

# Rockport Drinking Water Quality Report

Public Water System ID No. 736006



1415 Freeway Drive  
P.O. Box 1436  
Mount Vernon, WA 98273  
tel: (360) 424-7104  
www.SkagitPUD.org

*Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.*

**A**t Skagit PUD, we are committed to providing you the safest and most reliable drinking water possible. This report is a snapshot of the quality of water that we provided in 2010. Inside are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards.

For information about your drinking water, please call (360) 424-7104 or visit our Web site at SkagitPUD.org. We welcome your comments and suggestions. We also invite you to attend Skagit PUD commission meetings. The commissioners hold open meetings every Tuesday of the month at 4:30 p.m. in our Aqua Room located at 1415 Freeway Drive, Mount Vernon.

## Who Regulates Water Quality?

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (EPA) and Washington State Department of Health (DOH) prescribe regulations which limit the amount of contaminants in water provided by public water systems such as Rockport.

Other standards for water protection include:

- Assessing drinking water sources;
- Protecting wells;
- Making sure water is treated by qualified operators;
- Ensuring the integrity of water distribution systems;
- Conducting water quality monitoring; and
- Making information available to the public on the quality of their drinking water.

## Source of Your Drinking Water

The District obtains water for Rockport from the existing well located within Rockport State Park. Water is pumped from a depth of nearly 350 feet below the ground surface to a concrete water tank northwest of the Rockport community. The water system was created by way of the Rockport Local Utility District, which was organized in the early 1990s.



## Chlorine as a Disinfectant

Chlorine is added on a continual basis to drinking water that is distributed to Rockport. Although the taste and odor of this disinfectant is undesirable to some people, chlorine is added to eliminate harmful bacteria that may be found in water.

Chlorine is the best method of protection for water systems that are the size of Rockport.

## Source Water Protection

To achieve improved protection of public water supply sources and the health of Washington's citizens, the Washington State Department of Health has developed the Source Water Assessment Program (SWAP).

The SWAP program evaluates potential threats to the safety of our water supplies by assessing sources of contamination. The SWAP is designed to give you and your community more information about the source of your drinking water, and any threats to its long-term quality that we can identify and address through a pollution prevention approach.

To learn more about the SWAP, contact the Washington State Department of Health at (360) 236-3149 or visit [www.doh.wa.gov/ehp/dw](http://www.doh.wa.gov/ehp/dw).

# Water Quality

The tables below list all the drinking water contaminants that we detected during the 2010 calendar year. The presence of these 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 testing done January 1 to December 31, 2010. The state 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. Some of the data, though representative of the water quality, is more than one year old.

## 2010 Drinking Water Results – Regulated Contaminants

Lead and Copper	AL	MCLG	Rockport Water	Number of sites found above the Action Level			Typical Source of Contaminant
Lead (ppb) (2008)	15	0	3.5	0 sites out of 5 sites sampled			Corrosion of household plumbing
Copper (ppm) (2008)	1.3	1.3	0.06	0 sites out of 5 sites sampled			Corrosion of household plumbing
Microbiological Contaminants	MCL (MRDL)	MCLG (MRDLG)	Rockport Water	Range of Detections	Sample Date	Violation	Typical Source of Contaminant
Turbidity (NTU)	TT	n/a	0.22	n/a	2010	NO	Soil erosion
Total Coliform Bacteria	5% of Samples	0.0	0%	n/d	2010	NO	Naturally present in environment
Inorganic Compounds							
Barium (ppm)	2	2	0.038	n/a	2010	NO	Erosion of natural deposits
Sodium (ppm)	n/a	n/a	5.17	n/a	2010	NO	Erosion of natural deposits
Disinfection By-Products							
Trihalomethanes (ppb)	80	n/a	5.7	n/a	2007	NO	By-product of drinking water chlorination
Haloacetic Acids (ppb)	60	n/a	2.6	n/a	2007	NO	By-product of drinking water chlorination
Chlorine Residual (ppm)	4	4	0.47	0.32 - 0.73	2009	NO	Measure of disinfectant added to water
Radionuclides							
Radium 228 (pCi/L)	5	0	0.87	n/a	2009	NO	Erosion of natural deposits
Secondary Regulated Compounds							
Sulphate (ppm)	250	n/a	17	n/a	2008	NO	Naturally present in the environment

Not Detected (n/d). Not Applicable (n/a).

