



Monthly Informational Report

October 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: 2.11 inches*

*Total taken from daily average of five rain gauges

- * Vinton Woods Stormwater Conveyance: neighborhood meeting held.
- * CSO LTCP (Phase 2D): site visit to Rensselaer.
- * S. 30th Street Drainage Phase II: continue punch list.
- * 40 & 8 Lift Station & Force Main Replacement: continue pump station install.
- * Approved by BOW :
 - WWTP Solar Field: open bids.
 - 4th St Sewer Realign: Supplemental Agreement w/ BFS.
- * Personnel participated in Wonders on the Wabash.
- * Renew had an educational booth at Tate North’s Health & Safety Fair.
- * Personnel attended safety training for Backhoe, Bobcat, Boom Truck, and Snow Plowing.

Monthly Reports Submitted to the Indiana Department of Environmental Management (IDEM)

Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report

Work Performed

- * Two aeration basins taken offline and pumped down for diffuser maintenance.
- * One of the grit pumps repaired as well as #1 grit tank, and pumped down headworks wet well to remove grit from the system.
- * Removed algae from primary and secondary clarifiers.
- * Repairs made to the automatic controlled waste activated sludge valves.
- * Began using new feed pumps for the gravity belt thickener.
- * 1,323,443 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.

Operations

*high flow due to 8.43 avg rain rcvd

OCTOBER	2022	2021
Wastewater Treated (MG)	447.6	735.0*
Average % Solids Removed	97.6%	96.4%
Biosolids Generated (MG)	2.30 MG	2.05 MG
BOD % Removed	97.0%	94.2%
Cubic Ft. of Methane Produced (Million cubic feet)	2.10 ft ³	2.01 ft ³
Phosphorus	83.5%	77.5%
Ammonia Overall Treatment	99.5%	96.6%

Laboratory

2862 Tests Performed in October

- 551 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1332 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
- 38 Ecoli analysis on Plant and River samples
- 138 Total Solids and Volatile Solids tests on sludges
- 36 Industry and River samples for independent analysis
- 122 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
 - * 25 Total Nitrogen
- 120 Chlorine samples on plant effluent samples were checked
- 35 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Vibration sensor on #4 raw sewage pump replaced in headworks .
- * In the thickener building, replaced exterior light timer, repaired #1 polymer pump, and repaired eye wash for ferric containment.
- * In the digester building, removed debris from 3A circulation pump, replaced monitor for boiler programmable logic center, replaced worn gear actuator in 3A valve, and replaced belts on 2nd floor exhaust fan.
- * Installed equipment railing in #4 blower PLC in blower building.
- * Replaced #1 grit tank motor.
- * Skimmer arm bracket replaced on #6 final tank.
- * Repaired leaks in #1 & #5 aeration tank diffusers.
- * Debris removed off #2 coarse screen.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Generator block heater hose replaced at Prairie Oaks.
- * Repaired air relief valves at Ross Road.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

OCTOBER	2022	2021		2022	2021
Stormwater Calls	1	7	Catch Basin Repaired	2	12
Erosion Control Inspections	45	57	Ft. of Storm Sewer Jet Clean	0	265
Sweeper Debris Removal (tons)	96.2	162	Catch Basins Vac Cleaned	10	7
Catch Basin Calls	4	5	Sweeper Call	14	12

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed 6 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 19 City-owned properties.
- * Storm sewer preventative maintenance performed in the area of: Ferry St. to Oregon St. & 5th St. to 14th St.
- * Clean inlet and outlet pipes at McCaw Park detention pond.
- * Repair culvert pipe damage on Veterans Memorial Parkway.
- * Repair pavers on N. 7th Street & North Street.
- * Tree across drainage ditch behind 3227 Cedar Lane removed.
- * Vinton Woods sediment trap cleaned.
- * Work with Tree Lafayette removing & installing trees downtown.

Surveillance

Performed Surveillance

SIGNIFICANT: Nanshan, Arconic, Rea Magnet, DANA, ZF, Primient, and SIA

GENERAL: none

Annual Industrial Pretreatment Inspections

Tate & Lyle North, Foodliner, and Nanshan

Grease Traps

Interior Insp. - 19	Plan Reviews - 11
Exterior Insp. - 35	Rough-in Insp. - 2
Oil/Grit Sep. Insp. - 13	Under Slab Insp. - 1
Business Compliance Meetings - 2	Final Insp. - 2

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.
- * Educational material regarding proper grease disposal distributed to residents in apartments downtown.
- * Personnel attended a leadership conference.

Biosolids Land Application Program

- ◆ Biosolids hauled - 4.8 MG with 4.16% average % solids
- ◆ Volute press (landfilled) - 5.5 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

OCTOBER	2022	2021		2022	2021
Backup Calls	12	13	Manhole Frames Raised	1	2
City Blockages	1	1	Manholes Repaired	0	0
Sanitary Calls	14	8	Ft. of Sanitary Sewer Repaired	0	0
Odor Calls	3	1	Ft. of Sewer Jet Cleaned	5	595
Tap Inspections	31	33	Ft. of Sewer Jet Cleaned—PM	85,140	68,527
Sewer Locates	1,395	1,031	Ft. of Sewer Televised	464	0

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.
- * Salt box and snow plow inspections performed.
- * Truck #364 in for repairs.
- * Handed out Sewer Preventative Maintenance notices.