



Annual Water Quality Report for Stevens P.U.D.

April, 2018

Water Quality Information for Mission Ridge Water System (LUD 24)

A pipeline has been constructed to the Mission Ridge Water System from the City of Kettle Falls. The P.U.D. will continue to own and operate your Water System. The quarterly arsenic samples are now BELOW the Maximum Level of 10 ppb since this pipeline has been installed! Thank you for your patience !

Each well is assigned a number, i.e., S01, S05, or S10. The source of water for your water system is groundwater from FOUR wells.

This Table lists only those substances that were detected during 2017.

Substance in Units	Date of Sample	Well or Other Test Results	SRL	MCL	Comply with Standards?	Likely Sources of Substances/Comments
Arsenic (ppb)	Jan-Dec 2017	Blended sample of Kettle Falls Water and Water from S02 at the Booster Pump - 11 samples were taken, Ranging results are from 4 – 8 ppb. You are receiving ONLY the Blended Water. Samples taken directly for S02 – 6 samples taken throughout the year, results ranging from 7 to 18 ppb. **	1.0	10	Yes, after improvements. Quarterly samples are still being taken.	Natural deposits; runoff from orchards or glass & electronics production wastes. After the Kettle Falls intertie the Arsenic levels are now below the 10 ppm. The most recent test in 2017 shows only 4ppb of arsenic!
Nitrate (ppm)	01/25/2017	S02 = 0.321 (blended sample)	0.5	10	Yes	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Radium 228 (pCi/L)	05/18/2017	S03 = 1.17±0.386	0.5	5	Yes	Erosion of natural deposits.
Radium 226 (pCi/L)	05/18/2017	S03=0.227±0.0666				
Total Haloacetic Acid (HAA5) (ppm)	08/08/2017	Non Detect	---	60	Yes	HAA5 is a disinfection by-product
Total Trihalomethanes (TTHM) (ppm)	08/08/2017	1.27	---	80	Yes	TTHM is a disinfection by-product.

** These samples taken in 2017 are over the MCL standards set by the EPA. *However, you are receiving ONLY the Blended Water.* There is a small chance that some people who drink water containing low levels of arsenic for many years could develop circulatory disease, cancer, or other health problems. Most types of cancer and circulatory disease are due to factors other than exposure to arsenic. EPA’s standard balances the current understanding of arsenic’s health affects against the cost of removing arsenic from drinking water. **The Mission Ridge Water System’s Arsenic levels have greatly been reduced and has brought the results within the DOH standards for drinking water.**

On August 8, 2017 there was one unsatisfactory Bacteria sample. On 8/10/2017 four (4) repeat Bacteria samples were taken which were all satisfactory. The Stevens PUD completed a RTCR Level 1 Assessment and submitted this assessment to the Department of Health as required.

Glossary of Terms

<p>MCL Maximum Contaminant Level – the “maximum allowed” is the highest level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment.</p>	<p>ppb Parts per Billion (or micrograms per liter - ug/L) – one part per billion corresponds to one minute in 1,900 years, or a single penny in \$10,000,000.</p>	<p>ppm Parts per Million (or milligrams per liter - mg/L) – one part per million corresponds to one minute in 1.9 years, or a single penny in \$10,000.</p>	<p>SRL SRL = State Reporting Level. A lower amount set by Washington State for reporting purposes only.</p>	<p>pCi/L Picocuries per liter - is a measurement of radioactivity in water.</p>
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