

Water Utilities - Wastewater Division

225 S Mardale Drive
Brownsburg, IN. 46112

September 2025 – February 2026 Report

Respectfully Submitted March 17, 2026 by:
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Summary

Another winter season is quickly approaching its end. The weather as usual has been our biggest challenge going from extreme warm, extreme cold, extreme snowfall, heavy rainfall, and high velocity winds (causing power related equipment issues). Overall, the processes and equipment remained in operation and the wastewater team did a great job insuring that the systems were maintained and permit limits met. We are all looking forward to warmer more gentle weather, getting our field equipment prepared for sewer cleaning/televising, and learning about the latest greatest technology available.

The maintenance for the UV (ultra-violet disinfection) process was completed and system placed into operation March 13 for the recreation season.

There have not been any additional CSO (combined sewer overflow) events since the last report. There have been some heavy precipitation events; however, they did not trigger an event. The new storm line installed along the west end of College separating a portion of the stormwater from the sanitary sewer lines has helped with decreasing the overflows. The system continues to be monitored to determine if additional changes/improvements are needed.

The total of sanitary sewer overflows for 2025 remained at five events. There has been one event occurring in 2026 as of this report. It occurred on March 3 due to high flows entering the main pumping station. Personnel were on site checking the equipment due to some high flow alerts and caught the influent flow just beginning to flow over the channel wall. A pump was not pumping correctly due to air/debris, which was quickly resolved minimizing the overflow to a few gallons.

This summer the team will be focused on the three major improvement projects – secondary process equipment renovations, belt press rehabilitation, and replacement/improvements to 5 lift stations.

Current Projects, Updates, and Activities

- **Collection System**

- Lift Stations-

Airport and Holloway A lift stations each have a pump out of service with repairs anticipated to take about 4 to 6 weeks.

Eagle point lift station control panel is being replaced this spring.

1,992 lift station inspections completed in 2025.

- Sanitary/Storm Infrastructure -

Collection infrastructure maintenance activity totals for 2025 included the following activities:

4,309 feet of sanitary/storm sewer mains televised

3,159 feet of sanitary/storm sewer mains cleaned

39 lift station wet well units cleaned

347 sanitary manhole structures inspected (minimize potential for sewer backups)

549 best management practice storm structures inspected (included catch basins, pond structures, beehives, swirls, and underground storage units)

1,823 safety equipment inspections

76.5 hours of training completed

79 emergency call outs for lift station response

- **Oxidation Ditch 3 & 4, Clarifier 1, and Belt Press Rehabilitation Project:**

- Project awarded in July 2025

- Ditch equipment is partially installed- delay on a few parts

- Clarifier No. 1 rebuild is a part of this project. Parts to be reused were disassembled over winter, sand blasted, painted, and are in the process of being installed during March

- Biosolids phase I – installation of access platform was rescheduled to occur with the shutdown of the belt press, parts for the press began arriving early March and the rebuilding of the unit is scheduled for April. This will be a 5-week shutdown of the process and the wastewater staff has been working hard to get ahead of our sludge and have a capacity available to get us through this part of the project.



Rotor brushes going into ditch



Clarifier equipment removed

- **East Plant Modernization Phase III:**

- The design was completed and project awarded in July of 2025.
- Specific areas included with this round of design are heating/ventilation replacement (existing over 35 years old), Power Switch gear & motor control center (over 35 years old), and addition of odor control.
- Long lead times on equipment; however, project site is getting active with installation of HVAC (heating, ventilation, air conditioning) base pads, electrical stands/conduit, and odor control system base pad.
- Next 3 months will be quite active with large equipment deliveries, installations, temporary generators, equipment start-ups, and training.



East Plant (main pumping station) – concrete pad for odor control system

- **Project #24-012-WW: Lift station dry pit conversions**

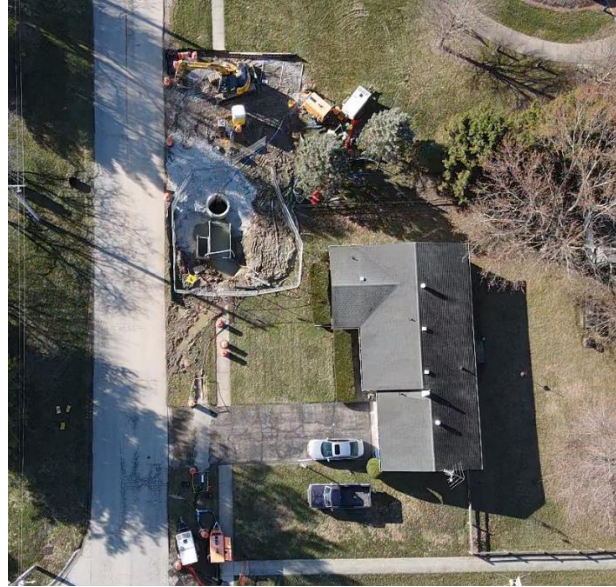
- Project awarded in July of 2025.
- Project consists of the replacement of four dry pit lift stations that are past their life expectancy. They include the Hyde Park, Hornaday, Locust, and School lift stations. The project also includes the replacement of the Arbuckle park lift station to increase capacity and replace equipment/panel.
- Majority of equipment needed for this project has arrived now. On-site activity is underway on this project and is moving quickly. Each station will take two to

three months to complete. Substantial completion is anticipated to occur in August.

- Locust lift station – wet well is undergoing renovation, dry pit/pumps have been demolished, bypass pumping is occurring while the wet well is renovated and new equipment is installed.
- Hyde Park lift station – erosion control measures are in place, temporary bypass pumping is being installed, and site excavation has started.



Hyde Park lift station March



Locust lift station February

Permits/Reports

- Annual Pretreatment Report for 2025 is due April 1
- Annual MS4 Annual report for 2025 is due April 1

Personnel Achievements/Training

- Matt, Nate, Shane, and Dave participated in the WEFTEC National Conference and Operators Challenge September 28 – October 1. They were able to network, connect with vendors, and improve professional skills.
- Matt received Young Professionals Recognition at the WWET Conference in February for his achievements in the wastewater profession, which include CIOA (Central Indiana Operator Association, President) and Challenge team participation.
- Brad Fox completed his introductory training period and obtained a class B CDL with air brakes/tanker endorsements.

Events/Public Education

- **April 25 – Clean and Green Event** – Volunteers needed to remove trash from waterway areas. Create your team, choose or be assigned an area, make a difference! Here is the link for more information and to register for the event:
https://brownsburgparks.galaxydigital.com/agency/detail/?agency_id=168773
- **June 18 2026 & August 20 2026– Education booth at the Farmers Market**
 - Visit with staff at the booth



MS4 (Municipal Stormwater Separate Sewer System) Program

- **MS4 Committee** consisting of representatives from each department meets quarterly to go over stormwater requirements, education events, illicit discharges, training opportunities, and annual report activities. The committee worked on the annual report this past quarter, which is due April 1.
- **MS4 Stormwater Education Partnership** consisting of representatives from Plainfield, Danville, Avon, Pittsboro, Hendricks County, Brownsburg, Hendricks Recycling District, and the Soil & Water conservation meet normally bimonthly to coordinate on education opportunities.
 1. February 4, 2026 – Contractor’s Workshop – This year attendance was high with over 80 people participating. IMI provided an on-site demonstration of the proper method of washing out a concrete truck chute and capturing the discharge

in waste bags. The pH level of the discharge was checked and the result was over 11. This is very toxic to aquatic life and corrosive to people and pets.

