



**JEFFERSON COUNTY WATER AND SEWER DISTRICT**  
***For Service Area G1 & G2***  
***(Part of Area “A”. OEPA PWS ID OH4100803)***  
**Drinking Water Consumer Confidence Report**  
**For 2021**

**Section 2: Introduction**

The Jefferson County Water and Sewer District (JCWSD) 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.

**Section 3: Source Water Information**

The JCWSD does not own a water treatment plant. Therefore, it must purchase all the water it delivers to its customers from various suppliers. The vast network of pipelines, storage tanks, and booster pump stations used to distribute water by the JCWSD are divided into different service areas. The table below lists the different service areas and corresponding supplier.

<b>SERVICE AREA</b>	<b>SUPPLIER</b>
B-1, M, PHKE	City of Toronto Water Department
O, Overlook Hills Subdivision	City of Toronto Water Department
J, Sunshine Park, Jefferson Heights Area	Village of Mingo Junction Water Departments City of Steubenville Water Department
A, New Alexandria, CR 19, SR 151 Smithfield, Piney Fork & SR152	Brilliant Water and Sewer District
<b><i>G1 &amp; G2, Rayland Area, SR 150</i></b>	<b><i>Village of Tiltonsville Water and Sewer Department</i></b>

The source of water for the Village of Tiltonsville Water and Sewer Department are two wells. The North well is located approximately 100 ft. north of the water treatment building at the eastern end of Hodgens Avenue in Tiltonsville, Ohio. The south well is located directly adjacent to the water treatment plant. After the water comes out of the well it is treated to remove several contaminants, and a disinfectant is added to destroy microbiological contaminants. The North well liner was replaced with a new stainless-steel liner and pump in December 2013. In 2005, the south well was replaced with a new well and submersible pumping system. There is a back-up connection with the Village of Yorkville for emergency use. A copy of Yorkville’s Consumer Confidence report can be obtained by calling 740-859-5171.

• **Source water assessment and its availability**

The Ohio EPA has completed a source water assessment for the Village of Tiltonsville to identify potential contaminant sources and provide direction on protecting the drinking water source. According to this study, **the aquifer (water-rich zone) that supplies water to the Village of Tiltonsville has a relatively high susceptibility to contamination.** This is based on the following: The lack of a protective layer of clay/shale/other overlying the aquifer and the presence of significant potential contaminant sources in the protection area. **This susceptibility means that under current, existing conditions, the likelihood of the aquifer becoming contaminated is relatively high.** This likelihood can be minimized by implementing appropriate protective measures. For information on how to obtain a copy of this report, contact Carl Sgalla, Tiltonsville Village Administrator, at 740-859-4692 or the Jefferson County Water and Sewer District at 740-283-8577.



#### **Section 4: What are the sources of contamination to drinking water?**

The sources of 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 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by the 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 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).

#### **Section 5: 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 for 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).

#### **Section 6: About your drinking water**

The EPA requires regular sampling to ensure drinking water safety. The JCWSD and the City of Toronto Water Department Water Department conducted sampling for bacteria, inorganic and volatile organic contaminants during 2021. Samples were collected for a total of over 50 different contaminants, most of which were not detected in the 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, is more than one year old.



**Section 8: Table of Detected Contaminants**

Listed below is information on those contaminants that were found in the JCWSD Water System as the result of monitoring by the village of Tiltonsville Water and Sewer Department and the JCWSD. (Contaminants sampled by the JCWSD are marked with an \*).

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
<b>Inorganic Contaminants</b>							
Nitrate (ppm)	10	10	2.08	NA	No	2021	Runoff from fertilizer use; Erosion of natural deposits
Barium (ppm)	2	2	0.0448	NA	No	2021	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Thallium	0.5	2	1.4	NA	No	2021	Discharge from electronics, glass, and leaching from ore-processing
<b>Disinfection By-Products</b>							
TTHMs (Total Trihalomethanes) (ppb)	NA	80	5.6	4.5-5.6	No	2021	By-product of drinking water disinfection
<b>Residual Disinfectants</b>							
Chlorine (as CL <sub>2</sub> ) (ppm) *	4	4	1.04	0.35-1.55	No	2021	Water additive used to control microbes
<b>Lead and Copper *</b>							
Contaminants (units)	Action Level (AL)	Individual Results over the AL	90% of test levels were less than	Violation	Year Sampled	Typical source of Contaminants	
Lead (ppb) *	20	0	NA	No	2021	Corrosion of household plumbing systems; Erosion of natural deposits	
	0 out of 20 samples were found to have lead levels in excess of the lead action level of 15 ppb.						
Copper (ppm) *	20	3	2.27	Yes	2021	Corrosion of household plumbing systems; Erosion of natural deposits	
	3 out of 20 samples were found to have copper levels in excess of the copper action level of 1.3 ppm.						

**Section 10: Violations and Exceedence Levels**

Jefferson County Water and Sewer District A is in violation of Ohio Administrative Code (OAC) Rule 3745-81-89 (A) for failure to ensure water quality parameter samples were analyzed using proper methods by October 22, 2021. Not all required parameters were collected or analyzed from the distribution system



Jefferson County Water and Sewer District A is also in violation of OAC Rule 3745-81-90 (A) for failure to report required water quality parameter sampling to Ohio EPA within 10 days following the month in which the results were received.

In 2021, the JCWSD failed to properly control corrosion in the water system and the action level for copper was exceeded during the summer testing for copper. The JCWSD followed up with the OEPA and initiated the proper steps to correct the issue. Source water treatment and chemical additions are currently being analyzed, and the JCWSD is following all steps as laid out by the OEPA to correct this level exceedence.

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 Wilson's disease should consult their personal doctor.

### **Section 13: Lead Educational Information**

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. {Name of 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, 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>

### **Section 18: License to Operate (LTO) Status Information**

The Jefferson County Water and Sewer District's G1 & G2, Rayland Area, SR 150 has a current, unconditional license to operate our water system.

### **Section 20: Public Participation and Contact Information**

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

Public participation and comment are encouraged at regular meetings of the Jefferson County Board of Commissioners which meets every Thursday morning at 9:00 A.M. at 301 Market Street, Steubenville, Ohio 43952.

- **Obtaining more information:**

If you would like more information on your drinking water, you can contact Michael S. Eroshevich of the JCWSD at (740) 283-8577 or via email at [meroshevich@jewatersewer.com](mailto:meroshevich@jewatersewer.com)

### **Section 21: 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 levels (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 (ppms) 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.



- Parts per Billion (ppbs) or Micrograms per Liter ( $\mu\text{g/L}$ ) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.
- Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements, which a water system must follow.
- Treatment Technique (TT): A required process intended to reduce the level of a 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 a 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).
- The “>” symbol: A symbol which means “greater than”.