



# Lafayette Renew

## Monthly Informational Report

### July 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: 1.32 inches\***  
\*Total taken from daily average of five rain gauges

- \* CSO LTCP Phase II-C: install native plants, contract close-out, Certificate of Final Completion approved by BOW. \*
- \* Ortman Lane Drainage: re-grade ditches and install culvert. \*
- \* 40 & 8 Lift Station & Force Main Replacement: install wet well. \*
- \* CSO LTCP Phase II-D: personnel conducted site visits to Nappanee, Rushville, and North Vernon. \*
- \* Miscellaneous WWTP Improvements: Quote opening, Contract and Notice to Proceed with Bowen Engineering approved by BOW. \*
- \* 7th Street Storm Sewer: Request to Advertise to Bid approved by BOW. \*
- \* 2021 Sanitary Sewer Rehab: Change Order No. 1, and Certificates of Substantial Completion and 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

#### Work Performed

- \* One aeration basin taken offline to acid wash fine bubble diffusers.
- \* Dropped three primary clarifiers for cleaning and inspection.
- \* Pumped down headworks wet-wells to remove grit from system.
- \* Removed algae from primary and secondary clarifiers.
- \* Dropped and inspected both grit removal tanks.
- \* 758,000 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.

## Operations

JULY	2022	2021
Wastewater Treated (MG)	481.6	579.6
Average % Solids Removed	96.8%	97.0%
Biosolids Generated (MG)	2.20 MG	2.41 MG
BOD % Removed	95.8%	96.3%
Cubic Ft. of Methane Produced (Million cubic feet)	2.26 ft <sup>3</sup>	1.90 ft <sup>3</sup>
Phosphorus	82.0%	80.7%
Ammonia Overall Treatment	97.2%	98.9%

## Laboratory

3057 Tests Performed in July

- 568 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1371 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
- 38 Ecoli analysis on Plant and River samples
- 141 Total Solids and Volatile Solids tests on sludges
- 76 Industry and River samples for independent analysis
- 129 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
- 47 Waste hauler samples were collected and checked

## Maintenance

#### Work Performed at Treatment Plant

- \* Performed inspection for primary tanks.
- \* Repaired #2 grit washer in headworks building.
- \* Glycol leak in mechanical room in admin building repaired.
- \* Two pumps repaired in boiler building for heating system.
- \* Repaired #1 polymer pump in thickener building.
- \* All rotork valve back-up batteries replaced.
- \* Access to behind plant cleared of brush.
- \* Repaired wires on #6 return activated sludge pump.

#### Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Repaired and installed #2 pump at Ross Road.
- \* Repaired #1 pump drain line at Pearl River.
- \* Access door at Rome Drive repaired.
- \* Replaced all Omni-site back-up batteries.

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## Stormwater

### STORMWATER MONTHLY NUMBERS

JULY	2022	2021		2022	2021
Stormwater Calls	0	9	Catch Basin Repaired	3	5
Erosion Control Inspections	67	51	Ft. of Storm Sewer Jet Clean	360	0
Sweeper Debris Removal (tons)	143	173	Catch Basins Vac Cleaned	0	109
Catch Basin Calls	3	7	Sweeper Call	12	21

### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* 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.
- \* Clean sediment trap at Fairgrounds.
- \* Clear and remove sediment from Farabee Drive detention pond.
- \* Completed bank stabilization at 1925 Durkees Run Drive.
- \* Pressure wash graffiti off and repaint concrete walls at Fairgrounds Outfall.
- \* Cut down and trim back trees growing in drainage bio-swales 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:** Cargill, Tate & Lyle North, Rea Magnet Wire, and Fairfield

**GENERAL:** none

### Annual Industrial Pretreatment Inspections

Primient (formerly Tate & Lyle South)

### Grease Traps

Interior Insp. - 20	Plan Reviews - 10
Exterior Insp. - 75	Rough-in Insp. - 0
Oil/Grit Sep. Insp. - 44	Under Slab Insp. - 1
Business Compliance Meetings - 4	Final Insp. - 1

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Sludge Analysis Report was submitted to IDEM.
- \* Local Limits testing performed at permitted industrial sites.
- \* Plant Total Toxic Organic scan completed.
- \* Dye test performed at 700 N. 28th Street to confirm connection to City sewer.
- \* Performed site visit at Foodliner (formerly Lafayette Sani Wash)

### Biosolids Land Application Program

- ◆ Volute press (landfilled) - 182.16 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

## Sewers

### SEWER MONTHLY NUMBERS

JULY	2022	2021		2022	2021
Backup Calls	7	6	Manhole Frames Raised	4	0
City Blockages	0	1	Manholes Repaired	0	0
Sanitary Calls	9	6	Ft. of Sanitary Sewer Repaired	0	14
Odor Calls	3	1	Ft. of Sewer Jet Cleaned	808	187
Tap Inspections	38	41	Ft. of Sewer Jet Cleaned—PM	99,767	42,976
Sewer Locates	1,523	1,274	Ft. of Sewer Televised	1,016	1,132

### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Cleaned and organized equipment storage areas.
- \* Raised manholes on Greenbush Street following paving.
- \* Cleaned and televised sewer on N. 8th Street to assist gas company installing new gas mains.
- \* Replaced manholes on Old Romney Road prior to road work.