

April 16, 2020

Mr. Darrin Gordon  
General Manager  
Lewes Board of Public Works  
107 Franklin Avenue  
Lewes, DE 19958

**Subject: Monthly Report, March 2020**

Dear Mr. Gordon:

Attached is a summary of the Operations and Maintenance activities at the Board's lift stations and wastewater treatment plant for the month of March, 2020. Please direct any questions to my attention. Thank you.

Sincerely,

*Paul S. Peris*

Paul S. Peris  
Director of Production and Maintenance  
White Marsh Environmental Systems, Inc.

## I. Effluent Quality and Compliance

March 2020

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	1.15 /mg/L	0.07/mg/L	<2.40/mg/L	<1.2/mg/L	.<1/Col
Maximum:	N/A	N/A	<2.40/mg/L	<2.0/mg/L	Col.
Permit Limit:	8 mg /L average	2 mg /L average	15 mg/L average	15 mg/L average	10 Col. average
			23 mg/L MAX	23 mg/l MAX	104 Col. MAX

- Maximum daily flow: .9277 MGD
- Monthly average flow: .8058 MGD

## II. Activities – March 2020

### Lift Stations

- Bi-monthly lift station visits completed. Daily checks on Point Watch system for all pump stations.
- The lift station at Drake Knoll is showing deterioration of electrical components. WMES will assess and make necessary repairs.
- 3/26/2020 – Pulled the check valve and impeller on pump #2 at Lift Station #4 and removed large amounts of wipes and trash. Replaced the V-belts on pump.
- Freemire onsite to look at all lift stations with E-One pumps.

### Plant Activities

- Generator fuel tank has a small site glass to view tank levels. WM will install a float style gauge for more accurate level reading. Current level is ~ 7/8.
- Changed grit settings to have it come on four times a day to increase grit removal
- Maintenance worked on generator at plant to eliminate alarms when generator exercised.
- Process pump VFD's in Zenon room need new key pads. WMES is assessing replacements.
- Eastern Lift serviced fork lift.
- 3/8/2020 – Had an issue with alarms not calling out from computer. Josh was off site and not available until late afternoon. David Weed stayed on site to monitor the plant until Josh was able to get to the plant and correct the issues.

- 3/12/2020 - Dosed Kubota membranes with CL2 solution.
- 3/13/2020 - MLSS samples
- 3/17/2020 - replacing lights in chemical room and repaired ventilation fan.
- 3/18/2020 - special samples taken, work on items on safety report check list.
- 3/19/2020 - hosed out and cleaned chemical containment tanks in process building. Repair sump pump in digester building basement. Repaired the lid to bed drain pump station.
- 3/20/2020 - maintenance and operators cleaned up storage garage. Installed life rings on anoxic tank where needed,
- 3/24/2020 - Cleaned and power washed 5mm and 2mm screens.
- 3/25/2020 - Collected sludge samples as required for Sussex County.
- 3/25/2020 – Train #2 is having issues with shutting down on high turbidity but has been caused by air bubbles not solids in permeate. Source of air was investigated and eliminated.

### **SAFETY INFORMATION**

- No work place injuries. Days without incident: 100
- PPE inspected.
- Eyewash and fire extinguisher inspections conducted.

### **Needed from BPW**

- GMB quarterly report from February 18, 2020 inspection.

### **Attachments**

- March 2020 E-DMR
- March 2020 Membrane Turbidity Trend report
- March 2020 Influent and Effluent Report
- Sussex County pumpage numbers to Lift Station #4
- March 2020 TMP, Permeability and Production rate charts
- March 2020 WWTP Monthly Operations Report
- March 2020 Nutrient Offset Report