

“2025 Annual Drinking Water Quality Report”
PWSID # 7210063 Middlesex Township Municipal Authority

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 very important information about your drinking water. Translate it or speak to someone who understands it).

WATER SYSTEM INFORMATION:

This report is designed to inform you about the quality of water and the service we deliver to you every day. If you have any questions about this report or concerning your water utility, please contact **Rory L. Morrison at (717) 243-0674 or Toll Free at 1-888-417-0674**. We want our valued customers to be informed about their water utility. If you want to learn more, please feel free to attend any of our regularly scheduled meetings. The meeting are held on **the third Thursday of each month at 7:00 PM, at the Administration Building located at 350 N. Middlesex Road, Carlisle, PA 17013**.

SOURCE OF WATER:

The Middlesex Municipal Authority purchases water supplied to you from South Middleton Township Municipal Authority and produces water from its own groundwater source located in Middlesex Township. The water supplied to you from South Middleton is pumped from two (2) groundwater sources located in South Middleton Township. **Well No. 1** draws from the Tomstown Aquifer and was developed in 1972. Well No. 1 is located along Park Drive across from PPG Industries. **Well No. 2** draws from the Elbrook Aquifer and was developed in 1975. Well No. 2 is located one mile west of Boiling Springs, south on Route 174.

In July of 2010 Middlesex Township Municipal Authority began using its own permitted groundwater supply. **Well No. 1**, which is located west of South Middlesex Road and draws from the Rockdale Run Aquifer Formation and was constructed in the spring of 2004.

A Source Water Assessment of our source was completed by the PA Department of Environmental Protection (PA DEP). The Assessment has found that our sources are potentially most susceptible to traditional point source contaminants ranging from gas stations, industrial manufactures and auto repair shops, in addition to the traditional non-point potential contaminants ranging from residential and agricultural activities to sewer transmission lines and transportation corridors. Overall, our sources have little risk of significant contamination. A summary report of the Assessment is available on the Source Water Assessment Summary Library webpage: www.elibrary.dep.state.pa.us/dsweb/View/Collectio-10045. Complete reports were distributed to municipalities, water suppliers, local planning agencies and PA DEP offices. Copies of the complete report are available for review at the PA DEP South Central Regional Office, Records Management Unit at 990 Elmerton Avenue, Harrisburg, PA 17110-8200-4732.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as people 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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

MONITORING YOUR WATER:

South Middleton Township Municipal Authority and Middlesex Township Municipal Authority routinely monitor constituents in your drinking water according to Federal and State laws. The tables shown within this report are the results of monitoring for the period of **January 1st to December 31st, 2025**. The State allows us to monitor some contaminants less than once a year because the concentration 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.

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DEFINITIONS AND ABBREVIATIONS:

In the tables you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we have provided the following 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 contamination.

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

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

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water.

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

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

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

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

ppt = parts per trillion, or nanograms

ND = not detected

Water Quality Table for the South Middleton Township Municipal Authority Water System PWSID NO. 7210050							
DETECTED SAMPLE RESULTS:							
Chemical or Radiological Contaminant	MCL in CCR units	MCLG	Highest level Detected	Range of Detection	Units	Violation Y/N	Sources of Contamination
Chromium (ppb) (2024)	100	100	1.0	1.0	ppb	N	Discharge from steel and pulp mills; erosion of natural deposits.
Barium 2024	2	2	0.054	0.042–0.054	ppm	N	Discharge of drilling wastes; discharge from metal refineries; erosion from natural deposits.
Nitrate 2025	10	10	4.15	3.18-4.15	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage, erosion from natural deposits.

Water Quality Table for Middlesex Township Municipal Authority Water System
PWSID NO. 7210063

DETECTED SAMPLE RESULTS:

Chemical or Radiological Contaminant	MCL in CCR units	MCLG	Level Detected	Range of Detection	Units	Violation Y/N	Sources of Contamination
Chlorine	MRDL= 4	MRDLG= 4	0.81	0.81-1.08	ppm	N	Water additive used to control microbes
Total Haloacetic Acids Five (HAA5) (2025)	60	n/a	5.7	5.7	ppb	N	By-product of drinking water chlorination
Trihalomethanes Total (TTHM's) (2025)	80	n/a	21.1	21.1	ppb	N	By-product of drinking water chlorination
Nitrate (2025)	10	10	8.7	8.0-8.7	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion form natural deposits.
Barium (2024)	2	2	0.044	N/A	ppm	N	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

Entry Point Disinfectant Residual

Contaminant	Minimum residual required	Lowest Level Detected	Range Of Detection	Units	Sample Date	Violation Y/N	Source of Contamination
Chlorine (Site 102)	0.60	1.01	1.01-1.18	ppm	2025	N	Water additives are used to control microbes.
Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Of TT Y/N	Source of Contamination
Lead (2025)	15	0	2.5	ppb	0 of 20	N	Corrosion of household plumbing.
Copper (2025)	1.3	0	.23	ppm	0 of 20	N	Corrosion of household plumbing

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. Middlesex Township 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 water 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 NITRATE: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

In order to assure the tap water is safe to drink, EPA and DEP prescribe the regulations which limit the amount of certain contaminants in the 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 some small amounts of contaminants.

The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Water Hotline (800-426-4791).

WATER CONSERVATION REMINDER

The average person uses about 62 gallons of water every day; most of the water is used for laundry, toilet flushing, and showering, followed by faucet use and leaky fixtures.

Try these water conservation tips and save water and money:

- Replace the old toilet with a new 1.6 gallon-per-flush model. This can save 7,900 to 21,700 gallons of water per year.
- Repair dripping faucets and leaking toilets (flapper valves are usually the cause). Repairs can save 10 gallons of water per person per day. A faucet dripping at one drop per second wastes 2,700 gallons of water per year.
- Only wash clothes and dishes when you have a full load. When replacing an older machine, consider high efficiency models, which use an average of 30% less water and 40-50% less energy.
- Install low-flow, water-efficient showerheads and faucets and save 1-to-7.5 gallons per minute. Taking a quick shower can save an average of 20 gallons of water per day.
- Turn off the water when brushing your teeth or shaving to save more than 5 gallons of water per day.

For more water conservation tips visit the DEP website at www.dep.pa.gov/citizens