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## The Sources of Your Supply

In 2017, system source water was supplied by four (4) wells at three (3) different well sites, located within the service area. Summit Water also has an inter-tie with the Lakewood Water District providing water to our system. The total water pumped from Summit Water sources was 325 million gallons with an additional 355 million gallons purchased by wholesale agreement with Lakewood Water District. The current contract limit for the transfer of wholesale water is 2.0 million gallons per day.

## Water Use Efficiency Program

In September 2014, Summit Water advertised and held a public meeting to establish Water Use Efficiency goals as outlined by the State Health Department. Two of the goals that were set at this meeting were to reduce our average Maximum Day Demand (MDD) per users by at least 0.25% based on a six-year rolling average and to reduce our distribution system leakage to 10% or less based on a three-year rolling average. Our goal for 2017 was to have reduced our MDD per users to at least 540.8 gallons per day (gpd). Our actual MDD per users for 2017 was 545.7 gallons per day, which did not meet our established goal for 2017. Total water produced/purchased for 2017 was 679,808,144 gallons while metered/accounted for water for the same period was 594,649,200. This resulted in a "Distribution System Leakage" (DSL) or unaccounted for water loss of 12.5% (85,158,944 gallons) for 2017 compared to 11.9% (85,103,888 gallons) for 2016. Based on our average distribution leakage for 2015 (9.8%), 2016 (11.9%) and 2017 (12.5%) our three-year rolling distribution system leakage average is 11.4%.

## Drinking Water Quality

This is the 19th report describing Summit Water & Supply Company's (Summit Water) drinking water sources, quality testing, and programs that protect the quality of the water supply. This publication conforms to a federal regulation requiring water utilities to **provide this information annually**. The last report was provided to the members and customers in March of 2017. Although the report format may look the same as prior reports there is specific information and statements required by statute. This report covers the year 2017. The report's due date for delivery to every consumer of water delivered by the Summit Water system is July 1 of each year.

The United States Environmental Protection Agency (EPA) and the Washington Health Department's Drinking Water Program Division (DOH) are the agencies responsible for establishing drinking water quality standards. To ensure your tap water is safe to drink, EPA and DOH prescribe regulations stating the allowable limit for specific contaminants the water may contain. We make an effort to balance your "right to know" against the

sheer volume of information that we can provide. Our website provides a method to get information out in a cost effective way. Summit Water goes beyond what is required by these agencies to provide quality water to your home or business, through increased monitoring and placing into practice protection methods that further reduce the risk of contamination.

Water quality monitoring reports are submitted, by Summit and also directly from the testing laboratory, to the DOH who then provides the information to the EPA. The agencies verify our compliance with the many regulatory standards and testing protocols required to assure safe drinking water. **For this reporting period in 2017, the water we provided met the established Maximum Contaminant Level (MCL) water quality standards.**

## Safe Drinking Water Hotline

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 Hotline (1-800-426-4791).

## Immuno-compromise people

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 and the federal Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline (1-800-426-4791) between the hours of 6 a.m. and 2 p.m. Pacific Time.

## Chlorine Disinfection By-Products

Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5) are a family of chemicals formed when a disinfectant such as chlorine is added to the water supply. The maximum level permitted for TTHM is 80 parts per billion (ppb) and for HAA5 the maximum level is 60 ppb. Disinfection is an important and necessary step in the supply of tap water, to protect against harmful bacteria and other living organisms that may contaminate the water. Chlorine is the most widely used and approved disinfectant in the United States. Summit Water uses chlorine in a gaseous form, for the disinfection of the water supply. There are no contaminants of the water supply coming from the wells. The primary purpose for chlorine addition is for potential contamination of the water distribution system (water mains) up to your meter.

