

Waynesville Water- OEPA License OH8302012

2018 Annual CCR Water Quality Report

Published 2019

We are pleased to provide you this year's <u>Annual Water Quality Report</u>. This Consumer Confidence Report (CCR) is designed to inform you about the quality and services we deliver to your home or business each day, every day. We work hard to protect our water resources and to continually improve the water treatment process.

<u>License</u>

We have a current, unconditioned license to operate our water system. Our goal is to provide you with a safe and dependable water supply, by protecting and improving water quality. At **Waynesville Water**, we work around the clock to provide top quality water to every tap. We ask that our customers help us protect our water sources, which are the heart of our community, our way of life, and our children's future. The Village of Waynesville Water currently has an unconditional OEPA License to operate.

Water Source

Our water source is known as the Little Miami Valley Buried Aquifer. Water is supplied from three (3) wells, located in the **Waynesville Water** well field. The Aquifer that supplies the Waynesville well field has been determined to have a high susceptibility to contamination due to the presence of significant potential contaminant sources in the protection area. There is no evidence to suggest that the ground water has been impacted by any significant levels of chemical contaminants from human activities.

Contact Us

We want our valued customers to be informed about their water utility. If you have any questions about this report or concerning your water utility, please contact us at (513) 897-8015. If you want to learn more, please attend any of our regularly scheduled council meetings on the first and third Mondays of each month at the Waynesville Government Center, 1400 Lytle Road, at 7:00PM.

Sources of Drinking Water Contaminations

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 materials, 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 results from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

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.

Who Should Take Special Precautions?

In order to ensure that tap water is safe to drink, EPA prescribes regulations, which limit the amounts 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 general population. Immune-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 infections. These people should seek advice about drinking water from their health providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the <u>Safe Drinking Water Hotline 1-800-426-4791.</u>

Waynesville Water routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the most recent results of our monitoring for the period of the last 5 years. Only contaminants with detections are provided. Copies are available by calling 513-897-8015.

