2015 TULALIP UTILITIES AUTHORITY CONSUMER CONFIDENCE REPORT



CONTACT INFORMATION:

Please contact the numbers listed below if you would like more information about this report or for any questions related to your drinking water.

EPA's Hotline: 1 - 800 - 426 - 4791 Tulalip Utilities (360) 716 - 4840 TUA Fax: (360) 651 - 4612

Gus Taylor (360) 716 - 4011 Clifford Jones (360) 716 - 4840

Is my water safe?

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA) this report is designed to provide details about where you water comes from, what it contains and how it compares to standards set by regulatory agencies. This report is a snapshot of last years water quality. We are committed to providing you with information because informed customers are our best allies.

How can I get involved?

At this time we do not hold public meetings on a regular basis. You may contact our office at 360-716-4840 for any inquiries questions or concerns that you may have.

Is it ok to drink water from a garden hose?

During the summer heat, you are more prone and inclined to drink more fluids and water. However if you are out side and decide to drink water from your garden hose, you should take the time to reconsider. Many hoses are made of PVC, a material that uses lead as a stabilizer. When water settles in these lead based hoses the concentration of lead increase 10 to 100 times there allowable limit set by the environmental health agency. However, you can purchase lead free hoses from your local store. Make sure that they state, "drink-safe", or, "safe for potable water" or "lead-free". This indicates that they are plated with nickel as opposed to lead.

*Lead poisoning interferes with a variety of body processes and is very toxic to many of our organs and tissues. It interferes with the development of Our nervous system, thus is very harmful to the developmental process of our children so be sure to purchase hoses that will be safe for them play in and drink water from.

Why are there contaminants in my 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency (EPA) Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap 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 and, in some cases radioactive material and substances resulting from the presence of animals or from human activity: microbial contaminants such as viruses and bacteria that 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 productions, mining, or farming; pesticides and herbicides which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses; 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 run-off and septic systems.

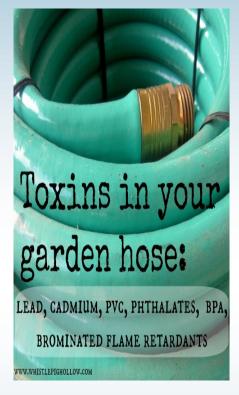
In order to ensure that tap water is safe to drink the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems (PWS). Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

How can I help conserve water?

The average U.S household uses approximately 400 gallons of water per day or 100 gallons per person per day. There are many low-cost and no-cost ways to conserve water. Small changes can make a big difference! There are many ways in which you can help to conserve water:

- Take short showers— a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month
- Use a water-efficient showerhead. They are inexpensive, easy to install and can save up to 750 gallons a month
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month
- Water plants only when necessary
- The average car wash uses over 30 gallons of water
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing you have a leak. Fixing it or replacing with a new model can save up to 1,000 gallons a month
- Adjust sprinklers so only your lawn and flowers are watered. Apply water only as fast as the soil can absorb it and only water during the
 coolest parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure future generations use water wisely. Make it a family effort to reduce your water bill!
- Visit www.epa.gov/watersense for more information





Do I need to take special precautions?

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 organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa.gov/drink/hotline

How is my water treated?

Your water is treated by disinfection. Disinfection involves the addition of chlorine or other disinfectant to kill dangerous bacteria and microorganisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

How much water is used in a typical shower?

The Federal Energy Policy Act (FENPA) set a nationwide regulation that limits shower-heads to a maximum flow of 2.5 gallons per minute (GPM). Shower-heads made before 1980 are rated at 5 GPM. Since the average shower is estimated to last 8.2 minutes, the old shower-heads use 41 gallons of water while the newer, low-flow shower-heads use only about 21 gallons.

How many contaminants are regulated in drinking water?

The U.S. EPA regulates over 80 contaminants in drinking water. Some states may choose to regulate additional contaminants or to set stricter standards, but all states must have standards at least as stringent as the U.S. EPA's. Each well site has there own set of standards and regulations that are imposed and carefully supervised year round.

Where can I find source water assessment and its availability?

You may contact Tulalip Utilities at 360-716-4840 to inquire about this information.

