

Carbon Hill Water Association Consumer Confidence Report for 2022

Is my water safe?

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.

Do I need 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 infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

The Carbon Hill Water Association purchases its water from the Burr Oak Regional Water District.

Source water assessment and its availability

You may contact The Burr Oak Regional Water District for information about source water assessment at 740-767-2558.

Why are there contaminants in my drinking water?

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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791). 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: microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater 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 stormwater runoff, and residential uses; 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 stormwater runoff, and septic systems; and 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

How can I get involved?

The Carbon Hill Water Association holds monthly Board of Director's meetings on the 3rd Tuesday of each month at 15062 2nd St. Carbon Hill, OH 43111

Other Information

In 2022 The Carbon Hill Water Association had an unconditional license to operate its water system.

The Carbon Hill Water Association purchases its water from the Burr Oak Regional Water District.

For information from the Burr Oak Regional Water District from which we purchase our water I have included a copy their Consumer Confidence Report for 2022. Their report includes finished water quality data and source water information and susceptibility..

Additional Information for Lead

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. Carbon Hill Water Association 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 or at <http://www.epa.gov/safewater/lead>.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Detect In Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Disinfectants & Disinfection By-Products								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
Chlorine (as Cl ₂) (ppm)	4	4	1.22	.66	1.44	2021	No	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	15.4	11.9	15.4	2022	No	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] (ppb)	NA	80	55.9	45.3	55.9	2022	No	By-product of drinking water disinfection
Contaminants	MCLG	AL	Your Water	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source	
Inorganic Contaminants								
Copper - action level at consumer taps (ppm)	1.3	1.3	.0374	2022	0	No	Corrosion of household plumbing systems; Erosion of natural deposits	

Unit Descriptions	
Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
NA	NA: not applicable
ND	ND: Not detected

Unit Descriptions	
NR	NR: Monitoring not required, but recommended.

Important Drinking Water Definitions	
Term	Definition
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	MCL: Maximum Contaminant Level: 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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. The level of a 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.
MRDL	MRDL: Maximum residual disinfectant level. 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.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

For more information please contact:

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Address: 41839 Carbon Hill Buchtel Rd.
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Scroll down for Burr Oak Regional Water District 2022
Consumer Confidence Report.



Drinking Water Consumer Confidence Report

For 2022

Introduction

The Burr Oak Regional Water District has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included in this report is a district overview, project information, general health information, water quality test results, and how to participate in decisions concerning your drinking water along with contact information. Please note, that this report can be viewed online at <https://www.burroakwater.org/ccr>. If you would like a paper copy mailed to you, please contact our office at 740-767-2558.

District Overview

The District provides a safe drinking water supply to over 38,000 residents located in areas of Athens, Hocking, Morgan and Perry Counties. Eight (8) Board members, residents of the four (4) counties served, make informed decisions to determine the District's current operations and future direction. The water system is operated 24 hrs./day, 365 days/year. We operate and maintain six (6) wells, a four (4) million gallon/day plant, seven (7) booster pump stations, ten (10) water storage tanks, in addition to miles of 6" through 18" water lines.

The District serves a total of 17 Satellite Systems which includes eight (8) villages, seven (7) Rural Water Systems and the Burr Oak State Park System and approximately 1,000 residential customers.

Public Participation Information

We encourage satellite members and customers to attend the regularly scheduled meetings, which are held at the Tom Jenkins Dam Water Office on the second Tuesday of each month at 6:30 pm.

For 2022 the Burr Oak Regional Water District held an unconditioned license to operate.

Source Water Information

The District is withdrawing groundwater from 6 wells, capable of 4 million gallons per day from a sand and gravel aquifer (water rich zone) within the Hocking River Buried Valley aquifer system located in Athens County, Dover Township.

Source Water Assessment

The District is a community public water system serving approximately 2,000 people near Athens, Ohio. The system also provides water to 17 Satellite systems, serving an additional 36,000 people. The District operates six wells that can provide the water treatment plant with up to four (4) million gallons per day of water from a sand and gravel aquifer (water rich zone) within the Hocking River Buried Valley Aquifer system. The aquifer is covered by less than 20 feet of low permeability material, which provides minimal protection from contamination. Depth to water in this aquifer is less than 20 feet below the ground surface.

The Drinking Water source protection area for the District's wells is illustrated in the Drinking Water Source Assessment report prepared by Ohio EPA in May 2012. The source water protection area includes two zones, one inside the other. The "inner protection zone" is the area that provides ground water to the wells within one year of pumping. The "outer protection zone" is the area that contributes water when the wells are pumped for five years.

Based on relevant databases and a field inspection of the area, several potential sources of contamination were identified within the protection area. These include a recycling center, agricultural areas, transportation routes, (such as State Route 13 and 682, and a railroad), above ground storage tanks, and an abandoned oil and gas well.

The District's source of drinking water has a high susceptibility to contamination due to:

- The presence of a relatively thin protective layer of clay overlaying the aquifer.
- The shallow depth (less than 20 feet below ground surface) of the aquifer.
- The presence of significant potential contaminate sources in the area.