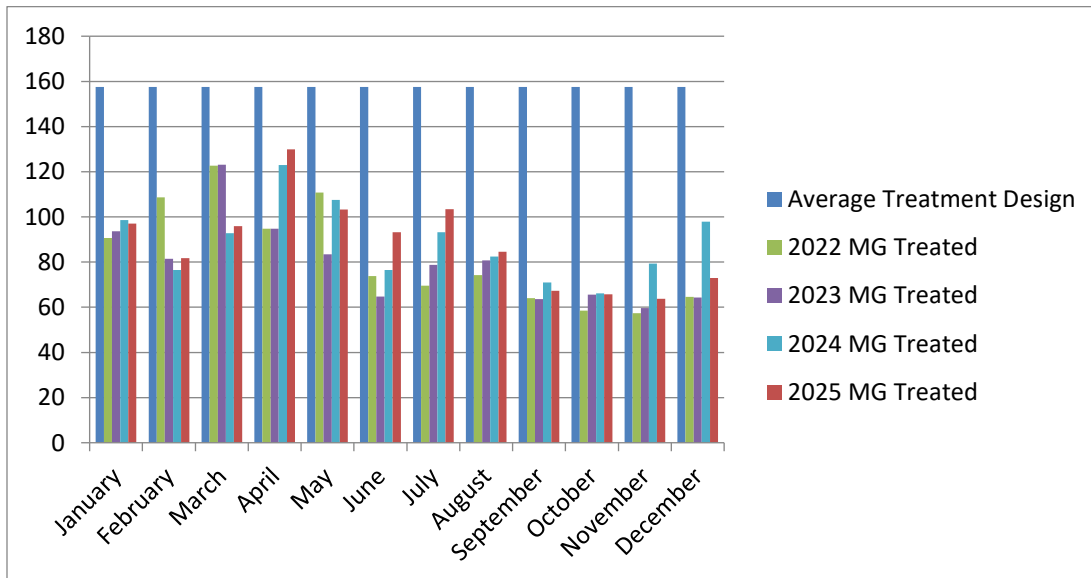
- **Customer Actions-** Do your part to maintain storm sewers & protect water quality
 1. Do not adjust pond levels by blocking drain lines. Normal pond level in the summer may be considerably lower than in the spring. Some ponds are designed to have several feet of level change to accommodate for the spring rains and slowly release the water. The slow release minimizes downstream flooding. When a summer level drain outlet is blocked to raise the pond level, there is not enough capacity for the spring rains. If spring rains are heavy, the pond level may still be high even with the low-level outlet clear. Do keep drain lines clear of trash and debris.

Top items that can completely block pond drains = sports balls (kick balls/soccer/basketball) and trash can lids
 2. Use the town web site to report dumping of materials into storm drains/ponds.

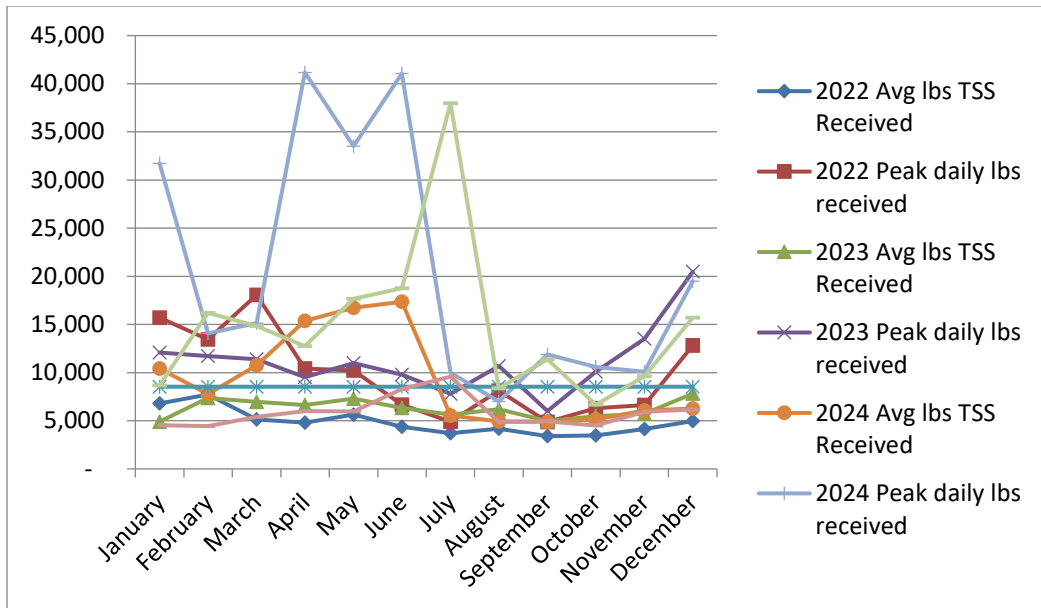
It is that time of year where improvements to property increase. Watch out for concrete washwater, paintbrush washwater, and water softener salts being dumped into street drains. This water most likely goes straight to a pond or waterway.