How can I help protect our valuable source water?

Protection of drinking water is everyone's responsibility. There are a number of ways in which you can help to protect your communities water source:

- Eliminate excess use of lawn and garden fertilizers and pesticides
 – they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public sewer system
- Dispose of chemicals properly; take used motor oil to a recycling center
- Volunteer in your community. Find a watershed or wellhead protection organization in your community or visit the Watershed Information Networks How to Start a Watershed Team.
- Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to street drains reminding people "Dump No Waste— Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

Why do I get this report every year?

Community water system operators are required by Federal law to provide their customers an annual water quality report. The report helps people make informed choices about the water they drink. It lets people know what contaminants, if any, are in their drinking water and how these contaminants may affect their health. It also gives the system operators a chance to tell customers what it takes to deliver safe drinking water.

"It is our goal to provide adequate safe drinking water for everyone in our community."

DELIA JIMICUM #105300135										
Contaminants	Collection date	Highest level detected	Range of levels detected	MCLG	MCL	Violation	Likely source of contaminants			
DISINFECTANTS & DISINFECTANT BY-PRODUCTS										
(THERE IS EVIDENCE	(THERE IS EVIDENCE THAT ADDITION OF A DISINFECTANT IS NECESSARY FOR CONTROL OF MICROBIAL CONTAMINANTS)									
Chlorine (ppm)	2015	0.7	0.6- 0.7	MRDLG=	MRDL=	NO	Water additive used to control microbes			
Total Trihalomehanes (ppb)	2015	2.5	2.5 - 2.5	No goal for total	80	NO	By-product of drinking water disinfection			
	INORGANIC CONTAMINANTS									
Arsenic (ppb)	2013	4	4 - 4	0	10		Erosion of natural deposits; Run-off from orchards; Run-off from glass and electronics production wastes.			
Barium (ppm)	2013	0.008	0.008 - 0.008	2	2		Discharge of drilling wastes and metal refineries; Erosion of natural deposits.			
Chromium (ppb)	2013	4	4 - 4	100	100	NO	Discharge from steel and pulp mills; erosion of natural deposits.			
Nitrate (ppm)	2015	2	1.87 - 1.87	10	10		Run-off from fertilizer use; leaching from septic tanks, sewage. Erosion of natural deposits			
				RADIO	ACTIVE (CONTAMI	NANTS			
Combined Radium 226/228 (pCi/L)	0	5	1.5	0	5	2013	Erosion of natural deposits			
	INORGANIC CONTAMINANTS									
Contaminants	Collection date	MCLG	Action level (AL)	90th percentile	# Sites over AL	Violation	Likely source of contaminants			
Copper (ppm)	2015	1.3	1.3	.221	0		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.			

Monitoring and reporting of compliance data violations

Violation: On September 16 we failed to collect within 24 hours the required number of repeat samples for a bacteriological sample, which was collected on September 16, 2015, that came back with total coliform (TC) present. One repeat sample was collected on September 17, 2015 which is the day the lab reported the results to us. There should have been three additional repeat samples collected on this day as well. On September 18, 2015 we received the results for the test from the lab and the samples came back with no presence of TC. In June 2015 an additional five repeat samples were collected throughout the month and all five samples came back good with no presence of TC. All prior and subsequent tests since September 16, 2015 have all been good.

	ASPEN ESTATES #105300140										
Contaminants	Collection Date	Highest level detected	Range of levels detected	MCLG	MCL	Violation	Likely source of contaminants				
	DISINFECTANTS & DISINFECTANT BY-PRODUCTS										
(THERE IS EVIDENCE	THERE IS EVIDENCE THAT ADDITION OF A DISINFECTANT IS NECESSARY FOR CONTROL OF MICROBIAL CONTAMINANTS)										
Chlorine	2015	0.6	0.6 - 0.6	MRDLG=	MRDL=	NO	Water additive used to control microbes				
Haloacetic Acid (ppb)	2015	17	4.4 - 23.9	No goal for total	60	NO	By-product of drinking water disinfection				
Total Trihalomethanes (ppb)	2015	49	44.7 - 55.3	No goal for total	80	NO	By-product of drinking water disinfection				
	INORGANIC CONTAMINANTS										
Nitrate (ppm)	2015	1	0.64 - 1.2	10	10		Runoff from fertilizer use; leaching from septic tanks , sewage; erosion of natural deposits				
				INORG	SANIC C	ONTAMI	NANTS				
Contaminants	Collection Date	MCLG	Action level (AL)	90th percentile	# Sites over AL	Violation	Likely source of contaminants				
Copper (ppm)	2015	1.3	1.3	.196	0		Erosion of natural deposits; Leaching from wood preservatives; corrosion of household plumbing systems.				
Lead (ppb)	2015	0	15	7	0	NO	Corrosion of household plumbing systems; Erosion of Natural deposits				

