

The City of Fort Lupton 2021 Drinking Water Quality Report For Calendar Year 2020

Public Water System ID: CO0162291

Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.

We are pleased to present to you this year’s water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact Jon Mays at 720-466-6182 with any questions or for public participation opportunities that may affect water quality.

General Information

All 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 the 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) or by visiting <http://water.epa.gov/drink/contaminants>.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

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 before treatment include:

- Microbial contaminants:** viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants:** 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:** may come from a variety of sources, such as agriculture, urban storm water runoff, and residential uses.
- Radioactive contaminants:** can be naturally occurring or be the result of oil and gas production and mining activities.
- Organic chemical contaminants:** including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that lead levels at your home may be higher than 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. 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. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

Our Water Sources

Our water comes from Carter Lake, located in the foothills of Loveland, CO. The Public Water System Identification Number (PWSID#) for Fort Lupton is CO0162291.

<u>Source</u>	<u>Source Type</u>	<u>Potential Contaminant Sources</u>
Carter Lake	Surface Water	No SWAP report exists.

Source Water Assessment and Protection (SWAP)

The Colorado Department of Public Health and Environment have not provided a Source Water Assessment Report for our water supply. For general information about SWAP, please visit www.colorado.gov/cdphe/ccr. The report is located under “Guidance: Source Water Assessment Reports”. Search the table using the last six numbers of the water system ID, by county, or by contacting CHRIS CROSS at 720-466-6119. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that *could* occur. It *does not* mean that the contamination *has or will* occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed on the next page.

Please contact us to learn more about what you can do to help protect your drinking water sources, any questions about the Drinking Water Quality Report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

Terms and Abbreviations

- **Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water.
- **Treatment Technique (TT)** – A required process intended to reduce the level of a contaminant in drinking water.
- **Health-Based** – A violation of either a MCL or TT.
- **Non-Health-Based** – A violation that is not a MCL or TT.
- **Action Level (AL)** – The concentration of a contaminant which, if exceeded, triggers treatment and other regulatory requirements.
- **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 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 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.
- **Violation (No Abbreviation)** – Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action (No Abbreviation)** – Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.
- **Variance and Exemptions (V/E)** – Department permission not to meet a MCL or treatment technique under certain conditions.
- **Gross Alpha (No Abbreviation)** – Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- **Picocuries per liter (pCi/L)** – Measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** – Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the typical person.
- **Compliance Value (No Abbreviation)** – Single or calculated value used to determine if regulatory contaminant level (e.g. MCL) is met. Examples of calculated values are the 90th Percentile, Running Annual Average (RAA) and Locational Running Annual Average (LRAA).
- **Average (x-bar)** – Typical value.
- **Range (R)** – Lowest value to the highest value.
- **Sample Size (n)** – Number or count of values (i.e. number of water samples collected).
- **Parts per million = Milligrams per liter (ppm = mg/L)** – One part per million corresponds to one minute in two years or a single penny in \$10,000.
- **Parts per billion = Micrograms per liter (ppb = ug/L)** – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Not Applicable (N/A)** – Does not apply or not available.
- **Level 1 Assessment** – A study of the water study to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Level 2 Assessment** – A very detailed study of the water system to identify potential problems and determine (if possible) why E.coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Detected Contaminants

The City of Fort Lupton routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table(s) show all detections found in the period of January 1 to December 31, 2020 unless otherwise noted. The State of Colorado 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, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one year old. Violations and Formal Enforcement Actions, if any, are reported in the next section of this report.

Note: Only detected contaminants sampled within the last 5 years appear in this report. If a contaminant does not appear in the tables below, that contaminant was not detected in the last round of monitoring.

Disinfectants Sampled in the Distribution System						
TT Requirement: At least 95% of samples per period (month or quarter) must be at least 0.2 ppm <u>OR</u> If sample size is less than 40 no more than 1 sample is below 0.2 ppm Typical Sources: Water additive used to control microbes						
Disinfectant Name	Time Period	Results	Number of Samples Below Level	Sample Size	TT Violation	MRDL
Chlorine	Jan-Dec 2020	<u>Lowest period</u> percentage of samples meeting TT requirement: 100%	0	10 per Month	No	4.0 ppm

Assessments for Microorganism Contaminants Sampled in the Distribution System		
Contaminant Name	TT Requirement	TT Violation
Total Coliform	We were required to conduct an assessment of our system due to more than 1 positive sample in the July 2020 monitoring period.	No
<p>Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.</p> <p>During the past year we were required to conduct one Level 1 assessment. One Level 1 assessment was completed in 2020. In addition, we were required to take 1 corrective action and we completed 1 corrective action.</p>		

Lead and Copper Sampled in the Distribution System								
Contaminant Name	Time Period	90 th Percentile	Sample Size	Unit of Measure	90 th Percentile AL	Sample Sites Above AL	90 th Percentile AL Exceedance	Typical Sources
Copper	Jul 2020	0.2	20	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	Jul 2020	4	20	ppb	15	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts Sampled in the Distribution System									
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2020	39.5	36 to 46.6	8	ppb	60	N/A	No	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)	2020	47.2	41.7 to 59.4	8	ppb	80	N/A	No	Byproduct of drinking water disinfection

