmental, public health, and economic benefits by helping to improve water quality, maintain aquatic ecosystems, and protect drinking water resources. Efficient use of water, through behavioral, operational, or equipment changes, if practiced broadly can help mitigate the effects of drought. Efficiency measures can also save the homeowner money on their water and energy bills. The following tips and suggestions were obtained from *EPA website* and can help you conserve water, save money and protect and preserve our water resources. For many more water saving tips and water conservation resources, please visit their website at https://www3.epa.gov/region1/eco/drinkwater/water_conservation_residents.html.

SAVE INDOORS

For Every Room in the House With Plumbing

- Repair leaky faucets, indoors and out. Small household leaks can add up to gallons of water lost everyday.
- Consider replacing old equipment (like toilets, dishwashers and laundry machines).

In the Kitchen

- When cooking, peel and clean vegetables in a large bowl instead of under running water.
- Fill your sink or basin when washing and rinsing dishes.
- Only run the dishwasher when it's full.
- When buying a dishwasher, select one with a "light-wash" option.
- Only use the garbage disposal when necessary (composting is a great alternative).

In the Bathroom

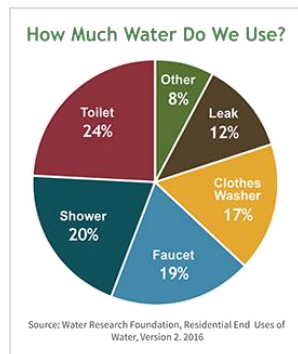
- Take short showers instead of baths.
- Turn off the water to brush teeth, shave and soap up in the shower.
- Repair leaky toilets. Add 12 drops of food coloring into the tank, and if color appears in the bowl one hour later, your toilet is leaking.

Laundry

- Run full loads of laundry.
- When purchasing a new washing machine, buy a water saving model that can be adjusted to the load size.

SAVE OUTDOORS

- Maximize the use of natural vegetation and establish smaller lawns. When landscaping ask your local nursery for tips about plants and grasses with low water demand. Consider planting more trees, shrubs, ground covers, and less grass.
- When mowing your lawn, set the mower blades to 2-3 inches high. Longer grass shades the soil improving moisture retention.
- Only water the lawn when necessary.
- Collect rainfall for irrigation in a screened container.
- When washing a car, wet it quickly, then use a bucket of water to wash the car. Turn on the hose to final rinse.



Did you know the average American family uses more than 300 gallons of water per day at home. Roughly 70 percent of this occurs indoors. Source:

<https://www.epa.gov/watersense/how-we-use-water>



Check out these additional websites for more water conservation information:

www.epa.gov/WaterSense
wateruseitwisely.com/100-ways-to-conserve/index.php
www.americanwater.com/49ways.php
www.epa.gov/greenhomes/ConserveWater.htm
www.h2ouse.org/

Please help us find leaks, save water and reduce water service costs... Because water lines are located underground, leaks may go unnoticed for days and even years resulting in a considerable waste of our valuable water resource and additional costs for all customers. Please help us locate these leaks by reporting to the Water Department any occurrences of: water running in locations that are normally dry; wet spots in yards and streets; the sound of water running in your home when water is not in use; the sound of water trickling or running in a storm inlet when it is not raining; sudden or unusually low water pressure; and slugs of discolored or cloudy water. When an occurrence such as this is reported, a representative of the water department will make contact and investigate the situation.

Bedford Township Municipal Authority
1007 Shed Road, Suite 102
Bedford PA 15522

2024 Annual Drinking Water Quality Report Bedford Township Municipal Authority

This report shows our water quality and what it means. **IF YOU HAVE ANY QUESTIONS ABOUT THIS REPORT** or questions concerning your water utility, please contact Shawna Howsare, BTMA Office Manager at (814) 623-7879, Monday through Friday, 7:30 a.m. to 3:30 p.m. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Authority meetings. They are held at 4:00 p.m. on the first Wednesday of each month at the Bedford Township Municipal Building located at 1007 Shed Road, Suite 102, in Bedford Township. For more information regarding the Bedford Township Municipal Authority and the BTMA water system, you may visit the Authority's webpage on the PA Rural Water Association website at: <http://www.goh2o.net/btma>.

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda.