

Additional Information on Service Line Materials

We are required to develop an initial inventory of service lines connected to our distribution system by October 16, 2024 and to make the inventory publicly accessible. You can access the service line inventory here/by: <https://www.germantownwi.gov/271/Water-Quality-Reports>

UNREGULATED CONTAMINANTS

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. EPA required us to participate in this monitoring.

CONTAMINANT (Units)	LEVEL FOUND	RANGE	SAMPLE DATE (If prior to "24)
Bromochloroacetic acid (BCAA) (ppb)	1.4	0.40 - 1.4	1/8/2019 - 7/31/2019
Bromodichloroacetic acid (BDCAA) (ppb)	1.6	0.58 - 1.6	1/8/2019 - 7/31/2019
Dibromoacetic acid (DBAA) (ppb)	0.92	0.43 - 0.92	1/8/2019 - 7/31/2019
Chlorodibromoacetic acid (CDBAA) (ppb)	0.63	0.31 - 0.63	1/8/2019 - 7/31/2019
Dichloroacetic acid (DCAA) (ppb)	0.90	0.40 - 0.90	1/8/2019 - 7/31/2019
Trichloroacetic acid (TCAA) (ppb)	0.53	0.53	1/8/2019 - 7/31/2019
HAA5 (ppb)	3.267	0.306 - 2.325	1/8/2019 - 7/30/2019
HAA6Br (ppb)	5.808	0 - 2.58	1/8/2019 - 7/30/2019
HAA9 (ppb)	6.38	0.306 - 5.929	1/8/2019 - 7/30/2019
Manganese (ppb)	406.04	0.521 - 406.04	1/8/2019 - 7/30/2019
Germanium (ppb)	0.394	0.394	1/8/2018 - 7/30/2019
Lithium (ppb)	30.0	0.0 - 30.0	9/19/2023 - 2/13/2024

OTHER DRINKING WATER REGULATIONS VIOLATIONS

DESCRIPTION OF VIOLATION	DATE OF VIOLATION	DATE VIOLATION RESOLVED
Failed to develop an initial inventory for service line materials that meets federal requirements	10/17/24	

ACTION TAKEN

Its a work in progress by trying to find what the materials of water laterals are made of. This is done during construction, repairs and meter installs.

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilsons Disease should consult their personal doctor.

We failed to develop an inventory that meets all federal requirements and/or to make the inventory publicly accessible.

DEFINITIONS

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

HA: Health Advisory: An estimate of acceptable drinking water levels for a chemical substance based on health effects information.

HAL: Health Advisory Level is a concentration of a contaminant which, if exceeded, poses a health risk and may require a system to post a public notice. Health Advisories are determined by US EPA.

HI: Hazard Index: A Hazard Index is used to assess the potential health impacts associated with mixtures of contaminants. Hazard Index guidance for a class of contaminants or mixture of contaminants may be determined by the US EPA or Wisconsin Department of Health Services. If a Health Index is exceeded a system may be required to post a public notice.

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 or why total coliform bacteria have been found in our water system, or both, on multiple occasions.

MCL: Maximum Contaminant Level: 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.

MCLG: Maximum Contaminant Level Goal: 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.

MFL: Million fibers per liter

MRDL: Maximum residual disinfectant level: 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.

MRDLG: Maximum residual disinfectant level goal: 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.

MREM/YEAR: Millirems per year (a measure of radiation absorbed by the body)

NTU: Nephelometric Turbidity Units

pCi/l: Picocuries per liter (a measure of radioactivity)

ppm: Parts per million, or milligrams per liter (mg/l)

ppb: Parts per billion, or micrograms per liter (ug/l)

ppt: Parts per trillion, or nanograms per liter

ppq: Parts per quadrillion, or picograms per liter

PHGS: PHGS: Public Health Groundwater Standards are found in NR 140 Groundwater Quality. The concentration of a contaminant which, if exceeded, poses a health risk and may require a system to post a public notice.