Summary of Turbidity Sampled at the Entry Point to the Distribution System					
Contaminant Name	Year	Level Found	TT Requirement	TT Violation	Typical Sources
Turbidity	2020	<u>Highest single</u> measurement: 0.41 NTU	Maximum 0.5 NTU for any single measurement	No	Soil Runoff
Turbidity	2020	<u>Lowest monthly</u> percentage of samples meeting TT requirement: 99%	In any month, at least 95% of samples must be less than 0.1 NTU	No	Soil Runoff

Inorganic Contaminants Sampled at the Entry Point to the Distribution System

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Barium	2020	0.01	N/A	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	2020	1	N/A	1	ppb	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits

Secondary Contaminants**

**Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects (such as skin, or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	Secondary Standard
Sodium	2020	3.7	N/A	1	ppm	N/A

Violations, Significant Deficiencies, and Formal Enforcement Actions

Non-Health-Based Violations and Public Notice

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Reporting Requirement Not Met

Our water system recently violated a drinking water requirement. Although this situation is not a public health risk, as our customers you have a right to know what happened, what you should do, and what we are doing to correct this situation.

Name	Description	Time Period(s)
Turbidity	Failed to report results by December 10, 2020	November 2020
Entry Point Chlorine	Failed to report results by December 10, 2020	November 2020

Additional Violation Information

We failed to timely report November 2020 turbidity and entry point chlorine results. We were required to report information to the state drinking water program by December 10, 2020 but failed to do so. We realize the importance of reporting information to the state to demonstrate whether or not your drinking water meets health standards.

What does this mean? What should I do?

There is nothing you need to do at this time. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What is being done?

Turbidity and entry point chlorine results for November were submitted to the state drinking water program on December 12, 2020

This problem was resolved on **December 12, 2020**.

This notice is being sent to you by: City of Fort Lupton, PWS CO0162291. For more information, please contact **Jon Mays** at **Jon.Mays@Jacobs.com** or **720-466-6182** , or **12285 Highway 52, Fort Lupton, CO 80621**.

Date distributed: **May 31, 2021**

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Non-Health-Based Violations and Public Notice
IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER
Monitoring Requirements Not Met

Our water system recently violated a drinking water requirement. Although this situation is not an emergency, as our customers you have a right to know what happened, what you should do, and what we are doing to correct this situation. These violations do not usually mean that there was a problem with the water quality. If there had been, we would have notified you immediately.

Name	Description	Time Period(s)
Fluoride	Failure to Monitor and Report	1/1/2020-12/31/2020

Additional Violation Information

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During Calendar year 2020, we did not complete monitoring and testing for fluoride and therefore cannot be sure of the drinking water quality during that time.

What should I do? There is nothing you need to do at this time. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What is being done? Our system collected a fluoride sample on January 12, 2021 and submitted to CDPHE on January 26, 2021.

This problem was resolved on **January 26, 2021**.

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Non-Health-Based Violations and Public Notice
IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Reporting Requirement Not Met

Our water system recently violated a drinking water requirement. Although this situation is not a public health risk, as our customers you have a right to know what happened, what you should do, and what we are doing to correct this situation.

Name	Description	Time Period(s)
Lead	Failed to distribute consumer notices of lead tap sample results by September 3, 2020	September 3, 2020
Lead	Failed to submit a certificate of delivery with example copy of the notice to the Department	December 31, 2020

Additional Violation Information

We failed to provide timely notification of lead sample results to participating customers. We were also required to report information to the state drinking water program by December 31, 2020 but failed to do so. We realize the importance of timely reporting information to consumers and the state to demonstrate whether or not your drinking water meets health standards.

What does this mean? What should I do?

There is nothing you need to do at this time. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What is being done?

Our system mailed notifications of lead sample results to participating customers on January 21, 2021. Also, a certificate of delivery with an example copy of the notification of lead sample results was submitted to the Department on January 21, 2021.

This problem was resolved on **January 21, 2021**.

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Non-Health-Based Violations

These violations do not usually mean that there was a problem with the water quality. If there had been, we would have notified you immediately. We missed collecting a sample (water quality is unknown), we reported the sample result after the due date, or we did not complete a report/notice by the required date.

Name	Description	Time Period
Public Notices (2 instances)	Failure to Notify the Public/Consumers	09/02/2019 - 01/07/2020 12/02/2019 - 01/07/2020
<p>On November 3, 2019 we became aware that our system failed to provide a Public Notice for a violation resulting from operating our filtration system outside the limits set by the Colorado Department of Public Health & Environment. The Public Notice was required to be delivered by September 1, 2019 and again by December 1, 2019. The Public Notice was not delivered until December 31, 2019. Our system will strive in the future to meet all public notice requirements. This issue was resolved as of January 7, 2020.</p>		
Name	Description	Time Period
Cross Connection Rule (2 instances)	Failure to Meet Cross Connection Control and/or Backflow Prevention Requirements (M610 & M613)	08/02/2019 - 06/22/2020 08/02/2019 – 10/05/2020
<p>During a State Sanitary Survey on March 28, 2019, the inspector noted that our system did not fully implement our written Backflow Prevention and Cross Connection Control (BPCCC) Program and listed an inaccurate number of backflow devices in the BPCCC Report. Our system has submitted to CDPHE a revised BPCCC Program and corrected BPCCC reports for the past 3 years and these issues are closed.</p>		
<p>Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.</p>		