



## King County

Department of Natural Resources and Parks  
Wastewater Treatment Division  
West Point Treatment Plant, WTP-NR-0100  
1400 Discovery Park Blvd  
Seattle, WA 98199-1044

September 12, 2017

TO: Robert Waddle, WTD Operations Manager

FROM: Process Control Staff

SUBJECT: West Point Treatment Plant Performance Report – August 2017

Seattle had a very dry August. West Point recorded a total of 0.02 inches of precipitation for the month, occurring over August 12 and 13. SeaTac also recorded 0.02 inches of precipitation, 0.86 inches below the normal August rainfall of 0.88 inches. Boeing Field recorded 0.02 inches of precipitation, 0.89 inches below the normal 0.91 inches. The National Weather Service Office at Sand Point recorded 0.21 inches of precipitation, 0.76 inches below the normal 0.97 inches. Total Plant flow at West Point averaged 65.83 MGD, 0.49 MGD below the average August flow for the previous five years (66.32 MGD). North end flows were sent to South Plant and Brightwater via Woodinville and North Creek.

There were no NPDES Permit exceptions during the month. Plant restoration is largely complete. The bulk of the remaining work involves replacing temporary motor control centers with permanent equipment. All flow received full secondary treatment. In August primary flow continued to be processed through the West primary tanks. The East primary area was taken completely off line on July 6 to accommodate replacement of the effluent launder gates. This work is expected to be completed in mid-September. The plant emergency bypass gate remained closed throughout the month, but was available for use if needed.

### Key Measures

Volume Treated	2041 million gallons
Permit Compliance	0 exceptions
Biosolids	3700 wet tons hauled
	1042 dry tons hauled
	28.15% cake total solids

Permit Compliance Summary – August 2017

Flow (mgd)	cBOD (mg/l)	TSS (mg/l)	cBOD (% Removal)	TSS (% Removal)	Fecal Coliforms (counts/100 ml)	Chlorine Residual (µg/l)
	Plant/Permit	Plant/Permit	Plant/Permit	Plant/Permit	Plant/Permit	Plant/Permit
65.83	8/25	10/30	97/85	96/85	2/200	73/139

West Point's NPDES Permit requires 85% removal of cBOD and TSS during the dry season months of May through October. The Permit also sets effluent concentration limits of 25 mg/l for cBOD and 30 mg/l for TSS, or 15% of influent values during the dry season months, whichever is more stringent. For August 2017, the effluent concentration limits were 25 mg/l for cBOD and 30 mg/l for TSS.

Process Control

Total plant flow for the month was 2040.70 million gallons. All plant flow received full treatment. No flow was diverted around secondary.

Date	Secondary Diversion Volume (MG)	Reason for Diversion

For the month, influent and effluent cBOD concentrations averaged 247 mg/l and 8 mg/l, respectively (97% removal); influent and effluent TSS averaged 290 mg/l and 10 mg/l, respectively (96% removal).