



# Lafayette Renew Monthly Informational Report August 2022

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Daily Plant Capacity (peak)—66 MGD

Lift Stations—27

Collection System Maintained—484.21 miles

Storm Pumping Stations—3

**Precipitation Total: 5.36 inches\***  
\*Total taken from daily average of five rain gauges

- \* Rome Drive LS Rehab: Change Order 1, Certificate of Substantial Completion, and Certificate of Final Completion approved by BOW. \*
- \* Ortman Lane Drainage: continue re-grading ditches and installing culvert. \*
- \* S 30th Street Drainage Phase II: grading, milling and paving road, seeding. \*
- \* 40 & 8 Lift Station & Force Main Replacement: milling and paving road, begin pump station install. \*
- \* 7th Street Storm Sewer: pre-bid meeting, open bids at BOW. \*
- \* 2021 Sanitary Sewer Rehab: Certificate of Final Completion approved by BOW. \*

Monthly Reports Submitted to the Indiana Department of Environmental Management (IDEM)  
Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report

## Operations

### Work Performed

- \* Testing different types of polymers for volute press and gravity belt thickeners.
- \* Dropped two primary clarifiers for cleaning and inspection.
- \* Pumped down headworks wet-wells to remove grit from system.
- \* Removed algae from primary and secondary clarifiers.
- \* Working on automatic Rotork valves controlling wasting flows to gravity belt thickeners.
- \* 931,860 gallons of digested sludge from storage tanks dewatered for land application program.

Necessary ground maintenance for the treatment plant was performed, daily equipment rotations continue, as well as record keeping and proper sampling procedures required by our NPDES permit.

The Operations Department continues to run a very efficient process well within our NPDES permit limits.

AUGUST	2022	2021
Wastewater Treated (MG)	527.4	510.6
Average % Solids Removed	97.1%	98.6%
Biosolids Generated (MG)	2.66 MG	2.27 MG
BOD % Removed	95.9%	96.3%
Cubic Ft. of Methane Produced (Million cubic feet)	2.15 ft <sup>3</sup>	1.71 ft <sup>3</sup>
Phosphorus	81.9%	86.4%
Ammonia Overall Treatment	97.1%	97.6%

## Laboratory

3032 Tests Performed in August

- 522 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1351 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 80 Plant and River samples for Ammonia
- 44 Ecoli analysis on Plant and River samples
- 137 Total Solids and Volatile Solids tests on sludges
- 115 Industry and River samples for independent analysis
- 128 Phosphorous tests on Plant, River, and Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 5 TKN (total kjeldahl nitrogen)
  - \* 45 Nitrate
  - \* 5 Nitrite
  - \* 39 Total Nitrogen
- 124 Chlorine samples on plant effluent samples were checked
- 48 Waste hauler samples were collected and checked

## Maintenance

Work Performed at Treatment Plant

- \* In the tunnel:
  - Replaced plug valve for #3 primary pump suction valve.
  - Rebuilt #3 grit pump.
  - Check valve on #4 primary sludge pump replaced.
  - Primary phosphorous sampler line cleaned.
  - Repaired check valve on #6 primary sludge pump.
- \* New wires pulled for a return activated sludge pump on #7 final tank.
- \* Repaired conduit for #7 final tank pumps.
- \* Access gate installed for back entrance of the plant.
- \* Suction hose repaired for #2 polymer pump in thickener building.
- \* Left side main breaker on motor control center #1 replaced.
- \* Debris removed from #2 fine screen scraper plate.
- \* Three breakers replaced in primary switch gear.
- \* Repaired emergency pull cord for fine screen conveyor.

Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Switch for exhaust fan installed at Rome Drive.
- \* Debris removed from pump #2 at Raineybrook

# Lafayette Renew

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### Stormwater

#### STORMWATER MONTHLY NUMBERS

AUGUST	2022	2021		2022	2021
Stormwater Calls	4	0	Catch Basin Repaired	8	19
Erosion Control Inspections	61	31	Ft. of Storm Sewer Jet Clean	125	0
Sweeper Debris Removal (tons)	172.6	150	Catch Basins Vac Cleaned	0	172
Catch Basin Calls	8	5	Sweeper Call	5	13

#### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* Performed 25 Best Management Practice (BMP) Inspections throughout the City.
- \* Maintenance performed on bio-swales at Veteran's Memorial Parkway (VMP), Maple Point Drive, and Concord Road, on rain gardens at the County Courthouse and on North Street, and on Jeff High School Storm Park.
- \* Grounds maintenance performed at 21 City-owned properties.
- \* Storm sewer preventative maintenance performed in the area of: Ferry St. to Oregon St. & 5th St. to 14th St.
- \* Clear and remove sediment from Farabee Drive detention pond.
- \* Clean concrete swales at Munger Park and throughout the City.
- \* Concrete washout replaced at turnaround at the plant.
- \* Large debris items picked up on main streets throughout the City.
- \* Remove sediment and debris from south side of Teal Road drainage ditch from 2655 Teal Road to 3281 Teal Road.

### Surveillance

#### Performed Surveillance

**SIGNIFICANT:** Nanshan, Arconic, ZF, Caterpillar, SIA, Kelly Construction, and Primient (formerly Tate & Lyle South)

**GENERAL:** Southwire

#### Annual Industrial Pretreatment Inspections

Transport Service and Foodliner

#### Grease Traps

Interior Insp. - 57	Plan Reviews - 8
Exterior Insp. - 64	Rough-in Insp. - 3
Oil/Grit Sep. Insp. - 17	Under Slab Insp. - 1
Business Compliance Meetings - 2	Final Insp. - 0

#### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling and creek & ditch sampling performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Sludge Analysis Report was submitted to IDEM.
- \* Local Limits testing performed at permitted industrial sites.
- \* Foodliner (formerly Lafayette Sani Wash) Permit renewal approved by BOW.
- \* Industrial parks were investigated for businesses that are new or of interest.
- \* Sampling performed for future rapid treatment center at the plant.

#### Biosolids Land Application Program

- ◆ Volute press (landfilled) - 1,852.47 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

### Sewers

#### SEWER MONTHLY NUMBERS

AUGUST	2022	2021		2022	2021
Backup Calls	9	6	Manhole Frames Raised	3	1
City Blockages	0	0	Manholes Repaired	0	0
Sanitary Calls	16	19	Ft. of Sanitary Sewer Repaired	0	3
Odor Calls	3	3	Ft. of Sewer Jet Cleaned	302	40
Tap Inspections	48	27	Ft. of Sewer Jet Cleaned—PM	104,838	44,462
Sewer Locates	1,854	1,177	Ft. of Sewer Televised	650	297

#### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Clean Pearl River Lift Station compound.
- \* Final tank scum trough cleaned.
- \* Oil changed in cement mixer trucks.
- \* Built an emergency air supply system for aeration tanks.
- \* Sewer repairs completed at:
  - 2323 Shoshone Court
  - 1426 Canal Road
  - 2122 N 19th Street
  - N 5th Street & Alabama Street
  - N 7th Street & Hartford Street
  - 3645 Roundrock Court