Overall Wastewater Treatment Status

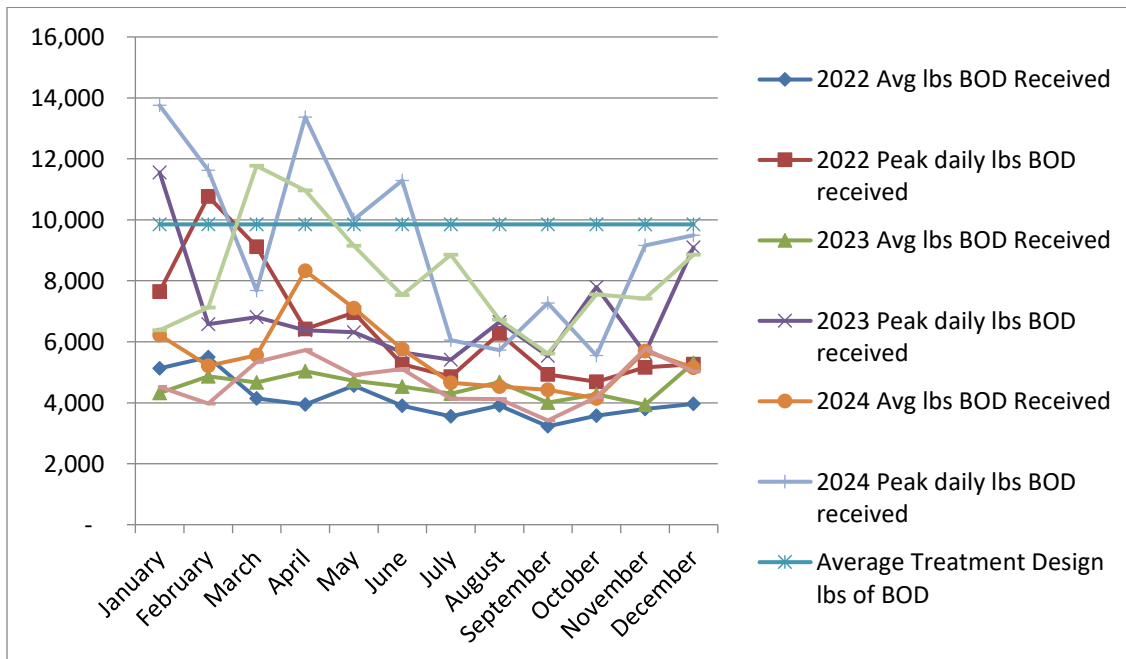
The chart below indicates the total million gallons processed each month from 2022 through 2025. The 2025 average capacity treated based upon the flow was 56%, which indicates no overall change in flow from 2024.



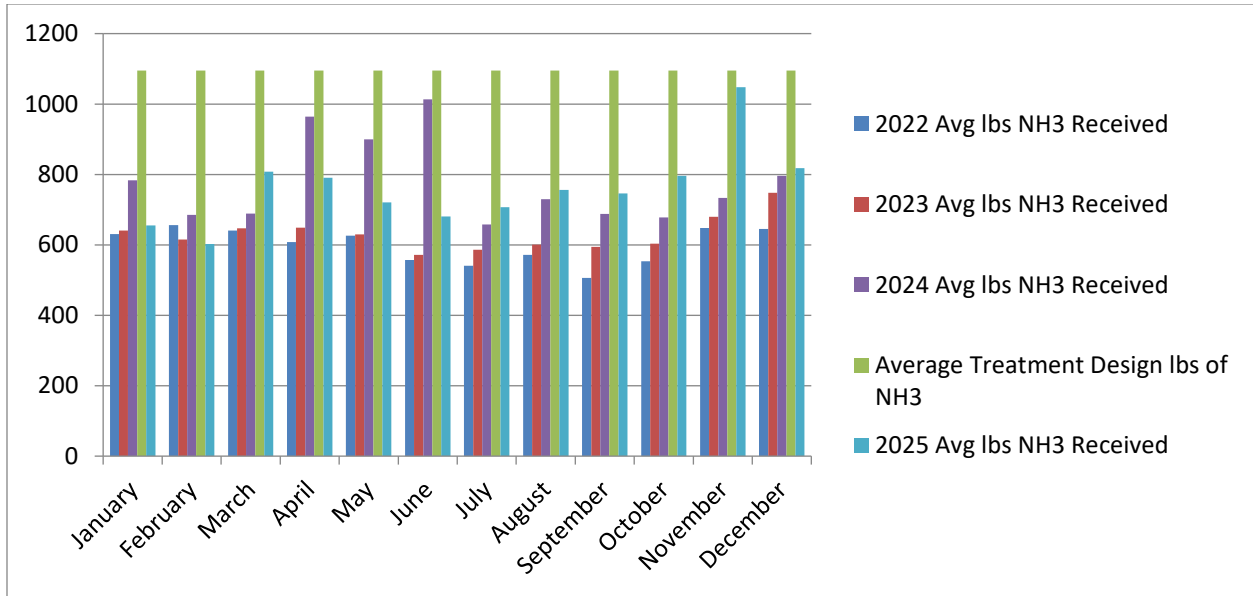
The graph below shows the trends of TSS (total suspended solids) that the treatment plant received each month. The treatment plant has an average treatment capability to treat 8538 lbs of TSS each day. The TSS loading average for 2024 indicates that 108% of the capacity was being utilized. The 2025 capacity utilized was 69%. The TSS pollutant loading is trended significantly lower during 2025 and is more in line with expectations.



