

# VILLAGE OF MONTPELIER WATER TREATMENT PLANT DRINKING WATER CONSUMER CONFIDENCE REPORT FOR 2025

The Village of Montpelier Water Treatment Plant has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included within this report is general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts.

## Source Water Information

The Village of Montpelier uses ground water as its source of drinking water. The Village has four (4) wells that are between 190ft. and 200ft. deep that pump water from the aquifer. Three of the wells are 16" in diameter and the fourth is 8" in diameter. Two of the wells pump water at a rate of 700 gallons per minute (gpm) and the other two wells pump water at a rate of 350gpm. The treatment process consists of lime softening, carbon dioxide and poly-phosphate stabilization, filtration, and chlorine disinfection. Your treatment plant is operated by Thane Apt (Supervisor) and Dan Ankney (Operator). Thane has a Class 2 Water Supply License and Dan has a Class 1 Water Supply License. Dan recently passed his Class 2 Water Supply test and is in the process of applying for his Class 2 Water Supply License.

The Ohio EPA has completed a study of the Village of Montpelier's source of drinking water, to identify potential contamination sources and provide guidance on protecting the drinking water source. According to this study, the aquifer (water rich zone) that supplies water to the Village of Montpelier has a low susceptibility to contamination based on; 1) presence of a thick layer of clay overlying the aquifer, 2) significant depth (over 90') of the aquifer, 3) no evidence to suggest that ground water has been impacted by any significant levels of chemical contaminations from human activities, and 4) no apparent potential contaminant sources in the protection area. This susceptibility means that under current existing conditions, the likelihood of the aquifer becoming contaminated is relatively low. This likelihood can be minimized by implementing appropriate protective measures. More information about the source water assessment or what customers can do to help protect the aquifer is available by calling 419-485-0936.

Protecting our drinking water source from contamination is the responsibility of all area residents. Please dispose of hazardous chemicals in the proper manner and report polluters to the proper authorities. Only by working together can we insure an adequate safe supply of water for future generations.

## What are sources of contamination to 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. It can also pick up substances resulting from the presence of animals and human activity.

Contaminants that may be present in source water include: **(A)** Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife; **(B)** Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oils and gas production, mining, or farming; **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban water runoff, and residential uses; **(D)** 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 storm water runoff, and septic systems; **(E)** Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that the tap water is safe to drink, the USEPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations also establish limits for contaminants in bottled water, which must provide the same protection for public health.

The sources of drinking water (both tap water and 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 (1-800-426-4791)

### Who needs to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as people undergoing chemotherapy for cancer, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorder, some elderly, and infants can be particularly at risk for infection. These people should seek advice about drinking water from their health care providers. The EPA and Center of 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 (1-800-426-4791).

### About your drinking water.

Montpelier's drinking water has been nationally recognized for its wonderful taste by winning the gold medal in the Berkeley Springs International Water Tasting Competition in 2003, 2006, 2007, 2017, and 2022. Our water has also placed in the top 5 on 7 different occasions and in the top 10 the other 5 years.

The EPA requires regular sampling to ensure drinking water safety. The Montpelier Water Treatment Plant conducted sampling for 9 different regulated contaminants in 2025. These samples were for total coliform and E-coli bacteria, Nitrate, Total Chlorine, TTHM's, HAA5's, VOC's, Inorganics, and Lead and Copper. The Ohio EPA requires 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, though accurate, are more than one year old. For a complete list of results for all sampling please contact the Water Treatment Plant at 419-485-0936.

### Monitoring & Reporting Violations & Enforcement Actions

The Village of Montpelier received a violation for failure to comply with the CCR requirements for their 2024 CCR. The violation that the Village of Montpelier received was as followed: Public water systems participating in the Unregulated Contaminant Monitoring Rule (UCMR) sampling must provide a special notice of the availability of all unregulated contaminant monitoring results and report detected unregulated contaminants in a separate table in the CCR. The UCMR5 detection for lithium, 10.21 ug/L range 9.82-10.6 ug/L, was not included in the report. In order to correct this violation, the Village of Montpelier has added all needed information into the 2025 CCR.

Listed below is information on those contaminants that were found in the Village of Montpelier's drinking water within the last 5 years.

