RESIDENTIAL LEAD AND COPPER MONITORING

Residential lead and copper sampling was conducted in Summer 2018 to determine the concentrations of lead and copper that leach from residential water pipes and fixtures. Lead results ranged from <1 ppb to 5 ppb. Copper results ranged from <0.02 ppm to 1.72 ppm. The 90th percentile results for lead and copper were 1 ppb and 0.093 ppm respectively, which are below the Action Level for lead (15 ppb) and for copper (1.3 ppm). 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.

The Auburn Water Utility is responsible for providing high quality drinking water, but cannot control the variety of materials used in its customers' plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for thirty seconds to two 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 at **800-426-4791** or at **www.epa.gov/safewater/lead**.

WATER USE EFFICIENCY

The main components of the City of Auburn Water Use Efficiency(WUE) program are managing the water distribution system to minimize water loss, and encouraging responsible use of water by our customers.

Water loss is the difference between the total water produced and the water used by our customers, presented here as a percentage of water produced. The City of Auburn Water Utility goal since 1999 has been to maintain water loss at or below 10 percent. In accordance with the Water Use Efficiency reporting requirements, the water loss for year 2019 is **6.3%**. The three year average for the years up to and including 2019 was **4.0%**. In an effort to limit water loss, the Utility performs annual system leak detection and repair; tests production and service meters, calibrating or replacing them as required; and issues permits for water withdrawal from hydrants.

Responsible water use by our customers is promoted by the Utility through educational programs for school children and homeowners. Quantifying the benefit of educational programs and corresponding behavioral changes is difficult, but reductions in water use and/or waste can have a significant impact on the amount of water used as a whole. The City of Auburn is committed to efficiently managing the water distribution system and encourages you to use water wisely.

The City's Water Use Efficiency Annual Performance Report and other information regarding Auburn's Water Use Efficiency program are available on the City of Auburn's website at **www.auburnwa.gov/city_hall/public_works/water**.

FLUORIDE

The City of Auburn does not add fluoride to your drinking water. In 2019, Fluoride levels present in Auburn's water range from 0.-0.2 ppm. If you have questions about fluoride for dental use, please consult with your doctor or dentist. For more information on fluoride in drinking water, visit the Environmental Protection Agency (EPA) website at **www.epa.gov**.

CROSS CONNECTION PROGRAM

Protecting Our Water System From Contamination

A cross connection is a connection between a water pipe and a source of contamination. Examples of cross connections include hose ends submerged in pools, hot tubs or buckets, irrigation systems and most hose-end spray applicators. Cross connections are extremely dangerous because they provide opportunities for contaminated fluids to be pulled back into the water system.

To protect our water supply, avoid using hose-end sprayers and maintain an air gap by keeping the hose end above the water surface when filling containers. Irrigation systems are required to have a backflow assembly. Backflow assemblies require a plumbing permit, must be inspected by a cross connection specialist, and must be tested by a certified tester when installed, and yearly thereafter. For more information or a list of certified testers, call the Water Division at **253-931-3048** or visit **www.auburnwa.gov/city_hall/public_works/water**.

PARAMETER	STANDARDS		SAMPLE RESULTS		ADDITIONAL INFORMATION
	MCLG	MCL	Average	Range	Typical Source/Comments
INORGANIC SUBSTANCE					
Arsenic (ppb)	0	10		ND - 1.6 (8/15/2018)	Erosions of natural deposits. Most recent sampling date and data are from the most recent testing done in accordance with the regulations.
Nitrate (ppm)	10	10		0.24 - 3.29	Natural deposits, fertilizer, septic tanks
VOLATILE ORGANIC SUBSTANCE					
Haloacetic Acids (ppb)	NA	60		0.2 - 0.3	By-product of drinking water disinfection
Total Trihalomethanes (ppb)	NA	80		ND	By-product of drinking water disinfection
OTHER MONITORED SUBSTANCE					
Chlorine Residual (ppm)	4 (MRDL)	4 (MRDLG)	0.59	0.33 - 0.77	Measure of disinfectant added to water
Manganese (ppb)		50 (SMCL)	5.21	ND - 19.9	Black to brown color, black staining; Bitter metalic taste

UNIT DESCRIPTION

NA: Not applicable
ND: Not detected
ppm: parts per million, or milligrams per liter (mg/l)
ppb: parts per billion, or micrograms per liter (µg/l)

DEFINITIONS

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.

