

RIVERHEAD WATER DISTRICT

SUFFOLK COUNTY

NEW YORK

2009

**ANNUAL WATER SUPPLY STATEMENT/
CONSUMER CONFIDENCE REPORT**

AND

SUPPLEMENTAL DATA PACKAGE

MAY 2010

Town Board Members

Supervisor Sean Walter
Councilmember John Dunleavy
Councilmember George E. Gabrielsen
Councilmember Jodi Giglio
Councilmember James Wooten

Superintendent

Gary Pendzick

Riverhead Water District 2009 Drinking Water Quality Report

Public Water Supply Identification No. 5103705

ANNUAL WATER SUPPLY REPORT

May 2010

Dear Water District Resident:

We are pleased to present to you the Riverhead Water District 2009 Consumer Confidence Report/ Annual Water Supply Statement. As shown in this report, the Riverhead Water District continues to provide the residents with a source of water for all of our domestic needs which is reliable and of high quality. Our water is continuously tested to ensure that it meets all drinking water standards. As the Town grows, so does our Water District. We are currently constructing additional wells and pumping stations to increase our water supply capabilities. Simultaneously, we encourage all of our residents to conserve water so we can limit the expense connected with the construction of new facilities.

Our Water District staff works hard to make sure every resident has clean water every time he or she turns on the tap. Additional information about our Water District and our water supply can be found on our Town website, www.riverheadli.com.

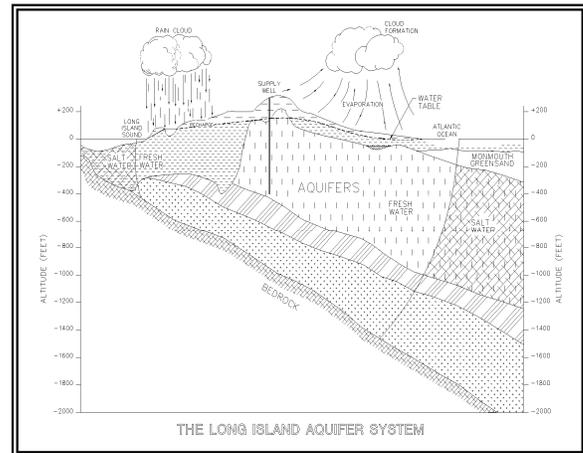
INFORMATION ABOUT OUR DRINKING WATER

This report is required to be delivered to all residents of our District in compliance with Federal and State regulations. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. The Riverhead Town Board and the District employees are committed to ensuring that you and your family receive the highest quality water.

SOURCE OF OUR WATER

The source of water for the District is groundwater pumped from eleven (11) active wells and four (4) wells under construction located throughout the community that are drilled into the Glacial and Magothy aquifers beneath Long Island, as shown on the following figure. Generally, the water quality of the aquifer is good to excellent, although there are localized areas of contamination.

The population served by the Riverhead Water District during 2009 was approximately 35,000. The total amount of water withdrawn from the aquifer in 2009 was 2.19 billion gallons, of which approximately 93.9 percent was billed directly to the residents of the District.



COST OF WATER

The District utilizes a unit price billing schedule with the consumer being billed at a rate of \$10.90 for the first 7,000 gallons per quarter plus \$1.10 for each additional 1,000 gallons for the District's 3/4 inch service.

CONTACTS FOR ADDITIONAL INFORMATION

We are pleased to report that our drinking water is safe and meets all Federal and State requirements. If you have any questions about this report or concerning your water utility, please contact Water District Supt. Gary Pendzick at (631) 727-3205 or the Suffolk County Department of Health Services at (631) 852-5778. Water District issues are normally discussed at Town Board meetings that are held on the first and third Tuesday of each month. Long on to the website at www.riverheadli.com for times and locations or call 631-727-3200.

The Riverhead Water District monitors for different parameters and contaminants in your drinking water as required by Federal and State laws. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk. For more information on contamination and potential health risks, please contact the USEPA 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 human activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants.

Some people may be more vulnerable to disease-causing microorganisms or pathogens 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by microbial pathogens are available from the Safe Drinking Water Hotline (1-800-426-4791).

