

CITY OF ROGUE RIVER PUBLIC WORKS DEPARTMENT

2015 WATER QUALITY REPORT

Dear Water Customers.

We are pleased to present to you our 2015 Annual Water Quality Report. This report is designed to inform you about the quality of 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 water resources. We are committed to ensuring the quality of your drinking water. This report presents water quality data and explains what it means.

Source of Water

Water Treatment

Our water sources are surface water Water treatment is the process of water supply.



Rogue River

drawn from the Rogue River and cleaning the water to make it safe to wells. During the drought of the drink. The Rogue River Water 80's and early 90's the City of Treatment Plant process begins by Rogue River realized that it could no drawing water from the Rogue River longer supply an adequate amount of and adding a coagulant called Alum water from its wells. In 1994 the City (Aluminum Sulfate), and a coagulant built the water treatment plant which aid called Polymer. During the now has been in successful operation coagulation (gathers together) process, for 21 years. Depending on the suspended sediments gather together time of year and customer demand, into larger particles called "floc". The the water treatment plant presently water then enters the clarification produces between 300 thousand to basins, where the floe is partially 920 thousand gallons of water per filtered out. The water then flows to day, and the wells produce up to an multi-media filters. The two filters are additional 400 thousand gallons. At made of layers of anthracite coal, sand, the present time, the City will garnet, and gravel. The particles typically run the water treatment remaining from the clarification are plant during the summer months when removed during the filtration process. the demand for water is high. During In the final step, Miox (mixed oxidant) the winter, when water demand is low is added to the water for disinfection and when the river is more difficult to and to keep it safe in the distribution treat the City will use five wells for its system as it travels to the City's reservoirs or to your tap. At the current time, the only treatment used on the wells is the addition of a small amount Federal and State Requirements. of chlorine.

Your Water Supply Team

Oregon Health Authority Drinking Water Program (DWP) and are trained in all aspects of water distribution and within this report comes from the treatment. They are required to monitoring of our drinking water complete continuing education classes in order to maintain their certification.



Water Treatment Plant



Water Reservoir

We are pleased to announce that our drinking water is safe and surpasses

Monitoring and Reporting Reguirements

The Public Works Department Plant operators are certified by the routinely monitors for contaminants in your drinking water according to Federal and State laws. The data supply for the period of January 1 to December 31, 2015.

All drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily indicate that water poses a health risk.

Federal and State regulations include procedures and schedules for monitoring water from the source to the tap. The State Drinking Water Program ensures that public water systems comply with all regulations, follow monitoring schedules, and report monitoring results. The City monitors the physical, chemical, and microbiological characteristics of your drinking water and is in compliance with these regulations.

Storage and Distribution

Treated water is pumped from the plant and wells to two reservoirs with a combined storage capacity of 1.7 million gallons. From the reservoirs the water is gravity fed to the distribution system. The distribution system is made up of 2" to 10" pipes with an approximate total length of 13 miles.

Once the water is in the reservoirs, it then gravity flows to homes and businesses in town as it is needed. In order to meet the continuing demand for water, the City is constantly upgrading its system. The City has a 20-year Water Master Plan which details future water system improvements. These improvements will occur over the coming years. The City recently completed construction of a new 12 million gallon finished water reservoir. This reservoir helps provide a sufficient supply of water and better meets fire flow requirements.

2015 Water Production in gallons:

January	9,049,000
February	7,991,000
March	9,322,000
April	10,451,000
Мау	13,407,000
June	15,553,000
July	16,207,000
August	15,753,000
September	12,915,000
October	11,182,000
November	10,021,000
December	9,265,000

Acronyms and Key definitions

Maximum Contaminant Levels (MCLs) are set at very stringent amounts. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the **MCL** for a lifetime to have a one-in-a-million chance of contracting the described health effect.

Maximum Contaminant Level Goal (MCLG). The level of a contaminant in drinking water for which there is no known or expected risk to health.

Action levels (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system mustfollow.

NTU: Nephelometric Turbidity Unit. Unit of measure used to describe water clarity. The smaller the number, the clearer the water.	ppm: parts per million. This is the same as mg/l. An example of 1 part per million is one drop of water in 22 gallons.
Contaminant: Any substance found in water; however, not all contaminants are harmful.	ppb: parts per billion. One ppb is approximately equal to 1 drop of water in a swimming pool that is 30' in diameter and 4' deep (21,195 gal. of water).
@: at the detection limit. ND@0.0 ppm or parts per million.	ND@: Not detected at a given range because laboratory instruments can only detect to certain minimum levels.
NR: Not required this year	ND: No data collected.
MFL: Million Fibers per Liter	UR: Unregulated Contaminant. A substance in drinking water that is not regulated by EPA but is monitored for other purposes.

