



Moorelands Water System

State ID# 56150Y

2016 Drinking Water Report



This report, also known as a Consumer Confidence Report, provides you with information about the water you drink. This report shows that your water meets or exceeds federal and state primary drinking water standards

Moorelands Water System is managed by:

Peninsula Light Company Water Services

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Your Water Source

The water source is 2 wells. The two wells fill a 60,000 gallon reservoir. The water is then brought to system pressure through four booster pumps. The system supplies residential fire flow to the community. The system is routinely chlorinated.

The Federal Safe Drinking Water Act (SDWA) categorizes drinking water standards into primary and secondary contaminants. Primary standards relate to contaminants that affect public health. Secondary standards relate to contaminants that affect aesthetic qualities, such as appearance, taste, odor and color.

Water utilities are responsible for sampling for contaminants and reporting this information to the State Department of Health (DOH) who in turn report to the Environmental Protection Agency (EPA). USEPA uses this data to ensure that consumers are receiving clean water and verify that states are enforcing the drinking water regulations.

Contaminants that may be present in source water:

- ~ Microbial, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.
- ~ Inorganic chemicals, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas, mining or farming activities.
- ~ Pesticides and herbicides, which may come from a variety of sources such as agricultural, residential application, and storm water runoff
- ~ Organic chemical contaminants, including synthetic and volatile organic chemicals, which are a by-product of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.
- ~ Radioactive contaminants that are naturally occurring.

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 EPA's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-compromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone 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 the 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 the Safe Drinking Water Hotline (800-426-4791).

In order to ensure that the tap water is safe to drink, the 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.

You do not need to buy bottled water for health reasons if your drinking water meets all of the federal and state drinking water standards. If you want a drink with a different taste, you can buy bottled water, but it costs up to 1,000 times more than your tap drinking water. Of course, in emergencies bottled water can be a vital source of drinking water.

Water Quality Data

The table shows the results of water quality monitoring for contaminants in your water supply. The presence of contaminants does not necessarily indicate that water poses a health risk. All other contaminants required to be monitored but not listed were either below the standard detection limits and/or MCL

Terms and Abbreviations used:

AL – Action Level – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
 MCL – Maximum Contaminant Level – the highest level of contaminant allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.
 MCLG – MCL Goal – the level of contaminant in drinking water, below which there is no known or expected health risk. MCLG’s 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 (e.g., chlorine, chloramines, chlorine dioxide).
 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 benefits of the use of disinfectants to control microbial contaminants.
 NA – Not applicable; ND – Not detectable
 PPM – parts per million; PPB – parts per billion (1 ppm = 1 milligram per liter; mg/L)

Washington State Department of Health
 Drinking Water Program: 800-521-0323
<http://www.doh.wa.gov/ehp/dw>

USEPA Office of Ground Water and Drinking Water
 Safe Drinking Water Hotline: 800-426-4791
<http://www.epa.gov/OGWDW/>

Microbiological – Coliform Bacteria (measured in distribution system)	Results: One total coliform sample was unsatisfactory in July 2016.				
	Action: None required. Repeat samples satisfactory.				
Source: Bacteria are naturally occurring in the environment and are used as an indicator that other potentially harmful bacteria may be present.					
Primary Contaminants (measured at source)	Your Water	MCL	MCLG	Compliant (Y/N)	Typical Source of Contamination
Arsenic (ppm)	.001	0.01	0	Yes	Most arsenic in drinking water comes from natural rock formations. Last tested 2011
Nitrate (ppm)	0.5	10	10	Yes	Runoff from fertilizer use, leaching from septic tanks; and erosion of natural deposits. Tested 2016
Barium	.04	2	2	Yes	Erosion of natural deposits Last tested 2011
Secondary Contaminants (measured at source)	Secondary maximum contaminant levels (SMCLs) are standards set for other than health effects such as taste and odor				
	Your Water	SMCL		Compliant (Y/N)	Typical Source of Contamination
Chloride (ppm)	365	250		No	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Last tested 2015
Fluoride (ppm)	<0.2	2		Yes	Erosion of natural deposits – no fluoride is added to water supply. Last tested 2011
Iron (ppm)	<0.1	0.3		Yes	Occurs naturally in water as a result of the leaching of iron salts from the earth and occurs as a result of corrosion of pipes. Last tested 2011
Manganese (ppm)	0.16	0.05		No	Occurs naturally in water as a result of erosion of natural deposits. Last tested 2015
State Regulated / Other (measured at source)	Although the State Board of Health has not established SMCLs for sodium, there is sufficient public health significance connected with this contaminant to require inclusion in inorganic chemical and physical source monitoring.				
Hardness (ppm)	261	NA		NA	A quality of water containing dissolved components of calcium and magnesium Last tested 2011
Sodium (ppm)	70	NA		NA	Naturally occurring; discharge from fertilizer and aluminum factories. Last tested 2011
DBP's: HAA (ppb) TTHMs (ppb)	ND	60		Yes	Byproduct of drinking water disinfection Last tested 2014
	1.2	80		Yes	
Corrosion By-products (measured at customer taps)	90 th percentile result is reported below. (Out of every 10 homes sampled, 9 were at or below this level.) NOTE: 0.015 ppm (parts per million) = 15 ppb (parts per billion). Last tested 2016				
	Your Water	AL		Compliant (Y/N)	Typical Source of Contamination
Lead (ppm)	.002	0.015		Yes	Corrosion of household plumbing; erosion of natural deposits
Copper (ppm)	0.09	1.3		Yes	Corrosion of household plumbing; erosion of natural deposits

**“Dirty Water!”
 What is it and what happened?**

As many water system users are aware, many wells in our area are no strangers to the nuisance iron and manganese. These common minerals found at various levels in most source waters can cause problems from discolored water, to staining of plumbing fixtures and some may even affect taste. These problems occur before becoming a health hazard and are generally referred to as aesthetic issues only. Because these minerals build up over time on most portions of the distribution system, flushing is done by the system operator to minimize negative effects

Despite these efforts, problems can and still do occur. Mostly during water system use changes, like a seasonal change of higher volume use, discolored water is seen from the breakup of mineral build up. This can be isolated to a customer’s home only, or be in all or a portion of the distribution system requiring the unplanned flushing of the system. In such cases the flushing may initially make the problem worse by stirring up even more of the mineral discoloration. Running a few taps for 15 to 20 minutes should clear up the problem.

Iron and manganese removal systems are available though can be very costly for utilities or system owners because of the volume of water that would need to be treated. Many homeowners decide to have a single house system installed. There are many to choose from and having the right system for your needs is important. Be sure samples are collected after a new system is installed to ensure it’s doing what it’s supposed to do.