The USEPA established a Lead and Copper Rule that requires all public water suppliers to sample and test for lead and copper at the tap. The first testing was required in 1992. All results were excellent indicating that the District's corrosion control treatment program was effective in preventing the leaching of lead and copper from your home's plumbing into your drinking water. The same testing was last conducted in 2007 with the same excellent results. Retesting is scheduled to occur in 2010.

WATER CONSERVATION MEASURES

The underground water system of Long Island has more than enough water for present water demands. However, saving water will ensure that our future generations will always have a safe and abundant water supply.

This year, the Riverhead Water District has implemented a new water conservation program to help reduce the peak day water use. During last summer, there were a few days where the total water demand on the District started to exceed the pumping capacity of our system.

Most of this water use was due to lawn irrigation. While the District is proceeding with the construction of new wells to meet the increased water demand, water conservation is necessary to insure we have sufficient water supply during these peak periods for our normal needs as well as the fire fighting protection. A detailed newsletter explaining the water conservation program is attached to this water report. The Riverhead Water District requests that all residents help us conserve water.

WATER TREATMENT

The Riverhead Water District provides treatment at all wells to improve the quality of the water pumped prior to distribution to the consumer. The pH of the pumped water is adjusted upward to reduce corrosive action between the water and water mains and in-house plumbing by the addition of lime. The water is also chlorinated with calcium hypochlorite to protect against the growth of bacteria in the distribution system. The District also adds iron sequestering agents at all wells as part of the District's overall water treatment program to supplement corrosion control and to maintain iron in the soluble state to minimize water stains on laundry and plumbing fixtures.

WATER QUALITY

In accordance with State regulations, the Riverhead Water District routinely monitors your drinking water for numerous parameters. We test your drinking water for coliform bacteria, turbidity, inorganic contaminants, lead and copper, nitrate, volatile organic contaminants, total trihalomethanes and synthetic organic contaminants. Over 135 separate parameters are tested in each of our wells numerous times per year. The table presented on page 3 depicts the quality of your drinking water. It should be noted that many of these parameters are naturally found in all Long Island drinking water and do not pose any adverse health effects.

SOURCE WATER ASSESSMENT

The NYSDOH has completed a source water assessment for this system, based on available information. Known and possible contamination sources to this drinking water source were evaluated. The state

**RIVERHEAD WATER DISTRICT
2009 WATER QUALITY REPORT
TABLE OF DETECTED PARAMETERS**

Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Inorganic Contaminants							
Lead	No	Sept. 2007	ND – 4.0 ⁽¹⁾	ug/l	0	AL = 15	Leaching from plumbing
Copper	No	Sept. 2007	ND - 0.3 ⁽¹⁾	ug/l	n/a	AL = 1.3	Leaching from plumbing
Arsenic ⁽⁵⁾	No	5-1-09	ND – 5.0	ug/l	n/a	MCL = 10	Naturally occurring
Fluoride	No	1-28-09	ND – 0.1	mg/l	n/a	MCL = 2.2	Naturally occurring
Ammonia	No	1-28-09	ND - 0.1	mg/l	n/a	MCL = 5.0	Runoff from fertilizer and leaching from septic tanks and sewage
Sodium	No	1-28-09	4.4 – 14.0	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Chloride	No	1-28-09	4.9 – 30.6	mg/l	n/a	MCL = 250	Naturally occurring
Iron	Yes ⁽³⁾	2-13-09	ND – 800	ug/l	n/a	MCL = 300 ⁽³⁾	Naturally occurring
Nitrate	No	1-28-09	ND – 4.5	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Sulfate	No	1-28-09	ND – 28.0	mg/l	n/a	MCL = 250	Naturally occurring
Manganese	No	1-28-09	ND – 180	ug/l	n/a	MCL = 300	Naturally occurring
Perchlorate	No	7-22-09	ND – 2.1	ug/l	n/a	AL = 18 ⁽⁴⁾	Fertilizers
Synthetic Organic Contaminants Including Pesticides and Herbicides							
None Detected	--	--	ND	--	--	--	--
Volatile Organic Contaminants							
Total Trihalomethanes	No	7-8-09	ND – 10.3	ug/l	0	MCL = 80	Disinfection By-Products
MTBE	No	5-6-09	ND – 0.6	ug/l	n/a	MCL = 10	Gasoline Additive

Definitions:

Maximum Contaminant Level (MCL)- The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

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.