RPHGS: Recommended Public Health Groundwater Standards: Groundwater standards proposed by the Wisconsin Department of Health Services. The concentration of a contaminant which, if exceeded, poses a health risk and may require a system to post a public notice.

SMCL: Secondary drinking water standards or Secondary Maximum Contaminant Levels for contaminants that affect taste, odor, or appearance of the drinking water. The SMCLs do not represent health standards.

TCR = Total Coliform Rule

S.U. = Standard Unit of measurement

TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

* Each contaminant range is from no detect (nd) to the maximum reported value.



Village of
Germantown
...Willkommen

Germantown Water Utility



2024 Annual Germantown Water Quality Report

WATER QUALITY MEETS ALL REGULATORY STANDARDS

In the year 2024, the Germantown Water Utility (GWU) conducted all DNR required tests to ensure the safety and quality of the drinking water delivered to our customers. All laboratory analysis indicated that the water provided by the Utility met all Federal and State drinking water standards.

This report summarizes the water quality provided to customers in 2024. It also includes details about where your water comes from, what has been detected in your water and how that compares to regulatory standards. We are committed to providing you with useful information.

SPECIAL HEALTH INFORMATION AVAILABLE

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).

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 systems 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 Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

HEALTH EFFECTS FOR ANY CONTAMINANTS WITH MCL VIOLATION/ACTION LEVEL EXCEEDANCES

SULFATE Waters containing sulfate in quantities above the SMCL are not hazardous to health but may be objectionable for taste, odor, or color.

Additional Health Information

If present, **lead** can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. Germantown Water Utility is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's

risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to know where you can have your water tested, contact Germantown Water Utility (Paul A Haugen at (262) 253-8254). Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

HEALTH EFFECTS FOR ANY CONTAMINANTS WITH MCL

Your water was tested for many contaminants last year. We are allowed to monitor for some contaminants less frequently than once a year. The following tables list only those contaminants which were detected in your water. If a contaminant was

detected last year, it will appear in the following tables without a sample date. If the contaminant was not monitored last year, but was detected within the last 5 years, it will appear in the tables below along with the sample date.

LEAD SERVICES

We are currently unaware of any lead water services to homes or businesses in the Village of Germantown and have not seen any evidence indication we do.

Opportunity for input on decisions affecting our water quality or other questions

First and Third Monday of each month at 7:00 p.m. in the Village Hall Board Room-with the Village Board, located at N112 W17001 Mequon Rd. Germantown, WI 53022.

The day and time maybe subject to change. Water Utility office 262-253-8254, Village Hall 262-250-4721

SOURCES OF GERMANTOWN'S DRINKING WATER

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 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 stormwater runoff and residential uses.

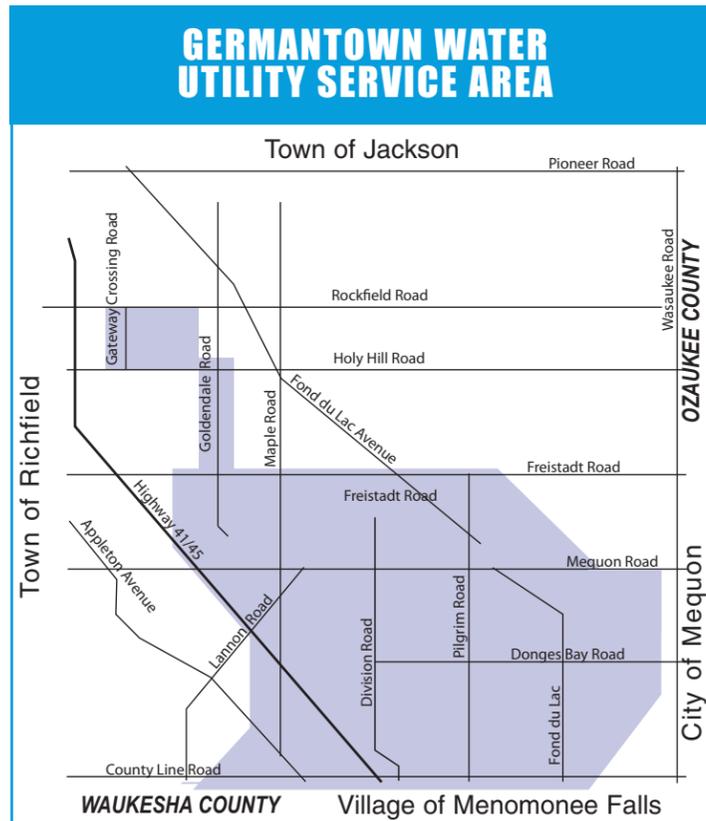
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.



