

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (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 (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 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 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.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, ($\mu\text{g/L}$). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variations & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.



Carroll County Water District Water Quality Report 2022

Water System ID: KY0210066

General Manager: Obe Cox

502-347-9500

CCR Contact: Obe Cox

502-347-9500

ocox@carrollcountywater.com

Mailing address:

205 Main Cross Street

Ghent, KY 41045

Meeting location and time:

Water Office - 205 Main Cross Street, Ghent, KY

2nd Thursday each month at 3:00 PM



Photo taken by Retta Lykins.

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This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.



CCWD's Phil Napier explaining SCADA operating controls.
(Recruiting Program)

Carroll County Water District #1 treats groundwater drawn from a network of wells drilled into the Ohio River alluvial aquifer. An analysis of the susceptibility of the District's water supply to contamination indicates that this susceptibility is generally moderate. There are, however, a few areas of concern in the immediate vicinity of our water wells. These include row crops, underground sewer mains, some permitted operations, and road exposure that cumulatively increase the potential for release of contaminants within the wellhead protection area. The summary of the water systems susceptibility to contamination is part of the completed Source Water Assessment Plan (SWAP) that is available for inspection during normal business hours at our office. A few customers off of Highway 227 are served by water purchased from Carrollton Utilities, which utilizes the same water source as Carroll County. For information regarding your specific provider on Highway 227, please contact our office.

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 may be obtained by calling the Environmental Protection Agency's 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 may pick up substances resulting from the

presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or 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. FDA regulations establish limits for contaminants in bottled water to 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 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 and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Information About 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. Your local public 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 or at <http://www.epa.gov/safewater/lead>.

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.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. **Copies of this report are available upon request by contacting our office during business hours.**

Regulated Contaminant Test Results CC = Carroll County Water District CU = Carrollton Utilities

| Contaminant [code] (units) | MCL | MCLG | Source | Report Level | Range of Detection | Date of Sample | Violation | Likely Source of Contamination |
|---------------------------------|-----|------|------------|-----------------|--------------------------------|-------------------|-----------|--|
| Radioactive Contaminants | | | | | | | | |
| Beta photon emitters (pCi/L) | 50 | 0 | CC= | 5.1 | 5.1 to 5.1 | Jan-21 | No | Decay of natural and man-made deposits |
| Inorganic Contaminants | | | | | | | | |
| Arsenic [1005] (ppb) | 10 | N/A | CC= | 1 | 1 to 1 | Mar-20 | No | Natural erosion; runoff from orchards or glass and electronics production wastes |
| Barium [1010] (ppm) | 2 | 2 | CC= CU= | 0.047 0.11 | 0.047 to 0.047 0.11 to 0.11 | Mar-20 Jan-20 | No No | Drilling wastes; metal refineries; erosion of natural deposits |
| Fluoride [1025] (ppm) | 4 | 4 | CC= CU= | 0.78 0.67 | 0.78 to 0.78 0.67 to 0.67 | Mar-20 Jan-20 | No No | Water additive which promotes strong teeth |
| Nitrate [1040] (ppm) | 10 | 10 | CC= CU= | 4 1 | 3.57 to 4 1 to 1 | Sep-22 Jan-22 | No No | Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits |

Disinfectants/Disinfection Byproducts and Precursors

| | | | | | | | | |
|--|-------------|--------------|-----|---------------------------|---------------------------------------|------|----|---|
| Chlorine (ppm) | MRDL = 4 | MRDLG = 4 | CC= | 0.95 (highest average) | 0.78 to 1.13 | 2022 | No | Water additive used to control microbes. |
| HAA (ppb) (Stage 2) [Haloacetic acids] (annual sample) | 60 | N/A | CC= | 3 (high site) | 0 to 3 (range of individual sites) | 2022 | No | Byproduct of drinking water disinfection |
| TTHM (ppb) (Stage 2) [total trihalomethanes] (annual sample) | 80 | N/A | CC= | 9 (high site) | 3 to 9 (range of individual sites) | 2022 | No | Byproduct of drinking water disinfection. |

Household Plumbing Contaminants

| | | | | | | | | |
|--|-------------|-----|-----|--|----------------|--------|----|---|
| Copper [1022] (ppm) Round 1 sites exceeding action level 0 | AL = 1.3 | 1.3 | CC= | 0.088 (90 th percentile) | 0.007 to 0.558 | Jul-20 | No | Corrosion of household plumbing systems |
| Lead [1030] (ppb) Round 1 sites exceeding action level 0 | AL = 15 | 0 | CC= | 0 (90 th percentile) | 0 to 2 | Jul-20 | No | Corrosion of household plumbing systems |

| | Average | Range of Detection |
|---------------------------------------|---------|--------------------|
| Fluoride (added for dental health) | 0.8 | 0.61 to 1.08 |
| Sodium (EPA guidance level = 20 mg/L) | 21.9 | 21.9 to 21.9 |

Help Us Get The Lead Out

The US EPA has changed the Lead & Copper Rule after the lead contamination in Flint, Michigan. We are taking inventory of every service line in our system to identify any lead service lines and achieve a lead-free water utility. We need your help to complete an online survey to identify the material of your water line. You can submit info by using the QR scan tool or submit the information by paper with your next payment. You can also email your information to our helpdesk to helpdesk@carrollcountywater.com. You may also call (502) 347-9500 to speak with an operator to make arrangements to submit information about your plumbing to us. **In advance, we want to thank you for taking the time to help us, help you!**



CCWD's online form. Please scan.

Please find the customized QR code at the upper right that directly corresponds to CCWD's unique Customer Survey to obtain information on all customer service lines to and within the residence. QR codes are a type of barcode that can be scanned using a smartphone camera, which will then take you directly to our online survey.

Customer Service Line Basic Inventory Info Form

Customer Name (Account Holder):

Service Location Address:

Customer Service Location Number (Can be found on bill card XXX-XXXXX):

Water Line Material from Meter base to Residence (circle one): Unknown, Lead, Galvanized Steel, Copper, PVC (Plastic), or Other

Approximate Distance from meter to Residence (footage):

Type of House Foundation (circle one): Basement, Crawlspace, Slab

Are you the: Owner, Renter/Tenant, Property Management, Plumber

When was your home built or manufactured (circle one): Before 1988; 1988 or after; Unknown

Do you have a water filter installed in your home? Yes, No, or Unknown

Would you like a utility representative to meet you on site to assist in identifying service line material? Yes, or No

Name of Person submitting this survey:

Email Address:

Phone Number:

