



Monthly Informational Report September 2024

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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: 1.20 inches*

*Total taken from daily average of five rain gauges

- * WWTP/RRLS Solar Field: solar panel foundation piles installed at the plant, system put online at Ross Road
- * Vinton Woods: warranty grass seed installed and fish stocked
- * Service Area 11B: lift station foundation piles constructed, public meeting w/ area residents
- * CSO LTCP Phase II HRT: value engineering of project w/ Bowen
- * Three Packs project:
 - Coarse Bar Screen — one of two coarse screens installed
 - Underwood Collection System — construction areas paved
- * Approved by BOW:
 - Raineybrook LS Upgrade: Certificate of Final Completion with Bowen 9/24
 - Vinton Woods: Certificate of Final Completion with Bowen 9/24
 - 9th Street Repair: Contract with BFS 9/17
 - Twyckenham LS Elimination: Supplement Agreement #2 w/ BFS 9/17
- * Personnel assisted with Wabash River Sampling Blitz and Wonders on the Wabash

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

- * Removed algae from primary and final clarifier weirs.
 - * Debris removed from aeration basins.
 - * Three primary clarifiers were taken offline for maintenance repair.
 - * Outside concrete structures at secondary were painted.
 - * Dropped and flushed the grit removal tanks.
 - * Cleaned fine screen conveyor system of debris buildup.
 - * Fine screen channels flushed and exercised the gates.
 - * Assisted outside contractors with various projects throughout the plant.
 - * 1,175,300 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.

SEPTEMBER	2024	2023
Wastewater Treated (MG)	456.3	423.5
Average % Solids Removed	97.8%	98.0%
Biosolids Generated (MG)	2.70 MG	19.0 MG
BOD % Removed	95.2%	95.0%
Cubic Ft. of Methane Produced (Million cubic feet)	2.84 ft ³	2.21 ft ³
Phosphorus	81.8%	82.4%
Ammonia Overall Treatment	98.5%	99.6%

Laboratory

2,259 Tests Performed in March

- 533 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 689 Total Suspended Solids and 480 Total Volatile Solids
- 132 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 129 Plant and River samples for Ammonia
- 39 E.coli analysis on Plant and River samples
- 104 Total Solids and Volatile Solids tests on sludges
- 15 Industry and River samples for independent analysis
- 175 Phosphorous tests on Plant, River, and Ditch samples
- 165 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
 - * 13 TKN (total kjeldahl nitrogen)
 - * 26 Nitrate
 - * 6 Nitrite
- 53 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Rebuilt multiple primary tank drive chains.
- * Replaced motors on multiple exhaust fans throughout the plant.
- * In the headworks building:
 - Replaced all metal drain lines.
 - #1 coarse screen replaced.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Installed electrical back board for Raineybrook HOA due to project work that was done in the area.
- * Debris removed from #2 pump at Waterstone.

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CINDY MURRAY

Stormwater

STORMWATER MONTHLY NUMBERS

SEPTEMBER	2024	2023		2024	2023
Catch Basin Calls	3	4	Erosion Control Inspections	82	45
Sweeper Calls	8	16	Catch Basin Repaired	2	7
Sweeper Debris Removal (tons)	134	102.1	Catch Basins Cleaned	166	1
Stormwater Calls	3	6	Ft. of Storm Sewer Jet Clean	0	0

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * 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 21 City-owned properties.
- * Storm sewer preventative maintenance performed from Euclid Ave.-Sourgum Ln.; Gregory Ave.-Shoshone Dr.; Country Charm Apts. area; Crosspointe Apts. area; Amelia Apts. area.
- * With assistance from Sewer department, begin installation of stormwater line on King Street from 11th Street to 12th Street.
- * Maintenance on Brown Street/North Street pavers and on Kossuth Street pavers; also replaced missing pavers and sand from joints at Kossuth Street pavers.
- * Removed cattails from drainage ditch on Cottonwood Circle.
- * Completed storm and sanitary castings at Parks Department Community Building.
- * Personnel attended annual INAFSM (Indiana Association for Floodplain and Stormwater Management) conference.

Surveillance

Performed Surveillance

SIGNIFICANT: SIA, Primient, Cargill, and Tate North

GENERAL: none

Annual Industrial Pretreatment Inspections

KAG Services			
GREASE TRAPS			
Interior Inspection	15	Business Compliance Meeting	1
Exterior Inspection	57	Rough-in Inspection	2
Oil/Grit Separator Inspection	35	Final Inspection	3
Plan Reviews	10	Under Slab Inspection	0

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling and creek and ditch sampling was performed.
- * Durkees Overflow data downloaded for monthly report.
- * Priority Pollutant Report submitted to IDEM.
- * Conducted two site visits to Tate North.
- * Dye test performed at Wabash for investigative purposes.
- * Setup temporary sampler at plant influent due to floor painting.
- * Tested Nanshan's flow cable after it was repaired.
- * Developing a Surveillance GIS map with BF & S.

Biosolids Land Application Program

- ◆ Biosolids hauled - none
- ◆ Volute press (landfilled) - none
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

SEPTEMBER	2024	2023		2024	2023
Backup Calls	5	8	Manhole Frames Raised	1	0
City Blockages	0	0	Ft. of Sewer Jet Cleaned	2,277	120
Sanitary Calls	0	9	Ft. of Sewer Jet Cleaned—PM	21,153	8,620
Odor Calls	3	2	Total Manholes Cleaned	78	27
Tap Inspections	27	35	Ft. of Sewer Televised	2,627	0
Sewer Locates	1,148	2,047	Ft. of Sewer Root Cut	0	0

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Jet vacuum cleaned the headworks channel.
- * Raised manhole in the 1500 block of N. 29th Street.
- * With assistance from the Stormwater and Surveillance Departments, the City sewer servicing Tate North was cleaned and televised while they were on shutdown.
- * Assisted Water Works with a vac truck for multiple water main break repairs.