



Monthly Informational Report December 2022

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Daily Plant Capacity (peak)—66 MGD

Storm Pumping Stations—3

Collection System Maintained—484.21 miles

Lift Stations—27

Precipitation Total: 1.32 inches*

*Total taken from daily average of five rain gauges

- * 40 & 8 Lift Station & Force Main Replacement: pump station install complete.
- * 7th Street Storm Sewer Relocation: storm sewer installation completed.
- * Service Area 11B: project survey work conducted.
- * Approved by BOW :
 - S. 30th Street Drainage Phase II: Change Order No. 2 and Certificate of Final Completion with Atlas Excavating.
 - Vinton Woods Stormwater Conveyance: Notice of Award, Contract, and Notice to Proceed with Bowen Engineering.
 - CSO LTCP (Phase 2C): Certificate of Final Completion with Bowen Engineering.

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

- * Dropped and inspected four of the final clarifiers.
- * Contact tank was dropped to get measurements for new skimmer installation.
- * Pumped down headworks wet well to remove grit from the system.
- * Cleaned and pressure washed dumpster areas, volute press, and other equipment as needed.
- * Ferric pumps filter cleaned and one pump head replaced.
- * Trained new operations technician.
- * 908,738 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.

DECEMBER	2022	2021
Wastewater Treated (MG)	440.9	559.7
Average % Solids Removed	96.8%	97.0%
Biosolids Generated (MG)	1.97 MG	2.25 MG
BOD % Removed	97.7%	97.1%
Cubic Ft. of Methane Produced (Million cubic feet)	1.87 ft ³	1.89 ft ³
Phosphorus	79.3%	78.9%
Ammonia Overall Treatment	98.9%	98.0%

Laboratory

2441 Tests Performed in December

- 407 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1263 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 68 Plant and River samples for Ammonia
- 4 Ecoli analysis on Plant and River samples
- 128 Total Solids and Volatile Solids tests on sludges
- 8 Industry and River samples for independent analysis
- 112 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)
 - * 10 Nitrate
 - * 5 Nitrite
 - * 20 Total Nitrogen
- 30 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Relieved water in flame arrestor for waste gas burner at digester building and repaired two drip pots on gas lines.
- * Winterized bleach building and all chemical lines.
- * Replaced grit tank light bulbs in headworks building.
- * Bearings replaced and realigned #2 coarse screen.
- * Grit dumpster reverse proximity sensor replaced in fine screen room.
- * Replaced #1 storage tank withdrawal valve in storage tank pump room.
- * Hoses for primary tanks repaired.
- * Replaced motor on #2 hot water supply pump in thickener building.
- * Broken water line in blower building repaired.
- * Removed debris from #11 return activated sludge pump.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Painted the bollards at Canal Street Storm.

Lafayette Renew Monthly Informational Report

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Stormwater

STORMWATER MONTHLY NUMBERS

DECEMBER	2022	2021		2022	2021
Stormwater Calls	0	2	Catch Basin Repaired	0	0
Erosion Control Inspections	46	39	Ft. of Storm Sewer Jet Clean	0	110
Sweeper Debris Removal (tons)	62.5	72.2	Catch Basins Vac Cleaned	0	5
Catch Basin Calls	2	1	Sweeper Call	8	6

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed 12 Best Management Practice (BMP) Inspections throughout the City and worked on Illicit Discharge Detection and Elimination (IDDE) program.
- * Maintenance performed on bio-swailes 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 18 City-owned properties.
- * Conveyance channel work at Crosser Softball Field.
- * Cut back trees at detention area across from Renew property.
- * Large items along Sagamore Pkwy, South Street, and SR 38 picked up for street sweeping.
- * Personnel attended annual Stormwater Good Housekeeping Workshop.
- * Standard Operating Procedures (SOP) created for Brine truck operation and filling.

Surveillance

Performed Surveillance

SIGNIFICANT: Caterpillar and Kelly Construction

GENERAL: Foodliner

Annual Industrial Pretreatment Inspections

Cargill

Grease Traps

Interior Insp. - 30	Plan Reviews - 6
Exterior Insp. - 68	Rough-in Insp. - 1
Oil/Grit Sep. Insp. - 31	Under Slab Insp. - 0
Business Compliance Meetings - 1	Final Insp. - 0

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling performed.
- * Durkees Overflow data downloaded for monthly report.
- * Soil sampling performed on permitted ground for the biosolids land application program.
- * Personnel gave presentation to local high school students.
- * Site visit performed for miscellaneous industrial users.
- * Personnel attended 2023 Wastewater Challenge meeting.

Biosolids Land Application Program

- ◆ Volute press (landfilled) - 74.1 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

DECEMBER	2022	2021		2022	2021
Backup Calls	11	12	Manhole Frames Raised	0	0
City Blockages	1	1	Manholes Repaired	0	0
Sanitary Calls	5	0	Ft. of Sanitary Sewer Repaired	0	0
Odor Calls	3	2	Ft. of Sewer Jet Cleaned	480	185
Tap Inspections	31	30	Ft. of Sewer Jet Cleaned—PM	16,353	36,759
Sewer Locates	978	630	Ft. of Sewer Televised	772	563

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Clean catch basin areas throughout the City.
- * Quarterly manhole checks performed.
- * Blockage follow-up performed in 2200 block of Kossuth Street.
- * Install catch basin at N. 22nd Street and Ferry Street.
- * Investigate sewer issue in 1400 block of Adams Street.
- * Inspect salt boxes and plows in preparation for forecasted snow.