MCLG | Maximum Contaminant Level Goal
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.

MRDL | Maximum Residual Disinfectant Level
The highest level of a disinfectant allowed in drinking water.

MRDLG | Maximum Residual Disinfectant Level Goal
The level of a drinking water disinfectant below which there is no known or expected risk to health.

SMCL | Secondary Maximum Contaminant Level
The secondary standards are set to give public water systems some guidance on removing those chemicals to levels that are below what most people will find to be noticeable. They are non-mandatory and non-enforceable.

REQUIRED HEALTH INFORMATION FROM THE EPA

HEALTH ISSUES

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. Environmental Protection Agency (EPA)/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 Water Drinking Hotline at **800-426-4791**.

CONTAMINANTS AND REGULATIONS

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 Safe Drinking Water Hotline at **800-426-4791**. 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. Microbial contaminants, such as viruses and bacteria, may come from septic systems, livestock and wildlife. Inorganic contaminants, such as salts and metals, can be naturally occurring or result from urban stormwater run-off, septic systems or fertilizer use. Pesticides and herbicides may come from a variety of sources such as agriculture, urban stormwater run-off and residential uses. Organic chemical contaminants, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater run-off, and septic systems. Radioactive contaminants 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations set limits for contaminants in bottled water that are intended to provide similar protection for public health.

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

В этом сообщении содержится важная информация о воде, которую вы пьёте. Попросите кого-нибудь перевести для вас это сообщение или поговорите с человеком, который понимает его содержание.

Tài liệu này có tin tức quan trọng về nước uống của quý vị. Hãy nhờ người dịch cho quý vị, hoặc hỏi người nào hiểu tài liệu này.

此报告包含有关您的饮用水的重要信息。请人帮您翻译出来，或请看懂此报告的人将内容说给您听。

이 보고서에는 귀하의 식수에 대한 중요한 내용이 실려있습니다. 그러므로 이 보고서를 이해할 수 있는 사람한테 번역해 달라고 부탁하시기 바랍니다.

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AUBURN WATER UTILITY
2019 WATER QUALITY REPORT

THE AUBURN WATER UTILITY IS PROUD TO PRESENT YOU WITH OUR 2019 WATER QUALITY REPORT.

This report is a snapshot of 2019 water quality. The test results in this report show that Auburn's water meets or surpasses all federal and state standards for public drinking water. Auburn's water comes from a combination of wells drawing water from deep below the city, and springs located near the walls of the valley. Water from the valley wells and springs is distributed to the entire Auburn service area. Additional wells are located in Lakeland Hills and serve Auburn customers in that neighborhood.

