



Lemoyne Municipal Authority Wastewater Report

December 2, 2021

Dear Council / Authority Members:

- Reporting Month: **October 2021**
- Effluent violations: **Yes**
- Monthly EDMR submittal date: **November 17, 2021**
- Quarterly EDMR submittal date: **November 17, 2021**
- Annual EDMR submittal date: **November 17, 2021**
(Electronic Discharge Monitoring Report)

October 2021 Data Summary

Parameter	Max	Min	Average	Permit Limit
Flow (Gal.)	475,000	242,000	279,000	n/a
BOD (mg/l)	<2.0	<2.0	<2.0	25 avg 50 max
TSS (mg/l)	8.4	<4.0	<5.9	30 avg 60 max
Phosphorus (mg/l)	7.86	2.2	4.1	4.0 instant 2.0 avg
Ammonia (mg/l)	<0.1	<0.1	<0.1	Monitor & Report
Fecal Coliform (cfu)	80	<1	<17	200 (geo mean) 1,000 max
Total Residual Chlorine (mg/l)	0.61	0.14	0.3	0.5 avg 1.6 max
pH (S.U.)	8.13	7.08	n/a	6 to 9
Dissolved Oxygen (mg/l)	9.76	9.1	9.37	>5.0

- BOD- (Biological Oxygen Demand)
- TSS- (Total Suspended Solids)

Biosolids

# of Loads	Wet Tons	Dry Tons	% Solids Range
<u>2</u>	<u>29.52</u>	<u>5.63</u>	<u>18.4-19.8</u>

PA 1 Calls

Routine PA 1 Calls	Emergency PA 1 Calls
<u>41</u>	<u>2</u>

Routine Maintenance / Events

- Biosolids being hauled as generated to Cumberland County Landfill.
- Process control adjustments as required.
- Sampling and Lab Analysis.
- Daily operations ongoing including inspections, cleaning, testing and chemical replenishment.
- Ongoing completion of preventative maintenance schedule.
- Continue to implement NPDES (National Pollution Discharge Elimination System) permit.

Non-Routine Maintenance / Events

- Working with Mike Knouse on CIP information.
- Plant equipment maintenance.
- Monitoring changes made to control nutrient removal.
- Semi-Annual calibrations completed by Control Systems 21 on 4/21/21.
- Annual Form 43 completed on 4/13/21. Biosolids testing for Cumberland County Landfill.
- Additional lab testing for NPDES permit renewal.
- Working with RETTEW on UV System Design.
- Locating utilities in area of UV System.

Collection System

- Ongoing preventative maintenance on trouble spots. (solids, grit, grease, problem areas)
- Working on yearly routine flushing. Around 32,000 feet cleaned so far.

WWTP Personnel Info, Classes, Accomplishments

- Kyle Janny passed his CDL road test on 7/29/2021.
- Kyle Janny passed HACC Wastewater Operator class, and all DEP tests for Operator License.
- All plant personnel attended PA 1 Call training on 4/21/21.
- PA 1 Call recognized Lemoyne WWTP personnel on having a 100% response rate.
- Bob Oakes took a Valves- Operation and Maintenance class worth 15 hours towards licenses.
- All plant personnel reviewed our EAP (Emergency Action Plan), and our SPCC/PPC (Spill Prevention, Control & Countermeasures / Preparedness, Prevention & Contingency) plan.

Pending Issues

- Grit system not functioning properly due to being oversized. Not enough flow or velocity to work correctly.
- Digester diffusers continue to clog. Would like to replace with a non-clog diffuser like Relia Ball or similar.
- Second stage oxic tanks are not getting the amount of mixing needed since lowering the amount of air to the tanks to meet our nutrient requirements.

If you have any questions, require more information, or wish to comment on the above information, please feel free to contact me.

Respectfully,

Robert Oakes
Wastewater Superintendent