DELIA JIMICUM

12 residential connections serving approximately 42 people. The water is supplied by one ground water well, with a 2000 gallon capacity storage tank. Water production is estimated at 4,200 gals/day.

ASPEN

189 connections serving approximately 600 persons. The Aspen water system is a consecutive community water system. The water is supplied by surface water from Quil Ceda Village PWS # 105300116. Storage is provided by a 119,000 gallon above ground concrete tank. Production is typically 177,600 gals/day.

Madison Estates #105300144											
Contaminants	Collection Date	Highest level detected	Range of levels detected	MCLG		Violation	•				
DISINFECTANTS & DISINFECTANT BY-PRODUCTS											
HERE IS EVIDENCE THAT ADDITION OF A DISINFECTANT IS NECESSARY FOR CONTROL OF MICROBIAL CONTAMINANTS)											
Chlorine (ppm)	2015	0.7	0.6 - 0.7	MRLDG= 4	MRDL=	NO	Water additive used to control microbes				
Total Trihalomethanes(ppb)	2015	6	6 - 6	No goal for total	80	NO	By-product of drinking water disinfection				
INORGANIC CONTAMINANTS											
Arsenic (ppb)	2013	5	5 - 5	0	10		Erosion of natural deposits; Run-off from orchards; Run-off from glass and electronics production wastes.				
Barium (ppm)	2013	0.009	0.009 - 0.009	2	2		Discharge of drilling waste; discharge of metal refineries and erosion of natural deposits				
Chromium (ppb)	2013	4	4 - 4	100	100	NO	Discharge from steel and pulp mills; erosion of natural deposits.				
Nitrate (ppm)	2015	0.41	0.41 - 0.41	10	10		Runoff from fertilizer use; leaching from septic tanks , sewage; erosion of natural deposits				
			RA	DIOACTIV	E CONTA	MINANTS	3				
Beta/photon Emitters (mrem/yr)	2013	1.95	1.95 - 1.95	0	4		Decay of natural and man-made deposits				
INORGANIC CONTAMINANTS											
Contaminants	Collection Date	MCLG	Action level (AL)	90th percentile	# Sites over AL	Violation	,				
Copper (ppm)	2015	1.3	1.3	.529	0		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.				

			Ti	ulare Estat	es #1053	00155				
Contaminants	Collection Date	Highest level detected	Range of levels detected	MCLG	MCL	Violation	Likely source of contaminants			
			DISINFECTA	NTS & DISI	NFECTAN	IT BY-PRO	DDUCTS			
(THERE IS EVIDENCE THAT ADDIT	ION OF A	ISINFECTAN	T IS NECESSAR	Y FOR CON	ITROL OF	MICROB	IAL CONTAMINANTS)			
Chlorine (ppm)	2015	0.7	0.4 - 0.7	MRDLG= 4	MRDL= 4	NO	Water additive used to control microbes			
Haloacetic Acids (ppb)	2013	4.7	4.7 - 4.7	No goal for total	60	NO	By-product of drinking water chlorination			
Total Trihalomethanes (ppb)	2013	17.3	17.3 - 17.3	No goal for total	80	NO	By-product of drinking water chlorination			
	INORGANIC CONTAMINANTS									
Arsenic (ppb)	2015	2	2 - 2	0	10	NO	Erosion of natural deposits; Run-off from orchards; Run-off from glass and electronics production wastes.			
Barium (ppm)	2015	.006	.006006	2	2	NO	Discharge of drilling waste; discharge from metal refineries: Erosion of natural deposits			
Fluoride (ppm)	2015	.13	.1313	4	4.0	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories			
			RA	DIOACTIVE	CONTAI	IINANTS				
Combined Radium 226/228 (pCi/L)	2014	1.5	1.5 - 1.5	0	5		Erosion of natural deposits			
			IN	ORGANIC (CONTAMI	NANTS				
Contaminants	Collection Date	MCLG	Action level (AL)	90th percentile	# Sites over AL	Violation	Likely source of contaminants			
Copper (ppm)	2014	1.3	1.3	.063	0	NO	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.			
Lead (ppb)	2014	0	15	2	0	NO	Corrosion of household plumbing systems; Erosion of Natural deposits			

