



## **Robin Grays Public Water System**

**PWS ID 1330912**

## **2019 Annual Water Quality Report**

### **Introduction**

This brochure is a summary of the quality of the water we provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) standards. We are providing you with the information because we want you to be informed. We know that you count on us for a safe and reliable supply of water every day and we are dedicated to providing the highest quality of service to you.

The Clermont County Board of County Commissioners owns and operates the Clermont County Water System. The Village of New Richmond purchases water from the Clermont County Water System to provide water for our system Robin Grays Public Water System. We encourage public interest and participation in our community's decisions affecting drinking water. Public feedback is welcome. Anyone wishing to comment on water quality or the operation of the water system is encouraged to do so by attending the Village Council meetings that are held the second and fourth Tuesday of each month starting at 7:00 P.M. Further information about Council meetings dates can be obtained by calling 553-4146. Meetings dates are also posted on the Village's website [www.newrichmond.org](http://www.newrichmond.org). Specific questions concerning your water should be directed to Ken Shearwood with the New Richmond Utility Department at 553-2001 and/or Tim Neyer with Clermont County Water at 732-7945.

### **Drinking Water Quality**

Clermont County Water System and the Village of New Richmond both ensure that your water is safe through regular monitoring and testing of water quality. Our own, as well as other, independent state-certified testing laboratories conduct these tests. This report shows a comprehensive summary of the laboratory test results for the contaminants we have detected in the drinking water in the most recent testing done in accordance with the drinking water regulations. Responsibility for maintaining water quality resides with our staff of certified water treatment plant operators, licensed by the Ohio Environmental Protection Agency (OEPA).

The Safe Drinking Water Act directs the state, along with the Environmental Protection Agency (EPA), to establish and enforce minimum drinking water standards. These standards set sampling frequency and concentration limits on certain biological, radioactive, organic and inorganic substances sometimes found in drinking water. The limits are called Maximum Contaminant Levels or MCLs. The Maximum Contaminant Levels (MCLs) are set to prevent health problems for people throughout their lifetime.

### **Important Health Information**

Some people may be more vulnerable to contaminants in drinking water than is the general population. Immunocompromised 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 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* are available from the Safe Drinking Water Hotline (800-426-4791).

In the area of clean water, an ounce of prevention is definitely worth a pound of cure. All citizens should take extreme care when disposing of all hazardous wastes.

## Water Source

The Clermont County Water System operates three water treatment plants that pump into a common distribution system of pipes serving our customers.

The MGS plant, located near Miamiville, draws from wells in the Little Miami River Aquifer. In 2004, the Ohio EPA performed a source water assessment for the MGS well field and designated it as highly susceptible to contamination. This is based in part on the geology of the aquifer, which is shallow and has little or no impermeable materials atop it. Another factor is the presence of potential sources of pollution in the area. The EPA also notes the presence of nitrates in the water, which suggests manmade influence in the aquifer. However, the water continues to meet drinking water standards.

The PUB plant is near New Palestine, where its wells draw from the Ohio River Valley Aquifer. A draft susceptibility analysis from the Ohio EPA has determined that this aquifer has a high susceptibility for contamination, based on a relatively thin layer of low permeability material overlying the aquifer, and the relatively shallow depth of the aquifer. Potential pollution sources in the area and a possible hydraulic connection to the Ohio River also contribute to this assessment. However, the EPA agrees that there is no evidence of existing chemical contaminants. These well fields are monitored for contamination and cared for under the Wellhead Protection Plan. Persons who wish to learn more may call Tim Neyer at 513--732-7945.

