

We are very pleased to provide you with this year's Consumer Confidence Report. This report provides you with information on the water and services that we delivered to you in 2010. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies.

The Quality of Your Drinking Water

Our goal is to provide you with a safe and dependable supply of drinking water. However, in May 2010, our Lead test results exceeded the EPA Action Level. Please see the *Action Level Exceedance* section at the end of this report for additional information. We are committed to ensuring the quality of your water.

The Source of Your Drinking Water

We have two sources of water North Pond and South Pond. We disinfect our water and treat it for pH and corrosion control. Our treatment plant can produce 500,000 gallons of clean water a day.

The RI Department of Health, in cooperation with other state and federal agencies, has assessed the threats to Jamestown Water Department water supply sources. The assessment considered the intensity of development, the presence of businesses and facilities that use, store or generate potential contaminants, how easily contaminants may move through the soils in the Source Water Protection Area (SWPA), and the sampling history of the water.

Our monitoring program continues to assure that the water delivered to your home is safe to drink. The assessment found that the water source is at LOW RISK of contamination. This does NOT mean that the water cannot become contaminated. Protection efforts are necessary to assure continued water quality. The complete Source Water Assessment Report is available from Jamestown Water Department or the Department of Health at (401) 222-6867.

Why Are There Contaminants in My 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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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:

- **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 stormwater 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, urban stormwater runoff, and residential uses.
- **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 stormwater runoff, and septic systems.
- **Radioactive contaminants**, which can be naturally occurring or the result of oil and gas production and mining activities.

Water Quality Test Results

The table below lists all of the drinking water contaminants that were detected through our water quality monitoring and testing. The presence of 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 the January – December 2010 monitoring period. For those contaminants that are monitored less frequently the most recent test results are listed.

Maximum Contaminant Levels (MCL's) are set at very stringent levels. The Maximum Contaminant Level Goal (MCLG) is set at a level where no health effects would be expected, and the MCL is set as close to that as possible, considering available technology and cost of treatment. A person would have to drink 2 liters of water every day, as recommended by health professionals, at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

2010 TEST RESULTS							
Inorganic Contaminants	Violation Y/N	Level Detected		Unit Measurement	MCLG	MCL	Likely Source of Contamination
		North Pond	South Pond				
Barium	N	0.01	0.01	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Nitrate (as Nitrogen)	N	0.34	0.38	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

DISTRIBUTION SYSTEM TEST RESULTS						
Microbial Contaminants	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Turbidity ¹	N	0.52	NTU	NA	TT <0.3 for 95% of monthly samples	Soil runoff
Total Organic Carbon Removal Ratio (TOC) ²	N	Average 1.45 Range: 1.16 - 1.73	ppm	NA	TT	Naturally present in the environment

¹The data presented 2010's highest single turbidity measurement. The lowest monthly percentage of samples meeting the turbidity limit was 98%. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Turbidity has no health effects, however, turbidity can interfere with disinfection and provide a medium for microbial growth.

²The average presented is the running annual average. In order to comply with the EPA standard, the TOC removal ratio must be greater than 1.0 ppm. Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts like TTHMs and HAAs.

Inorganic Contaminants	Violation Y/N	Level Detected 90 th Percentile December 2010	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Copper	N	0.08	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead ³	N	15	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits

³There were two (2) sites that exceeded the Lead Action Level. Infants and young children are typically more vulnerable to Lead in drinking water than the general population. 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 elevated Lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791).

2010 DISTRIBUTION SYSTEM TEST RESULTS						
Volatile Organic Contaminants	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Chlorine	N	Average 0.13 Range: 0.01 – 0.30	ppm	MRDLG 4	MRDL 4	Water additive used to control microbes
Chlorine Dioxide ⁴	N	Average 11 Range: ND – 361	ppb	MRDLG 800	MRDL 800	Water additive used to control microbes
Chlorite ⁴	N	Average 1.48 Range: ND – 1.12	ppm	0.8	1	Water additive used to control microbes
Haloacetic Acids ⁴ (HAA)	N	Average 16 Range: 3 – 40	ppb	N/A	60	By-product of drinking water disinfection.
Total Trihalomethanes ⁴ (TTHM)	N	Average 49 Range: 32 – 60	ppb	0	80	By-product of drinking water chlorination

⁴The average presented is the Running Annual Average (RAA). The range is the lowest and highest individual samples.

Initial Distribution System Evaluation (IDSE) Data †				
Volatile Organic Contaminants	Violation Y/N	Level Detected	Unit Measurement	Likely Source of Contamination
Haloacetic Acids (HAA)	N	Average 28 Range: ND – 40	ppb	By-product of drinking water disinfection.
TTHM (Total Trihalomethanes)	N	Average 64 Range: 33 – 107	ppb	By-product of drinking water chlorination

† Under the EPA Stage 2 Disinfectants and Disinfection Byproducts Rule (DBPR) our water system was required to conduct an Initial Distribution System Evaluation (IDSE). The IDSE is a one-time evaluation to determine the levels of disinfection byproducts (TTHM & HAA) in the distribution system for future regulations. Disinfection byproducts are the result of the disinfection of your drinking water. They form when the disinfectants combine with naturally occurring organic matter in the water. The IDSE data was not used for compliance by the Rhode Island DOH-Office of Drinking Water Quality, and test results were not required to meet the MCL of 60 ppb for HAA and 80 ppb for TTHMs. The average listed is the highest Locational Running Annual Average from samples taken in the 2nd, 3rd and 4th quarters 2009 and the 1st quarter 2010.

Non Detect - Laboratory analysis indicated the contaminant was not present

Parts per million (ppm) or Milligrams per liter (mg/L) - One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/L) - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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 (MCL) - The MCL is 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 MCLG is 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 Disinfection 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.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Nephelometric Turbidity Unit (NTU): Nephelometric Turbidity Unit is a measure of the clarity of the water. Turbidity in excess of 5 NTU is just noticeable by the average person.

For most people, the health benefits of drinking plenty of water outweigh any possible health risk from these contaminants. However, 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Action Level Exceedance

Lead Action Level Exceedance: In 2010, we did two rounds of Lead and Copper sampling. In May, nine (9) of the twenty (20) samples taken had results exceeding the lead action level, resulting in a 90th percentile over the EPA Action Level. The "90th percentile" is the value used to determine compliance with lead and copper action levels. We provided public education information to ensure our customers know about the action level exceedance, understand the health effects of lead, the sources of lead, and actions they can take to reduce exposure to leads in drinking water. We took a second round of Lead and Copper samples in December 2010 and the 90th percentile results were below the AL. We will continue to sample for lead every 6 months so we can closely monitor the lead levels in the water system. 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 Jamestown 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 or at <http://www.epa.gov/safewater/lead>.

Lead: Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficiencies in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

We at the Jamestown Water Department work to provide top quality water to every tap. We encourage all of our customers to conserve and use water efficiently and remind you to help us protect our water sources, which are the heart of our community, our way of life and our children's future. Please do not hesitate to call our office with any questions.

2010 CONSUMER CONFIDENCE REPORT

Jamestown Water Department
Jamestown, RI
PWS ID#1858419

We want our valued customers to be informed about their water utility. There are no regularly scheduled meetings, therefore; if after reviewing this report you have any questions, or would like to know more about the Jamestown Water Department water system, please call Michael Gray, Public Works Director, at (401) 423-7225.