# Summit Water & Supply Company's 2017 CONSUMER CONFIDENCE REPORT

## ABOUT SUMMIT WATER

We are a member owned, "not-for-profit" corporation, "Group A" water system (State of Washington Department of Health identification #85050V). The services of the corporation are provided to the residence, businesses, public entities and other organizations located in the greater Summit/Waller area of Pierce County. There are approximately 5,150 members. The corporation's articles of incorporation and By-laws along with federal, state and local regulations govern the operation of the company.

The Board of Directors meet twice a month and receives member comments. Summit Water will be glad to provide you additional information about water quality, and you may write, call, e-mail, or drop by at 9701 50th Ave. East, Tacoma, WA. 98446-5444, (253-537-7781), service@summitwater.org. For more information about the health effects of the listed contaminants in the material provided in this report, call the Environmental Protection Agency hotline at (800) 426-4791.





IMPORTANT DEFINITIONS

- **Maximum Contaminant Level (MCL).** The highest level of a contaminant that is allowed in drinking water.
- **Maximum Contaminant Level Goal (MCLG).** The level of a contaminant in drinking water below which there is no known or expected risk to health.
- **Secondary Maximum Contaminant Level (SMCL).** These standards are developed as guidelines to protect the aesthetic qualities of drinking water and are not health based.
- **Treatment Technique.** If a contaminant exceeds the maximum contaminant level, EPA may require the water system to use a treatment technique. A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
- **Action Levels.** An Action Level is the concentration of a contaminant, which triggers treatment or other requirements, which a water system must follow.
- **Part per million; part per billion.** One part per million is the equivalent of ½ of a dissolved aspirin tablet in a full bathtub of water (approximately 50 gallons). One part per billion is equivalent to ½ of a dissolved aspirin tablet in 1,000 bathtubs of water (approximately 50,000 gallons).

OTHER THINGS TO KNOW

Chlorine residuals are maintained throughout the distribution system, and sampling is performed daily to ensure the water has the recommended residual. Certified personnel monitor the chemical addition to the water at the well sites. They also perform on-site tests and collect samples including, but are not limited to, the following:

Daily:	Chlorine residuals, pH, and temperature
Semi-Monthly:	Bacteria (total coliform)
Annually:	Nitrates
EPA directed: (three year cycle)	Inorganic, volatile organic contaminants, synthetic organic contaminants, radioactivity, lead, copper, and arsenic

All new construction and repair work performed on the water system infrastructure is treated with chlorine. The water is tested for water purity, by a state approved laboratory, prior to these facilities providing water to you the consumer.

EPA states “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 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 that may be present in source water include:

- **Microbial contaminants**, such as viruses 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 storm water 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 storm water runoff, and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are byproducts 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.”

Measurements

Water is sampled and tested throughout the year. Contaminants are measured in parts per: million (ppm), billion (ppb), trillion (ppt) and even parts per quadrillion (ppq).

Additional Water Quality Information

All samples taken at our source wells and throughout our system tested below the minimum levels acceptable to the EPA and the DOH. Wells are also the source of water for the Lakewood Water District (LWD) system. Water purchased from LWD is supplied to Summit Water at a higher level of chlorine residual than what is normally maintained on our system. The blending of the water supplies from the two water systems results in water characteristics, which are not uniform throughout the Summit Water distribution system. This is most noticeable in the Waller Road area.

Source Protection

For the past 23 years, Summit Water & Supply has continued its development and implementation of a cross-connection control program. This program meets the state cross-connection control regulations. We continue to work closely with the health department and the property owners in our wellhead areas so that everyone works toward protecting this resource. Prudent chemical application practices and disposal methods, will keep your groundwater resource pristine. If you observe evidence of the dumping or abandonment of potential contaminants, **you should report it immediately to the Tacoma-Pierce County Health Department.**

Summit Water's current cross-connection policy "6.12(R7) Cross-Connection Control Program Policy and Procedures" requires that a premise isolation backflow assembly (assembly) be installed on all new connections to the water system. Premise isolation is defined as a method of protecting a public water system by installation of approved air gaps or approved backflow prevention assemblies at or near the service connection or alternate location acceptable to the purveyor to isolate the customer's water system from the purveyor's distribution system. Activities occurring on or to a property served by Summit Water that require the installation of an assembly are based on, but not limited to; sale of a property (processed with or without escrow), transfer of ownership, change of use of a property, remodeling or additions to a structure, landscaping improvements, irrigation installations, water service reactivation, water line modifications/replacement and/or inspections as may be conducted by qualified Summit Water personnel.

