



STATUS REPORT

Progress and Improvements

DPW BUREAU/OFFICE Patapsco WTPP

Date 11/25/2022

Parameter	Week ending 11/14/22	Week ending 11/21/22	Weekly Permit Limit	Monthly Permit Limits	Weekly Limits Met?	Monthly Limits Met?
Total Suspended Solids (TSS)	3 mg/L	3 mg/L	45mg/L	30mg/L	Yes	Yes
Biochemical Oxygen Demand (BOD)	3 mg/L	3 mg/L	45mg/L	30mg/L	Yes	Yes
Total Phosphorus (TP)	0.2 mg/L	0.2 mg/L	3.0mg/L	2.0mg/L	Yes	Yes
Ammonia (NH ₃)	0.4 mg/L	0.4 mg/L	N/A	N/A	N/A	N/A
<i>Enterococci</i>	5 MPN/100 mls	4 MPN/100 mls	N/A	35 MPN/100 mls	N/A	Yes

N/A= Not Applicable MPN= Most Probable Number XX=Awaiting Official Results

Note: The Ammonia permit requirement is only seasonal from 5/1-10/31 each year. No limit otherwise)

Personnel Updates

On December 8, 2022, Mayor Brandon M. Scott and Director Jason W. Mitchell, Ed.D. will be hosting a signing day for the participants in our inaugural class of the B'More WISE Program. The B'More WISE Program will provide training to 10-20 individuals interested in a career in the Water and Wastewater Industry. This apprenticeship will help mitigate staffing concerns at in DPW operations while also providing participants with job readiness and training in a specialized skill set.

Training Updates

Maintenance staff have been focusing on the preventive maintenance (PM) of the process areas. Maintenance staff trained on the Rapid Ready Cityworks software deployment on 11/15/22. The existing maintenance management software, ELKE, will be used concurrently with the Cityworks software in order to continue to capture all necessary information until such time plant staff is comfortable that all pertinent information has been transferred to the new software and the ELKE system will be phased out.

The City is moving toward a Reliability Centered Maintenance culture. Therefore, DPW is prioritizing major equipment in each process area of the plant. Preventative maintenance and continual lubrication will extend the performance and life of equipment. In support of this effort, the maintenance teams are taking a lubrication course on December 6 and 7. This is being taught by Des-Case, an industry leader in lubrication support of equipment life.

Maintenance Updates

Repairs to Gravity Sludge Thickener (GST) #4 are set to begin 11/29/22. This will provide redundancy and sludge storage capacity to aid in biosolids handling.

Two fine screens will be picked up in December for repair and replace with coarse screens in order to be used during high flows and reduce any flow restriction. Upon return of these two screens (tentatively February 2022), the last fine screen will be removed for rehabilitation. This will then account for all 8 screens receiving rehabilitation. Two new conveyors and compactors have been ordered and awaiting updated delivery schedule.

The Industrial Plant Influent (IPI) has had the motors to both screens repaired. There is a gate stem repair needed which Rotork (vendor) was on site 11/15 to investigate and provide a quote for repairs.

The Liquid Oxygen (LOX) plant backup compressor will begin December 12. The LOX plant will be ready to return to service once completed. Until such time, the plant will continue to feed dri-ox as the redundant backup.

Summary

As we continue, we are confident in a clear path forward to compliance at the Patapsco Wastewater Treatment Plant.