Village of Waynesville Water Production 2018 Table of Contaminants										
		1	· · · · · · · · · · · · · · · · · · ·	Regulat	ed Contaminants		1			
Contaminant	Violation?	Level Detected	MCL	MCLG	Range of Detection	Year Sampled	Likely Source of Contamination			
Barium (ppm)	No	0.0744 ppm	4	4	n/a	2016	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits			
Nitrogen, Nitrate+ Nitrite (ppm)	No	2.06 ppm	10	10	n/a	2018	Runoff from fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits			
Water Distribution System 2018 Table of Contaminants										
Action Levels (AL) control Copper and Lead. If the 90 th percentile exceeds the Action Level, specific corrective actions are required. Twenty samples for both lead and copper analysis were taken in 2018.										
Lead (ppb)	No	6.93 ppb was the 90 th %	AL=15 ppb	0	n/a	2018	Corrosion of household plumbing systems; Erosion of natural deposit.			
0 out of 20 lead samples in 2018 was found to have a lead level in excess of the lead action level of 15 ppb.										
Copper (ppb)	No	301 ppb was the 90th %	AL=1300 ppb	1300 ppb	n/a	2018	Corrosion of household plumbing systems; Erosions of natural deposit. Leaching from wood preservatives.			
0 out of 20 copper sat	mples in 2018 w	vere found to	have a copper	level in exces	s of the copper actio	on level of 1.3	ррт (1300ррb).			
Volatile Organic Cor	npounds									
Total Trihalomethanes TTHMs (ppb)	No	10.4 ppb	80 ppb	n/a	9.4- 10.4 ppb	2018	Disinfectant byproducts			
Regulated Radioactiv	e Contaminant	ts								
Alpha Emitters p Ci/L	No	6.38	15	0	n/a	2013	Erosion of natural deposits			
Combined Radium p Ci/L	No	1.6	5	0	n/a	2013	Erosion of natural deposits			
Compliance Monitor	ing and Residu	al Disinfecta	nt Requirement	ts						
Total Coliform Monitoring	No	0	1	0	n/a	2018	Safely removed using chlorine. 45 samples taken with none positive for Total Coliforms			
Total Chlorine	No	1.56 ppm	4 ppm MRDL	4ppm MRDLG	1.39-1.56 ppm	2018	Water disinfection additive used to control microbes			
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Awareness of Lead in Drinking Water Service Lines and Plumbing								
present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from interials and compounds associated with water service lines and home plumbing. The Village of Waynesville and the Franklin-Clearcreek Water Systems are esponsible for providing high quality drinking water but cannot control the variety of materials used in pluming components. When your water has been sitting for users way and many private before using using using the patient for deipling to a control the variety of materials used in pluming components. When your water has been sitting for users way and many private before using using using using the patient of the patient of the variety of materials and the private before using using using using using the patient of the patient								
everal 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 possibly being in your water, you may consider having 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 or one may call the Safe Drinking Water Hotline at 1-800-426-4701								
The Village of Waynesville was required to revise the 2015 CCR that was published in 2016. Revisions were made and the correct CCR was posted on the Village website along with appropriate hard copies distributed where required.								
Definitions for all tables:								
MCL = <i>Maximum Contaminant level</i> – The highest level of a contaminate that's allowed in drinking water. MCL's are set to the								
very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to								
drink 2 liters of water every day at the MCL level for a lifetime to have a one- in- a- million chance of having the described health								
effect. MCLC = Maximum contaminate loval goal The lovel of contaminant in drinking water below which there is no known or expected								
risk to health								
AL = Action Level - The concentration of a contaminant which triggers a treatment or other requirements which a water system must								
follow as required by the OEPA.								
MRDL= Maximum Residual Disinfectant Level, Total Chlorine Residual MCL is MRDLG less than 4 ppm								
mg/l (milligrams per liter) and ppm (parts per million)- corresponds to one second in 11.5 days								
ppb= Parts per Billion- corresponds to one second in 31.7 years < less than symbol								
Picocuries per liter ($\mathbf{p} \operatorname{Ci/L}$) = A common measure of radioactivity N/A and n/a, not applicable								
All 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 the water poses a health risk.								
More information about contaminants and potential health effects can be obtained by calling the								
Environmental Protection Agency's Drinking Water Hotline at 1-800-426-4791.								
In our continuing efforts to maintain a safe and dependable water supply, it may be necessary to make improvements to the water								
system. The cost of these improvements may be reflected in the billing rate structure. Billing rate adjustments may be necessary to								
address these necessary improvements.								
Visit our website: <u>www.waynesville-ohio.org</u>								

The Village of Waynesville periodically receives water supply during emergency occasions from the Warren County Water and Sewer Department. The water quality reported is as follows:

Warren County Water and Sewer Department

CONSUMER CONFIDENCE REPORT (CCR)

2018 Water Quality Report for the Franklin-Clearcreek Water System PWSID# 8301603

The Warren County Water Department has prepared the following information for the Franklin- Clearcreek Water System. Included in this report is general health information, water quality test results, how to participate in decision concerning your drinking water and water system contacts. This annual water quality report describes the water source, lists test results, and contains important information about drinking water from the previous year. Reporting is a requirement of the Safe Drinking Water Act of 1996. We encourage public participation in our community's future. The Warren County Board of Commissioners meeting is held on Tuesday at 10:00 A.M. and on Thursday at 5:00 P.M. The public is welcome.

Water Source

The well field is located in northwest Warren County. It is bordered by Trenton-Franklin Road on the north, Twin Creek on the west, the Great Miami River on the south, and the Conrail tracks on the east. This is an area of the confluence of the Twin Creek and Great Miami Buried Valley Aquifers. The water quality is exceptional and does not require treatment other than the addition of fluoride and chlorine. The Aquifer that supplies the Franklin-Clearcreek wellfield has been determined to have a high susceptibility to contamination due to the presence if significant potential contaminate sources in the protection are. However, there is no evidence to suggest that ground water has been impacted by significant levels of chemical contaminants from human activities.