Water Quality Monitoring Results

Summit Water collected approximately 210 water samples in 2017 from at the sources and throughout the water system. A certified laboratory conducted the analyses on those samples. The results are on file with the Washington Health Department's Drinking Water Program Office and the EPA.

The table below lists drinking water contaminants that were detected during the calendar year of this report. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk.

All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water and in most cases, removing them would not provide increased protection of public health.

CONTAMINANTS	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL DETECTED	IDEAL GOALS (MCLG)	POTENTIAL SOURCE OF CONTAMINANTS
REGULATED AT THE SOURCES				
Nitrate	10ppm	3.4ppm	10ppm	Runoff from fertilizer/septic and erosion of natural deposits
CONTAMINANTS	HIGHEST LEVEL ALLOWED (SMCL)	HIGHEST LEVEL DETECTED		POTENTIAL SOURCE OF CONTAMINANTS
REGULATED AT THE SOURCES (Secondary)				
Iron	0.3ppm	1.5ppm		Released to water from erosion of soils and/or dissolved minerals
Manganese	0.05ppm	0.17ppm		Released to water from erosion of soils and/or dissolved minerals
CONTAMINANTS	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL DETECTED	IDEAL GOALS (MCLG)	POTENTIAL SOURCE OF CONTAMINANTS
REGULATED AT THE DISTRIBUTION SYSTEM				
Total Haloacetic Acids	60ppb	8.7ppb	0	By-product of drinking water disinfection
TTHM Potential	80ppb	6.3ppb	0	By-product of drinking water disinfection
Total Coliform Bacteria	> 5% of monthly samples	0.00%	0%	Naturally present in the environment

LAKEWOOD WATER DISTRICT (THROUGH WHOLESALE INTER-TIE)

The items listed below are the highest levels detected in the Lakewood Water District's water for the monitoring period of January 1st to December 31st, 2017. Not listed are those volatile organic chemicals, synthetic organic chemicals and herbicides that were not detected

2017					
MICROBIOLOGICAL CONTAMINANTS	VIOLATION	UNIT OF MEASUREMENT	MCLG	MCL	POTENTIAL SOURCE OF CONTAMINANT
Total Coliform Bacteria	No	70 samples/monthly	0	0	Naturally present in the environment
Fecal Coliform and <i>E.coli</i>	No	70 samples/monthly	0	0	Human/animal fecal waste
INORGANIC CONTAMINANTS		HIGHEST LEVEL DETECTED			
Nitrate	No	2.2ppm	10ppm	10ppm	Fertilizer runoff; leaching from septic tanks; erosion of natural deposits
VOLATILE ORGANIC CONTAMINANTS					
Total Haloacetic Acid	No	Not Detected	60ppb	60ppb	By-product of drinking water disinfection
Trihalomethane Potential	No	6.2ppb	80ppb	80ppb	By-product of drinking water disinfection
Chloroform	No	1.3ppb	0	N/A	By-product of drinking water disinfection
Bromodichloro-methane	No	1.9ppb	0	N/A	By-product of drinking water disinfection
Chlorodibromo-methane	No	2.2ppb	0	N/A	By-product of drinking water disinfection
Bromoform	No	0.8ppb	0	N/A	By-product of drinking water disinfection

For a complete copy of Lakewood Water’s CCR, please visit Lakewood Water’s website at <http://www.lakewood-water-dist.org>.