For additional information please contact the District at 740-767-2558 or email info@burroakwater.org

Sources of Contamination

All sources of drinking water (both tap water and bottled water) include rivers, 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, agriculture livestock operations and wildlife; (B) Inorganic contaminants, such salt and metals, which can be naturally occurring, or results from urban storm runoff, industrial or domestic waste water 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 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. F.D.A. regulations establish limits for contaminants in bottled water which must provide 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. Additional 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).

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, people 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. The 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).

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. The 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. Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. 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>.

Danger from Well, Cistern, Pond and Spring Water Supplies

Ohio Environmental Protection Agency (OEPA) mandates that residential auxiliary water supplies such as private wells, cisterns, ponds and springs must **NOT** be connected in any way to our water system, because some are unsafe and could represent a danger to public health. **All private sources of water must be completely disconnected AND physically separated from our water system. A valve separating the system is not acceptable.** Violations may endanger public health and can result in loss of water service.

Backflow Prevention

Backflow prevention affects all water users. The District is encouraging all customers to review their home plumbing and water supply connections to identify possible cross connections to alternate water supplies, or auxiliary source, which would permit a backflow occurrence. The water user is liable for any installation on his premises that could endanger the water quality of either the public or their own distribution system. The District has developed requirements to comply with EPA regulations and in the future will be conducting surveys of customer water systems to evaluate the consumers system for possible cross connections or degree of hazard to the public system. For additional information please feel free to contact the District.

Thermal Expansion, Filters & Cleaning of Hot Water Heaters

Water expands when it is heated. This can be scientifically described as thermal expansion. If there is no room for heated water to expand, it greatly increases the pressure in the plumbing. If you have a "closed system" and have not installed a thermal expansion tank, this may increase pressure in the residence significantly, resulting in major water damage within the residence; such as flooding, commode leakage, faucet damage, hot water tank relief valve issues and pressure valve (PRV) failures. **If the relief valve is not operating properly, the hot water tank could be damaged or even explode, due to thermal expansion.** Therefore the District recommends installation of a thermal expansion tank to reduce risks of damage within residences. Furthermore, a frequent issue the District experiences is due to homeowners not following the manufacturers recommendations on filter replacement and the flushing of hot water heaters. Please make sure you are following these recommendations. For additional information please feel free to contact the District or a reputable plumber.

Pressure Reducing Valves (PRV)

A pressure reducing valve protects your pipe and your plumbing fittings from bursting due to high water pressure. High water pressure can put stress on your pipes, causing them to break or damage the plumbing fitting leading to leaks. Pressure reducing valves are the responsibility of the homeowner and should be cleaned, maintained or replaced on a regular basis.

Yard Hydrants

The Ohio Environmental Protection Agency (OEPA) has established guidelines for outdoor/frost free hydrants due to the risk of water contamination due to a possible backflow condition. To comply with the Ohio Administrative Code #3745-95-09 referencing yard hydrants/backflow protection. Installation of yard hydrants with weep holes is prohibited. Yard hydrants installed shall meet the requirements of the "American Society of Sanitary Engineers (ASSE) standard 1057, Performance Requirements for Freeze Resistant Sanitary Yard Hydrants with Backflow Protection." For questions, please contact the District.

Table of Detected Contaminants

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Disinfectant and Disinfectant By-Products							
Total Chlorine (ppm)	MRDLG = 4	MRDL = 4	1.53	1.28 - 1.64	No	2022	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	N/A	60	17.4	12.7 - 21.5	No	2022	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N/A	80	52.35	43.7 - 64.0	No	2022	By-product of drinking water disinfection
Inorganic Contaminants							
Fluoride (ppm)	4	4	1.14	0.87 - 1.14	No	2022	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Barium (ppm)	2	2	0.045	N/A	No	2020	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Nitrate (ppm)	10	10	0.26	0.26	No	2022	Runoff from fertilizer use; Erosion of natural deposits
Lead and Copper							
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)	15 ppb	0	1.1	No	2022	Corrosion of household plumbing systems; erosion of natural deposits	
	0 out of 10 samples were found to have lead levels in excess of the lead action level of 15 ppb.						
Copper (ppm)	1.3 ppm	0	0.088	No	2022	Erosions of natural deposits; leaching from wood preservatives; Corrosions of household plumbing systems	
	0 out of 10 samples were found to have copper levels in excess of the copper action level of 1.3 ppm.						

Additional Finished Water Quality Information

Average Water Quality	Level Found
Iron mg/l	0.00
Manganese mg/l	0.01
P.H.	8.02
Alkalinity mg/l	198
Hardness mg/l	139

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 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.
- 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.
- 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.
- 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.
- 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.

District Contact Information

If you have any questions about this report please contact Michael Elliott, *District Manager* or Ralph Davis, *Operations Supervisor and Operator of Record* by one of the contact methods below.

Burr Oak Regional Water District

23554 Jenkins Dam Road | Glouster, Ohio 45732

Tel: (740)767-2558 | Fax: (740)767-4266 | Email: info@burroakwater.org

<https://www.burroakwater.org>

Office Hours: Monday through Friday - 8:00AM - 4:30PM