

City of New Carlisle Water Division

2024 Drinking Water Consumer Confidence Report

The Consumer Confidence Report

The City of New Carlisle Water Division, in compliance with the 1996 amendments to the USEPA Safe Drinking Water Act, 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. In 2024 we conducted over 4,000 tests for different contaminants that may occur in drinking water. The City of New Carlisle management staff and the New Carlisle Water Division are dedicated to providing clean and safe water for the residents and businesses of our community. In 2024, we had a current, unconditioned license to operate our water system.

Your Water Supply

Your drinking water originates from deep wells that penetrate various deposits of sand and gravel that fill a glacier-scoured valley, called an aquifer. The wellfield, located north and east of the Water Treatment Plant at 434 N. Main Street, is bounded on the surface by a shopping center, Main Street, and other commercial and residential areas. However, beneath the surface, the water supply encompasses a much larger area underground, extending a few miles to the north. Because aquifers such as this one is sensitive to contamination, many communities such as New Carlisle have implemented wellhead protection programs to safeguard the water source from various contaminants. You may have noticed that the New Carlisle wellfield and its water recharge zone are now posted with signs that identify the approximate water recharge area boundaries.

Susceptibility Analysis

The Aquifer that supplies drinking water to the City of New Carlisle has a high susceptibility to contamination. This determination was made because of the following reasons.

- Water quality results indicate the presence of volatile organic compounds and elevated nitrate concentrations, implying a pathway exists from the ground surface to the aquifer.
- Discontinuous clay layers are present within the aquifer, providing little to no protection from contaminant transport from the ground surface to the aquifer; and
- Potential significant contaminant sources exist within the protection area. Water quality data collected to meet public water supply requirements provides a direct measurement for the presence of contamination in drinking water. Water quality data were evaluated using the drinking water compliance database and the ambient ground water monitoring network database available at Ohio EPA. Compliance samples collected since 1993 have shown nitrate concentrations above the concentration of concern (2 mg/L) on 17 occasions in the raw and treated water, with concentrations ranging from 2.13 mg/L to 4.6 mg/L. These are below the maximum contaminant level (MCL) of 10mg/L. Compliance samples collected from 1991 through 1999 showed detectable concentrations of 1,1,1-trichloroethane on nine occasions in the raw (untreated) water samples, with concentrations ranging from 0.6 to 1.6 ug/L. These concentrations are well below the maximum contaminant level (MCL) of 200 ug/L. The City of New Carlisle has identified twenty potential contaminant sources that are located within the determined wellhead/source water protection area for the wellfield, twelve of which are located within the inner management zone, or one-year time-of travel zone. The sources include agricultural areas, septic tanks, various chemicals, above ground and underground storage tanks, a golf course, auto body shops, and roadways.

In summary, water quality results indicate that the City of New Carlisle's source of drinking water has shown the presence of volatile organic compounds above the detection limit and the presence of nitrate above the concentration of concern. Therefore, the likelihood for New Carlisle's source of drinking water to have future impacts is high and it is critical that potential contaminant sources are handled carefully with the implementation of appropriate protective strategies. The City of New Carlisle is currently working to complete their Ground Water Source Protection Program. For more information or for a copy of the report please contact Bob Hoke, Water Superintendent for the City of New Carlisle, at 937-845-3059.

What are the sources of contamination to drinking water?

The sources of drinking water for 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 before we treat it at the Water Treatment Plant 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, EPA 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 some small amounts of 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 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 people such as people 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. 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 quality

The EPA requires regular sampling to ensure drinking water safety. The New Carlisle Water Division conducted sampling for bacteria, inorganic, synthetic organic contaminants (SOC), volatile organic contaminants (VOC), nitrate, and radiological samples during 2024 and previous years. During those years, samples were collected to test a total of 92 different contaminants, most of which were not detected in the New Carlisle water supply. The Ohio EPA requires us to monitor some contaminants less than once per year because the concentration of these contaminants do not change frequently. Some of our data, though accurate, is more than one-year-old.

Monitoring and reporting violations.

There were no violations during the year 2024.

Lead Educational Information

The New Carlisle Water Department was required to test for lead and copper throughout the distribution system in 2024. We are pleased to report that neither the lead nor copper results exceeded the "action level". 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 New Carlisle Water Department 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>.

