



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

August 7, 2024

TO: Rebecca Singer, WTD Operations Manager

FROM: Process Control Staff

SUBJECT: West Point Treatment Plant Performance Report – July 2024

The West Point Treatment Plant (West Point) Outfall 001 met all effluent discharge requirements in July 2024. Effluent cBOD averaged < 25 mg/L and TSS averaged < 30 mg/L. Effluent pH was maintained between 6.0 and 9.0.

West Point's total flow averaged 65.96 million gallons per day (MGD), the average July flow for the previous five years is 65.03 MGD.

Seattle-Tacoma International Airport (SeaTac) reported 0.16 inches of rainfall, a lot lower than the historical average rainfall for June of 0.60 inches.

Primary Treatment

Primary sedimentation operated with nine tanks in service for the entire month. Primary solids removal for the month was calculated to be 65.70%. The recycle streams continued to be temporarily routed to the headworks.

Secondary Treatment

The secondary process operated with six aeration trains at the beginning of the month until July 9 when one tank was taken out of service for Preventive Maintenance (PM), five trains were in service for the remainder of the month. There were eleven clarifiers at the beginning of the month until two clarifiers were taken offline for PM, the area operated with nine clarifiers in service at the end of the month. The secondary sludge age averaged 2.67 days for the month. Final effluent quality was good in July with a monthly average of 8 mg/L of TSS and <18 MPN/100 mL fecal coliform geomean for the month. There were no Secondary Diversions in July

Key Measures

Volume Treated	2045 Million Gallons
Permit Compliance	0 Exceptions
Biosolids	3632 Wet Tons Hauled
	990 Dry Tons Hauled
	27.26% Cake Total Solids

Permit Compliance Summary – July 2024

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
65.96	6/25	8/30	97/80	97/80	<18/200	90/139

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 July 2024, 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 044.78 million gallons. Influent and effluent cBOD concentrations averaged 223mg/l and 6 mg/l, respectively (97% removal); influent and effluent TSS averaged 322 mg/l and 8 mg/l, respectively (97% removal).