Action Level (AL)- The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Milligrams per liter (mg/l) - Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/l) - Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Non-Detects (ND) - Laboratory analysis indicates that the constituent is not present.

⁽¹⁾ - During 2007, we collected and analyzed 30 samples for lead and copper. The 90% percentile is presented as the maximum result. The Action Levels for both lead and copper were not exceeded at any site tested. Retesting is scheduled for 2010.

⁽²⁾ - No MCL has been established for sodium. However, 20 mg/l is a recommended guideline for people on high restricted sodium diets and 270 mg/l for those on moderate sodium diets.

⁽³⁾ - Iron is only a secondary drinking water standard. Iron has no health affects. Therefore, exceeding the MCL for iron represents a level at which adverse aesthetic effects start to occur.

⁽⁴⁾ - Perchlorate is an unregulated contaminant. However, the NYS Dept. of Health has established an action level of 18 ug/l.

⁽⁵⁾ - NYS and EPA have promulgated a drinking water arsenic standard of 10 parts per billion. While your drinking water meets the standard for arsenic, it does contain low levels of arsenic. The standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effect on low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Riverhead Water District

2009 Drinking Water Quality Report

May 2010

continued from page 2

source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water. It does not mean that the water delivered to consumers is, or will become, contaminated. (See section "Water Quality" for a list of contaminants that have been detected.) The source water assessments provide resource managers with additional information for protecting source waters into the future.

As mentioned before, our water is derived from 11 active wells and 4 wells under construction. The source water assessment has rated most of the wells as having a high susceptibility to industrial solvents, pesticides and nitrates and microbial contamination. The elevated susceptibility ratings are due primarily to the various land uses and their related point sources of contamination in the assessment area. The land uses include unsewered commercial, industrial and residential, as well as agricultural land use. While the source water assessment rates our well as being susceptible to microbials, please note that our water is disinfected to ensure that the finished water delivered into your home meets New York State's drinking water standards for microbial contamination.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting the Water District.

WATER SYSTEM IMPROVEMENTS

The Riverhead Water District has recently completed several projects to improve the water system. A new booster pump has been installed in the Wading River area to increase the water pressure and water supply from the Suffolk County Water Authority interconnection at Dogwood Lane. The District is also constructing additional supply wells in Jamesport and Wading River that should be in service by this summer.

Copies of a Supplemental Data Package, which includes the water quality data for each of our supply wells utilized during 2009, are available at the Riverhead Water District office located at 1035 Pulaski Street, Riverhead, New York, the Town Clerk's office and the local Public Library.

We, at the Riverhead Water District, work around the clock to provide top quality water to every tap throughout the community. We ask that all our customers help us protect our water supply, which will improve our way of life and our children's future.