AUBURN WATER UTILITY
2019 WATER QUALITY REPORT

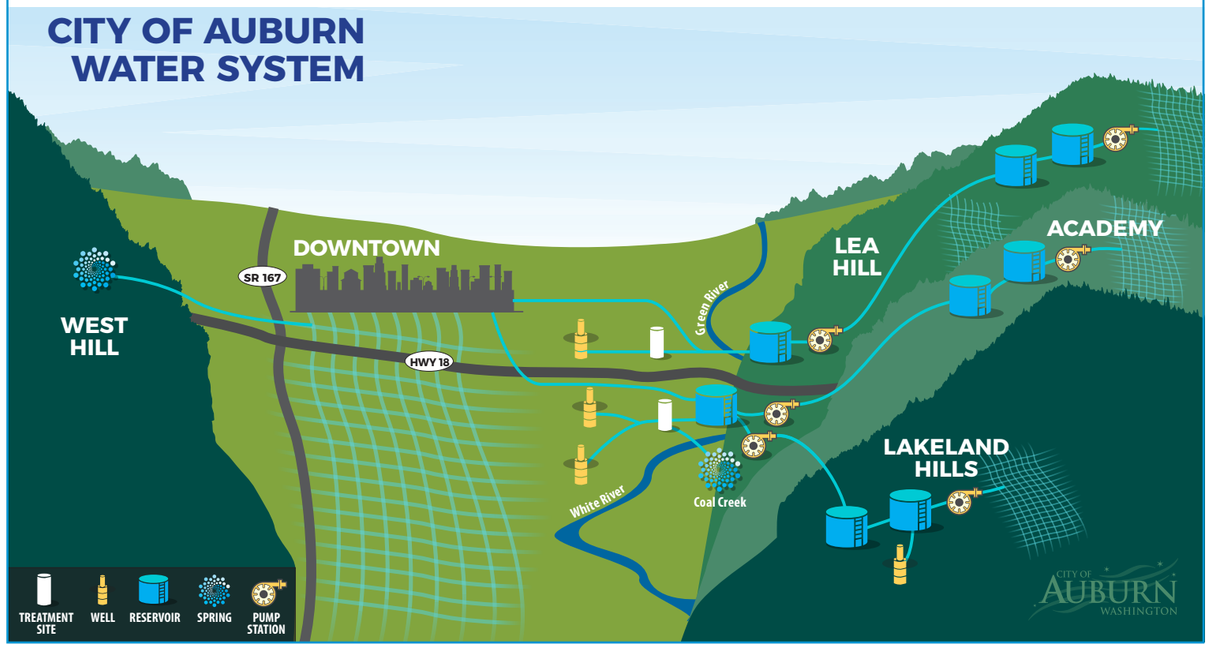
Auburn provides water to its customers from 6 active wells and 2 springs located in the Valley. Auburn customers in Lakeland Hills get their water from 2 active wells in that area. The wells are 290 to 750 feet deep and produce from 180 to 3,500 gallons per minute (gpm) of water. The Springs produce from 600 to 3,800 gpm of water. To supplement the demand in Lakeland Hills, water from the Valley is also provided from the Terrace View Pump Station located at Alexander Place and Terrace View Drive SE.

Fulmer Field Treatment Facility

Water quality is generally very good and requires minimal treatment and the water is soft to moderately hard. Water from wells and springs is aerated for pH adjustment through two corrosion control facilities, and chlorine is added for disinfection. Auburn does not add fluoride to its water. Fluoride is a naturally-occurring element in groundwater, and is detected at levels up to 0.2 parts per million (ppm) in Auburn's sources. For the latest map showing fluoride levels throughout the City, please visit **auburnwa.gov/city_hall/public_works/water**.

Green River Pump Station

Although most wells and springs are in the Valley, water storage tanks/reservoirs are generally located at the highest elevation in the hills so that water from these tanks can flow by gravity to our customers. Auburn has 8 reservoirs with a total storage capacity of 15.8 million gallons.

Auburn has 6 active pump stations that pump water from the Valley up to the hills to the reservoirs, and boost it to higher elevations and pressure on the hills. Auburn also has 36 Pressure Reducing Valve (PRV) stations to keep the pressure in the water mains at acceptable levels. These PRVs are located at various elevations in the hills.

About 285 miles of water main ranging from 4 inches to 30 inches in diameter deliver water to homes and businesses throughout Auburn. A portion of Auburn's distribution system is more than 50 years old. Most of these pipes are made of cast iron and can become brittle with age. Auburn has an ongoing program of evaluating and upgrading its water mains to ensure its transmission and distribution system are reliable and well maintained.