

# City of Carnation

## Water Quality Report 2023

### Consumer Confidence Report for the Year 2023

We're pleased to present to you the 2023 Annual Water Quality Report. This report is designed to inform you about the quality of the water that was provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We believe the information provides a valuable service to our customers.

Your drinking water is highly regulated by the EPA and is tested regularly. Keeping pace with upgraded water testing and more stringent federal standards is a challenge but one that City of Carnation strongly supports. Our constant goal is to provide you with a safe source of drinking water.

### Who We Are...

City of Carnation is a water utility with 1,028 active connections. Our water comes from two primary sources. The dominant source is the spring located at the watershed, one mile south of Carnation at NE 24<sup>th</sup> Street and 344<sup>th</sup> Avenue NE. The secondary source is the community well, which is sunk 160 feet into an underground source of water, located at the corner of Entwistle and Milwaukee Streets. Carnation owns the land around the spring and the well, thus protecting and restricting any activity that could contaminate it. After the water comes from the source, Carnation treats the water with chlorine to protect the consumer against microbial contaminants.

The City of Carnation is working with Water & Wastewater Services, a certified water manager, to bring you good quality water. If you have any questions or concerns regarding this water utility, your water, or this report we will be happy to answer them.

**In case of emergency, please call the City of Carnation,  
at (425)333-4192 or after hours emergency line at (425) 765-0508.**

### Presence of Contaminants in 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 EPA'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 can 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, which 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 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 and residential uses.
- Radioactive contaminants, which are naturally occurring.
- 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.

In order 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. We treat our water according to EPA's regulations. Presence of Contaminants

**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).

## Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2023 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2023. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

### Terminology

**MCLG** (Maximum Contaminant Level Goal): the level of a contaminant allowed in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

**MCL** (Maximum Contaminant Level): the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

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

**ND** (Not Detected)

**ppm** (parts per million or milligrams per liter (mg/L)): about the same as ½ an aspirin tablet dissolved in a bathtub full (50 gallons of water)

**ppb** (parts per billion or micrograms per liter): about the same as 1 dissolved aspirin tablet in a 100,000-gallon swimming pool.

Inorganic Contaminants	MCL	MCLG	Carnation Water	Range of Detections	Sample Date	Violation	Typical Sources of Contaminant
Nitrate (ppm)	10	10	S01 0.26	0.26	2023	NO	Runoff from fertilizer use.
Nitrate (ppm)	10	10	S02 0.56	0.56	2023	NO	Runoff from fertilizer use.
Microbiological Contaminants	MCL	MCGL	Carnation Water	Range of Detections	Sample Date	Violation	Typical Sources of Contaminant
Total Coliform Bacteria	0	0	ABSENT	ABSENT/PRESENT	2023	NO	Naturally present in the environment
Disinfection Byproducts	MRDL	MRDLG	Average Level Detected	Range of Level Detected	Sample Date	Violation	Typical Sources of Contaminant
Chlorine (ppm)	4.0 (MRDL)	4 (MRDLG)	0.47	0.05-1.50	2023	NO	Water additive to control microbes
Haloacetic Acids (ppb)	60	0	ND	ND	2023	NO	By-product of drinking water disinfection
Total Trihalomethanes	80	0	ND	ND	2023	NO	By-product of drinking water disinfection
Lead & Copper	MCL	MCLG	Carnation Water	Total # of Samples / # Exceeding AL	Sample Date	Violation	Typical Sources of Contaminant
Lead (ppb)	0.015	0	ND-0.0012	10/0	2022	NO	Corrosion of household plumbing systems
Copper (ppm)	1.3	1.3	0.14-0.40	10/0	2022	NO	Corrosion of household plumbing systems
Radioactive Contaminants	MCL	MCGL	Carnation Water	Range of Detections	Sample Date	Violation	Typical Sources of Contaminant
Gross Alpha (pCi/l)	15	0	0.189	0.189	2022	NO	Erosion of natural deposits
Radium 228	5	0	3.0	3.0	2022	NO	Erosion of natural deposits

**Additional Information for Total Coliform:** Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present. Every month your system is tested for Fecal Coliform Bacteria. All samples came back satisfactory except in May 2023. Repeat bacteria samples were taken and all came back satisfactory. **Your drinking water meets or exceeds all Federal and State requirements.**

**Additional Information for Lead in Drinking Water:** 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. City of Carnation 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>.

### **Additional Information**

**Why does the taste and odor of my water sometimes differ?** Water naturally varies in taste and odor at different times of the year. Taste and odor problems can also come from new or old pipelines, plumbing fixtures or changes in water quality. Customers may notice changes during severe winter storms, when reservoirs are low, or during hot weather. Water & Wastewater Services, LLC closely monitors such changes to ensure they do not affect the safety of the water.

**Security – We all need to be careful!** While Washington State’s Division of Drinking Water has never been lax regarding this issue, they have implemented more stringent guidelines to be sure that all that can be done is being done to protect your quality water. Four topics being focused on are 1) Emergency Response, 2) Sanitary Surveys, 3) Operator Certifications, and 4) Enforcement. City of Carnation wholly supports the DOH in these efforts and continues to do all that can be done to maintain good quality water.

### **IMPORTANT CONSERVATION TIPS:**

#### **Bathroom:**

- Check toilets for leaks. Drop food coloring or a leak-detection tablet in the toilet tank. If color appears in the bowl, there is a leak that requires immediate attention.
- Reduce the water level per flush by installing a water displacement device in the toilet tank. A plastic bottle, weighted with water or sand works well. Never use a brick.
- Install water-saving showerheads or flow restrictors, which are available at local hardware stores and other retail outlets.
- Check faucets and pipes for leaks. A small drip from a worn washer can waste 20 or more gallons a day. Larger leaks waste even more.

#### **Kitchen & Laundry:**

- Turn the dishwasher and washing machines on only when full.
- Buy and install a faucet aerator.

#### **Lawn & Garden:**

- Water only when needed. Frequency depends on the type of plants and soil conditions.
- Water the lawn in the evening when evaporation is less likely to occur. Avoid watering during the heat of the day or when windy. Use a broom, not a hose when cleaning driveways and walkways.