**RIVERHEAD DISTRICT
2008 WATER QUALITY REPORT
TABLE OF DETECTED PARAMETERS**

Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Inorganic Contaminants							
Lead	No	Sept. 2007	ND - 4.0 ⁽¹⁾	ug/l	0	AL = 15	Leaching from plumbing
Copper	No	Sept. 2007	ND - 0.3 ⁽¹⁾	ug/l	n/a	AL = 1.3	Leaching from plumbing
Arsenic	No	07/16/08	ND - 5.1	ug/l	n/a	MCL = 10	Naturally occurring
Ammonia	No		ND - 0.2	mg/l	n/a	NONE	Runoff from fertilizer and leaching from septic tanks and sewage
Sodium	No	03/05/08	4.5 - 15.8	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Chloride	No	03/05/08	5.1 - 27.1	mg/l	n/a	MCL = 250	Naturally occurring
Iron	Yes ⁽³⁾	03/05/08	ND - 820	ug/l	n/a	MCL = 300 ⁽³⁾	Naturally occurring
Nitrate	No	03/05/08	ND - 4.2	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Sulfate	No	03/05/08	ND - 29.5	mg/l	n/a	MCL = 250	Naturally occurring
Manganese	No	03/05/08	ND - 200	ug/l	n/a	MCL = 300	Naturally occurring
Perchlorate	No	03/28/08	ND - 2.2	ug/l	n/a	AL = 18 ⁽⁴⁾	Fertilizers
Synthetic Organic Contaminants Including Pesticides and Herbicides							
None Detected	--	--	ND	--	--	--	--
Radionuclides							
Radium 228	No	07/18/08	ND - 1.0	pCi/L	n/a	MCL = 5	Naturally occurring
Gross Beta	No	07/23/08	ND - 2.6	pCi/L	n/a	MCL = 50	Naturally occurring
Volatile Organic Contaminants							
Total Trihalomethanes	No	07/02/08	ND - 6.0	ug/l	0	MCL = 80	Disinfection By-Products
MTBE	No	03/05/08	ND - 0.7	ug/l	n/a	MCL = 10	Gasoline Additive

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RIVERHEAD WATER DISTRICT
2009 WATER QUALITY DATA

PARAMETERS (mg/l)	MAX. CONT. LEVEL	DETECT. LIMITS	WELL NO. 1 S-1322 ⁽¹⁾		WELL NO. 2 S-7261 ⁽¹⁾		WELL NO. 3 S-15117 ⁽¹⁾		WELL NO. 4-1 S-30271 ⁽¹⁾		WELL NO. 4-2 S-34732 ⁽¹⁾	
			MAX. RESULT	AVG. RESULT	MAX. RESULT	AVG. RESULT	MAX. RESULT	AVG. RESULT	MAX. RESULT (raw/treat)	AVG. RESULT (raw/treat)	MAX. RESULT	AVG. RESULT
INORGANIC												
ARSENIC	10.0 ug/l	3.0 ug/l	5.0 ⁽⁵⁾	4.9	3.7 ⁽⁴⁾	2.7	3.7 ⁽⁵⁾	3.5	ND	ND	3.9 ⁽²⁾	2.0
BARIUM	2.0 mg/l	0.2 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM	5.0 ug/l	5.0 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM	0.10 mg/l	0.01 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE	2.2 mg/l	0.1 mg/l	ND	ND	0.1	0.1	ND	ND	ND	ND	ND	ND
LEAD	[15.0] ug/l	1.0 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MERCURY	2.0 ug/l	0.2 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM	10.0 mg/l	5.0 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	**20/270 mg/l	0.2 mg/l	4.5	4.5	4.6	4.6	4.4	4.4	5.1	5.1	5.1	5.1
SPECIFIC CONDUCTIVITY	None	None	82	82	97	97	78	78	80	80	93	93
ZINC	5.0 mg/l	0.02 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COLOR	15 Units	5 Units	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ODOR	3 Units	0 Units	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	0.3 mg/l	0.02 mg/l	0.2	0.2	***0.8	***0.8	0.2	0.2	0.1	0.1	***0.6 ⁽⁴⁾	***0.6
MANGANESE	0.3 mg/l	0.01 mg/l	ND	ND	0.04	0.04	ND	ND	0.01	0.01	0.03	0.03
AMMONIA	None	0.1 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITRITE	1.0 mg/l	0.1 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITRATE	10.0 mg/l	0.1 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLORIDE	250 mg/l	2.0 mg/l	7.7	7.7	5.8	5.8	7.4	7.4	4.9	4.9	7.7	7.7
pH (BEFORE TREATMENT)	None	None	6.7	6.7	6.8	6.8	6.6	6.6	6.3	6.3	6.4	6.4
SULFATE	250 mg/l	5.0 mg/l	ND	ND	5.0	5.0	ND	ND	ND	ND	10.5	10.5
ANTIMONY	6.0 ug/l	5.9 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BERYLLIUM	4.0 ug/l	0.3 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	0.10 mg/l	0.04 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYANIDE	0.2 mg/l	0.010 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERCHLORATE	18.0 ug/l	1.0 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CONT. - CONTAMINANT

