



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

April 11, 2024

TO: Rebecca Singer, WTD Operations Manager

FROM: Process Control Staff

SUBJECT: West Point Treatment Plant Performance Report – March 2024

The West Point Treatment Plant (West Point) Outfall 001 met all effluent discharge requirements in March 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 98.35 million gallons per day (MGD), slightly higher than the average March flow for the previous five years (94.68 MGD).

Seattle-Tacoma International Airport (SeaTac) reported 2.36 inches of rainfall, below the historical average of 4.17 inches for March rainfall at SeaTac.

Primary Treatment

Primary sedimentation operated with eleven sedimentation tanks in service for the entire month. Primary solids removal for the month was calculated to be 60.56%. The recycle streams continued to be temporarily routed to the headworks.

Secondary Treatment

The secondary process operated with six aeration trains and thirteen clarifiers for the entire month. The secondary sludge age averaged 2.96 days for the month. Final effluent quality was good in March with a monthly average of 6 mg/L of TSS and 3 MPN/100 mL fecal coliform geomean for the month. There were no secondary diversion events in March.

Key Measures

Volume Treated	3049 Million Gallons
Permit Compliance	0 Exceptions
Biosolids	3806 Wet Tons Hauled
	1050 Dry Tons Hauled
	27.58% Cake Total Solids

Permit Compliance Summary – March 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
98.35	5/25	6/30	97/80	97/80	3/200	93/139

West Point’s NPDES permit requires 80% removal of cBOD and TSS during the wet season months of November through April. The Permit also sets effluent concentration limits of 25 mg/l for cBOD and 30 mg/l for TSS, or 20% of influent values during the wet season months, whichever is more stringent. For March 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 3048.93 million gallons. Influent and effluent cBOD concentrations averaged 143 mg/l and 5 mg/l, respectively (97% removal); influent and effluent TSS averaged 190 mg/l and 6 mg/l, respectively (97% removal).

There were no Secondary Diversions in March.