

# HEIGHTS WATER CONSUMER CONFIDENCE REPORT

## 2018 Monitoring Results *(Prepared May 2019)*

**Heights Water - System ID#32300L**  
PO Box 820, Vashon, WA 98070  
Office/Information - 206.463.0014  
Emergency (24/7) - 206.529.7864  
info@heightswater.org  
www.heightswater.org

**Board of Trustees**  
Dave Lang - President  
Len Wolff – Vice President  
Earl Westfall – Treasurer  
Jim Chun – Secretary  
Luke McQuillin - Trustee

**Staff**  
Margaret Wessel - General Manager  
Brent Millett - Operations Supervisor  
Ryan McCray - Water System Operator

**Heights Water's mission** is to provide our customers with safe and reliable drinking water. This annual Consumer Confidence Report is intended to provide current, factual information about your drinking water. We are pleased to report that our drinking water meets all Federal and State requirements.

**Annual Membership Meeting:** Heights Water's annual membership meeting is the fourth Tuesday of September. Please call the business office for time and location.

**Drinking water sources:** Heights Water draws groundwater from spring wellpoints and a well field located in northeastern Vashon Island. The only treatment is the addition of chlorine.

Heights Water routinely monitors for constituents in your drinking water according to Federal and State laws. The water quality information presented in the table on the next page shows the most recent result for detected constituents. All water samples shown were collected during the last calendar year unless otherwise noted in the table. This report shows the results of testing for the period of January 1 through December 31, 2018.

**Source protection information:** The Department of Health has compiled Source Water Assessment Program (SWAP) data for all community public water systems in Washington at <http://www.doh.gov/ehp/dw/sw/assessment.htm>. A source water protection plan is available at the Heights Water business office.

**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 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).

**Immuno-compromised persons** - Some people may be more vulnerable to contaminants 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 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).

Globally, 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 ground surface or through soil and rock, 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 ensure that tap water is safe to drink**, the EPA prescribes regulations that 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.

For a complete report of all constituents tested, call Heights Water at 206-463-0014.

**HEIGHTS WATER ANALYSIS OF TREATED WATER FOR HEALTH RELATED AND AESTHETIC CONSTITUENTS**  
*Only detected constituents are listed. All other constituents tested were not detected (ND).*

CONSTITUENTS Test Year	UNIT	LIMIT/ MCL	SPRING WELLPOINTS Source 8 (SO 9,10)	WELL FIELD Source 5 (SO2,3,4)	IN COMPLIANCE	TYPICAL SOURCE OF CONTAMINANT
<b>ANIONS &amp; CATIONS</b>						
Calcium-Ca 2010	mg/l	-	21	23	Yes	
Chloride-Cl 2013	mg/l	250	5.0	ND	Yes	Erosion of natural deposits
Hardness-CaCO <sub>3</sub> 2013	mg/l	-	103	110	Yes	
Magnesium-Mg 2009	mg/l	-	13	12	Yes	
Nitrate-NO <sub>3</sub> 2018	mg/l	10	1.69	2.08	Yes	Erosion of natural deposits
Sodium-Na 2013	mg/l	-	8.10	6.8	Yes	
Sulfate-SO <sub>4</sub> 2013	mg/l	250	15	ND	Yes	Erosion of natural deposits
<b>RADIONUCLIDES</b>						
Radium 228 2015	pCi/l	5	ND	1.0	Yes	Radioactive decay of uranium and thorium in rocks and soil
Gross Alpha 2018-(SO5 only)	pCi/l	15	2.20 (2015)	ND	Yes	Found naturally in rocks and minerals
<b>VOLATILE ORGANIC CHEMICALS</b>						
THMs – Trihalomethanes 2018	µg/l	80	11.4	11.4	Yes	By-product of chlorine used to disinfect water
HAAs - Haloacetic acids 2018	µg/l	60	ND	ND	Yes	By-product of chlorine used to disinfect water

**2018 MICROBIOLOGICAL:**

Number of Test results indicating contamination: Total Coliform Bacteria greater than 5% (naturally present in environment) = 0, Fecal Coliform Bacteria = 0 E.Coli = 0

**2018 HERBICIDES:** All tested compounds = ND

**DEFINITION OF TERMS:**

SO	Water source number
mg/l	Milligrams per liter - same as parts per million or ppm
MCL	Maximum Contaminant Level – 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.
µg/l	Micrograms per liter
ND	Not detected
NA	Not available

## 2018 Water Use Efficiency Report

Heights Water’s non-revenue water loss for 2018 is calculated to be 17.3%, an increase of 3.9% from 2017. The increase in unaccounted-for water in 2018 compared to 2017 can be attributed to several leaks in the system during 2018, including three that prompted a partial main replacement. Because the percentage of non-revenue water continues to exceed the Department of Health’s recommended target loss of less than 10%, Heights Water has undergone several tasks to determine the cause(s) for the variance: enhanced the telemetry system, assessed billing data for accuracy, completed annual AWWA audit, randomly checked service meters for accuracy, repaired all known leaks, replaced production meters, reviewed loss data with Evergreen Rural Water of Washington, and continued to evaluate production compared to usage for the water system.

The above and the following strategies are part of Heights Water’s continued effort to reduce non-revenue water loss to less than 10% by the end of 2020: complete annual AWWA water audit, continue proactively replacing aging mains and meters, test certain customer meters to verify accuracy, implement engineer’s design to reduce system pressure, analyze the use and cost of strategically located meters along the distribution system, continue leak detection program, and verify of the accuracy/calibration of production meters.