



Monthly Informational Report December 2023

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Daily Plant Capacity (peak)—66 MGD

Storm Pumping Stations—3

Collection System Maintained—484.78 miles

Lift Stations—27

Precipitation Total: 2.06 inches*

*Total taken from daily average of five rain gauges

* Approved by BOW:

— Prairie Oaks Sanitary Sewer Rehabilitation: Certificate Notice of Award, Contract & Notice to Proceed w/ Inliner Solutions

— MS4 PP&GH SWPPP—Contract Amendment 1 w/ Christopher Burke B. Eng.

* Personnel attended Good Housekeeping Workshop.

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

Work Performed

- * Removed algae from primary and secondary clarifier weirs.
- * Debris removed from six aeration basins.
- * The #2 anaerobic digester seeded and put in service.
- * Pumped down headworks wet wells to remove grit from the system.
- * Insulated exterior chemical lines and sludge lines.
- * Fine screen conveyor system cleaned of grease and debris.
- * Fine screen channels flushed and exercised the gates.
- * 390,150 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

DECEMBER	2023	2022
Wastewater Treated (MG)	420.3	440.9
Average % Solids Removed	96.7%	96.8%
Biosolids Generated (MG)	2.2 MG	1.97 MG
BOD % Removed	96.6%	97.7%
Cubic Ft. of Methane Produced (Million cubic feet)	1.67 ft ³	1.87 ft ³
Phosphorus	83.8%	79.3%
Ammonia Overall Treatment	99.2%	98.9%

Laboratory

2464 Tests Performed in March

- 395 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1268 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 85 Plant and River samples for Ammonia
- 4 E.coli analysis on Plant and River samples
- 136 Total Solids and Volatile Solids tests on sludges
- 9 Industry and River samples for independent analysis
- 106 Phosphorous tests on Plant, Industry, and River/Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
 - * 6 TKN (total kjeldahl nitrogen)
 - * 19 Nitrate
 - * 6 Nitrite
- 35 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Replaced #2 raw sewage pump in headworks building.
- * #19 return activated sludge pump replaced in #10 final clarifier.
- * Repaired #3 ferric pump in thickener building.
- * Grounds maintenance performed at Pearl River tunnel vent area.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Repaired generator heater at Ross Road.
- * #2 pump at Masons Ridge replaced.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

DECEMBER	2023	2022		2023	2022
Catch Basin Calls	1	2	Erosion Control Inspections	37	46
Sweeper Calls	14	8	Catch Basins Repaired	0	0
Sweeper Debris Removal (tons)	77.4	62.5	Catch Basins Cleaned	0	0
Stormwater Calls	0	0	Ft. of Storm Sewer Jet Clean	125	0

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Worked on the 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 14 City-owned properties.
- * Assisted Street Dept. with leaf pick-up.
- * Clean and winterize small equipment.
- * Picked up trash along South Street and Sagamore Pkwy.
- * Installed salt boxes on pickup trucks.

Surveillance

Performed Surveillance

SIGNIFICANT: Nanshan, Arconic, Industrial Plating, and Ice Cream Specialties

GENERAL: none

Annual Industrial Pretreatment Inspections

Cargill and Tate & Lyle North

GREASE TRAPS

Interior Inspection	20	Business Compliance Meeting	4
Exterior Inspection	61	Rough-in Inspection	0
Oil/Grit Separator Inspection	21	Final Inspection	2
Plan Reviews	5	Under Slab Inspection	0

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling was performed.
- * Durkees Overflow data downloaded for monthly report.
- * Site visits conducted at KAG Specialty Group (formerly Transport Service).
- * Annual equipment and evaluation and maintenance performed.
- * Miscellaneous Industrial Site visits performed at TDS Automation, Wee Engineering, Jiminez Detailing, and Advanced Power Technologies.

Biosolids Land Application Program

- ◆ Biosolids hauled (land applied) - none
- ◆ Volute press (landfilled) - 226.80 dry tons
- ◆ Soil sampling performed on fields permitted through the Land Application program.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

DECEMBER	2023	2022		2023	2022
Backup Calls	14	11	Manhole Frames Raised	0	0
City Blockages	0	1	Ft. of Sewer Jet Cleaned	1,185	0
Sanitary Calls	5	5	Ft. of Sewer Jet Cleaned—PM	3,281	0
Odor Calls	3	3	Total Manholes Cleaned	14	480
Tap Inspections	35	31	Ft. of Sewer Televised	225	16,353
Sewer Locates	1,075	978	Ft. of Sewer Root Cut	0	772

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.
- * Holiday manhole checks performed.
- * Worked on minor plow truck repairs.
- * Set up brine trucks.
- * Replace cleanout on the trap of catch basin at N. 7th Street and Main Street.