MADISON ESTATES

25 water connections serving approximately 86 persons. The water is supplied by one ground water well with an above ground concrete storage tank with a capacity of 29,000 gallons. Average production is estimated at 9,636 gals/day.

TULARE

12 connections serving approximately 35 persons. Water is supplied by one ground water well with an above ground concrete storage tank with a capacity of 15,000 gallons. Typical water production is estimated to be approximately 3,833 gal/day.

Monitoring and reporting of compliance data violations

Violation: Follow-up or routine tap M/R (LCR): We failed to test our drinking water for lead and copper samples were taken in 2014. None of these samples were above or near the AL. Samples for lead and copper will be collected summertime 2016. All previous lead and copper samples have come back with no homes at or near the AL of 15 ppb.

Violation: On May 28, 2015 we failed to collect within 24 hours the required number of repeat samples for a bacteriological sample, which was collected on May 27, 2015, that came back with total coliform (TC) present. One repeat sample was collected on May 28, 2015 which is the day the lab reported the results to us. The next day four samples were taken, unfortunately at the times they were just outside of the 24 hour period. All of these samples came back good with no presence of TC. In June 2015 five additional samples were taken throughout the month all of which came back with no presence of TC.

TULALIP BAY #105300003										
Contaminants	Collection Date	Highest level detected	Range of levels detected	MCLG	MCL	Violation	Likely source of contaminants			
DISINFECTANTS & DISINFECTANT BY-PRODUCTS										
(THERE IS EVIDENCE THAT ADDITION OF A DISINFECTANT IS NECESSARY FOR CONTROL OF MICROBIAL CONTAMINANTS)										
Chlorine (ppm)	2015	0.8	0.7 - 0.8	MRDLG=	MRDL=	NO	Water additive used to control microbes			
Haloacetic Acids (ppb)	2015	32	5 - 34.6	No goal for total	60	NO	By-product of drinking water chlorination			
Total Trihalomethanes (ppb)	2015	33	7.5 - 40.3	No goal for total	80	NO	By-product of drinking water disinfection			
	INORGANIC CONTAMINANTS									
Arsenic (ppb)	2010	2	2 - 2	0	10		Erosion of natural deposits; Run-off from orchards; Run-off from glass and electronics production wastes.			
Barium (ppm)	2010	0.014	0.014 - 0.014	2	2		Discharge of drilling wastes and metal refineries; Erosion of Natural deposits.			
Chromium (ppb)	2010	3	3 - 3	100	100	NO	Discharge from steel and pulp mills; erosion of natural deposits.			
Nitrate (ppm)	2015	1	0.78 - 1.41	10	10		Run-off from fertilizer use; leaching from septic tanks , sewage. Erosion of natural deposits			
INORGANIC CONTAMINANTS										
Contaminants	Collection Date	MCLG	Action level (AL)	90th percentile	# Sites over AL	Violation	Likely source of contaminants			
Copper (ppm)	2015	1.3	1.3	0.425	0	NO	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.			
Lead (ppb)	2015	0	15	1	0	NO	Corrosion of household plumbing systems; Erosion of Natural deposits			

