

**2008 CONSUMER CONFIDENCE REPORT**  
**Quonochontaug Central Beach Fire District (QCBFD)**  
Charlestown, RI  
PWS ID#1647512

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 2008. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies.

We want our valued members to be informed about their water system. In 2008, in order to better serve our community, we upgraded our water system, including the addition of an 8,000-gallon water storage tank. This new system will ensure that we can meet peak demand and maintain constant pressure. We have also submitted an application to the State for a third well. As always, we are committed to ensuring the quality of your water. If after reviewing this report you have any questions, or would like to know more about the QCBFD water system, please call Bill Meyer at (401) 322-1497.

**The Quality of Your Drinking Water**

Our goal is to provide you with a safe and dependable supply of drinking water. However, in 2008 our Copper test results exceeded the EPA Action Level. Please see our *Test Results* table 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**

Our water source is two wells located on the premises, Well #1 is the primary well and Well #2 is supplemental.

The RI Department of Health, in cooperation with other state and federal agencies, has assessed the threats to QCBFD water supply sources. The assessment considered the intensity of development 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. However, the assessment found that the water source is at MODERATE RISK of contamination. This means that the water could one day become contaminated. Monitoring and protection efforts are necessary to assure continued water quality. The complete Source Water Assessment Report is available from Quonochontaug Central Beach Fire District 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 2008 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.

2008 TEST RESULTS							
Inorganic Contaminants	Violation Y/N	Level Detected		Unit Measurement	MCLG	MCL	Likely Source of Contamination
		Well #1	Well #2				
Barium (2006)	N	0.02	0.03	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Nitrate (as Nitrogen)	N	2.21	2.65	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Chromium (2006)	N	1	1	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits

DISTRIBUTION SYSTEM TEST RESULTS						
Inorganic Contaminants	Violation Y/N	Level Detected†	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Copper*	N	2.60	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead**	N	4	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits

†The level presented is the 90<sup>th</sup> Percentile.

\*There were three (3) sites that exceeded the Copper Action Level.

\*\*There was one (1) site that exceeded the Lead Action Level. **Lead:** 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).

**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.

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).

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. The QCBFD 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>.

**Action Level Exceedance:**

**Copper Action Level Exceedance:** The “90th percentile” is the value used to determine compliance with lead and copper action levels. We took (11) lead and copper samples during our most recent sampling period, the 90th percentile was the second highest test result. In 2008, testing showed three (3) sites that exceeded the copper action level, resulting in a 90<sup>th</sup> percentile over the action level. We will be retesting for lead and copper in the first half of 2009 and will be looking into options for corrosion control treatment to ensure the safety of your water.

**Copper:** Copper is an essential nutrient, some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water contain copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson’s Disease should consult their personal doctor.

We at QCBFD work to provide top quality water to every tap. We encourage all of our members to conserve and use water efficiently and remind you to help us protect our water sources, which are the heart of our community. Please do not hesitate to call with any questions.