



Lafayette Renew

Monthly Informational Report

February 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: 2.28" inches*
*Total taken from daily average of five rain gauges

* CSO LTCP Phase II-C: continue installation of solar panel base. *

* 2021 Sanitary Sewer Rehabilitation: continue cleaning and televising of lines. *

* S. 30th Street Drainage Phase II: Notice of Award, Contract, Notice to Proceed, and Change Order 1 with Atlas approved by BOW. *

* 40 & 8 LS and Force Main Replacement: bid opening, Notice of Award, Contract, Notice to Proceed with Bowen approved by BOW; pre-con meeting held. *

* 6th Street Water Relief Pumping Station: design contract with Butler, Fairman & Seufert approved by BOW. *

* 7th Street Storm Sewer: contract with Butler, Fairman, & Seufert 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

- * New waste dumpster conveyance system for fine screenings dumpster area and for grit and volute press solids dumpster area was installed.
- * Steam cleaned fine screen and grit dumpster areas.
- * New switches installed for programmable logic controller (PLC) panels.
- * Worked on issues with Rotork actuator valves throughout the plant.
- * Pumped down headworks wet wells to remove grit from system.
- * New bleach pump installed in chemical building; also preparing for chemical season that will begin April 1.
- * Dropped and inspected both grit removal tanks.
- * 657,465 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

FEBRUARY	2022	2021
Wastewater Treated (MG)	640.5	419.5*
Average % Solids Removed	96.0%	96.6%
Biosolids Generated (MG)	1.74 MG	1.99 MG
BOD % Removed	97.0%	97.7%
Cubic Ft. of Methane Produced (Million cubic feet)	2.42 ft ³	1.73 ft ³
Phosphorus	80.3%	84.5%
Ammonia Overall Treatment	96.2%	99.8%

Laboratory

2263 Tests Performed in February

- 445 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1032 Total Suspended Solids and 364 Total Volatile Solids
- 168 pH tests on wastewater and sludges
- 168 Settleable solids were conducted on the mixed liquors
- 69 Plant and River samples for Ammonia
- 11 Ecoli analysis on Plant and River samples
- 128 Total Solids and Volatile Solids tests on sludges
- 52 Industry and River samples for independent analysis
- 95 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)
 - * 5 Nitrate
 - * 5 Nitrite
 - * 40 Total Nitrogen
- 41 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Repaired #7 & #8 ferric pump in thickener building.
- * 1A recirculation pump repaired in digester building.
- * Repaired a leak on #1 grit pump and on #1 grit washer.
- * Personal Protective Equipment signs installed throughout the plant.
- * Replaced polymer tubing for gravity belt thickeners.
- * #2 fine screen repaired at headworks building.
- * Repaired #13 return activated sludge pump for #7 final tank.
- * Hose for bleach analyzer pump in contact tank repaired.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Pipes painted at Prairie Oaks and Ross Road.

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Stormwater

STORMWATER MONTHLY NUMBERS

FEBRUARY	2022	2021		2022	2021
Stormwater Calls	4	1	Catch Basin Repaired	0	0
Erosion Control Inspections	64	27	Ft. of Storm Sewer Jet Clean	0	0
Sweeper Debris Removal (tons)	57.28	14.95	Catch Basins Vac Cleaned	4	4
Catch Basin Calls	8	3	Sweeper Call	2	1

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed seven Best Management Practice (BMP) Inspections throughout the City and worked on Illicit Discharge Detection and Elimination (IDDE) program.
- * 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 seven City-owned properties.
- * Sweeper heads cleaned and replaced worn parts.
- * Removed brush from LUR ditch.
- * Personnel attended Local Technical Assistance Program (LTAP) Drainage Conference and TCPWQ Contractors Workshop.
- * Painted concrete structures at Jeff Storm Park.

Surveillance

Performed Surveillance

SIGNIFICANT: Tate & Lyle South, Subaru of Indiana Automotive, Industrial Plating, Caterpillar, Rea Magnet Wire, and DANA
GENERAL: none

Annual Industrial Pretreatment Inspections

none

Grease Traps

Interior Insp. - 24	Plan Reviews - 0
Exterior Insp. - 36	Rough-in Insp. - 1
Oil/Grit Sep. Insp. - 10	Under Slab Insp. - 1
Business Compliance Meetings—2	Final Insp. - 1

Work Performed

- * Industrial meters read for billing purposes.
- * River, creek and ditch sampling performed.
- * Dye test was completed at 405, 445, and 511 Creasy Ln. to confirm connection for the Utility Billing office.
- * Research continues on MS4 Requirements for commercial businesses.
- * Durkees Overflow data downloaded for IDEM monthly report.
- * 503 Land Application Report was submitted to the Environmental Protection Agency (EPA).
- * Annual Safety training was completed.

Biosolids Land Application Program

- ◆ Biosolids hauled - 0 MG
- ◆ Volute press (landfilled) - 56.44 dry tons
- ◆ The monthly Land Application of Biosolids report and Sludge Analysis was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

FEBRUARY	2022	2021		2022	2021
Backup Calls	23	16	Manhole Frames Raised	0	0
City Blockages	2	1	Manholes Repaired	0	0
Sanitary Calls	4	6	Ft. of Sanitary Sewer Repaired	0	5
Odor Calls	1	1	Ft. of Sewer Jet Cleaned	2,292	370
Tap Inspections	21	21	Ft. of Sewer Jet Cleaned—PM	0	0
Sewer Locates	613	506	Ft. of Sewer Televised	3,545	391

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Televised City sewer lines in Oaklawn Avenue area to prepare for work on separation of sanitary and storm lines.
- * Repairs made as needed on snow plows and salt boxes.