EXPLANATIONS

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

If present, elevated levels of lead 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. Highland Water District 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 the potential for 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.

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Please call our office if you have questions. We at Highland Water District work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.



CONSUMER CONFIDENCE REPORT FOR 2010

CONTACT INFORMATION

If you have any questions about this report or concerning your water utility, please contact Robert Shonka at 360-794-6900. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings.

Meeting Location:

The District Office at 24602 Old Owen Rd.

Meeting Time:

The second Thursday of every month.

Highland Water District routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2010. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We purchase our water from the City of Everett which is treated surface water from Lake Chaplin.

Definitions

Cryptosporidium - is a one celled intestinal parasite that if ingested may cause diarrhea, fever, and other gastrointestinal distress. It can be found in all of Washington's rivers, streams, and lakes and comes from animal or human wastes deposited in the watershed. Cryptosporidium is resistant to chlorine, but is removed by effective filtration and sedimentation treatment such as that used by Everett. It can also be inactivated by certain types of alternate disinfection processes such as ozonation and UV light contactors. Past monitoring results suggest that Cryptosporidium is present in the source only occasionally and at very low concentrations. In 2010, Everett collected monthly Cryptosporidium oocysts samples from the source water at the plant intakes. A single oocyst was detected in the June. No oocysts were detected in the other eleven samples.

Treatment Polymers:

During water treatment, organic polymer coagulants are added to improve coagulation and filtration that remove particulates from water. The particulates that are removed can include viruses, bacteria and other disease causing organisms. The US EPA sets limits on the type and amount of polymer that a water system can add to the water. In addition to the EPA limits, the State of Washington also requires that all polymers used be certified safe for potable water use by an independent testing organization (NSF International). During treatment, Everett adds only NSF approved polymers and the levels used are far below the safe limits set by USEPA.

Important Terms:

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. Maximum Contaminant Level (MCL) – 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 water treatment technology.

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.

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.

Treatment Technique (TT) – A required process and performance criteria intended to reduce the level of a contaminant in drinking water.

Action Level (AL) – The concentration of a contaminant, which, if exceeded, triggers a treatment or other requirements which a water system must follow.

Parts per Million (ppm)/ Parts per Billion (ppb) – A part per million means that one part of a particular contaminant is present for every million parts of water. Similarly, parts per billion indicate the amount of a contaminant per billion parts of water.

Not Applicable (N/A) - Means EPA has not established MCLGs for these substances.

CITY OF EVERETT 2010 WATER QUALITY ANALYSIS RESULTS

	Detected Regulated Contaminants									
			EPA REGULATIONS		EVERETT WATER RESULTS					
	PARAMETER	MAJOR Source	UNITS	IDEAL LEVEL/GOAL (MCLG)	MAXIMUM ALLOWABLE (MCL)	RANGE OR OTHER	AVERAGE VALUE OR HIGHEST RESULT	COMPLY?		
	Nitrate	Erosion of natural deposits, animal waste	ppm	10	10	<0.100- 0.114	<0.080	Yes		
	Total Coliform Bacteria	Naturally present in the environment	% Positive	0	5% Positive per month	0 - 1.6%	1.6%	Yes		

Total coliform bacteria monitoring is used to track microbial quality in the water distribution system. Everett collects 120-125 samples per month. Not more than 5 percent of the monthly total can be positive for total coliforms. Two routine total coliform samples collected in August 2010 were positive. Both locations were retested and the results were negative. No total coliform was detected the remainder of 2010.

