



Monthly Informational Report

May 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: 1.73 inches*

*Total taken from daily average of five rain gauges

- * Vinton Woods Stormwater Conveyance: excavation completed on pond 2 of 3 and begin pond 3 of 3, begin installation of 1 of 3 of the box culvert.
- * Approved by BOW:
 - 7th Street Storm Sewer Replacement: Certificate of Final Completion with Bowen Engineering
 - WWTP/Ross Road LS Solar Field: Quote opening of Guaranteed Maximum Price Proposal
 - MS4 Pollution Prevention and Good Housekeeping and Stormwater Pollution Prevention Plan (PP&GH SWPPP): contract w/ Christopher B. Burke Eng.
- * Hosted the Indiana Wastewater Operator Challenge held at the WWTP.

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

Work Performed

- * #4 digester pumped out to clean for draft tube mixer replacement and inside seal coating.
 - * Pumped down headworks wet wells to remove grit from the system.
 - * Set new valves for the final clarifiers.
 - * Removed algae from primary and secondary clarifier weirs.
 - * Pressure washed equipment and dumpster areas.
 - * Installed deflectors on grit and fine screen shoots.
 - * Fine screen channels flushed and exercised the gates.
 - * 481,600 gallons of digested sludge from storage tanks dewatered for land application program and personnel assisted with loading sludge trucks.
- 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

MAY	2023	2022
Wastewater Treated (MG)	499.8	656.3
Average % Solids Removed	95.5%	96.1%
Biosolids Generated (MG)	2.1 MG	1.96 MG
BOD % Removed	94.6%	94.7%
Cubic Ft. of Methane Produced (Million cubic feet)	2.96 ft ³	2.90 ft ³
Phosphorus	80.5%	81.9%
Ammonia Overall Treatment	98.3%	97.3%

Laboratory

3091 Tests Performed in March

- 575 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1362 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 100 Plant and River samples for Ammonia
- 39 E.coli analysis on Plant and River samples
- 125 Total Solids and Volatile Solids tests on sludges
- 155 Industry and River samples for independent analysis
- 135 Phosphorous tests on Plant, River, and Ditch samples
- 120 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
 - * 5 TKN (total kjeldahl nitrogen)
 - * 5 Nitrate
 - * 5 Nitrite
 - * 29 Total Nitrogen
- 51 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Debris removed from 4A and 1A digester overflow pumps.
- * Replaced filters on #1 and #2 blower inlet at blower building.
- * #3 raw sludge pump sent for repair.
- * Repaired drain line for headworks floor drains.
- * Bleach tubing for the 1-4 junction box at secondary replaced.
- * Repaired contact tank fence.
- * #2 gravity belt thickener feed valve repaired.
- * Replaced bearing assembly on three different climate pumps in admin and thickener building.
- * Repaired piping for #2 ferric supply pump.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

MAY	2023	2022		2023	2022
Catch Basin Calls	6	5	Erosion Control Inspections	66	63
Sweeper Calls	15	11	Catch Basin Repaired	3	9
Sweeper Debris Removal (tons)	192	219	Catch Basins Cleaned	79	131
Stormwater Calls	2	4	Ft. of Storm Sewer Jet Clean	900	1035

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * 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 19 City-owned properties.
- * Storm sewer preventative maintenance performed in the area of: New York St. to Kossuth St. and 5th St. to 14th St.
- * Install storm sewer and structure at Macaw Park.
- * Missing pavers reset and install new gravel between pavers at S. 9th Street and Kossuth Street.
- * Install native plants at various City rain gardens.
- * Clean and televise Columbian Park storm line for repair/relining.
- * Bio-swailes and rain gardens sprayed for thistle.
- * Remove /cover up graffiti at Fairgrounds Detention area.

Surveillance

Performed Surveillance

SIGNIFICANT: Nanshan, Arconic, Rea Magnet, and DANA

GENERAL: none

Annual Industrial Pretreatment Inspections

SIA and Caterpillar

GREASE TRAPS

Interior Inspection	21	Business Compliance Meeting	1
Exterior Inspection	56	Rough-in Inspection	1
Oil/Grit Separator Inspection	29	Under Slab Inspection	0
Plan Reviews	4	Final Inspection	4

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling and quarterly creek and ditch sampling was performed.
- * Durkees Overflow data downloaded for monthly report.
- * Quarterly Letter of Violation Summary sent to IDEM.
- * Personnel attended Annual Pretreatment Conference.
- * Local Limits sampling performed for industrial users.
- * Site visit conducted at ZF.
- * Preventative maintenance performed on Fire Station rain gauge.
- * Personnel attended Dental Office Inspection Training.
- * Annual monitoring performed at commercial/residential sites.

Biosolids Land Application Program

- ◆ Biosolids hauled - 5.03 MG with average % solids of 4.60
- ◆ Volute press (landfilled) - 44.18 dry tons
- ◆ Field checks performed on permitted ground that biosolids were applied to.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

MAY	2023	2022		2023	2022
Backup Calls	8	10	Manhole Frames Raised	0	0
City Blockages	1	0	Ft. of Sewer Jet Cleaned	404	1,034
Sanitary Calls	9	13	Ft. of Sewer Jet Cleaned—PM	102,944	31,807
Odor Calls	1	3	Total Manholes Cleaned	614	144
Tap Inspections	63	40	Ft. of Sewer Televised	0	1,239
Sewer Locates	2,136	1,642	Ft. of Sewer Root Cut	254	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.
- * Quarterly manhole checklist completed.
- * Sewer repairs in the area of Lazy Lane and Sleepy Hollow Drive.
- * Assisted Waterworks Dept. with jet/vac work.
- * Gas line vacuumed at new restroom at Columbian Park.
- * Continue installing sanitary sewer at McCaw Park.