Village of Martinsburg

Drinking Water Consumer Confidence Report

2021

Martinsburg is pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the excellent water service we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water. Our water source is two wells drilled 300 feet deep into the Big Injun formation. The well field, as well as our 75,000 gallon water tower an chlorination pump are all located on SR. 586 west of town. Martinsburg in 2021 has a new water well capable of pumping 75 gallons per minute, a water tower cleaned and painted and updated, new water meters all over town that can be read from the street. New piping to all three wells as well as new wiring and a new well house. We have experienced two water brakes on the 8 inch water line running to town along SR. 586(Mt. Vernon Rd) this causing loss of water for the entire town. These breaks caused the Village to issue boil alerts. The system designed in 1980's there is only one feed to town. The village is currently working on designs to feed the village from Sr. 62 side of town as well as the 586 side. With grant money hopefully we can do this in the next few years.

The following paragraph contains EPA required information on water containing 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 services lines and in home, plumbing. Martinsburg Water System 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 lead and copper can be absorbed into this water. 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 Safe Drinking Water Hotline at http://www.epa.gov/safewater/lead.

Martinsburg's service lines are either plastic or copper line. The main lines carrying the water from the wells to your service line are ductile iron and all of these are lead free. The Village tests for lead and copper in your water system as required by the OEPA. The village was not required to collect Lead and Copper samples this year.

Martinsburg is required to collect 12 coliform samples per year, one a month. This year we had no samples that tested positive. What's this mean? Positive sample means that sample contained back round indicators of bacteria but tested negative for E-coli. When this dose, happen we are required to collected 4 follow up samples, and they need to test negative.

Martinsburg had no violation in 2021.

The use of personal water systems {private wells} in some homes in the village could cause a problem with cross connections and possibly contaminate the village water system. The village water department continues to inspect these residents yearly to make sure no cross connection exist. The village can and will be held responsible for any contamination caused by a private well connected into our system. At last inspection all wells are out of commission and not effecting the water system.

Our Wellhead Protection Program is a continuous program that requires not only the well field neighbors, but all of the village residents to watch for and report to the OEPA any possible pollutants.

What are sources of contamination to drinking water?

The sources of drinking water both tap water and bottled water includes 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: (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, oil and gas production, mining, or farming; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm 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.

The Village and its citizens need to continue to work at keeping Martinsburg a clean and healthy place to live and raise your children and grandchildren.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amounts of certain contaminants in water, provided by public water systems. FDA 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 (1-800-426-4791) Hotline at htt://www.epa.gov/safewater/lead
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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 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 infection. 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 (1-800-426-4791).

About your drinking water.

The EPA requires regular sampling to ensure drinking water safety. The Village of Martinsburg conducted sampling for *{bacteria, Nitrite, Nitrate, Synthetic Organic Chemicals , Volatile Organic Chems., Radiologicals, Inorganics, TTHM, Haa5}* contaminants during *2021*

, Samples were collected for several different contaminants most of which were not detected in the Martinsburg water supply. 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.

Listed below is information on those contaminants that were found in the Martinsburg, water.

OH4202312	MARTINSBURG VILLAGE PWS								
	Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
	Chlorine	Monthly Ave.	0.59	0.59-0.94	MRDLG =4	MRDL = 4	PPM	N	Water Additive used to control microbes
	Total	8-2-21	15	15-15	No goal	80	ppb	N	By-product of drinking water

	Trihalomethanes (TTHM)				for the total				disinfection.
	Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
	Barium	03-08-21	0.017	.017 - .017	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
	Fluoride	03-08-21	0.149	0.149-0.149	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
	Nitrate [measured as Nitrogen]	3-8-21	2.49	2.49-2.49	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
	Lead and Copper	Collection Date	90th Percentile	# of Samples	MCLG	Action Level	Units	Violation	Likely Source of Contamination
	Copper	8/6/2020	0.11	5	1.3	1.3	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
	Lead	8/6/2020	<0.002	5	0	15	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

	Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination		

Public participation and comment are encouraged at regular meetings of the Water Department, which meets the last Tuesday of the month in the Village Hall at 6.00 pm.

For more information on your drinking water contact Jim Wilfong @ 740-504-3047

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.

Parts per Million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days. Or one ounce in 7,350 gallons of water

Parts per Billion (ppb) or Micrograms per Liter (µg/L) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years. Or one ounce in 7,350,000gallons of water.

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

Action Level Goal (AGL): The level of contaminant in drinking water below which there is no known or expected risk to health. AGLs allow for margin of safety.

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

Maximum Residual Disinfectant Level Goal (MRDLG): The level of 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.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of disinfectant is necessary for control of microbial contaminants.

The "<" symbol: A symbol, which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.

Ohio EPA in 2020 completed a study of the Village of Martinsburg source of drinking water to determine its susceptibility. According to this study, the aquifer (water-rich zone) that supplies water to the Village has high susceptibility to contamination. This determination is based on the following.

The presence of manmade contaminants in the aquifer. On four occasions nitrate has been detected in the water supplied by the system above the concentration of concern of 2 mg/l. This is well below the MCl of 10 mg/l.

The Village of Martinsburg has worked very hard to develop and implement a comprehensive wellhead/source water protection plan to help prevent additional contamination from entering the aquifer and prevent the existing contamination from impacting the drinking water source. The protection plan contains an education component, source control strategy,a contingency and emergency response plan, and ground water

monitoring strategies. More information about the source water assessment or what consumers can do to help protect the aquifer is available by calling [740- 641-8833].

We have a current, unconditioned license to operate our water system. LIC # 4202312-1393941-2021

Dave Stair

Technical Supervisor

David Denune

Mayor, Martinsburg