### Table of Detected Contaminants

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detection	Violation	Sample Year	Typical Source of Contaminants
<b>Disinfectant and Disinfectant By-Products</b>							
Total Chlorine (ppm)	MRDL G=4	MRDL =4	0.66	0.48-0.88	No	2025	Water additive used to control microbes
Haloacetic Acids(HAA5's) (ppb)	N/A	60	9.7	9.0 - 9.7	No	2025	By-product of drinking water disinfection
Total Trihalomethanes (TTHM's) (ppb)	N/A	80	48.3	31.3-48.3	No	2025	By-product of drinking water disinfection
<b>Inorganic Contaminants</b>							
Fluoride (ppm)	4	4	0.52	0.52	No	2025	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Barium (ppm)	2	2	0.019	0.019	No	2025	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Nitrate (ppm)	10	10	0.24	0.24	No	2025	Run off from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Lead and Copper						
Contaminants (Units)	Action Level (AL)	Individual Results over AL	90% of tests levels were less than	Violation	Year Sampled	Typical Source of Contaminants
Lead (ppb)	15	0	4	No	2025	Corrosion of household plumbing systems; erosion of natural deposits
	0 samples were found to have lead levels in excess of the lead action level of 15 ppb.					
Copper (ppm)	1.3	0	0.032	No	2025	Erosions of natural deposits; leaching from wood preservatives; Corrosions of household plumbing
	0 samples were found to have copper levels in excess of the copper action level of 1.3 ppm.					

Radiological Contaminants							
Contaminants (Units)	MCLG	MCL	Level Found	Range of Detection	Violation	Sample Year	Typical Source of Contaminants
Gross Alpha Particle Activity (pCi/L)	N/A	N/A	1.67	1.67	No	2025	Erosion of natural deposits.

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. The Village of Montpelier 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>.

Per the Lead and Copper Rules, Public Water Systems were required to develop and maintain a Service Line Inventory. A service line is the underground pipe that supplies your home or building with water. To view the Service Line Inventory, which lists the material type(s) for your location, you can visit Montpelier Town Hall located at 211 N. Jonesville St. Montpelier, OH or contact the Montpelier Water/Sewer Distribution Department at 419-485-1176.

### Unregulated Contaminant Monitoring Rule (UCMR) Sampling

\*The following information is a correction to the 2024 CCR in order to resolve a violation that the Village of Montpelier received.

Unregulated contaminants are those for which U.S. EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of these contaminants in drinking water and whether future regulation is warranted. In 2024 The Village of Montpelier participated in the fifth round of the Unregulated Contaminant Monitoring Rule (UCMR 5). For a copy of the results please call Thane Apt at 419-485-0936.

Below is a table showing detected levels of Unregulated Contaminates that were found in The Village of Montpelier's drinking water:

Contaminant (Units)	Sample Year	Average Level Found	Range of Detections
Lithium (ppb)	2024	10.21	9.82 - 10.6

### Revised Total Coliform Rule (RTCR) Information

All water systems were required to begin compliance with a new rule, the Revised Total Coliform Rule, on April 1, 2016. The new rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of total coliform bacteria, which includes E. coli bacteria. The U.S. EPA anticipates greater public health protection under the new rule, as it requires water systems that are vulnerable to microbial contamination to identify and fix problems. As a result, under the new rule there is no longer a maximum contaminant level violation for multiple total coliform detections. Instead, the new rule requires water systems that exceed a specified frequency of total coliform

occurrences to conduct an assessment to determine if any significant deficiencies exist. If found, these must be corrected by the PWS.

## **License to Operate (LTO) Status Information**

In 2025 we had an unconditioned license to operate our water system.

## **How do I participate in decisions concerning my drinking water?**

Public participation and comment are encouraged at regular meetings of the Village Council, which meets every second and fourth Monday of the month. The meetings are held at the Montpelier Police Dept. conference room and start at 6:00 p.m. (Call Village Offices at 419-485-5543 during business hours to be sure the meeting has not been rescheduled). For more information on your drinking water contact Thane Apt at 419-485-0936

## **Definitions of some terms contained within this report.**

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 Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. In most cases, the USEPA sets MCLs at one in one million level. This means that if a person drinks two liters (approximately half a gallon) of water containing a contaminant at the MCL per day for 70 years, the risk for developing some adverse reaction to the substance is one in one million.

