

Our Water Quality Commitment:

You Can Count on Washington Water Employees to . . .

- ⇒ provide you with the highest quality water possible
- ⇒ sample, test and treat your water on a regular basis
- ⇒ work diligently to meet every water quality standard on every system, every day
- ⇒ maintain water distribution system reliability
- ⇒ provide you with the highest level of customer service possible

Important Phone Numbers:

Washington Water Service Company

P.O. Box 336
Gig Harbor, WA 98335-0336
Office: (253) 851-4060
Toll Free: (877) 408-4060
<http://www.wawater.com>

SW Regional Operations Mgr:
Paul Robischon

Washington State Department of Health

Southwest Office of Drinking Water
P.O. Box 47823
Olympia, WA 98504-7823
(360) 664-0768
<http://www.doh.wa.gov/ehp/dw/>



WASHINGTON WATER
SERVICE COMPANY

Manzanita Beach Water System State ID #50994P

2011 Drinking Water Report

Washington Water Service Company (WWSC) is committed to being a leader in providing communities and customers with traditional and innovative utility services. WWSC is proud of its service record and is staffed with courteous and knowledgeable water professionals who are dedicated to meeting your needs. While we are proud of our past record, we continually strive to improve upon the quality of services we provide to you, our valued customer.

This *2011 Drinking Water Report* is your annual update on the quality and safety of your drinking water. It includes the water quality monitoring results from the **most recent round** of testing done on your system, in accordance with state and federal regulations. This report also provides access through references and telephone numbers to source water assessments, health effects data and additional information about your water system. This allows you to make personal health-based decisions regarding your drinking water consumption and become more involved in decisions which may affect your health. We hope you find this information helpful!

Washington Water Service Co.
Toll-free: (877) 408-4060

Regarding “contaminants” in 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 the water poses a health risk. In order to ensure that tap water is safe to drink, the Washington State Department of Health and EPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and the Washington Department of Agriculture regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Sources of drinking water:

Common sources of drinking water—both tap and bottled water—include rivers, lakes and streams (surface water) and wells and springs (groundwater). As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material. The water can also pick up substances resulting from the presence of animals or from human activity.

Reminder:

Any hazardous material that you put onto the ground or in your septic tank could potentially pollute the groundwater. Please help the Manzanita Beach Water System prevent ground-water contamination for this and future generations.

Where does my water come from?

Your water comes from two wells and is considered groundwater. These two wells are 182 and 189 feet deep, both tapping the same aquifer. Currently, your water is not treated. A corrosion control treatment system design has been approved by the Dept of Health. Construction will begin once all parts have been acquired. This new treatment system is expected to be in service by September 2011. See the inside of this brochure for additional information.

Contaminants that may be present in source water include:

- ◆ Microbial contaminants, such as viruses, parasites 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.
- ◆ Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.
- ◆ 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.



Water Quality Data

How To Read The Tables:

Your water is tested for more than 100 contaminants for which state and federal standards have been set. **Tables 1 & 2** list all primary contaminants that were detected (in any amount) along with their respective Maximum Contaminant Levels (MCLs). Primary standards protect public health by limiting the levels of these contaminants in drinking water. **Table 3** shows the levels of secondary contaminants and common water properties of interest to many consumers. Secondary contaminants have no known health effects but can affect the aesthetic properties of water (taste, odor and appearance). Secondary Maximum Contaminant Levels (SMCLs) are guidelines only.

Terms and Abbreviations used:

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 using the best available treatment technology.

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, when exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper 90th Percentile Value: Out of every 10 homes sampled, 9 were at or below this level. This must be \leq the AL or additional steps must be taken.

ppb: parts per billion. **ppm:** parts per million.

N/A: not applicable

Synthetic Organic Chemicals (herbicides, pesticides and insecticides). Your drinking water source was tested for 14 different herbicides and 31 pesticides in 2010. There were no detections of any of these chemicals. The Dept of Health waived any monitoring for insecticides through Dec 2010.