The Bob McEwen Water Treatment Plant (BMW) is located near Batavia and draws surface water from Harsha Lake, which was created by constructing a dam across the East Fork Little Miami River. Surface water is more susceptible to contamination than groundwater; so extensive testing of the raw water is conducted frequently. Chemical and bacteriological testing, as well as evaluation of the biological organisms living upstream of the lake is used to determine raw water quality and identify areas of concern. The Ohio EPA completed a source water assessment for BMW in 2004. The protection area around Harsha Lake and the upstream portions of the East Fork Little Miami River includes a number of commercial and industrial facilities, but the greater concern is runoff from agricultural fields, the potential for spills at road and rail crossings, and residential septic systems in the watershed. Persons who wish to learn more may contact Tim Neyer at 513-732-7945. Additional information on the watershed collected by Clermont

County is available from the Office of Environmental Quality (OEQ) at 513-732-7894 or the website: <http://www.oeq.net>. After treatment, which includes Granular Activated Carbon filtration, water from the lake meets all required drinking water standards.

## Water are Sources Of Contamination To Drinking Water?

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. 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 runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or fanning. (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses. (D) Organic chemical contaminants, including synthetic and volatile organics, 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

## Source Water Assessment

Potential pollution sources identified in the PPSI include: Walter C. Beckjord Generating Station, the PUB Water Treatment Plant, onsite wastewater treatment systems, underground and above ground fuel storage tanks, the Ohio River, Ten Mile Creek, and transportation routes (B&W, 1998). The specific susceptibility rankings were all the "high priority" rankings. Customers may get a copy of the assessment by calling Tim Neyer at 732-7945.

## Lead in Home Plumbing

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 an Aerials and components associated with service lines and home plumbing. The Village of New Richmond 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 <http://www.epa.gov/safewater/lead>.

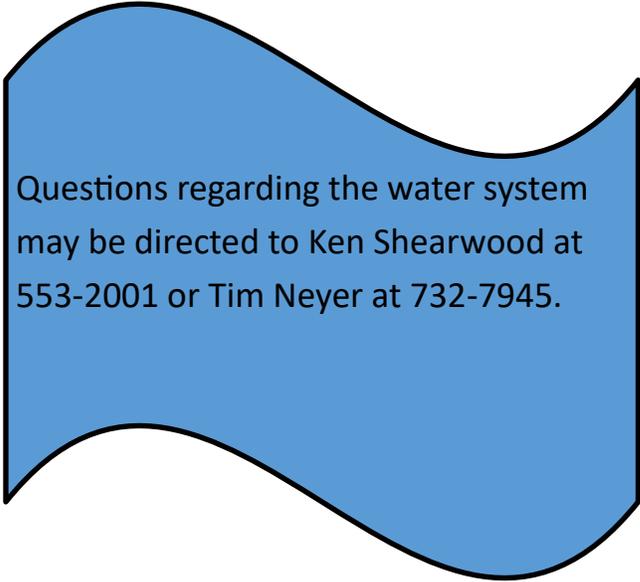
## Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule. The information in the data tables shows only those substances that were detected between January 1 and December 31, 2019. Remember that detecting a substance does not necessarily mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels. The state recommends monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken. Clermont County Water participated in the 3rd stage of the EPA's Unregulated Contaminant Monitoring Rule (UCMR3) program by performing additional tests on our drinking water. UCMR3 benefits the environment and public health by providing the EPA with data on the occurrence of contaminants suspected to be in drinking water in order

to determine if EPA needs to introduce new regulatory standards to improve drinking water quality. Contact Tim Neyer at 732-7945 for more information on this program

## License to Operate Information

Both the Village of New Richmond and Clermont County Water have current, unconditioned license to operate water systems.



Questions regarding the water system may be directed to Ken Shearwood at 553-2001 or Tim Neyer at 732-7945.