The Franklin-Clearcreek Water System also has interconnection for emergency backup purposes. These connections are as follows: 4151 Lytle Road (Waynesville, Ohio) with Waynesville Water. 3050 State Route 73 (Waynesville, Ohio) with Waynesville Water. 8656 Bunnel Hill Road (Springboro, Ohio) with Springboro/Veolia Water. 15 Lytle Five Points Road (Springboro, Ohio) with Springboro/Veolia Water. 346 Lytle Road Springboro Tower (Springboro, Ohio) Springboro/Veolia Water. 3763 Beal Road (Franklin, Ohio) Franklin Water. 6010 State Route 123 (Franklin, Ohio) Franklin Water, 7068 Dixie Hwy (Franklin, Ohio) Franklin Water, 6562 Manchester Road (Middletown, Ohio) Middletown Water, 2467 State Route 48 (Lebanon, Ohio) Lebanon Water, Hamilton-Mason Road & Butler-Warren Road (Mason, Ohio) Butler County and Cincinnati Water, and 17562 State Route 48 (South Lebanon, Ohio) Warren County Water.

Sources of Drinking Water Contamination

The sources of drinking water (both tap water and bottled water) included rivers, lakes, streams, pond, 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 results 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 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 regulation 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 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. Immunocompromised persons 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 Cryptospiridium and other microbial contaminants are available from the **Safe Drinking Water Hotline (800-426-4791)**.

About your Drinking Water

The EPA requires sampling to ensure drinking water safety. The Franklin-Clearcreek Water System conducted sampling for (Bacteria, Nitrate, Synthetic Organic Chemicals (SOC Group 1 and 3) plus Disinfection by-Products) during 2018. 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.

<u>License</u>

The Franklin-Clearcreek Water System currently has an unconditioned license to operate.

<u>Contact</u>

For further information about water quality, contact the Warren County Water and Sewer Department (WCWSD). Hours of operation are 7:30 AM and 4:00 PM, Monday through Friday:

Main Office	(513) 695-1377
Superintendent of Operations	(513) 683-3687
Laboratory Supervisor	(513) 583-3091
WEB SITE: http://www.co.wa	rren oh us/

FAX (513) 697-1752 FAX (513) 583-3093

Send correspondence to: Warren County Water and Sewer, PO Box 530, Lebanon, OH 45036-0530

An Explanation of the Water Quality Data Tables

This report is based upon tests conducted by the Warren County Water Laboratory and its' contract laboratory. Terms used in the Water Quality Tables and in other parts of this report are defined here.

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 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.

Action Level (AL): Action level or concentration of a contaminant when exceeded triggers treatment or other requirements which a water system must follow.

ppm: parts per million
ppb: parts per billion
mg/L: Miligram per Liter

f/l: fibers per liter

n/r: not regulated

Substance	Highest Level Detected	Range of Detection	MCL	Ideal Goals (MCLG)	Violation	Sources of Substances
Fluoride (mg/L)	1.13	0.8 - 1.3	4	4	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Chlorine (mg/L)	1.7	0.2 - 2.0	4.0	4.0	No	Element used for disinfection
**Total Coliform Monitoring	1	n/a	None	None	No	Safely removed using chlorine. 360 samples taken with no positive coliforms. 1 sample Total Coliform Positive, E. Coli Negative
Water Hardness	18 grains	NA	NA	NA	No	Dissolved mineral salts, most calcium and magnesium carbonate and bicarbonates

Warren County Compliance Monitoring and Disinfection Requirements 2018

** June 21, 2018, the Franklin-Cleacreek Water System had a routine bacteria sample reported as Total Coliform Positive. As required by the Ground Water Rule, the laboratory staff collected three system samples within the vicinity of the original sample and one source water sample. All repeat system samples and the one source water sample, reported as Total Coliform Negative/ E.coli negative.