TABLE 1: Primary Contaminants Detected In Your Drinking Water

Primary Contaminant	Units	Year Tested	MCL	MCLG	YOUR WATER	Compliant? (Y/N)	Major Sources in Drinking Water
Nitrate	ppm	2010	10	10	1.1	Y	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

TABLE 2: Lead and Copper Monitoring—Samples are collected at customer faucets. The number of homes sampled is based on population served by the system. Specific EPA-mandated criteria are used to select the homes:

Primary Contaminant	Units	Year Tested	AL	No. of Homes Sampled	90th Percentile Value	No. of Homes Exceeding the AL	Compliant? (Y/N)	Major Sources in Drinking Water
Copper	ppm	2004 ^a	1.3	5	1.38	1	N^b	Corrosion of household plumbing systems; erosion of natural deposits
Lead	ppb	2004 ^a	15	5	8	0	Y	Corrosion of household plumbing systems; erosion of natural deposits

TABLE 3: Secondary and Unregulated Contaminants Detected in Your Drinking Water

Secondary Contaminant	Units	Year Tested	SMCL	YOUR WATER	Compliant? (Y/N)	Major Sources in Drinking Water
Iron	ppm	2010	0.30	0.16	Y	Leaching from natural deposits; industrial wastes
Manganese	ppm	2010	0.05	0.01	Y	Leaching from natural deposits
Chloride	ppm	2010	250	33	Y	Runoff/leaching from natural deposits; seawater influence
Sodium	ppm	2010	N/A ^c	19	Y	Erosion of natural deposits; seawater influence
Hardness	ppm	2010	N/A	94^d	Y	Erosion of natural deposits
Unregulated Contaminants^e						
Lead	ppb	2010	N/A	1	Y	Corrosion of household plumbing systems; and water distribution lines; erosion of natural deposits

^a No lead and copper monitoring is required until after the corrosion control treatment system is in service (expected by Aug 31, 2010).

^b Lead and copper are regulated by a treatment technique that is required to control the corrosiveness of the water. If more than 10% of tap water samples exceed the "action level", the water system must take additional steps. Please see paragraph at right for an update on the status of Corrosion Control Treatment.

Health Effects: Copper is an essential nutrient but some people who drink water containing copper in excess of the action level over a relatively short amount of time may experience gastrointestinal distress. Some people who drink water containing 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.

^c The EPA recommends 20 ppm sodium as a level of concern for those consumers who must restrict their dietary intake.

^d Equivalent to 5.5 grains per gallon of hardness. 0-75 ppm hardness is generally considered "soft" water, 75-150 ppm is "moderately hard", 150-300 ppm is "hard" and > 300 ppm is "very hard".

^e The purpose of unregulated contaminant monitoring is to assist EPA in determining these compounds' occurrence in drinking water and whether future regulation is warranted. Groundwater is not a common source of lead or copper in drinking water. Lead and copper in drinking water most often come from corrosion of household plumbing so they are regulated in the distribution system (see Table 2), not at the source, which is what this result represents.

Corrosion Control Treatment Update. The Washington State Department of Health (DOH) has approved the design of the corrosion control treatment system. Calcium Hydroxide will be added to the source water to raise the pH of the water which will reduce corrosion of copper pipes in your homes. The treatment system components have been ordered and construction will commence once all of the parts have been acquired. DOH has granted an extension on the time line for installing the treatment system. Corrosion control treatment for this water system is currently scheduled to be on line by September 2011.

The Office of Drinking Water has compiled source water assessment program (SWAP) data for all community water systems in Washington. SWAP data for your system is available by accessing DOH's web site at:

<http://www4.doh.wa.gov/dw/swap/app/login.cfm?app=maps>

If you do not have access to the web, we encourage you to use the internet service available through the public library system.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people such as those with cancer undergoing chemotherapy, those 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/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from EPA's Safe Drinking Water Hotline at (800) 426-4791, or by visiting their web site, shown below. More information about contaminants found in water and their potential health effects can be obtained there, also.

Safe Drinking Water Hotline
1-800-426-4791
www.epa.gov/ogwdw