



Overview of Recycled Water Permit Requirements

- RW Quality Limits & Sampling Requirements
- Reporting Requirements
- Customer Requirements
- What's Ahead?

We Produce Class A Reclaimed Water

Class A reclaimed water is...

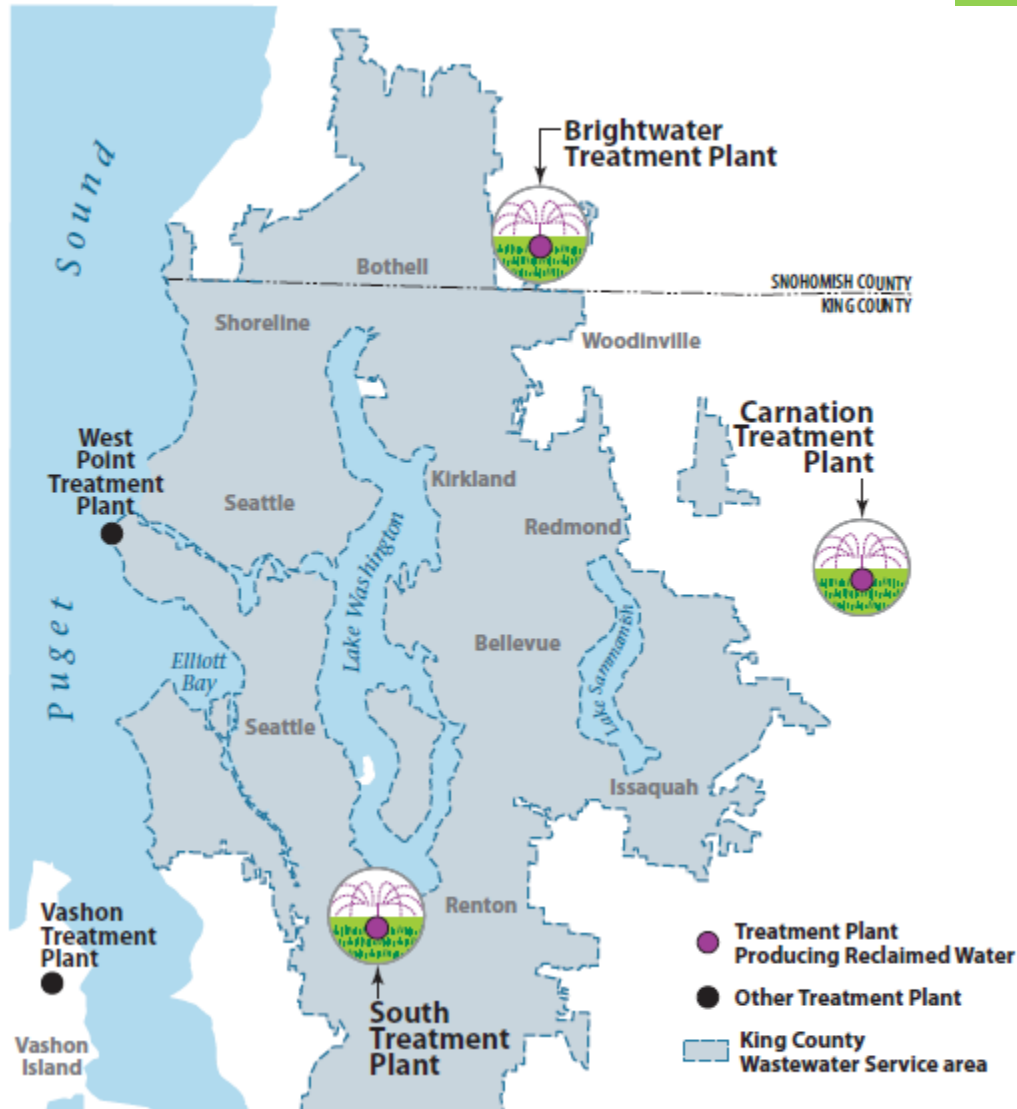
- Oxidized
- Coagulated
- Filtered
- Disinfected
 - Total Coliform $\leq 2.2/\text{mL}$, 7 days median
 - $\leq 23/\text{mL}$ in any sample



Recycled Water = Reclaimed Water = Reuse Water

Three Treatment Plants Produce Recycled Water

KING COUNTY TREATMENT PLANTS PRODUCING RECYCLED WATER



Separate RW Permits for Brightwater and South Plant

Permit Requirements issued by Ecology and Health, including:

- ❑ Water quality limits
- ❑ Monitoring
- ❑ Reporting and record keeping
- ❑ Pretreatment
- ❑ Operation and maintenance
- ❑ Proper distribution and use
- ❑ End use agreements
- ❑ Application for permit renewal



Brightwater & South Plant

Class A Reclaimed Water Limits

BOD ₅	<u>Average Monthly</u> 30 mg/L	<u>Average Weekly</u> 45 mg/L
TSS	<u>Average Monthly</u> 30 mg/L	<u>Average Weekly</u> 45 mg/L
Turbidity	<u>Average Monthly</u> 0.2 NTU (or 2 NTU)	<u>Instantaneous Maximum</u> 0.5 NTU (or 5 NTU)
Total Coliform	<u>7-day Median</u> 2.2 MPN / 100 ml	<u>Sample Maximum</u> 23 MPN / 100 ml
pH	Daily minimum is equal to or greater than 6.0 and the daily maximum is less than or equal to 9.0 standard units.	
Chlorine	A minimum chlorine residual of at least 1 mg/L after an effective contact time of at least 30 minutes is required.	
Distribution System		
Residual Chlorine	<u>Minimum Daily</u> 0.5 mg/L	<u>Point of Compliance</u> To Use Areas