All water systems are required to begin compliance with the new rule (Revised Total Coliform Rule, 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 coliform bacteria, which includes E. coli bacteria. The U.S. EPA anticipates greater public health protection under the new rule, as it requires water systems that are vulnerable to microbial contamination to identify and fix problems. As a result, under the new rule there is no longer a maximum contaminant level violation for multiple total coliform detections. Instead, the new rule requires water systems that exceed a specified frequency of total coliform occurrences to conduct an assessment to determine if any significant deficiencies exist. If found, these must be corrected by the Public Water System.

Copper and Lead Contaminant Sampling Table

Action Levels (AL) control Copper and Lead. Samples are collected and ranked by how much lead or copper they contain. If the 90th percentile exceeds the Action Level, specific corrective actions are required. **Thirty samples were taken in 2017**. One Lead sample exceeded the lead action level and 0 copper samples were above the copper action level.

Substa	nce	Detected	Range	MCL	MCLG	Violation	Sources	Samples Greater Than Action Level
Copr	ber	.258 mg/L 90 th percentile	.017 to .627 mg/L	AL = 1.3 mg/L	1.3 mg/L	No	Piping used in distribution system and house hold plumbing	0
Lea	d	8.018ppb 90 th percentile	<2.0 to 26.00 ppb	AL = 15 ppb	0 ppb	No	Piping used in distribution system and house hold plumbing	1

"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 Franklin-Clearcreek 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. For more information on lead in drinking water, testing methods, and steps you can take to minimize exposure: Safe Drinking Water Hotline at http://www.epa.gov/safewater/lead, and Ohio EPA: Learn About Lead: http://epa.ohio.gov/pic/lead.aspx."

The 2018 table list drinking water contaminants that were tested for in the Franklin-Clearcreek Water System.

Substance	Highest Level Detected	Range of Detection	MCL	Ideal Goals (MCLG)	Violation	Sources of Substances
Nitrate Nitrite (ppm)	0.947	n.d947	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Total Trihalo- methanes (ppb)	26.01	16.1-26.01	80	0	No	By-products of drinking water chlorination. Form when naturally occurring organic matter reacts with chlorine and other disinfectants.
Bromodichloromethane (ppb)	7.7	7.7-4.81	80	0	No	By-products of drinking water chlorination. Form when naturally occurring organic matter reacts with chlorine and other disinfectants

Bromoform (ppb)	1.61	.95-1.61	80	0	No	By-products of drinking water chlorination. Form when naturally occurring organic matter reacts with chlorine and other disinfectants
Chloroform (ppb)	12.25	5.18-12.25	80	0	No	By-products of drinking water chlorination. Form when naturally occurring organic matter reacts with chlorine and other disinfectants
Dibromochloromethane (ppb)	5.11	4.5-5.11	80	0	No	By-products of drinking water chlorination. Form when naturally occurring organic matter reacts with chlorine and other disinfectants
HAA5 Haloacetic acids (ppb)	8.267	3.144- 8.267	60	0	No	By-products of drinking water Chlorination. Are formed when chlorine reacts with naturally occurring organic matter
Bromochloroacetic acid (ppb)	2.609	1.929-2.609	60	0	No	By-products of drinking water Chlorination. Are formed when chlorine reacts with naturally occurring organic matter
Dibromoacetic acid (ppb	1.506	1.438-1.506	60	0	No	By-products of drinking water Chlorination. Are formed when chlorine reacts with naturally occurring organic matter
Dichloroacetic acid (ppb)	4.088	1.638-4.088	60	0	No	By-products of drinking water Chlorination. Are formed when chlorine reacts with naturally occurring organic matter
Monobromoacetic acid (ppb)	<1.0	<1.0	60	0	No	By-products of drinking water Chlorination. Are formed when chlorine reacts with naturally occurring organic matter
Monochloroacetic acid (ppb)	<2.0	<2.0	60	0	No	By-products of drinking water Chlorination. Are formed when chlorine reacts with naturally occurring organic matter
Trichloroacetic acid (ppb)	2.75	<1.0-2.75	60	0	No	By-products of drinking water Chlorination. Are formed when chlorine reacts with naturally occurring organic matter

