

Water Quality of Groundwater and Bull Run Water

The table below shows a comparison of typical groundwater and Bull Run water quality from past results. The estimated blend ratio during this groundwater operation is expected to be approximately 60% groundwater and 40% Bull Run water. Based on the expected blend and typical groundwater quality, users receiving blended water may expect to see a range of water quality comparable to the blend shown in the table below. The actual water quality experienced by users may differ from what is shown below depending on the blend ratio, changes in the wells used during the course of the operation, location of the customer within Portland's distribution system, water demand, time of the year and other operational conditions.

Characteristic	100% Groundwater ¹	100% Bull Run ²	Expected Blend (60% Groundwater/ Bull Run 40%)	EPA/OHA Standard ³
Temperature (degrees C)	15.2	15.8	15.4	NA
pH (units)	8.0	8.0	8.0	6.5 - 8.5 (S)
Color (units)	10	7	8.8	15 (S)
Specific Conductance (µmhos/cm)	219	34	145	NA
Total Dissolved Solids (mg/L)	145	28	98.2	500 (S)
Turbidity (NTU)	0.30	0.55	0.4	5
Total Organic Carbon (mg/L)	0.57	0.9	0.70	NA
Alkalinity as CaCO ₃ (mg/L)	101	11	65	NA
Hardness as CaCO ₃ (mg/L)	84	8.3	53.7	250 (S)

1. Average values measured at the Groundwater Pump Station Outlet from 2004 through 2014.

2. Most recent values measured in Bull Run raw or treated water.

3. (S) denotes a secondary standard established by the EPA as a guideline to assist public water systems in managing drinking water for aesthetic considerations, such as taste, color and odor. These contaminants are not considered to present a risk to human health at this standard.

For more information about Portland's drinking water quality call the Water Line at (503) 823-7525.