



STATUS REPORT

Progress and Improvements

DPW BUREAU/OFFICE Patapsco Wastewater Treatment Plant (Patapsco)

Date 9/30/22

Parameter	Week ending 9/16/22	Week ending 9/23/22	Weekly Permit Limit	Monthly Permit Limits	Weekly Limits Met?	Monthly Limits Met?
Total Suspended Solids (TSS)	9 mg/L	8 mg/L	45mg/L	30mg/L	Yes	Yes
Biochemical Oxygen Demand (BOD)	8 mg/L	7 mg/L	45mg/L	30mg/L	Yes	Yes
Total Phosphorus (TP)	0.9 mg/L	0.9 mg/L	3.0mg/L	2.0mg/L	Yes	Yes
Ammonia (NH ₃)	3.8 mg/L	2.9 mg/L	N/A	6.3mg/L	N/A	Yes**
<i>Enterococci</i>	7 MPN/100 mls	7 MPN/100 mls	N/A	35 MPN/100 mls	N/A	Yes

N/A= Not Applicable MPN= Most Probable Number

**Patapsco Wastewater Treatment Plan (WWTP) month-to-date limits are trending within permit requirements. We will continue to await further results throughout the month to confirm compliance.

Training and Education Updates

This week employees completed Supervisor Control and Data Acquisition (SCADA) maintenance training. October's National Technical Training (NTT) class will be focused on the Basics of Industrial Electricity and Troubleshooting Electric Motors.

360Water training is a computer-based training program reviewing operation and maintenance of plant specific processes. Staff are being trained on the equipment and process areas that they work. The trainings are site specific and tailored to each plant's specific treatment processes.

Maintenance Updates

Plant staff have developed a scum and Fats, Oils, and Grease ("FOG") removal pumping system that sends the material directly to the dumpster rather than the previous practice of recirculation. This will help with FOG removal throughout the process stream.

Gravity Sludge Thickener ("GST") #4 repairs are underway. Completion of this work is set for January 2023.

Our nitrogen removal process continues to improve. The Enhanced Nutrient Removal facilities are fully in service for Nitrogen removal and the Chemsan units have been repaired and the automated control of methanol, in addition to the Denitrification Filters, have been returned to service.

Summary

Upgrades to the denitrification process have drastically improved Patapsco's effluent. Patapsco month-to-date limits are trending within permit requirements, and we expect the downward trend will continue. We are confident in a clear path forward to compliance at the Patapsco Wastewater Treatment Plant.