SOC Group 3 collected in 2018

Substance	Highest Level Detected	Range of Detection	MCL	Ideal Goals (MCLG)	Violation	Sources of Substances
DIQUAT	<2 ppb	<2 ppb	20 ppb	0	No	Runoff from herbicide use
g-HCH (Lindane)	<0.1 ppb	<0.1ppb	.2 ppb	0	No	Runoff/leaching from insecticide used on cattle, lumber, gardens
PCB-1016 (AROCHLOR)	<.1ppb	<0.1 ppb	.2 ppb	0	No	Hydraulic Fluid, plasticizers, adhesives, fire retardents, way extenders, de-dusting agents, Pesticide extenders, inks, lubricants, heat transfer systems, carbonless reproducing paper
PCB-1221 (AROCHLOR)	<.1ppb	<0.1 ppb	.2 ppb	0	No	Hydraulic Fluid, plasticizers, adhesives, fire retardents, way extenders, de-dusting agents, Pesticide extenders, inks, lubricants, heat transfer systems, carbonless reproducing paper
PCB-1232 (AROCHLOR)	<.1ppb	<0.1 ppb	.2 ppb	0	No	Hydraulic Fluid, plasticizers, adhesives, fire retardents, way extenders, de-dusting agents, Pesticide extenders, inks, lubricants, heat transfer systems, carbonless reproducing paper
PCB-1242 (AROCHLOR)	<.1ppb	<0.1 ppb	.2 ppb	0	No	Hydraulic Fluid, plasticizers, adhesives, fire retardents, way extenders, de-dusting agents, Pesticide extenders, inks, lubricants, heat transfer systems, carbonless reproducing paper
PCB-1248 (AROCHLOR)	<.1ppb	<0.1 ppb	.2 ppb	0	No	Hydraulic Fluid, plasticizers, adhesives, fire retardents, way extenders, de-dusting agents, Pesticide extenders, inks, lubricants, heat transfer systems, carbonless reproducing paper
PCB-1254 (AROCHLOR)	<.1ppb	<0.1 ppb	.2 ppb	0	No	Hydraulic Fluid, plasticizers, adhesives, fire retardents, way extenders, de-dusting agents, Pesticide extenders, inks,

						lubricants, heat transfer systems, carbonless reproducing paper
PCB-1260 (AROCHLOR)	<.1ppb	<0.1 ppb	.2 ppb	0	No	Hydraulic Fluid, plasticizers, adhesives, fire retardents, way extenders, de-dusting agents, Pesticide extenders, inks, lubricants, heat transfer systems, carbonless reproducing paper
TOTAL PCB's	<.1ppb	<0.1 ppb	.5 ppb	0	No	Hydraulic Fluid, plasticizers, adhesives, fire retardents, way extenders, de-dusting agents, Pesticide extenders, inks, lubricants, heat transfer systems, carbonless reproducing paper
p,p'- METHOXYCHLOR	<.1ppb	<0.1 ppb	400 ppb	0	No	Runoff/leaching from insecticides
GLYPHOSATE	<30 ppb	<30 ppb	700 ppb	700	No	Runoff from Herbicide use

Soc Group 1 collected in 2018

Substance	Highest Level Detected	Range of Detection	MCL	Ideal Goals (MCLG)	Violation	Sources of Substance
ALACHLOR (LASSO)	<0.2 ppb	<0.2ppb	2 ppb	0	No	Runoff from Herbicide
Simazine	<0.35 ppb	<0.35 ppb	4 ppb	4 ppb	No	Runoff from Herbicide
Atrazine	<0.3 ppb	<0.3 ppb	3 ppb	3 ppb	No	Runoff from Herbicide