Lead Service Line Inventory

Per the Lead and Copper Rules, Public Water Systems were required to develop and maintain a Service Line Inventory. A service line is the underground pipe that supplies your home or building with water. To view the Service Line Inventory, which lists the material type(s) for your location, you can call Sara, the Utility Clerk at (937)-845-9492

Nitrate

The New Carlisle Water Department is required to test Nitrate levels in drinking water. While our levels are low, Nitrate in drinking water at levels above 10 ppm is a health risk for infants less than 6 months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly in short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

About Radon

The New Carlisle Water and Sewer Department monitored radon in the finished water during 2011; one sample was collected, and the radon level was 2.36 pCi/l. Radon is a radioactive gas that occurs naturally in some ground water. It may pose a health risk when the gas is released from water into the air, as occurs during showering, bathing, or washing dishes and clothes. Radon gas released from drinking water is a relatively small part of the total radon in air. Major sources of radon gas are soil and cigarettes. Inhalation of radon gas has been linked to lung cancer, however, the effects of radon ingested in drinking water are not yet clear. If you are concerned about radon in your home, tests are available to determine the total exposure level. For additional information on how to have your home tested, call 1-800-SOS RADON.

How do I participate in decisions concerning my drinking water?

Public participation and comments are encouraged at regular meetings of the New Carlisle City Council that meets on the first and third Mondays of each month at 6:00PM at the Smith Park Shelter House. A link to the meetings can be found on the City's website. Please call the City offices at (937) 845-9492 for exact times and meeting locations. The New Carlisle City offices are located at 331 S. Church Street, and the mailing address is City of New Carlisle, P.O. Box 419 New Carlisle, Ohio, 45344 or at www.newcarlisleohio.gov

For more information

If you would like more information concerning your drinking water, if you have questions concerning this report, or if you would like to request a paper copy be delivered to you, contact:

- Robert Hoke, WTP Superintendent (937) 845-3059, or
- Kerri May, WWTP Superintendent/Laboratory Manager at (937) 845-0814, or
- Howard L. Kitko, Director of Public Service at (937) 845-9492

Español – Este informe contiene información importante sobre su agua potable. Tradúzcalo o hable con alguien que pueda explicárselo. (This report contains important information concerning your drinking water. Translate it or speak with someone who may explain it to you).

Terms and abbreviations for Contaminants Table - Listed on the table below is information on those contaminants that were found in the New Carlisle drinking water. Below is a list of definitions of some terms included in this report.

- **Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Maximum Contaminant Level Goal (MCLG):** The level of 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.
- **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.
- **NA: not applicable ND: not detectable at testing limit NR: not regulated**
- **ppb:** parts per billion or micrograms per liter **ppm:** parts per million, or milligrams per liter
- **ppt:** Parts per Trillion, or nanograms per liter (ng/L)
- **pCi/l:** PicoCuries per liter

Contaminants (Units):	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Inorganic Containments:							
Barium (ppm)	2	2	0.400	0.400-0.400	No	2023	Discharge of drilling waste, metals, refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	0.264	0.264-0.264	No	2020	Erosion of natural deposits; discharge from fertilizer and aluminum factories.
Nitrate, as nitrogen (ppm)	10	10	3.26	3.26-3.26	No	2024	Erosion of natural deposits; runoff from fertilizer use; leachate from septic tanks.
Radiologicals:							
Gross Alpha (pCi/L)	0	15	2.85	2.85-2.85	No	2023	Erosion of natural deposits
Residual Disinfectants:							
Total Chlorine Residual (PPM)	MRDLG=4	MRDL=4	1.088333	0.87-1.26	No	2024 Running Annual Average	
Disinfection By Products:							
Total Trihalomethanes (ppb)	N/A	80	21	9.7-21	No	2024	By-Product of drinking water chlorination (2 samples collected)
Lead And Copper							
Contaminants (Units)	Action Level	MCLG	Individual Test Results Over the AL	90% of Test Levels Were Less Than	Violation	Year Sampled	Typical Source Of Contaminants
Copper (ppm)	1.3	0.01-1.0	N/A	0.90 90th Percentile	No	2024	Corrosion of household plumbing systems; erosion of natural deposits.
0 out of 20 samples were found to have copper levels more than the lead action level of 1.3ppm							
Lead (ppb)	15	ND 5	N/A	2 90 th Percentile	No	2024	Corrosion of household plumbing systems; erosion of natural deposits.
0 out of 20 samples were found to have lead levels more than the lead action level of 15 ppb							

PFAS Sampling:

-In 2020, our PWS was sampled as part of the State of Ohio's Drinking Water Per- and Polyfluoroalkyl Substances (PFAS) Sampling Initiative. Results from this sampling indicated PFAS were detected in our drinking water, below the action level established by Ohio EPA. Follow up monitoring is being conducted. For more information about PFAS, and to view our latest results, please visit pfas.ohio.gov. In 2020, New Carlisle PWS participated in the fifth round of the Unregulated Contaminated Monitoring Rule (UCMR 5). For a copy of the results please call Bob Hoke at (937) 845-3059.

Contaminants (Units)	Sample Year	Average Level Found	Range Of Detections
PFAS (ppt)	2020	6.1 ppt	6.1 ppt
PFBS (ppb)	2023	0.0049 ppb	0.0043 ppb – 0.0055 ppb