

JAMESTOWN TOWN OF 2017 Drinking Water Quality Report For Calendar Year 2016

Public Water System ID: CO0107401

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 TARA SCHOEDINGER at 303-544-1361 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 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 stormwater 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 stormwater 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>.

Source Water Assessment and Protection (SWAP)

The Colorado Department of Public Health and Environment has provided us with a Source Water Assessment Report for our water supply. For general information or to obtain a copy of the report please visit <http://wqcdcompliance.com/ccr>. The report is located under "Source Water Assessment Reports", and then "Assessment Report by County". Select BOULDER County and find 107401; JAMESTOWN TOWN OF or by contacting TARA SCHOEDINGER at 303-544-1361. 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.

Our Water Sources

<u>Source</u>	<u>Source Type</u>	<u>Water Type</u>	<u>Potential Source(s) of Contamination</u>
INF GAL	Intake	Surface Water	
JAMES CREEK	Intake	Surface Water	

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 system 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 an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Detected Contaminants

JAMESTOWN TOWN OF 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, 2016 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 no tables appear in this section then no contaminants were 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 <i>OR</i> 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						
Contaminant Name	Time Period	Results	Number of Samples Below Level	Sample Size	TT Violation	MRDL
Chlorine	December, 2016	<u>Lowest period</u> percentage of samples meeting TT requirement: 100%	0	1	No	4.0 ppm

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	06/14/2016 to 06/15/2016	1.16	10	ppm	1.3	1	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	08/23/2016 to 08/23/2016	5	10	ppb	15	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	08/23/2016 to 08/23/2016	0.38	10	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	06/14/2016 to 06/15/2016	11	10	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	Highest Compliance Value	MCL Violation	Typical Sources
Total Haloacetic Acids 5)	2016	34.9	34.9 to 34.9	1	ppb	60	N/A		No	Byproduct of drinking water tion
Total Trihalome thanes (TTHM)	2016	63.2	63.2 to 63.2	1	ppb	80	0		No	Byproduct of drinking water disinfection

Disinfectants Sampled at the Entry Point to the Distribution System							
Contaminant Name	Year	Number of Samples Above or Below Level	Sample Size	TT/MRDL Requirement	TT/MRDL Violation	Typical Sources	
Chlorine	2016	0	12	TT = No more than 4 hours with a sample below 0.2 MG/L	No	Water additive used to control microbes	

Summary of Turbidity Sampled at the Entry Point to the Distribution System					
Contaminant Name	Sample Date	Level Found	TT Requirement	TT Violation	Typical Sources
Turbidity	Date/Month: Jul	<u>Highest single</u> measurement: 2.551 NTU	Maximum 5 NTU for any single measurement	Yes	Soil Runoff
Turbidity	Month: Jun	<u>Lowest monthly</u> percentage of samples meeting TT requirement for our technology: 44 %	In any month, at least 95% of samples must be less than 1 NTU	Yes	Soil Runoff

Radionuclides 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
Gross Alpha	2015	0.36	0 to 1.17	6	pCi/L	15	0	No	Erosion of natural deposits
Combined Radium	2015	0.27	0.1 to 0.5	6	pCi/L	5	0	No	Erosion of natural deposits
Combined Uranium	2015	0.22	0 to 0.7	4	ppb	30	0	No	Erosion of natural deposits

Radionuclides 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
Gross Beta Particle Activity	2015	1	1 to 1	2	pCi/L*	50	0	No	Decay of natural and man-made deposits

*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern for Gross Beta Particle Activity.

