



CITY OF BELLEFONTAINE

WATER DEPARTMENT

BELLEFONTAINE FACTS

The City of Bellefontaine Water Department serves approximately 14,054 people through 6,146 service connections and 110.7 miles of distribution lines.

The new water treatment plant was completed and put in service in 1998.

In 2022 we had an unconditioned license to operate our water system.

PUBLIC PARTICIPATION

You can participate in decisions regarding your water by attending a City Council Meeting. The Council meets at 7:30 p.m. in Council Chambers on the second and fourth Tuesday of each month at the Municipal Building located at

135 N. Detroit St., Bellefontaine, OH. Additional questions can be directed to the **Mayor's Office** by calling

937-592-6807.

EPA SAFE DRINKING WATER HOTLINE

1-800-426-4791



The City of Bellefontaine is happy to present you this report to inform our valuable customers on the quality of their drinking water. This report includes details on where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information about your water supply, because customers who are well informed are our best allies in supporting improvements necessary to maintain the highest drinking water standards. Our water source is groundwater and the well field is located at 1251 West Columbus Street. Bellefontaine

WATER TREATMENT
937-593-6121

BILLING QUESTIONS
937-592-3561

MAYOR'S OFFICE
937-592-6807

2022 ANNUAL WATER REPORT



IMMUNO COMPROMISED PERSONS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemo-therapy, 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 infections by cryptosporidium and other microbiological contaminants are available from the Safe Water Drinking Hotline.

1-800-426-4791

The City of Bellefontaine

Routinely monitors for contaminants in your drinking water according to Federal and State laws. The table enclosed shows the results of our monitoring for the period of January 1st to December 31st, 2022. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Federal Environmental Protection Agency’s Safe Drinking Water Hotline (1-800-426-4791).

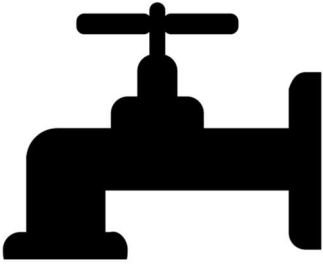
If you have questions regarding this report, please contact Ryan Shields, Water Superintendent at 937-593-6121

SOURCES OF CONTAMINATION

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: (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 users; (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, EPA 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.



LEAD WATER LINES

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 City of Bellefontaine 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 1-800-426-4791 or on the web at

<https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>



- Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment of other requirements which a water system must follow.
- Parts per Million (ppm) or Milligrams per Liter (mg/L):** are units of concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.
- 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 Billion (ppb) or Micrograms per Liter (mg/L):** are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.
- Picocuries per liter (pCi/L):** picocuries per liter is a measure of the radioactivity in water.
- 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. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.



SUSCEPTIBILITY ANALYSIS

The aquifer that supplies drinking water to the City of Bellefontaine’s West wellfield is highly susceptible to contamination. This determination was made because of the following reasons:

- Water quality results indicate impacts of volatile organic compounds.
- The carbonate aquifer has a relatively shallow depth to water, in most areas less than 30 feet below the ground surface.
- The topography is relatively flat, allowing for most of the recharge to infiltrate into the ground instead of running off.
- Potential contaminant sources exist within the protection area.

Water quality data collected to meet public water supply requirements provide a direct measurement for the presence of contamination in drinking water. Water quality data was evaluated using the drinking water compliance database available at the Ohio EPA. The Ohio EPA has a high confidence level in drinking water data collected since 1990. Samples collected at Bellefontaine of both raw and treated water between 1990 and 1998 resulted in detectable levels of the organic compounds.

Additional samples have been collected since 1998 at Bellefontaine’s water supply and concentrations of organic compounds have not been detected. Bellefontaine is currently operating a treatment system to help ensure that volatile organic compounds remain at well below the maximum contaminant level to protect the health of the public.

Many potential sources of contamination have been identified in Bellefontaine’s protection areas. Over half of the sources identified are commercial and industrial sources; the remainder are gravel pits and quarries, several cemeteries, major transportation routes, agricultural and residential sources (includes home fuel oil tanks and septic systems). More detailed information is available in the City’s Wellhead Protection Report and Susceptibility Analysis, which can be obtained by calling 937-593-6121 or Ohio EPA 1-800-426-4791.

CONTAMINANTS	SAMPLE YEAR	LEVEL DETECTE D	RANGE	MCLG	MCL	UNITS	VIOLATION	LIKELY SOURCE OF CONTAMINATION
Disinfectants and Disinfection By Products								
Chlorine	2022	0.95	0.75 – 0.98	MRDLG = 4	MRDL = 4	Ppm	N	Water additive used to control microbes.
Total Trihalomethanes	2022	24.05	5.5 – 40.0	N/A*	80	Ppb	N	By-product of drinking water disinfection
Haloacetic Acids (HAA5) (ppb)	2022	2.7 ug/L	N/D - 6.6	60	N/D	ug/L	N	Byproduct of Drinking Water Chlorination
Barium	2021	148	N/A	2	2	Ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride	2022	.972	.444 – 1.29	4	4	Ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
MERCURY	2021	0.09	NA	51	1	ppb	N	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
NITRATE	2022	0.393	NA	10	10	Mg/L	N	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Radioactive Contaminants								
Gross alpha excluding radon and uranium	2015	4.89	NA	0	15	pCi/L	N	Erosion of natural deposits
Lead and Copper								
Contaminants	Year Sampled	90% of results were less than	Sample Results over the AL	Action Level	Units	Violation	Typical Source of Contaminants	
Copper	2022	0.939 mg/L	2310	1.3	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	
	1 out of 30 samples exceeded the action level of 1.3 mg/l for copper							
Lead	2022	4.4 ug/L	N/A	15	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits	
	0 out of 30 samples exceeded the action level of 15.0 ug/l for lead							
Unregulated Contaminants (UCMR4)								
Contaminants (Units)		MCLG	MCL	Level Found	Range	Sample Location	Sample Year	Typical Source of Contaminants
Manganese		N/D*	N/D*	N/D	N/D*	Entry Point	2022	Erosion of natural deposits

*N/A – Analyte **NOT APPLICABLE**

*N/D–Analyte **NOT DETECTED** at or above the reporting limit.