PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

Randy Leonard, Commissioner
David G. Shaff, Administrator

1120 SW 5th Avenue, Room 600
Portland, Oregon 97204-1926
Information: 503-823-7404
www.portlandonline.com/water

An Equal Opportunity Employer

February 1, 2011

Dear Customer:

Today the Water Bureau will be reactivating the Bull Run water supply. Bull Run water will be blended into the system for several hours before groundwater is turned off. The Water Bureau plans to turn off the Columbia South Shore Well Field and return to 100% Bull Run water supply late in the day today.

Storms in mid January produced heavy rains and increased stream flows in the Bull Run watershed resulting in elevated turbidity levels. Turbidity levels have steadily decreased in the Bull Run water supply system since the rains subsided. Since turning on the Columbia South Shore Well Field on January 16, the Portland Water Bureau has utilized groundwater to provide 100% of supply.

It will take about 24 to 60 hours, depending on your location, for Bull Run water to move through the distribution system and replace the groundwater in the system. Both sources of water are high quality water supplies which meet or surpass all federal and state drinking water regulations.

Page two of this notification outlines the expected water quality of Bull Run water compared to water from the Columbia South Shore Well Field.

- **If you have any questions, please do not hesitate to call the Water Line at 503-823-7525.**
- **If we should direct this notification to someone else, please let us know and we will correct our records.**

For information on daily Water Bureau operations, visit www.portlandonline.com/water.

Sincerely,

Victoria Mercer
Water Line
503-823-7525

The City of Portland will make reasonable accommodation for people with disabilities. Please notify us no less than five (5) business days prior to the event by phone 503-823-7404, by the City's TTY at 503-823-6868, or by the Oregon Relay Service at 1-800-735-2900.

Water Quality of Groundwater and Bull Run Water

The table below shows water quality data for groundwater wells and Bull Run from past results. Users will experience water quality ranging between the water quality of 100% groundwater and 100% Bull Run as the water moves through the distribution system. The actual results may differ slightly from what is shown below. Where a value is preceded by a less than symbol (<), the substance was not present or was present below the method reporting limit (MRL) of the prescribed method. Results are in mg/L (parts per million) unless otherwise noted.

Substance	100% Groundwater	100% Bull Run	EPA/DHS-DWP Standard
Field Measurements			
Temperature (°C)	14.6	5.6	NA
pH (standard units)	8.0	8.0	6.5 - 8.5 (S)
Physical Characteristics			
Color (color units)	10	20*	15 (S)
Specific Conductance (µmhos/cm)	220	23	NA
Suspended Solids	<0.5	<0.5	NA
Total Dissolved Solids	140	35	500 (S)
Turbidity (NTU)	0.10	4.0*	5
Nutrients			
Nitrate Nitrogen as N	0.1	0.04	10
Nitrite Nitrogen as N	<0.005	<0.005	1
Reactive Phosphorus as P	0.115	<0.003	NA
Silica as Silicon	18	3.8	NA
Total Organic Carbon	0.57	1.5	NA
Anions and Cations			
Alkalinity as $CaCO_3$	110	4.1	NA
Calcium	16	2.0	NA
Chloride	2.5	3.1	250 (S)
Fluoride	0.12	<0.05	4.0
Hardness as $CaCO_3$	86	8.1	250 (S)
Magnesium	9.0	0.8	NA
Sodium	8.7	3.7	NA
Sulfate	3.5	<1.0	250 (S)
Metals			
Iron	<0.05	<0.05	0.3 (S)
Manganese	0.063	<0.01	0.05 (S)
Microbiological Contaminants			
Fecal Coliform (CFU/ 100mL)	NA	<1	90% <20 CFU/100mL for source water
E. Coli (MPN/ 100mL)	<1	NA	<1 in raw source water
All 59 VOCs (µg/L)	<MRL (varies)	<MRL	varies

*Color and turbidity are declining in Bull Run water and should reach more typical values within the next week. Typical color is <10 color units and typical turbidity is <1 NTU.

The groundwater results are calculated based on recent results from each well and the Groundwater Pump Station Outlet. The Bull Run results are from November 2010 Triannual testing and other more recent results. An (S) indicates a secondary standard.