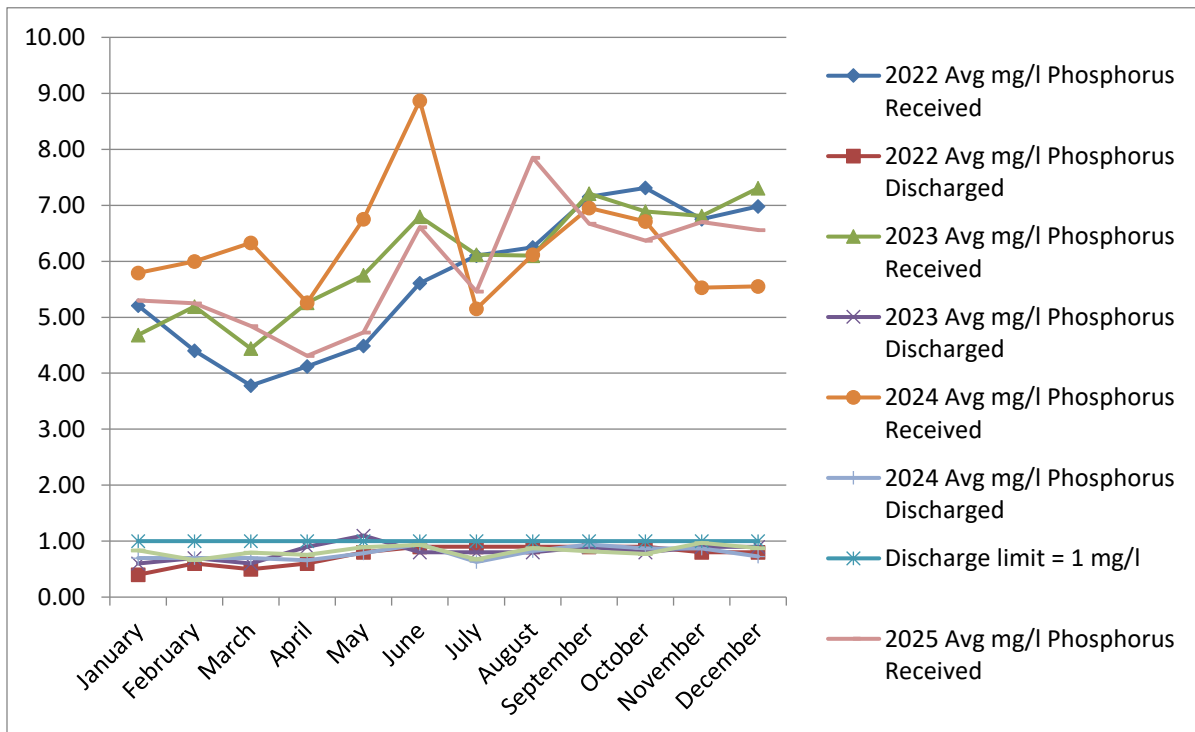
The graph below shows the trends of BOD (biological oxygen demand) that the treatment plant received each month. The treatment plant has an average treatment capability to treat 9852 lbs of BOD each day. The 2024 average indicates that 56% of the BOD loading capacity was being utilized while the 2025 average loading capacity was at 48%. The BOD pollutant loading was significantly less during the last half of 2025. The town's significant industrial contributor's pollutant loading has also decreased significantly due to the operation of their pretreatment program.