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

Parts per Million (ppm) or Milligrams per Liter (mg/L): Units of measure for concentration of a contaminant. A part per million corresponds to one second in approximately 11.5 days.

Parts per Billion (ppb) or Micrograms per Liter (ug/L): Units of measure for concentration of a contaminant. A part per billion corresponds to 1 (one) second in approximately 31.7 years.

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 drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Gallons Per Minute (gpm): Rate of water flow.

## Backflow Prevention and Cross-Connection Information.

Below is some information regarding Backflow Prevention and Cross-Connection Control. If you believe that you have found a potential cross-connection or if you have any questions regarding backflow prevention, please contact the Village Offices at 419-485-5543.

If a potential or actual cross-connection contamination hazard is identified, the customer will be required to eliminate the hazard and/or install an appropriate backflow preventer at the service connection and/or at the hazard.

### Special Conditions

#### Auxiliary Water Systems

##### What is an auxiliary water system?

It is any water system on or available to your property other than the public water system. Used water or water from wells, cisterns or open reservoirs that are equipped with pumps or other sources of pressure, including gravity are examples.

##### What protection is required?

- The auxiliary water system must be completely separated from water supply plumbing served by a public water system; and
- An approved backflow preventer must be installed at the service connection (where the public water system connects to the customer's plumbing system).

OR

- The auxiliary water system must be eliminated.

##### Are there exceptions?

At their discretion, the water supplier may waive the requirement for a backflow preventer at the service connection if all the following conditions are met:

- All components of the auxiliary water system, including pumps, pressure tanks and piping, are removed from the premises, which are defined as all buildings, dwellings, structures or areas with water supply plumbing connected to the public water system.

- The possibility of connecting the auxiliary water system to the water supply plumbing is determined by the water supplier to be extremely low.
- No other hazards exist.
- The customer enters into a contract with the water supplier, as described below.

The contract will require the customer:

- To understand the potential hazard of a cross-connection.
- To never create a cross-connection between the auxiliary water system and the public water system.
- To allow an inspector to survey their property for hazards as long as the contract is in effect.
- To face loss of service and other penalties if the contract is violated.

The water supplier must perform an annual inspection of the customer's contract-regulated property to verify the conditions have not changed, which would warrant installation of a backflow preventer. The water supplier must, by law, do everything reasonably possible to protect the water system from contamination.

### Booster Pumps

#### What is the concern?

Booster pumps connected to plumbing systems or water mains can cause backsiphonage by reducing the water mains. The following requirements are in place to help prevent backsiphonage:

- Booster pumps, not used for fire suppression, must be equipped with a low suction cut-off switch that is tested and certified every year;
- Alternately, when a booster pump is necessary for one-, two- and three-family dwellings, it is preferred that the booster pump draw from a surge tank filled through an air gap; and

- Booster pumps, used in a fire suppression system, must be equipped with either a low suction throttling valve on the discharge side or be equipped with a variable speed suction limiting control system. Low-pressure cut-off devices will suffice for fire pumps installed prior to August 8, 2008, until a significant modification is warranted, at which point the minimum pressure sustaining method must be updated. Each of these methods must be tested and certified each year.

### Contacts

#### Need more information?

Questions concerning backflow prevention and cross-connection control may be directed to your local water department or to your local Ohio EPA District Office at the following numbers:

Northwest District	(419) 352-8461
Northeast District	(330) 963-1200
Southwest District	(937) 285-6357
Southeast District	(740) 385-8501
Central District	(614) 728-3778

Questions regarding internal plumbing in the home may be directed to your local plumbing authority or to the Ohio Department of Commerce, Plumbing Administrator, at (614) 644-3153.

John Kasich, Governor  
Craig W. Butler, Director

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## Backflow Prevention and Cross-Connection Control

Protecting our  
Public Water System

August 2015



Division of Drinking and Ground Waters  
P.O. Box 1049  
Columbus, Ohio 43216-1049  
(614) 644-2752  
[www.epa.ohio.gov](http://www.epa.ohio.gov)

#### What is a cross-connection?

Any physical connection created between a possible source of contamination and any drinking water system piping.

