

# Northwest Regional Water District Drinking Water Consumer Confidence Report For 2017

The **Northwest Regional Water District** 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.

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

- [Source Water Information](#)

The **Northwest Regional Water District** receives its drinking water from **Scioto County Regional Water District No. 1** ([water1.org](http://water1.org)) in Lucasville, Oh. The water we supply comes from 9 wells located in the Teays Valley Aquifer near St. Rt. 348. The water is pumped from wells and is softened using lime. The water is then stabilized using carbon dioxide to prevent excessive buildup inside pipes. Chlorine is added to the water to kill any bacteria that may be present. The water then moves through nine filters, which remove any remaining particulate matter that may be present in the water. Fluoride is added to the water, as required. Finally, chlorine is added one more time to guarantee adequate amounts will remain in the water throughout the distribution system. If you have any questions concerning the source water you can call Water1's treatment plant, they have state certified lab analysts working every day. For more information, call 740-259-2301 or [water1.org](http://water1.org).

A Source Water Assessment was completed for Scioto County Regional Water #1 by Ohio EPA. This assessment indicates that Scioto County Regional Water District's source of drinking water has a high susceptibility to contamination due to:

- the presence of a relatively permeable layer of soil overlying the aquifer,
- the relatively shallow depth (less than 15 feet below ground surface) of the aquifer,
- the presence of numerous significant potential contaminant sources in the protection area.

The risk of future contamination can be minimized by implementing appropriate protective measures. The Source Water Assessment Report (SWAR) may be obtained From Water1 or by the following:  
<http://wwwapp.epa.ohio.gov/gis/swpa/OH7300212.pdf>



Call 811 or 1-800-362-2764 Before You Dig: It's The Law!

- [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, 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.

To ensure that tap water is safe to drink, USEPA prescribes regulations which limit the number 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 Federal 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).

- [About your drinking water.](#)

The EPA requires regular sampling to ensure drinking water safety. The **Northwest Regional Water District** conducted sampling for bacteria; inorganic; radiological; synthetic organic; volatile organic during 2017. Samples were collected for a total of 5 different contaminants most of which were not detected in the **Northwest Regional Water District** 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. **In 2017 we had an unconditioned license to operate our water system.**

Your drinking water met all Ohio EPA standards

- [Boil Advisory Information](#)

For the most up to date boil advisory information, check our website at [NWRwater.com](http://NWRwater.com), [Facebook](#), or sign up for



our [notification system](#) (One Call Now). Also, any other important information concerning the quality of your water will be posted.



- [Cross Connection Control Survey](#)

The purpose of this survey is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. We are responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler system
- Pool or hot tub (whirlpool tubs not included)
- Additional source(s) of water on the property
- Decorative pond
- Watering trough

- [Public Participation Information](#)

Regularly scheduled board meetings are held in the Thomas E. Slye Annex, located behind our office on Smith St in McDermott. They are held the third Tuesday of every month @ 7:30 p.m. If you have any questions regarding the information contained in this report, please contact our office @ 740-259-2789 Toll free 800-933-9170 Fax: 740-259-2102 [Email](#)

- [Table of Detected Contaminants](#)

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

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Level Found	Range	Date	Violation	Typical Source
<b>Residual Disinfectants</b>							
Chlorine (as Cl <sub>2</sub> ) (ppm)	MRDLG = 4	MRDL = 4	.97	.80-1.24	2017	No	Water additive used to control microbes
<b>Disinfection By-Products</b>							
TTHMs [Total Trihalomethanes] (ppb)	N/A	80	57.8	30.3-66.8	2017	No	By-product of drinking water disinfection
Haloacetic Acids (HAA5) (ppb)	N/A	60	10.1	6.0 – 13.3	2017	No	By-product of drinking water chlorination
<b>Inorganic Contaminants</b>							
Nitrate [measured as Nitrogen] (ppm)	10	10	.52	N/A	2017	No	Runoff from fertilizer use; Erosion of natural deposits
Fluoride (ppm)	4	4	1.06	.82 -1.17	2017	No	Water additive which promotes strong teeth; Erosion of natural deposits
<b>Lead and Copper</b>	<b>AL</b>	<b>Results over AL</b>	<b>90% of levels were less than</b>		<b>Year</b>	<b>Violation</b>	
Lead - action level at consumer taps (ppb)	Action Level =15		<. 0.005		2017	No	Corrosion of household plumbing systems; Erosion of natural deposits
zero out of 30 samples were found to have lead levels in excess of the lead action level of 15 ppb.							
Copper - action level at consumer taps (ppm)	Action Level =1.3		< 0.050		2017	No	Corrosion of household plumbing systems; Erosion of natural deposits
Zero out of 30 samples were found to have copper levels in excess of the copper action level of 1.3 ppm.							
<b>Unregulated Contaminates (2014)</b>							
Contaminate	Range		Average				
Molybdenum	4.2 - 4.6		4.5				
Strontium	160 - 190		170				
Vanadium	.5 - .8		.67				
Chromium-6	.18 - .29		.22				
1,4-dioxane	.08		.08				
Chromium(total)	.3		.3				



This Shaded Data Supplied by  
[Water1.org](http://Water1.org)

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. Only the unregulated contaminants that were detected are shown in the table of unregulated contaminants.

- [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. **Northwest Regional Water District** 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>.

- [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*

- [Definitions](#)

**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.

**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.

**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.

**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.

**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.

**Picocuries per liter (pCi/L):** A common measure of radioactivity

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### IDSE Monitoring

Under stage 2 Disinfectants/Disinfection Byproducts Rule (D/DBPR), our public water system was required by the USEPA to conduct an evaluation of our distribution system. This is known as an Initial Distribution System Evaluation (IDSE), and is intended to identify locations in our distribution system with an elevated disinfection byproduct concentrations. The locations selected for the IDSE may be used for compliance monitoring under Stage 2 DBPR, beginning 2013. Disinfection byproducts are the result of organic matter naturally occurring in the source water. Disinfection byproducts are grouped into two categories, Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5). USEPA sets standards for controlling the levels of disinfectants and disinfectant byproducts in drinking water, including both TTHMs and HAA5s. 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 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 can 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 the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, the 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. 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 systems disorders, some elderly, and infants can be particularly at risk of 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 infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline 1-800-426-4791