				IOHN	SAM LAK	E #10520	1000
				JOHN	SAW LAN	(E #1055)	10030
Contaminants	Contaminants Collection Highest level Ran Date detected Co		Range of levels detected	MCLG	MCL	Violation	Likely source of contaminants
	,		DISINF	ECTANT	BY-PRODUCTS		
(THERE IS EVIDENCE	THAT ADI	DITION OF A	DISINFECTANT I	S NECESS	SARY FOR	R CONTR	OL OF MICROBIAL CONTAMINANTS)
Chlorine (ppm)	2015	0.8	0.6 - 0.8	MRDLG= 4	MRDL= 4	NO	Water additive used to control microbes
Total Trihalomethanes (ppb)	2015	2.1	2.1 - 2.1	No goal for total	80	NO	By-product of drinking water disinfection
				INORG	ANIC CO	NTAMINA	ANTS
Arsenic (ppb)	2013	1	1 - 1	0	10		Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium (ppm)	2013	.0024	.00240024	2	2		Discharge of drilling waste; discharge of metal refineries and erosion of natural deposits
Chromium (ppb)	2013	4	4 - 4	100	100	NO	Discharge from steel and pulp mills; erosion of natural deposits.
Nitrate (ppm)	2015	3	3.03 - 3.03	10	10		Runoff from fertilizer use; leaching from septic tanks , sewage; erosion of natural deposits
				RADIOA	CTIVE C	ONTAMIN	IANTS
Combined radium 226/228 (pCi/L)	2012	1.5	1.5 - 1.5	0	5	NO	Erosion of natural deposits
		1		INORG	ANIC CO	NTAMINA	ANTS
Contaminants	Collection Date	MCLG	Action level (AL)	90th percentile	# Sites over AL	Violation	Likely source of contaminants
Copper (ppm)	2015	1.3	1.3	.23	0		Erosion of natural deposits; Leaching from wood preservatives; Corrosion household plumbing systems.
Lead (ppb)	2015	0	15	1	0	NO	Corrosion of household plumbing systems; Erosion of natural deposits

TULALIP BAY

Water for the Tulalip Bay water system is obtained from Quil Ceda Village (QCV). QCV obtains the water through a six inch and 18 inch metered connections to the city of Marysville. The city of Marysville purchases it's water from the city of Everett. The water source is Spada Lake, 30 miles east in the Cascade Mountains, Edward Springs, Stillaquamish/ Ranney well and Lake Goodwin. The city of Marysville is able to isolate a portion of their water system to supply Quil Ceda Village, Aspen and Tulalip Bay water systems with only water from the city of Everett Spada Lake source. Tulalip Bay system serves approximately 5449 persons and has approximately 1564 residential and 97 non residential connections. Typical demand is .6 MGD and peak demand is approximately 1.0 MGD. Disinfection is supplied by the city of Everett. Everett maintains a 1.0 mg/l fluoride concentration in the water supplied to the Tulalip Bay system.

JOHN SAM LAKE

48 residential connections serving approximately 168 persons. The water is supplied by one groundwater well with an above ground concrete storage with a capacity of 39,000 gallons of water. Water Production is estimated at approximately 11,400 gals/day.

ADDITIONAL INFORMATION FOR LEAD:

If present elevated lead levels can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Tulalip Utilities Authority is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours you can minimize your lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water you may wish to have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water hotline or at:: http://www.epa.gov/safewater/lead.

IMPORTANT DRINKING WATER TERMS & DEFINTIONS

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 and are non-enforceable public health goals.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Residual Disinfectant Level Goal (MRDLG) - 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.

Maximum Residual Disinfectant Level (MRDL) - 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

TOTAL COLIFORM (TC): A group of bacteria commonly found in the environment, for example in soil or vegetation, as well as the intestines of mammals, including humans. Total coliform bacteria are not likely to cause illness, but their presence indicates that your water supply may be vulnerable to contamination by more harmful microorganisms.

WQMP - water quality monitoring plan

N/A - not applicable

ACTION LEVEL (AL) - The concentration of a contaminant that, if exceeded triggers treatment or other requirements that a system must follow.

UNIT DESCRIPTIONS TERMS AND DEFINITIONS:

ppm: parts per million, or milligrams per liter (mg/L)- One part substance per million parts water. **ppb**: parts per billion, or micrograms per liter (ug/L)- One part substance per billion parts water

pCi/L: Picocuries per Liter- A measure of radioactivity

mrem/yr: millirems per year- A measure of radiation absorbed by the body

MGD: million gallons per day