Fluoride	Dental health additive	ppm	2	4	0.7 - 1.1	0.9	Yes	
Fluoride is added to your water in carefully controlled levels for dental health.								
Residual Disinfectant Level (free chlorine)	Added as a drinking water disinfectant	ppm	4.0 (MRDLG)	4.0 (MRDL)	0.1 - 1.0	0.9	Yes	
Haloacetic Acids (5) (HAA5)	By-product of drinking water chlorination	ppb	N/A	60	22.6 - 45.6	33.3	Yes	
Total Trihalomethanes (TTHM)	By-product of drinking water chlorination	ppb	N/A	80	27.3 - 44.0	35.6	Yes	
					1 6 5557777			

Haloacetic acids and trihalomethanes form as by-products of the chlorination process that is used to kill or inactivate disease-causing microbes. The results for TTHM and HAA5 reported here are from the four locations monitored to determine compliance with the current regulations.

Turbidity	Soil erosion	NTU	N/A	TT	100%	0.10	Yes

Turbidity is a measure of the amount of particulates in water in Nephelometric Turbidity Units (NTU). Particulates in water can include bacteria, viruses and protozoans that can cause disease. Turbidity measurements are used to determine the effectiveness of the treatment processes used to remove these particulates. The values reported are the lowest monthly percentage of samples that met the turbidity limit and the highest single filtered water turbidity measurement obtained for the year. In 2010 no filtered water turbidity results were above the EPA 0.3 NTU limit so the lowest percentage was 100%.

Detected Unregulated Contaminants									
		IDEAL	EVERETT WATER RESULTS						
PARAMETER	UNITS	LEVEL/GOAL (MCLG)	RANGE DETECTED	AVERAGE Value					
Bromodichloromethane	ppb	0	1.4 - 2.0	1.7					
Chloroform (Trichloromethane)	ppb	300	25.9 - 42.1	33.9					
Dichloroacetic Acid	ppb	0	4.8 - 16.1	12.9					
Trichloroacetic Acid	ppb	300	14.8 - 28.0	19.7					
Monochloroacetic Acid	ppb	None	2.8 - 3.2	3.0					

These substances are individual disinfection by-products for which no MCL standard has been set, but must be monitored to determine compliance with the USEPA Stage 1 Disinfection By-products Rule MCL'D5s for Total trihalomethanes and Haloacetic Acids (5).

Lead and Copper									
			EPA REGU	EPA REGULATIONS		EVERETT WATER RESULTS			
PARAMETER	MAJOR Source	UNITS	IDEAL LEVEL/GOAL (MCLG)	ACTION LEVEL (AL)	90th% LEVEL	HOMES EXCEEDING THE AL	COMPLY?		
Copper	Plumbing, erosion of natural deposits	ppm	1.3	1.3	0.188	None	Yes		
Lead	Plumbing, erosion of natural deposits	ppb	0	15	3	2 of 108 (1.9%)	Yes		

USEPA and state regulations require Everett and the systems it supplies to monitor for the presence of lead and copper at household taps in their combined service area every three years. The above data was collected in 2009. The next round of required regional tap sampling will be conducted in the summer of 2012. The 90th% level is the highest result obtained in 90 percent of the samples collected when the results are ranked in order from lowest to highest. The results for water tested before it enters household plumbing were even lower. This indicates that there is virtually no lead or copper in the water, but household plumbing may contribute to the presence of lead and copper at the tap.

Voluntary Information							
		EVERETT WATER RESULTS					
PARAMETER	UNITS	RANGE DETECTED	AVERAGE Value				
Alkalinity 3	ppm	11.7 -20.3	15.7				
Aluminum ³	ppb	0.010-0.038	0.018				
Arsenic 4	ppb	ND¹	ND¹				
Calcium Hardness ³	ppm ²	7.8 - 12.6	9.4				
pH ³	s.u.	7.4 - 8.9	8.1				
Sodium ⁴	ppm	5.6 - 7.4	6.5				
Total Hardness ³	ppm ²	10.1 - 14.1	11.8				

ND = Not Detecte

² Hardness amd alkalinity units are in ppm as CaCO3 (calcium carbonate equivalent units)

Results are from samples from 26 locations in Everett's distribution system

Sodium and arsenic are monitored at the treatment plant effluent