

2025 ANNUAL DRINKING WATER QUALITY REPORT

PWSID #: **7380035** NAME: **Fredericksburg Sewer & Water Authority [FSWA]**

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 Dusty Keller at (717) 304-1061 or dkeller@fswaonline.net. 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 3rd Monday of each month at 6:30pm in the offices of the FSWA.

SOURCE(S) OF WATER:

Our water source(s) is/are: Well 2 – Groundwater – 190 West Main Street, Fredericksburg, PA 17026
Well 5 – Groundwater – 190 West Main Street, Fredericksburg, PA 17026
Well 6 – Groundwater – 193 West Main Street, Fredericksburg, PA 17026

The FSWA water system is fed by three (3) wells which are located on the west end of Fredericksburg near the water plant and airport. Water is also provided by the City of Lebanon Authority water system interconnect which is located on Airport Road near the Northern Lebanon High School.

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, 2025. 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)

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

ppb = parts per billion, or micrograms per liter ($\mu\text{g/L}$)

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 (ng/L)

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
Free Chlorine (Distribution System)	MRDL = 4	MRDLG = 4	0.80	0.20 – 3.01	ppm	2025	N	Water Additive to Control Microbes
Total Chlorine (Distribution System)	MRDL = 4	MRDLG = 4	1.34	0.24 – 3.42	ppm	2025	N	Water Additive to Control Microbes
Fluoride	2*	4	0.37		ppm	1/25/24	N	Erosion of Natural Deposits, Water Additive for Strong Teeth
HAA5	60	N/A	26.8	23.2 – 28.5	ppb	2025	N	By-Product of Water Disinfection
TTHM	80	N/A	44.4	26.7 – 59.0	ppb	2025	N	By-Product of Water Distribution
Nitrate	10	10	2.85		ppm	5/1/25	N	Runoff from Fertilizer Use
Nitrite	1	1	0.00		ppm	5/1/25	N	Runoff from Fertilizer Use
PFOS	14	18	0.555	0 – 1.15	ppt (ng/L)	2024	N	Discharge from manufacturing facilities and runoff from land use activities.
Combined Uranium	20	0	1.14		µg/L	2/6/24	N	Erosion of Natural Deposits
Radon-222	n/a	n/a	410.8	282.2-804	pCi/L	2025	N	Erosion of Natural Deposits
Antimony (Inorganic Compound)	6	6	0.6		ppb	1/25/24	N	Discharge from petroleum refineries; Fire retardants; Ceramics; Solder; Electronics
Arsenic (Inorganic Compound)	10	0	2.0		ppb	1/25/24	N	Erosion of natural deposits; Runoff from orchards; Runoff from Glass and electronics production waste
Barium (Inorganic Compound)	2	2	0.159		ppm	1/25/24	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

*EPA's MCL for fluoride is four 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	1.0	1.60	1.60 – 3.55	ppm	03/10/25	N	Water additive used to control microbes.

Lead and Copper								
Contaminant	Action Level (AL)	MCLG	90th Percentile Value	Range of tap sampling results	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	0	0-0	ppb	0 out of 10	N	Corrosion of household plumbing.
Copper	1.3	1.3	0.204	0-0.251	ppm	0 out of 10	N	Corrosion of household plumbing.

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.

DETECTED CONTAMINANTS HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:

Analysis of the water throughout 2025 resulted in no Notices of Violation related to contaminant levels. All lab test results in 2025 were within acceptable limits. There were no positive results for Total Coliform or E. coli. Volatile Organic Compounds (VOCs) and Synthetic Organic Compounds (SOCs) were required to be tested in 2025. In 2025, there were no detections of VOCs or SOCs above the minimum reporting level.

OTHER VIOLATIONS:

The FSWA did not receive any Notices of Violation from the PA DEP in 2025.

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).

INFORMATION ABOUT LEAD

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. The FSWA is responsible for providing high quality drinking water and is 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 FSWA Operations Manager Dusty Keller at (717) 304-1061.

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>.

OTHER INFORMATION:

If you notice any issues with the water quality in your home or business, be it taste, odor or color, please contact Dusty Keller of the FSWA at (717) 304-1061.

The FSWA prepared a service line inventory that includes the type of materials contained in each service line in our distribution system. This inventory can be accessed by contacting Dusty Keller at (717) 304-1061.

Go to the FSWA website at www.fswaonline.net for water saving tips!