ND - NOT DETECTED

** - 20 mg/l IS THE LIMIT FOR PEOPLE ON HIGHLY RESTRICTED SODIUM DIETS AND 270 mg/l FOR THOSE ON MODERATELY RESTRICTED SODIUM DIETS

[] - USEPA/NYS DH ACTION LEVEL

*** - EXCEEDS NEW YORK STATE MAXIMUM CONTAMINANT LEVEL FOR POTABLE WATER BEFORE TREATMENT.

THE STANDARD FOR IRON IS A SECONDARY STANDARD FOR AESTHETICS ONLY. IRON POSES NO HEALTH RISKS.

() - NUMBER OF SAMPLES COLLECTED AND TESTING DURING YEAR

**RIVERHEAD WATER DISTRICT
2009 WATER QUALITY DATA**

PARAMETERS (mg/l)	MAX. CONT. LEVEL	DETECT. LIMITS	WELL NO. 5-1 S-66685 ⁽¹⁾		WELL NO. 5-2 S-88466 ⁽¹⁾		WELL NO. 7-2 S-89133 ⁽¹⁾		WELL NO. 7-3 S-105439 ⁽¹⁾		WELL NO. 11-1 ⁽¹⁾	
			MAX. RESULT	AVG. RESULT	MAX. RESULT	AVG. RESULT	MAX. RESULT	AVG. RESULT	MAX. RESULT	AVG. RESULT	MAX. RESULT	AVG. RESULT
INORGANIC												
ARSENIC	10.0 ug/l	3.0 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM	2.0 mg/l	0.2 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM	5.0 ug/l	5.0 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM	0.10 mg/l	0.01 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE	2.2 mg/l	0.1 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LEAD	[15.0] ug/l	1.0 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MERCURY	2.0 ug/l	0.2 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM	10.0 mg/l	5.0 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	**20/270 mg/l	0.2 mg/l	14.0	14.0	12.4	12.4	4.4	4.4	5.2	5.2	6.1	6.1
SPECIFIC CONDUCTIVITY	None	None	208	208	172	172	57	57	86	86	145	145
ZINC	5.0 mg/l	0.02 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COLOR	15 Units	5 Units	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ODOR	3 Units	0 Units	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	0.3 mg/l	0.02 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MANGANESE	0.3 mg/l	0.01 mg/l	0.2	0.2	0.01	0.01	ND	ND	ND	ND	ND	ND
AMMONIA	None	0.1 mg/l	0.1	0.1	ND	ND	ND	ND	ND	ND	ND	ND
NITRITE	1.0 mg/l	0.1 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITRATE	10.0 mg/l	0.1 mg/l	4.5	4.5	2.4	2.4	0.2	0.2	0.1	0.1	0.2	0.2
CHLORIDE	250 mg/l	2.0 mg/l	30.6	30.6	20.9	20.9	8.4	8.4	5.7	5.7	6.4	6.4
pH (BEFORE TREATMENT)	None	None	5.8	5.8	6.6	6.6	6.2	6.2	6.9	6.9	7.8	7.8
SULFATE	250 mg/l	5.0 mg/l	28.0	28.0	26.9	26.9	ND	ND	5.5	5.5	15.7	15.7
ANTIMONY	6.0 ug/l	5.9 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BERYLLIUM	4.0 ug/l	0.3 ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	0.10 mg/l	0.04 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYANIDE	0.2 mg/l	0.010 mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERCHLORATE	18.0 ug/l	1.0 ug/l	ND	ND	2.1 ⁽⁴⁾	2.1	ND	ND	ND	ND	ND	ND

CONT. - CONTAMINANT

ND - NOT DETECTED

** - 20 mg/l IS THE LIMIT FOR PEOPLE ON HIGHLY RESTRICTED SODIUM DIETS AND 270 mg/l FOR THOSE ON MODERATELY RESTRICTED SODIUM DIETS

