

2025 WATER QUALITY REPORT FOR CHARLES CITY WATER SUPPLY

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation	Source
		Type	Value & (Range)			
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	LRAA	9.00 (9 - 9)	09/30/2025	No	By-products of drinking water disinfection
Lead (ppb)	AL=15 (0)	90th	6.20 (ND - 14)	2025	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.0997 (0.0019 - 0.155)	2025	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
950 - DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.9 (1.24 - 2.2)	12/31/2025	No	Water additive used to control microbes
Nitrite [as N] (ppm)	1 (1)	SGL	0.110	2025	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
04 - S/EP WELLS 5,7,8 @ PLANT (TREATED)						
Fluoride (ppm)	4 (4)	SGL	0.5	01/05/2022	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories. The City of Charles City does not add fluoride to drinking water.
Barium (ppm)	2 (2)	SGL	0.062	01/05/2022	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	5.21	01/09/2025	No	Erosion of natural deposits; Added to water during treatment process
Combined Radium	5 (N/A)	SGL	<1.0 pCi/L	04/06/2021	No	Erosion of natural deposits
Volatile Organic Compounds	0.2 - 700 (ND - 700)	SGL	<0.50 ug/L	01/29/2024	No	Runoff from industrial sites, herbicides, petroleum sites, insecticides, and PVC factories
2, 4-D (mg/L)	0.07 (0.07)	SGL	<0.002 mg/L	01/23/2024	No	Runoff from industrial sites, herbicides, petroleum sites, insecticides, and PVC factories
PFOA (ppt)	4 (0)	SGL	ND	06/01/2024	No	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain fire fighting activities

PFOS (ppt)	4 (0)	SGL	ND	06/01/2024	No	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain fire fighting activities
PFHxS (ppt)	10 (10)	SGL	ND	06/01/2024	No	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain fire fighting activities
PFNA (ppt)	10 (10)	SGL	ND	06/01/2024	No	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain fire fighting activities
HFPO-DA (ppt)	10 (10)	SGL	ND	06/01/2024	No	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain fire fighting activities

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- 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.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- RAA – Running Annual Average
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- 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.
- 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.
- SGL – Single Sample Result
- RTCR – Revised Total Coliform Rule
- NTU – Nephelometric Turbidity Units

GENERAL INFORMATION

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 posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency’s Safe Drinking Water Hotline (800-426-4791).

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).

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. Our water supply is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formulas, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, contact CHARLES CITY WATER SUPPLY at 641-257-6315. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

Our water supply has completed a service line inventory. The most up to date inventory can be accessed online at: <https://charlescicitygis.integritygis.com/H5/Index.html?viewer=charlescicity#> If the icon on your house/business is white, please contact us with a time that works for us to gain access to the basement so that we can update your service line material. There is no charge for this.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the dolomite and limestone of the Devonian aquifer. The Devonian aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Devonian wells will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from the Water Department at 641-257-6315.

OTHER INFORMATION

Decisions pertaining to the public water supply are made at City Council meetings held on the 1stst and 3rd Mondays of each month at 6:00 p.m. in the council chambers at City Hall; these meetings are open to the public.

For more information on meeting minutes and the City's Water Department, please visit the City's website at:

<http://www.cityofcharlescicity.org>

You may pick up a printed copy of the Consumer Confidence Report at any of the following locations during normal working hours:

CITY HALL BUSINESS OFFICE: 900 Clark St. 641-257-6300

CHARLES CITY PUBLIC LIBRARY: 910 Clark St. 641-257-6319

CHARLES CITY WATER DEPARTMENT: 1709 INDIANA AVE. 641-257-6315

This Consumer Confidence Report, as well as previous reports, may be viewed and downloaded at:

<https://www.cityofcharlescicity.org/Archive.aspx?AMID=36>

CONTACT INFORMATION

For questions regarding this information or any other questions regarding the water system, please contact the Charles City Water Department at 641-257-6315 during regular working hours of 7:00 am to 3:30 pm, Monday through Friday.

Or email: cory@cityofcharlescicity.org with any questions or concerns.

PLEASE NOTE: THIS REPORT WILL NOT BE MAILED TO INDIVIDUAL CUSTOMERS