### Key To Units of Measurement

MCL — Maximum Contaminant Level  
MCLG Maximum Contaminant Level Goal

AL = Action Level  
ppm = parts per million, or milligrams

#### Regulated Contaminants

<i>Substance Unit of Measure</i>	<i>Year Sampled</i>	<i>MCL</i>	<i>MCLG</i>	<i>Amount Detected</i>	<i>Range Low– High</i>	<i>Violation</i>	<i>Typical Source</i>
Turbidity (NTU)	2019	TT	NA	0.191	0.022-0.191	NO	Soil runoff
Turbidity (Lowest Monthly Percent meeting Limit)	2019	TT	NA	100	NA	NO	Soil runoff
Chlorine (ppm)	2019	4	4	0.69	0.53-0.95	NO	Water additive used to control microbes
Fluoride (ppm)	2019	4	4	1.01	0.47-1.33	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate (ppm)	2019	10	10	2.0	0.51-4.35	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrite (ppm)	2019	1	1	0.1	0.1-0.1	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2019	2	2	0.0491	0.025-0.0491	NO	Discharge of drilling wastes; Discharge from metal refineries, Erosion of natural deposits
TTHMs [Total Trihalomethanes] (ppb)	2019	80	NA	46.6	46.6-46.6	NO	By-product of drinking water disinfection
HAA5 [Haloacetic Acids] (ppb)	2019	60	NA	7.1	7.1-7.1	NO	By-product of drinking water disinfection
Total Organic Carbon [TOC] (removal ratio)	2019	TT	NA	1.37	0.99-1.78	NO	Naturally Present in the environment

#### Lead & Copper Levels

<i>Contaminants (Units)</i>	<i>Action Level (AL)</i>	<i>Individual Results over the AL</i>	<i>90% of test levels were less than</i>	<i>Violation</i>	<i>Year Sampled</i>	<i>Typical Source of Contamination</i>
Lead (ppb)	15	NA	2.0 ppb	No	2019	Corrosion of household plumbing systems.
0 out of 5 samples were found to have lead in excess of the lead AL of 15 ppb.						
Copper (ppb)	1.3	NA	0.205 ppm	No	2019	Corrosion of household plumbing systems.
0 of 5 samples were found to have copper in excess of the copper AL of 1.3 ppm.						

## Unregulated Substances For Clermont County

Substance (Unit of measure)	Year Sampled	Amount Detected	Range Low-High	Typical Source
1-Butranol (ppb)	2019	3.25	ND-3.25	NA
Bromochloroacetic Acid (ppb)	2019	5.08	0.62-5.08	NA
Bromodichloroacetic Acid (ppb)	2019	2.8	ND-2.8	NA
Chlorodibromoacetic Acid (ppb)	2019	1.22	ND-1.22	NA
Dibromoacetic Acid (ppb)	2019	2.03	ND-2.03	NA
Dichloroacetic (ppb)	2019	27.6	ND-27.6	NA
HAA5 (ppb)	2019	54.4	0.62-54.4	NA
HAA6Br (ppb)	2019	11.7	1.54-11.7	NA
HAA9 (ppb)	2019	65.8	1.54-65.8	NA
Manganese (ppb)	2019	12.6	5.13-12.6	NA
Monobromoacetic Acid (ppb)	2019	2.68	ND-2.68	NA
Tribromoacetic Acid (ppb)	2019	3.06	ND-3.06	NA
Trichloroacetic Acid (ppb)	2019	27.9	ND-27.9	NA

## Bacteriological Contaminants

Substance	Year Sampled	MCL	Amount Detected	Range Low-High	Violation	Typical Source
Total Coliform Bacteria	2019	TT	1	0-1	NO	Naturally occurring in the environment

*"Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessments to identify problems and to correct any problems that were found during these assessments."*

*"During the past year we were required to conduct [1] level one assessment. One level one assessment was completed. In addition, we were required to take [1] corrective action and we completed [1] action."*

Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit set by EPA is (0.3 NTU) in 95% of the samples analyzed each month, and shall not exceed 1 NTU at any time. As reported above, the Robin Grays PWS highest recorded turbidity result for 2019 was 1.91 NTU and lowest monthly percentage of samples meeting the turbidity limits was 0.022 NTU.

**Definitions of MCL and MCLG are important**

**Maximum Contaminant Level or MCL:** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLOs as feasible using the best available treatment technology.

**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.

**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.

**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.

**Level 1 Assessment:** A Level 1 assessment is a study of the water system to identify the potential problems and determine (if possible) why total coliform bacteria have been found in our water system.