



Monthly Informational Report November 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: 1.61 inches*

*Total taken from daily average of five rain gauges

- * S. 30th Street Drainage Phase II: continue punch list.
- * 40 & 8 Lift Station & Force Main Replacement: continue pump station install.
- * 7th Street Storm Sewer Relocation: close 7th Street, begin storm sewer installation
- * Approved by BOW :
 - Ortman Lane Drainage: Change Order and Certificate of Final Completion.
 - Vinton Woods Stormwater Conveyance: Request to Advertise to Bid and open bids; also a pre-bid meeting was held.
 - Misc. WWTP Improvements: Notice of Selection.
- * Personnel attend training for jet hose safety, as well as backhoe, excavator, and bobcat training, Stop the Bleed training, and attended snow plow meetings.

Monthly Reports Submitted to the Indiana Department of Environmental Management (IDEM) Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report

Work Performed

- * Disinfection season ended October 31 and chemical tanks were emptied and inspected, and chemical feed lines were cleared.
- * Dropped and inspected one of the primary clarifiers.
- * Pumped down headworks wet well to remove grit from the system.
- * Removed algae from primary and secondary clarifiers.
- * Winterized outbuildings.
- * Trained new operations technician.
- * 1,016,055 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

NOVEMBER	2022	2021
Wastewater Treated (MG)	428.3	489.2
Average % Solids Removed	97.6%	97.7%
Biosolids Generated (MG)	2.08 MG	2.09 MG
BOD % Removed	97.5%	97.2%
Cubic Ft. of Methane Produced (Million cubic feet)	2.00 ft ³	1.70 ft ³
Phosphorus	83.3%	82.6%
Ammonia Overall Treatment	99.7%	99.0%

Laboratory

2543 Tests Performed in November

- 479 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1277 Total Suspended Solids and 480 Total Volatile Solids
- 180 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 66 Plant and River samples for Ammonia
- 4 Ecoli analysis on Plant and River samples
- 137 Total Solids and Volatile Solids tests on sludges
- 8 Industry and River samples for independent analysis
- 117 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
 - * 23 Total Nitrogen
- 6 Chlorine samples on plant effluent samples were checked
- 36 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * #3 aeration tank air diffusers cleaned.
- * Replaced water supply valve for polymer pumps and replaced breaker for three ferric pumps in thickener building.
- * Belts replaced on gravity belt thickener.
- * Repaired #1 boiler in digester building.
- * Directional valve for #1 coarse screen in headworks replaced and bearings were replaced for the #2 coarse screen and realigned.
- * Replaced heater in blowers generator.
- * Dead ends on water pumps plugged off on new CAT generators.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Debris removed from pump #2 at Crouch.
- * Air relief valve replaced at Golf Course.
- * Alarm system replaced at Ashton Woods.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

NOVEMBER	2022	2021		2022	2021
Stormwater Calls	1	2	Catch Basin Repaired	0	0
Erosion Control Inspections	74	34	Ft. of Storm Sewer Jet Clean	155	15
Sweeper Debris Removal (tons)	24.7	94.21	Catch Basins Vac Cleaned	71	96
Catch Basin Calls	0	1	Sweeper Call	9	13

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-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 16 City-owned properties.
- * Storm sewer preventative maintenance performed in the area of: Cason St. to Grove St. and N. 14th St. to N. 23rd St.
- * Winterized all sweepers.
- * Blacktop millings spread along dike road at the plant.
- * Sweepers assisted Street Department with leaf removal throughout the City.
- * Downtown area cleaned for Christmas Parade.

Surveillance

Performed Surveillance

SIGNIFICANT: Cargill, Tate North, Industrial Plating, and Ice Cream Specialties

GENERAL: none

Annual Industrial Pretreatment Inspections

Ice Cream Specialties

Grease Traps

Interior Insp. - 22	Plan Reviews - 7
Exterior Insp. - 75	Rough-in Insp. - 1
Oil/Grit Sep. Insp. - 34	Under Slab Insp. - 1
Business Compliance Meetings - 3	Final Insp. - 2

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling and creek & ditch sampling performed.
- * Durkees Overflow data downloaded for monthly report.
- * Soil sampling performed on permitted ground for the biosolids land application program.
- * Personnel met with Tate North regarding Industrial User permit renewal and Nitrate limits.
- * Permit for Caterpillar renewal approved by BOW.
- * Site visit performed at Cargill.

Biosolids Land Application Program

- ◆ Volute press (landfilled) - 130.87 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

NOVEMBER	2022	2021		2022	2021
Backup Calls	14	8	Manhole Frames Raised	5	0
City Blockages	0	1	Manholes Repaired	0	0
Sanitary Calls	7	5	Ft. of Sanitary Sewer Repaired	0	0
Odor Calls	3	2	Ft. of Sewer Jet Cleaned	0	0
Tap Inspections	26	34	Ft. of Sewer Jet Cleaned—PM	35,984	64,699
Sewer Locates	1,157	964	Ft. of Sewer Televised	94	1,146

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.
- * Install concrete markers on force mains.
- * Replaced rings and lids on three manholes on Greenbush Street.
- * Manhole on Brady Lane patched.
- * Reset safety bollards at 9th Street Storm Lift Station.
- * Two manholes at the plant were rehabbed.
- * Quarterly manhole checks performed.