



# Lafayette Renew

## Monthly Informational Report

### January 2022

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Daily Plant Capacity (peak)—66 MGD  
Collection System Maintained—484.21 miles

Lift Stations—27  
Storm Pumping Stations—3

Precipitation Total: 0.45" inches\*  
\*Total taken from daily average of five rain gauges

- \* CSO LTCP Phase II-C: final pipe inspection, begin installation of solar panel base. \*
- \* 2021 Sanitary Sewer Rehabilitation: begin cleaning and televising of lines. \*
- \* S. 30th Street Drainage Phase II: bid opening conducted 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

- \* Preventative maintenance of #1 process air blower performed.
- \* Fine screen equipment safety shields removed for cleaning and inspection.
- \* Cleaned Motor Control Center (MCC) panels and filters throughout the plant.
- \* Pumped down headworks wet wells to remove grit from system.
- \* Pressure washed digester building and equipment.
- \* Dropped and inspected both grit removal tanks.
- \* Worked on issues with MCC 11 process blower panels.
- \* Continued upgrades to the SCADA system.
- \* Personnel assisted with sludge trucks for the biosolids land application program.
- \* 1,304,776 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

\*lower flow due to COVID-19

<u>JANUARY</u>	<u>2022</u>	<u>2021</u>
Wastewater Treated (MG)	499.6	426.8*
Average % Solids Removed	97.8%	97.3%
Biosolids Generated (MG)	2.12 MG	1.92 MG
BOD % Removed	97.5%	97.6%
Cubic Ft. of Methane Produced (Million cubic feet)	2.27 ft <sup>3</sup>	1.60 ft <sup>3</sup>
Phosphorus	82.4%	80.9%
Ammonia Overall Treatment	99.3%	99.9%

## Laboratory

2374 Tests Performed in January

- 448 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1113 Total Suspended Solids and 403 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 74 Plant and River samples for Ammonia
- 4 Ecoli analysis on Plant and River samples
- 141 Total Solids and Volatile Solids tests on sludges
- 31 Industry and River samples for independent analysis
- 103 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)
  - \* 12 Nitrate
  - \* 5 Nitrite
  - \* 24 Total Nitrogen
- 32 Waste hauler samples were collected and checked

## Maintenance

Work Performed at Treatment Plant

- \* Replaced coupling on #2 polymer pump for gravity belt thickeners.
- \* In the headworks, replaced wear rings on #2 raw sewage pump and removed exhaust duct for #1 and #2 coarse screens.
- \* Removed humidifier and air compressors from mechanical room in the admin building.
- \* Replaced wires for the #19 return activated sludge pump for #6 final clarifier.
- \* Gear assembly for 3A valve in digester replaced.
- \* Repaired sump pump in the plant tunnel.
- \* Photo cell on light pole for stormwater pump station replaced.

Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Engine block heater on generator replaced at Hickory Hills.

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### Stormwater

#### STORMWATER MONTHLY NUMBERS

JANUARY	2022	2021		2022	2021
Stormwater Calls	4	0	Catch Basin Repaired	0	0
Erosion Control Inspections	40	63	Ft. of Storm Sewer Jet Clean	142	0
Sweeper Debris Removal (tons)	57.28	14.79	Catch Basins Vac Cleaned	1	0
Catch Basin Calls	0	3	Sweeper Call	7	7

#### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* Performed 15 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.
- \* Grounds maintenance performed at seven City-owned properties.
- \* Sweeper heads cleaned and replaced worn parts.
- \* Brush head built for bobcat to spread limestone into pavers.
- \* Installed flex-mat for cleaning access at drainage area on Duroc Court.
- \* Spill Kits for all City departments replenished.
- \* Began clearing trees and debris out of detention pond on Farabee Court.
- \* Clear drainage swales at Graham Court, Munger Park, and Twyckenham subdivision.

### Surveillance

#### Performed Surveillance

**SIGNIFICANT:** Caterpillar, Kelly Construction, Cargill, and Tate & Lyle North

**GENERAL:** none

#### Annual Industrial Pretreatment Inspections

none

#### Grease Traps

Interior Insp. - 20	Plan Reviews - 5
Exterior Insp. - 38	Rough-in Insp. - 2
Oil/Grit Sep. Insp. - 19	Under Slab Insp. - 3
Business Compliance Meetings - 4	Final Insp. - 2

#### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling performed.
- \* Field inspections performed on permitted ground for the Biosolids Land Application program.
- \* Researched MS4 Requirements for commercial businesses.
- \* Durkees Overflow data downloaded for IDEM monthly report.
- \* Industrial User Quarterly Non-Compliance Report submitted to IDEM.
- \* Followed up on Miscellaneous Industrial User Applications that were sent out to area businesses.
- \* Extension granted to Cargill for meter switchover.

#### Biosolids Land Application Program

- ◆ Biosolids hauled - 1.36 MG w/ average % solids of 5.30%
- ◆ Volute press (landfilled) - 83.21 dry tons
- ◆ The monthly Land Application of Biosolids report and Sludge Analysis was submitted to IDEM.

### Sewers

#### SEWER MONTHLY NUMBERS

JANUARY	2022	2021		2022	2021
Backup Calls	14	20	Manhole Frames Raised	0	1
City Blockages	1	1	Manholes Repaired	0	0
Sanitary Calls	3	7	Ft. of Sanitary Sewer Repaired	3	0
Odor Calls	0	0	Ft. of Sewer Jet Cleaned	125	1,682
Tap Inspections	32	41	Ft. of Sewer Jet Cleaned—PM	8,007	33,943
Sewer Locates	557	751	Ft. of Sewer Televised	224	1,273

#### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Sewer repair performed at N. 23rd Street and Ferry Street.
- \* Repairs made to Rome Drive force main.
- \* Catch basin risers created.
- \* Sewer sealed laterals at old golf course clubhouse.
- \* Repairs made as needed on snow plows and salt boxes.