



*Annual Drinking Water Quality Report for 2010  
City of Rehoboth Beach  
229 Rehoboth Avenue, Rehoboth Beach, Delaware 19971  
PWS ID#0000723  
May 23, 2011*

We're pleased to present to you this year's Annual Water Quality Report. 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. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is ***Groundwater. Our wells draw from the Columbia Aquifer.***

The Division of Public Health in conjunction with the Department of Natural Resources and Environmental Control has conducted a source water assessment. If you are interested in reviewing the assessment, please contact the ***City of Rehoboth Beach Water Department at 302-227-3194, or go online @<http://www.wr.udel.edu/swaphome/swassessments.html>.*** It provides information such as potential sources of contamination.

I'm pleased to report that our drinking water meets federal and state requirements.

If you have any questions about this report or concerning your water utility, please contact ***Howard Blizzard, Water Supervisor at 302-227-3194.*** We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held ***on the third Friday of each month at 7:00 p.m., at City Hall, 229 Rehoboth Avenue.***

Public Health, Office of Drinking Water and ***City of Rehoboth Beach*** routinely monitor for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, ***2010.*** As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled 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.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

***Non-Detects (ND)*** - laboratory analysis indicates that the constituent is 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. Or 1 drop in 13 gallons.

***Parts per billion (ppb) or Micrograms per liter*** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000. Or 1 drop in 13,000 gallons

***Action Level*** - the concentration of a contaminant which if exceeded, triggers treatment or other requirements which a water system must follow.

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

*Maximum Contaminant Level (MCL)* - The “Maximum Allowed” (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 “Goal” (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 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 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.

<b>TEST RESULTS</b>						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG/ MRDLG	MCL/ MRDL	Likely Source of Contamination
<b>Microbiological Contaminants</b>						
Chlorine	N	0.3-0.88 **(09)	ppm	4	4	Water additive used to control microbes
1. Total Coliform Bacteria	N	*1 Present sample		0	presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment
*All resample's and subsequent samples came back absent. No violations were issued.						
<b>Radioactive Contaminants</b>						
5. Alpha emitters	N	0.09-3.7	pCi/l	0	15	Erosion of natural deposits
6. Combined radium	N	0.62	pCi/l	0	5	Erosion of natural deposits
<b>Inorganic Contaminants</b>						
11. Barium	N	0.0632-0.0925	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
14. Chromium	N	0.9-3.1	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
15. Copper	N	0.225 **(09)	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
17. Fluoride	N	0-0.79	ppm	0.8-1.2	2.0	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
18. Lead	N	4 **(09)	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits

Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
20. Nitrate (as Nitrogen)	N	0.58-9.3	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<b>Synthetic Organic Contaminants including Pesticides and Herbicides</b>						
33. Di(2-ethylhexyl) adipate	N	0-1.4	ppb	400	400	Discharge from chemical factories
34. Di(2-ethylhexyl) phthalate	N	0-0.8	ppb	0	6	Discharge from rubber and chemical factories
36. Dinoseb	N	0-0.7	ppb	7	7	Runoff from herbicide used on soybeans and vegetables
<b>Volatile Organic Contaminants</b>						
68. Haloacetic Acids (HAA)	N	0.44	ppb	60	n/a	By-product of drinking water disinfection
76. TTHM [Total trihalomethanes]	N	1.274	ppb	0	80	By-product of drinking water chlorination
<b>Unregulated Inorganic Contaminants</b>						
80. Iron (Fe)	N	0.14-0.32 **(08)	ppm	0	0.3	
81. Sodium (Na)	N	16.5 42.6	ppm	0		
82. Alkalinity (Alk)	N	12-50	ppm			
83. pH	N	6.8-10.7	ppm		6.5 – 8.5	
84. Chloride (Cl)	N	13-29.5	ppm		250	
85. Hardness	N	6.6 - 19.4 **(09)	ppm			
86. Total Dissolved Solids (TDS)	N	118 - 224	ppm		500	
Manganese	N	0.7-6.1	ppb			
Nickel	N	0.8-1.0	ppb			
91. Sulfate	N	12.3 - 21.8 **(09)	ppm			

\*\*The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

**All other contaminants were ND in compliance with the Safe Drinking Water Act.**

(20) Nitrate. Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that level in your water is below the MCL.

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.

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

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 at 1-800-426-4791.

We at ***City of Rehoboth Beach*** work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Our office is located at 20543 Roosevelt Street. Heading south on State Road, go under Route 1 overpass, go straight. Roosevelt Street runs along the Lewes-Rehoboth Beach Canal.