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	2015	0.01	0.01 to 0.02	4	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	2015	0.31	0 to 0.69	4	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	2015	0.08	0 to 0.2	5	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; 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	2015	2.17	1.5 to 2.9	4	ppm	N/A

Violations, Significant Deficiencies, Backflow/Cross-Connection, and Formal Enforcement Actions

Violations					
Name	Category	Time Period	Health Effects	Compliance Value	TT Level or MCL
VOLATILE ORGANICS	MONITORING, ROUTINE MAJOR - NON-HEALTH-BASED	01/01/2016 - 12/31/2016	N/A	N/A	N/A
TURBIDITY	MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1) - HEALTH-BASED	07/01/2016 - 07/31/2016	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.	N/A	N/A
TURBIDITY	MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1) - HEALTH-BASED	06/01/2016 - 06/30/2016	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.	N/A	N/A
TURBIDITY	EQUIPMENT VERIFICATION OR CALIBRATION - NON-HEALTH-BASED	07/14/2016 - 08/29/2016	N/A	N/A	N/A
PLANS AND SPECIFICATIONS RULE	STATE MONITORING - NON-HEALTH-BASED	07/14/2016 - 08/29/2016	N/A	N/A	N/A

Violations					
Name	Category	Time Period	Health Effects	Compliance Value	TT Level or MCL
NITRATE	MONITORING, ROUTINE MAJOR - NON-HEALTH-BASED	01/01/2016 - 12/31/2016	N/A	N/A	N/A
INORGANIC S GROUP	MONITORING, ROUTINE MAJOR - NON-HEALTH-BASED	01/01/2016 - 12/31/2016	N/A	N/A	N/A
FLUORIDE GROUP	MONITORING, ROUTINE MAJOR - NON-HEALTH-BASED	01/01/2016 - 12/31/2016	N/A	N/A	N/A
CHLORINE	RES DISINFECT CONCENTRATION (SWTR) – HEALTH-BASED A sample taken at the drinking fountain in the park had no chlorine residual.	06/01/2016 - 06/30/2016	Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. These symptoms are not only caused only by organisms in drinking water, but also by other factors.	N/A	N/A
Additional Violation Information					
<p>Note: Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.</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>					
<p>Explanation of the violation(s), the steps taken to resolve them, and the anticipated resolved date:</p>					

Significant Deficiencies

Date Identified	Deficiency Description	Steps Taking to Correct and Progress To Date	Estimated Completion Date
6/17/2016	T119 - PROPER OPERATION; Surface water or ground water under the direct influence (GWUDI) of surface water treatment operational practices. Regulation 11, Section 11.8(1)(b) and CDPHE-WQCD Policy 4.;	A monitoring schedule is in effect to sample different water quality parameters such as coliform bacteria (MPN) in the effluent.	Monitoring schedule started in January 2017
6/17/2016	F310 - STORAGE CONDITION; The condition of the storage structure may allow potential sources of contamination to enter the tank.;	During the June 2016 Sanitary Survey the screen size covering the different vents was determined to be too large. These screens were replaced with stainless steel fine mesh screen.	
	11.8(1)(b) and CDPHE-WQCD Policy	This deficiency concerns Surface Water Treatment Rule and whether or not the slow sand filters are performing as designed. A monitoring schedule and sample collection is in operation.	

Additional Deficiency Information

Explanation of the deficiencies and the steps taken to correct them:

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Town of Jamestown

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.

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 January 2017 we did not complete all monitoring or testing for Bacteriological Test (total coliform P/A) and therefore cannot be sure of the drinking water quality during that time.

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?

- Bacti test was conducted in early February 2017 and was compliant.

We anticipate resolving the problem by **February 2017**. For more information, please contact **Jon Ashton** at jon@jimtown.org or **720-310-8258**, or **P.O. Box 298, Jamestown CO 80455**.

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.

This notice is being sent to you by: Town of Jamestown - 107401

Date distributed: **June 2017**

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Town of Jamestown

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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.

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 2016 we did not complete all monitoring or testing for Inorganics, Nitrate, VOC and therefore cannot be sure of the drinking water quality during that time.

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?

- Testing was completed in February 2017

We anticipate resolving the problem by **February 28, 2017**. For more information, please contact **Jon Ashton** at jon@jimtown.org or **720-310-8258**, or **P.O. Box 298, Jamestown CO 80455**.

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.

This notice is being sent to you by: Town of Jamestown - 107401

Date distributed: **June 23, 2017**