#### What is backflow?

It is the flow through a cross-connection from a possible source of contamination back into the drinking water system. It occurs when a cross-connection is created and a pressure reversal, either as backsiphonage or backpressure, occurs in the water supply piping.

#### Why be concerned?

- ALL cross-connections pose a potential health risk.
- Backflow can be a health hazard for your family or other consumers if contaminated water enters your water supply plumbing system and is used for drinking, cooking or bathing. Chemical burns, fires, explosions, poisonings, illness and death have all been caused by backflow through cross-connections.
- Backflow occurs more often than you think.
- You are legally responsible for protecting your water supply plumbing from backflow that may contaminate drinking water, either your own or someone else's. This includes complying with the plumbing code and not creating cross-connections.

#### What causes backsiphonage?

Backsiphonage occurs when there is a loss of pressure in a piping system. This can occur if the water supply pressure is lost or falls to a level lower than the source of contamination. This condition, which is similar to drinking from a glass with a straw, allows liquids to be siphoned back into the distribution system.

#### What causes backpressure?

Backpressure occurs when a higher opposing pressure is applied against the public water system's pressure. This condition allows undesirable gases or liquids from another system to enter the drinking water supply. Any pumping system (such as a well pump) or pressurized system (such as steam or hot water boilers) can exert backpressure when cross-connected with the public water system.

#### What can I do?

- Be aware of and eliminate cross-connections.
- Maintain air gaps. Do not submerge hoses or place them where they could become submerged.
- Use hose bib vacuum breakers on fixtures (hose connections in the basement, laundry room and outside).
- Install approved, testable backflow preventers on lawn irrigation systems.
- Do not create a connection between an auxiliary water system (well, cistern, body of water) and the water supply plumbing.

#### What are some common backflow hazards that threaten the homeowner and other consumers?

- Hose connections to chemical solution aspirators to feed lawn and shrub herbicides, pesticides or fertilizers.
- Lawn irrigation systems.
- Chemically treated heating systems.
- Hose connections to a water outlet or laundry tub.
- Swimming pools, hot tubs, spas.
- Private and/or non-potable water supplies located on the property.
- Water-operated sump drain devices.
- Feed lots/livestock holding areas or barnyards fed through pipes or hoses from your water supply plumbing.

#### What are examples of cross-connection and backflow scenarios?

- Soapy water or other cleaning compounds backsiphon into the water supply plumbing through a faucet or hose submerged in a bucket or laundry basin.
- Pool water backsiphons into the water supply plumbing through a hose submerged in a swimming pool.
- Fertilizers/pesticides backsiphon into the water supply plumbing through a garden hose attached to a fertilizer/pesticide sprayer.
- Chemicals/pesticides and animal feces drawn into the water supply plumbing from a lawn irrigation system with submerged nozzles.
- Bacteria/chemicals/additives in a boiler system backsiphon into the water supply plumbing.
- Unsafe water pumped from a private well applies backpressure and contaminates the public water supply through a connection between the private well discharge and the potable water supply plumbing.

#### What must be done to protect the public water system?

The public water supplier must determine potential and actual hazards. If a hazard exists at a customer's public water supply service connection, the customer will be required to install and maintain an appropriate backflow preventer\* at the meter and/or at the source of the hazard.

\*Check with your water supplier to verify which backflow preventer is required before purchase or installation.

#### Who is responsible?

In Ohio, the responsibility for preventing backflow is divided. In general, state and local plumbing inspectors have authority over plumbing systems within buildings while Ohio EPA and water suppliers regulate protection of the distribution system at each service connection.

Water customers have the ultimate responsibility for properly maintaining their plumbing systems. It is the homeowner's or other customer's responsibility to ensure that cross-connections are not created and that any required backflow preventers are tested yearly and are in operable condition.

#### What is the law?

Ohio Administrative Code Chapter 3745-95 requires the public water supplier to protect the public water system from cross-connections and prevent backflow situations. The public water supplier must conduct cross-connection control inspections of their water customers' property to evaluate hazards. Local ordinances or water department regulations may also exist and must be followed in addition to state regulations.