### MONITORING WAIVER.

The Washington State Department of Health has reduced the monitoring requirements for synthetic organic chemicals because the source is not at risk of contamination. The last samples collected for these contaminants were taken in August 2007 and were found to meet all applicable EPA and Department of Health standards.

### DISINFECTION BYPRODUCTS MONITORING VIOLATION.

Skagit PUD is required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During the month of August 2010 we did not monitor or test for Total Trihalomethanes or Haloacetic Acids and therefore cannot be sure of the quality of your drinking water during this time. Past sampling results for disinfection byproducts have been extremely low or non-detectable. At this time, no action is required by the users. Samples will be collected in the future as required.

## Water Quality Definitions

**Total Coliforms:** A group of non-pathogenic bacteria used in testing water to indicate the presence of pathogenic bacteria. They are naturally present in the environment. If coliforms were found in more samples than allowed, it would be a warning of potential problems.

**Haloacetic Acids:** A disinfection by-product from chlorinating water that contains natural organic matter.

**Trihalomethanes:** A disinfection by-product from chlorinating water that contains natural organic matter. The most common by-product is chloroform.

**MCL:** Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology.

**MCLG:** Maximum Contaminant Level Goal. 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.

**MRDL:** Maximum Residual Disinfectant Level. 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.

**MRDLG:** Maximum Residual Disinfectant Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the health benefits of the use of disinfectants to control microbial contaminants.

**Turbidity:** Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

**NTU:** Nephelometric Turbidity Units. A unit of measure for turbidity based on the amount of light that is reflected from the water.

**ppm:** Part per million. One part per million is equivalent to half of an aspirin tablet dissolved in a full bathtub of water (approximately 50 gallons).

**ppb:** Part per billion. One part per billion is equivalent to half of an aspirin tablet dissolved in 1,000 bathtubs of water (approximately 50,000 gallons).

**TT:** Treatment Technique. A required process intended to reduce the level of a contaminant in drinking water.

**AL:** Action Level. The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement a water system must follow.

## Understanding Potential Sources of Contaminants

**D**RINKING WATER, INCLUDING BOTTLED WATER, may reasonably be expected to contain at least small amounts of some contaminants. The presence of some 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 Safe Drinking Water Hotline (1-800-426-4791) or at [www.epa.gov/safewater/](http://www.epa.gov/safewater/).

The sources of drinking water (both tap water and bottled water) include lakes, rivers, 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 in drinking water sources may include:

- Microbial contaminants, such as viruses and bacteria, which may come from septic systems, wildlife, and farm animals.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, and farming.
- Pesticides and herbicides, which may come from a

variety of sources such as agriculture, urban storm water 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 storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that 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 establish limits for contaminants in bottled water which must provide the same protection for public health.

### Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as people with cancer undergoing chemotherapy, people 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 providers

about drinking water.

EPA and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other

microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

## CROSS CONNECTION

### Keeping contaminants out of your water

**I**T IS A LOGICAL ASSUMPTION that because water is always under pressure, it can only flow in one direction. However, can it flow the opposite way from its intended direction? The answer is **yes**, and when it does it can cause disastrous results. Water will always flow toward the point of lowest pressure.

If a water main in the public water system should break, or if a fire occurred and the fire department opened several hydrants, the pressure in the water mains could drop dramatically, causing a reversal of flow. The potential for this reversal of flow is why Skagit PUD is concerned about the possibility of contaminants or pollutants being siphoned back into the water system.

When the plumbing at a residence is connected to the potable water supply, and it is connected to piping carrying another fluid or gas, such as

an air conditioner containing chemicals to kill algae, the contaminant could be drawn back into our water mains. A garden hose submerged into a hot tub or swimming pool, or inserted into your car's radiator to flush out antifreeze, or attached to a fertilizer sprayer, could siphon these contaminants back into our water mains. Incidents such as these have been documented throughout the country and have happened all too often.

Fortunately, back flow from a cross connection can be prevented. Skagit PUD's Cross Connections Program protects the water system from contaminants by ensuring that customers have properly installed and maintained back flow prevention devices. Call Water Quality at (360) 848-2138 for more information.