[] - USEPA/NYS DH ACTION LEVEL

*** - EXCEEDS NEW YORK STATE MAXIMUM CONTAMINANT LEVEL FOR POTABLE WATER BEFORE TREATMENT.

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() - NUMBER OF SAMPLES COLLECTED AND TESTED DURING YEAR

**RIVERHEAD WATER DISTRICT
2009 WATER QUALITY DATA**

PARAMETERS (mg/l)	MAX. CONT. LEVEL	DETECT. LIMITS	WELL NO. 11-2 ⁽¹⁾		WELL NO. 12-1 ⁽¹⁾		WELL NO. 12-2 S-35110 ⁽¹⁾	
			MAX. RESULT	AVG. RESULT	MAX. RESULT	AVG. RESULT	MAX. RESULT (Raw/Treated)	AVG. RESULT (Raw/Treated)
<u>INORGANIC</u>								
ARSENIC	10.0 ug/l	3.0 ug/l	ND	ND	ND	ND	ND	ND
BARIUM	2.0 mg/l	0.2 mg/l	ND	ND	ND	ND	ND	ND
CADMIUM	5.0 ug/l	5.0 ug/l	ND	ND	ND	ND	ND	ND
CHROMIUM	0.10 mg/l	0.01 mg/l	ND	ND	ND	ND	ND	ND
FLUORIDE	2.2 mg/l	0.1 mg/l	0.1	0.1	ND	ND	ND	ND
LEAD	[15.0] ug/l	1.0 ug/l	ND	ND	ND	ND	ND	ND
MERCURY	2.0 ug/l	0.2 ug/l	ND	ND	ND	ND	ND	ND
SELENIUM	10.0 mg/l	5.0 mg/l	ND	ND	ND	ND	ND	ND
SODIUM	**20/270 mg/l	0.2 mg/l	7.6	7.6	5.0	5.0	5.1	5.1
SPECIFIC CONDUCTIVITY	None	None	128	128	159	159	201	201
ZINC	5.0 mg/l	0.02 mg/l	ND	ND	ND	ND	ND	ND
COLOR	15 Units	5 Units	ND	ND	ND	ND	ND	ND
ODOR	3 Units	0 Units	ND	ND	ND	ND	ND	ND
IRON	0.3 mg/l	0.02 mg/l	ND	ND	ND	ND	ND	ND
MANGANESE	0.3 mg/l	0.01 mg/l	ND	ND	ND	ND	ND	ND
AMMONIA	None	0.1 mg/l	0.2	0.2	ND	ND	ND	ND
NITRITE	1.0 mg/l	0.1 mg/l	ND	ND	ND	ND	ND	ND
NITRATE	10.0 mg/l	0.1 mg/l	ND	ND	0.8	0.8	2.1	2.1
CHLORIDE	250 mg/l	2.0 mg/l	9.7	9.7	5.4	5.4	4.9	4.9
pH (BEFORE TREATMENT)	None	None	8.0	8.0	7.2	7.2	7.5	7.5
SULFATE	250 mg/l	5.0 mg/l	ND	ND	16.7	16.7	14.1	14.1
ANTIMONY	6.0 ug/l	5.9 ug/l	ND	ND	ND	ND	ND	ND
BERYLLIUM	4.0 ug/l	0.3 ug/l	ND	ND	ND	ND	ND	ND
NICKEL	0.10 mg/l	0.04 mg/l	ND	ND	ND	ND	ND	ND
CYANIDE	0.2 mg/l	0.010 mg/l	ND	ND	ND	ND	ND	ND
PERCHLORATE	18.0 ug/l	1.0 ug/l	ND	ND	ND	ND	ND	ND

CONT. - CONTAMINANT

ND - NOT DETECTED

** - 20 mg/l IS THE LIMIT FOR PEOPLE ON HIGHLY RESTRICTED SODIUM DIETS AND 270 mg/l FOR THOSE ON MODERATELY RESTRICTED SODIUM DIETS

[] - USEPA/NYS DH ACTION LEVEL

() - NUMBER OF SAMPLES COLLECTED AND TESTED DURING YEAR