SOURCE (S) OF WATER

SOURCE ID	SOURCE	DEPTH	STATUS
2	Groundwater	342	Active
3	Groundwater	965	Active
4	Groundwater	1271	Active
5	Groundwater	415	Active
7	Groundwater	370	Active
11	Groundwater	1401	Active



COST OF LEAKY PIPES

Size of leak at 60 psi	GALS/MIN	GAL/DAY-24hrs-COST	GALS/YR-COST
1/16" (.0625)	.63	907-\$4.00	331,128-\$1,374.00
1/8" (.125)	2.53	3,643-\$15.00	1,329,768-\$5,519.00
1/4" (.25)	10.12	14,558-\$60.00	5,319,816-\$22,052.00
1/2" (.50)	40.46	58,219-\$242.00	21,250,008-\$88,188.00

First 100,000gal = \$4.35/1000gal...
 Next 900,000gal = \$3.92/1000gal...
 Over 1,000,000gal = \$3.29/1000gal
 (Numbers will vary slightly due to rounding)
 For more information visit:
<https://www.540technologies.com/resources/water-cost-calculator>

TREATED WATER QUALITY

Listed on the following pages are contaminants detected in Germantown's drinking water during 2024. The state allows the GWU to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data though representative, are more than one year old.

HOW TO READ THE ANNUAL GERMANTOWN WATER QUALITY TABLE

1. Read the definitions on the back page to better understand this table.
2. Choose a "Contaminant" on the table.
3. Check the "Ideal Goal" (Maximum Contaminant Level Goal) for that substance.
4. Note the "Highest Level Allowed" (Maximum Contaminant Level).
5. Compare the contaminant "Level Detected" in Germantown's water supply to the Ideal Goal and the Highest Level Allowed

DISINFECTION BYPRODUCTS

CONTAMINANT (Units)	SITE	MCL (Highest Level Allowed)	MCLG (Ideal Goals)	LEVEL FOUND	RANGE	SAMPLE DATE (If prior to "24)	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
HAA5 (ppb)	D-14	60	60	3	3		NO	By-product of drinking water chlorination
TTHM (ppb)	D-14	80	0	20.2	20.2		NO	By-product of drinking water chlorination
HAA5 (ppb)	D-16	60	60	3	3		NO	By-product of drinking water chlorination
TTHM (ppb)	D-16	80	0	6.7	6.7		NO	By-product of drinking water chlorination

INORGANIC CONTAMINANTS

CONTAMINANT (Units)	SITE	MCL (Highest Level Allowed)	MCLG (Ideal Goals)	LEVEL FOUND	RANGE	SAMPLE DATE (If prior to "24)	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
Barium (ppb)		2	2	0.110	0.012-0.110	3/7/2023	NO	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride(ppb)		4	4	0.9	0.5-0.9	3/7/2023	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nickel		100		6.8000	1.2000-6.8000	3/7/2023	NO	Nickel occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products.
Nitrate (NO3-N) (ppm)		10	10	0.82	0.00-0.82		NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)		n/a	n/a	36.00	6.60-36.00	3/7/2023	NO	n/a

