



## OH8701712 Village of Pemberville 2013

### DRINKING WATER CONSUMER CONFIDENCE REPORT

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

*Este informe contiene informacion muy importante sobre la calidad de su agua potable. Por favor lea este informe o comuniquese con alguien que pueda traducir la informacion.*

In 2013, the Village Water Department continued to make improvements and upgrades to the water treatment and distribution system. Village of Pemberville replaced many of the old water meters with new and more accurate meters. Well # 2 in the North Well Field is being replaced. Well #10 in the Southeast Well Field was cleaned, inspected, and a new pump, motor, and down piping installed to increase yield. A new well #11 has been drilled and should be in production by the middle of 2014.

#### Where does my water come from?

The source of the Village of Pemberville's water is Ground Water. We get the water from eight (8) wells in three (3) well fields. The water is treated in ION exchange units in the two (2) water treatment plants. Both water plants are operated and maintained by one employee with an Ohio EPA Class 1 Water Supply Operator License. To ensure the quality and consistency of the water, the water plants are checked 365 days a year. In 2013 46,524,000 gallons of water were produced for our customers, for a daily average of 127,463 gallons.

A Vulnerability Assessment report was prepared for your water system by Ohio EPA. The assessment indicates that the Village of Pemberville's source of drinking water has a high susceptibility contamination because:

- The wells are located in a sensitive karst area;
- The shallow depth (less than 25 feet below ground surface) of the aquifer;
- The shallow well casing depth (25 feet);
- Potential contamination sources exist within the protection area.

This does not mean that the aquifer will become contaminated, only that under the existing conditions ground water could become impacted by contaminant sources. A copy of the DRINKING WATER SOURCE ASSESSMENT for the Village of Pemberville (PWS ID # 8701712) is at the Village Office and can be reviewed there. The DRINKING WATER SOURCE PROTECTION PLAN and the WATER SUPPLY CONTINGENCY PLAN were both reviewed in 2013.

#### 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.

In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limit the amount 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).

#### 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).

The EPA requires regular sampling to ensure drinking water safety. The Village of Pemberville conducted sampling for Lead and Copper, Asbestos, Total Coliform, Total Chlorine, Inorganics, Nitrite, Nitrate, Radiologicals, Volatile Organic Chemicals, and Disinfection By-Products during 2013. Samples were collected for a total of 54 different contaminants most of which were **not detected** in the Village of Pemberville's 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.

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 Pemberville 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 at 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

*We have a current, unconditional license to operate our water system.*

#### How do I participate in decision concerning my drinking water?

Public participation and comment are encouraged at regular meeting of the Board of Public Affairs, which meets the Monday prior to the first and third Tuesday of each month. The meetings are held at 7:00 PM. For more information on your drinking water contact Nathan Schultze at [water@villageofpemberville.org](mailto:water@villageofpemberville.org).

Listed below is information on those contaminants that were found in the Village of Pemberville drinking water.

OH8701712 PEMBERVILLE VILLAGE WATER									
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Chlorine	2013	1.9	1.3 – 2.5	MRDLG = 4	MRDL = 4	ppm	NO	Water additive used to control microbes.	
Haloacetic Acids (HAAS)*	2013	12.3	8.6 – 16.0	No goal for the total	60	ppb	NO	By-product of drinking water chlorination.	
Total Trihalomethanes (TTHM)*	2013	62.5	39.1 – 85.0	No goal for the total	80	ppb	NO	By-product of drinking water chlorination.	

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Fluoride	09/26/13	1.27	.59 – 1.27	4	4.0	ppm	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	

Lead and Copper	Collection Date	90th Percentile	# of Samples Over AL	MCLG	Action Level (AL)	Units	Violation	Likely Source of Contamination	
Copper	09/03/13	0.466	0	1.3	1.3	ppm	NO	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	
Zero out of 10 samples was found to have copper levels in excess of the Action Level of 1.3 ppm.									
Lead	09/03/13	<5	0	0	15	ppb	NO	Corrosion of household plumbing systems; Erosion of natural deposits.	
Zero out of 10 samples was found to have lead levels in excess of the Action Level of 15 ppb									

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Gross alpha excluding radon and uranium	06/23/10	4.4	0 - 4.4	0	15	pCi/L	NO	Erosion of natural deposits.	

Unregulated Contaminants									
Name				Average			Range		
Nickel (ppb)				0.0441			0 – 0.0441		

Unregulated contaminants monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

- **Maximum Contaminant Level Goal or 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 or 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 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 a disinfectant is necessary for control of microbial contaminants.
- **Picocuries per liter (pCi/L):** A common measure of radioactivity.
- **IDSE:** Initial Distribution System Evaluation
- **Action Level(AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **ppm:** milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
- **ppb:** micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
- **Action Level Goal (ALG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

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