Brightwater RW Sampling Requirements

Parameter	Sampling Frequency
Distributed Flow, GPD	Daily
BOD₅ (mg/L)	2/week
TSS (mg/L)	2/week
Turbidity (NTU)	Continuous
Total Coliform (# of organisms per 100 mL)	Daily
pH	Continuous

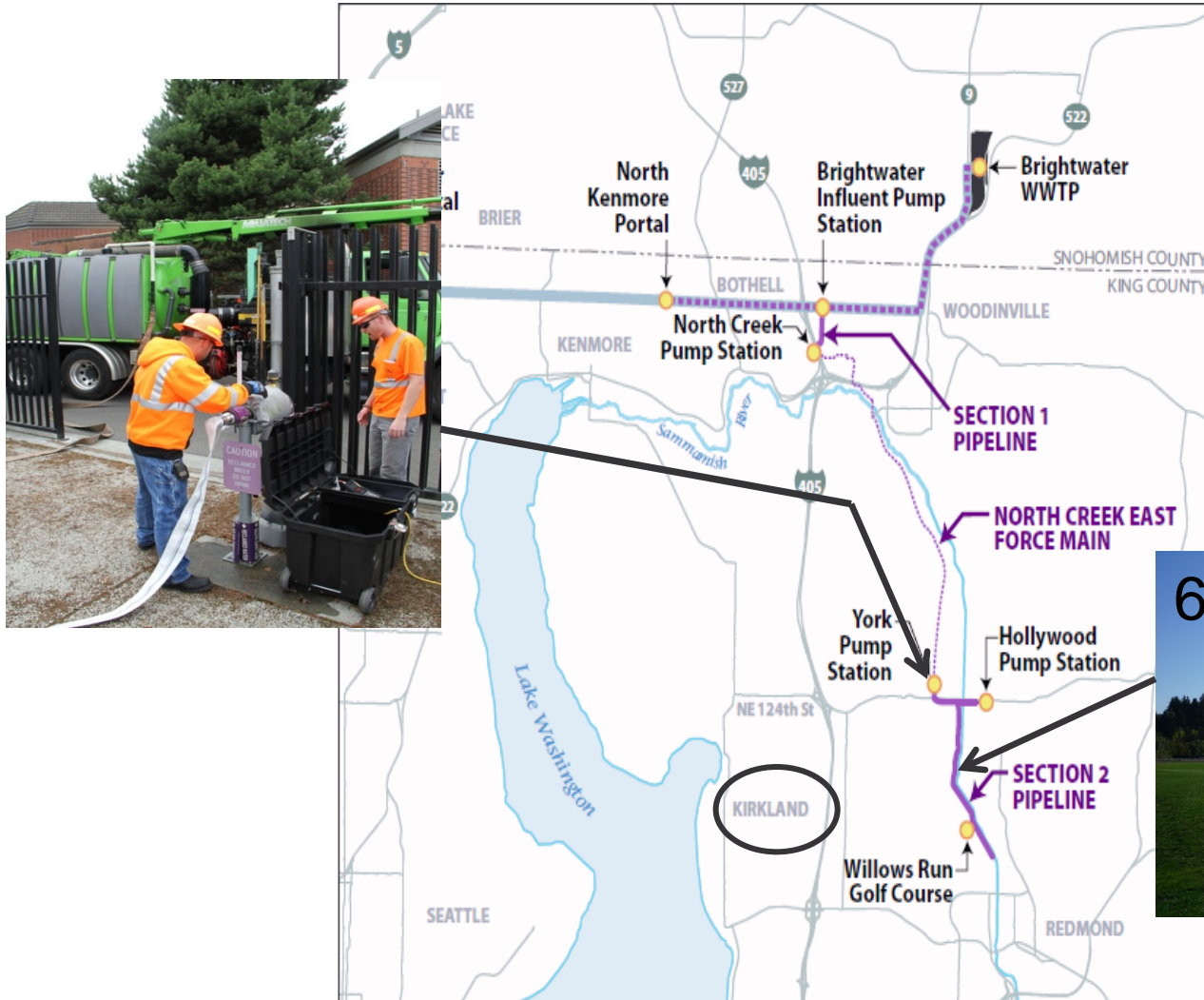
Parameter	Sampling Frequency
Tot. Chlorine Residual (for disinfection purposes, mg/L)	Continuous
Tot. Chlorine Residual (for distribution purposes, mg/L)	Continuous
Dissolved Oxygen (mg/L)	Continuous
Ammonia (as N), mg/L	Weekly
Nitrate + Nitrite (as N), mg/L	Weekly
Total Phosphorus, mg/L	Weekly

Customer Responsibilities are Appropriate Use and Protection of Drinking Water



What's Ahead for Spring/Summer 2016?

Truck Fill, Kirkland Study, and Potential Connections



60 Acres Park



QUESTIONS?