More information about contaminants and potential health effects can be obtained by calling the following numbers:

EPA, Safe Drinking Water Hotline: 1-800-426-4791

Oregon Health Authority, DWP: 1-971-673-0405

Jackson County Environmental Health Dept.: 541-774-8206

The following tables show that our system had no contaminant violations. We're proud that your drinking water meets or exceeds all Federal and State requirements.

Resul	Residua	Microbiological Ana als of Treated Wate r surpass State and Fede	er After Disinfec	tion
Variable	Maximum Amount Tested	Maximum Contaminant Level (MCL) Maximum	Contaminant Level Goal (MCLG)	Source of Contaminant
Physical Characteristic Testing Turbidity (Surface Water)	0.23 NTM Daily average: 0.04 NTM	0.30 NTU	.5 NTU	Soil erosion and stream sediment
Microbiological Testing Total Coliform Bacteria	Zero positive tests	Zero positive tests	Zero positive tests	Soil bacteria and animal feces
Fecal Coliform Bacteria	Zero positive tests	Zero positive tests	Zero positive tests	Animal feces
Disinfection Residual	All samples had detectable chlorine residual	3.0 mg/l	NR	Chlorine is used as a disinfectant in the water treatment process
Trihalomethanes (TTHM)	₽ ppb	80 PPB	NA	Drinking water chlorination by- products
Haloacetic Acid {five) (HAAS) *	16.4 ppb	60 ppb	NA	Drinking water chlorination by- products

Turbidity and NTUs

Turbidity is regulated because it can provide a medium for bacterial growth. Turbidity or (cloudiness) of water is measured in NTUs. The filtration plant consistently treats water that surpasses Federal and State standards. Well water is not required to be measured for turbidity.

Total Coliform Bacteria

Testing for these bacteria after disinfection helps confirm the effectiveness of the disinfection process. (Bacteria may have been present in the source water.) Total coliform bacteria are also indicators of possible contamination that might occur after treatment.

Chlorine Residual

Federal and State drinking water regulations require detectable disinfectant (chlorine) residual throughout our distribution system. Water entering the City's distribution system from the Water Treatment Plant has an average chlorine residual of 0.50 to 1.40 parts per million.

"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 IAIDS 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 **I** CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791)."

Results of Lead and Copper Sampling at Residential Water Taps * Results meet or surpass current State and Federal drinking water regulations						
Variable	Amount Detected	Maximum Contaminant Level (MCL) Maximum	Contaminant Level Goal (MCLG)	Source of Containment		
Copper	90 percent of the homes tested had copper levels less than 0.3610 parts per	Action Level: 90% of the homes tested must have levels less than 1.3 parts per million	1.3 parts per million	Corrosion of Household plumbing		
Lead	90 percent of the homestested had lead levels less than 0.0016 parts per million	Action Level: 90% of the homes tested must have lead levels less than 0.015 parts per million	0 parts per million			

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 City of Rogue River is responsible for providing high quality drinking water, but cannot control the variety of materials used in pluming 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 yoru water tested. Information on lead in drinking water, testing methods and safe steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at http://water.epa.gov/drink.hotline.index.cfm

*Note: Lead & Copper were tested for in 2013 (the next round of sampling will be in 2016)

d l	Maximum Contaminant Level	Contaminant Lever Goal		
	(MCL) Maximum	(MCLG)	Source of Contaminant	
parts - Water 10 Plant) parts per million	10 parts per million	Runoff from fertilizer use: Leaching from septic tanks, sewage; erosion of natural deposits.	
ts per 1 Nells 1	0 parts per million	10 parts per million		
- t	Water 10 Hant 10	parts Water lant 10 parts per million	parts Water 10 parts per million 10 parts per million lant 10 parts per million 10 parts per million	

Notes: Nutrients can support microbial growth such as bacteria and algae. Nitrate and nitrite levels in excess of the standards can contribute to methemglobinemia (blue baby syndrome) in infants less than six months old. In adults, excessive levels can contribute to kidney or spleen problems.

We at the Rogue River Public Works Department strive to provide top quality water to every tap. We ask that all our customers help us protect our water source, which is the heart of our community, our way of life and our children's future. If you have any questions about this report or your water source, please contact City Engineer/Public Works Director John Krawczyk at 582-4401 ext. 103, stop by City Hall at 133 Broadway, Box 1137, Rogue River, Oregon 97537 or visit <u>www.cityofrogueriver.org</u>. We want all of our valued customers to be informed about their water quality.