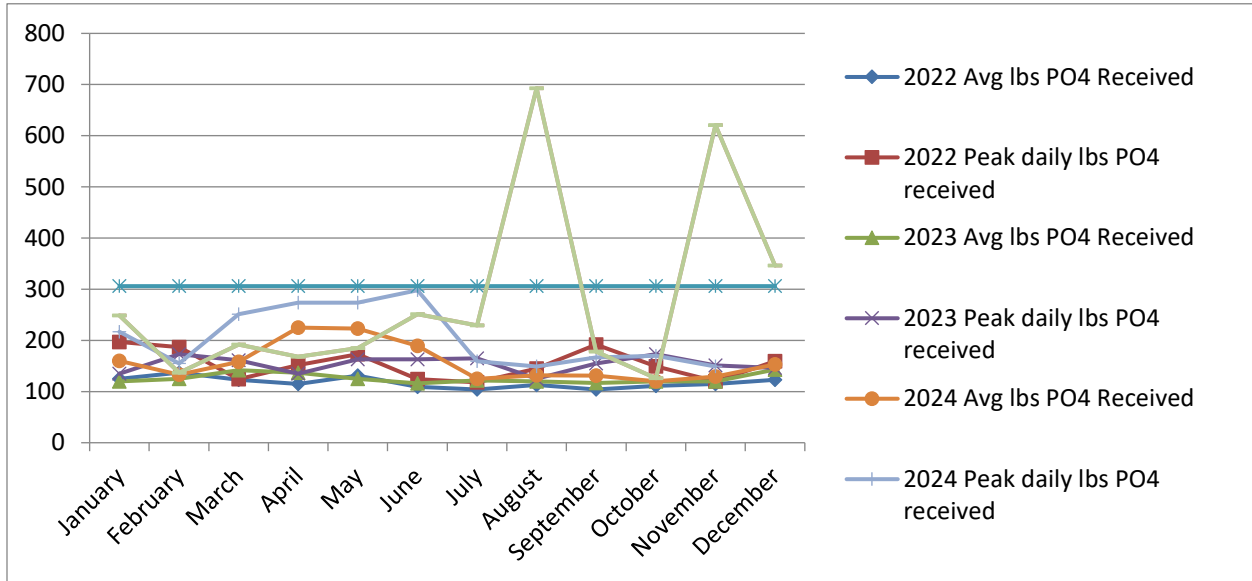
The chart below shows the trends of NH3 (ammonia) that the treatment plant received for 2022 through 2025. The treatment plant has an average treatment capability to treat 1095 lbs of ammonia each day. The 2024 ammonia loading was using about 71% of the plant capacity. The ammonia loading for 2025 was 69%. The last two years have ended higher than expected. Possibly due to the generally lower annual precipitation.



The graph below shows the phosphorus results entering the treatment plant. It also shows the levels discharged into White Lick Creek. The incoming yearly average concentration continues to remain near 6.0 mg/l. The system is currently meeting the required monthly 1.0 mg/l limit. 86% of the phosphorus received at the treatment plant was removed.



The graph below indicates the capacity of the treatment process based upon the phosphorus loading to the treatment plant. The 2024 average indicated that 51% of the current capacity for phosphorus loading is being utilized while the 2025 capacity usage decreased slightly to 47%. Loading rate has been running fairly consistent. There was an odd spike in August and again in November.



The chart below shows the available monitoring results for the total nitrogen for the treated discharge leaving the facility and discharged into White Lick Creek. The total nitrogen monitoring parameter was included in our permit requirements with the October 2025 renewal. There currently is not a limit placed on this parameter.