CONTAMINANT (Units)	ACTION LEVEL	MCLG	90th PERCENTILE LEVEL FOUND	RANGE	# OF RESULTS	SAMPLE DATE (If prior to "24)	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
Copper (ppb)	AL=1.3	1.3	0.4800	0.0330-0.650	0 of 30 results were above the action level.	6/20/2023	NO	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15	0	1.70	0.00-7.30	0 of 30 results were above the action level.	8/18/2023	NO	Corrosion of household plumbing systems; Erosion of natural deposits

PFAS CONTAMINANTS WITH A HEALTH ADVISORY LEVEL

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) are a large group of human-made chemicals that have been used in industry and consumer products worldwide since the 1950. The following table list PFAS contaminants which were detected in your water and that have a Recommended Public Health Groundwater Standard (RPHGS) or Health Advisory Level (HAL). There are no violations for detections of contaminants that exceed the RPHGS or HAL. The RPHGS are levels at which concentrations of the contaminant present a health risk and are based on guidance provided by the Wisconsin Department of Health Services.

CONTAMINANT (Units)	RPHGS or HAL (ppt)	LEVEL FOUND	RANGE	SAMPLE DATE (If prior to "24)	TYPICAL SOURCE OF CONTAMINANT
PFBS (ppt)	450000	0.66	0.46 - 0.66	1/24/2023	Drinking water is one way that people can be exposed to PFAS. In Wisconsin, two-thirds of people use groundwater as their drinking water source. PFAS can get in groundwater from places that make or use PFAS and release from consumer products in landfills. Note: The recommended health-based levels in the table below were in effect in 2024. These levels were revised by WDHS in 2025. They can be found here https://www.dhs.wisconsin.gov/water/qws.htm
PFHXS (ppt)	40	0.73	0.53 - 0.73	1/24/2023	
PFOS (ppt)	20	1.10	0.00 - 1.10	1/24/2023	
PFOA (ppt)	20	0.59	0.00 - 0.59	1/24/2023	
PFOA and PFOS TOTAL (ppt)	20	1.69	0.00 - 1.69	1/24/2023	

RADIOACTIVE CONTAMINANTS

CONTAMINANT (Units)	MCL (Highest Level Allowed)	MCLG (Ideal Goals)	LEVEL FOUND	RANGE	SAMPLE DATE (If prior to "24)	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
Gross Alpha, Excl. R & U (pCi/l)	15	0	4.6	4.6		NO	Erosion of natural deposits
Radium, (226 + 228) (pCi/l)	5	0	1.8	1.8		NO	Erosion of natural deposits
Gross Alpha, Incl. R & U (n/a)	n/a	n/a	4.7	4.7		NO	Erosion of natural deposits
Combined Uranium (ug/l)	30	0	0.2	0.2		NO	Erosion of natural deposits

CONTAMINANTS WITH A PUBLIC HEALTH GROUNDWATER STANDARD, HEALTH ADVISORY LEVEL OR A SECONDARY MAXIMUM CONTAMINANT LEVEL

The following table lists contaminants which were detected in your water and that have either a Public Health Groundwater Standard (PHGS), Health Advisory Level (HAL), or a Secondary Maximum Contaminant Level (SMCL), or both. There are no violations for detections of contaminants that exceed Health Advisory Levels, Public Health Groundwater Standards or Secondary Maximum Contaminant Levels. Secondary Maximum Contaminant Levels are levels that do not present health concerns but may pose aesthetic problems such as objectionable taste, odor, or color. Public Health Groundwater Standards and Health Advisory Levels are levels at which concentrations of the contaminant present a health risk.

CONTAMINANT (Units)	SMCL	RPHGS or HAL	LEVEL FOUND	RANGE	SAMPLE DATE (If prior to "24)	TYPICAL SOURCE OF CONTAMINANT
Sulfate	250	0	250.00	59.00 - 250.00	3/7/2023	Runoff/leaching from natural deposits, industrial wastes