

LSASD Project ID: 24-0275

Georgetown Sewage Treatment Plant #2

NPDES Compliance Evaluation Inspection

900 Cherry Blossom Way
Georgetown, Kentucky 40324

Project Date(s): July 9th, 2024

Report Date: September 12, 2024

Project Leader: Chris McHugh
Water Quality Section
Field Services Branch
Laboratory Services & Applied Science Division
USEPA – Region 4
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for Jairo Castillo, P.E., Supervisor
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1. Introduction

On July 9th, 2024, staff of the United States Environmental Protection Agency (EPA) Region 4, Laboratory Services and Applied Science Division (LSASD), conducted a National Pollutant Discharge Elimination System (NPDES) Compliance Evaluation Inspection (CEI) at Georgetown Sewage Treatment Plant (STP) #2 in Georgetown, Kentucky. The inspection was conducted under the authority of Section 308 of the Clean Water Act (CWA), as amended, and followed the procedures listed in the LSASD Project No. 24 – 0275 Sample and Analysis Plan (SAP). This report presents the results of the inspection. Table 1 lists the sampling participants and facility staff.

Table 1 – Inspection Personnel

Name	Organization	Date on Site	Contact Info
Chris McHugh	EPA Region 4 LSASD Inspection	07/09/2024	mchugh.christopher@epa.gov
Asher Sampong	EPA Region 4 LSASD Inspection	07/09/2024	sampong.asher@epa.gov
Boyd Roland	Georgetown STP #2 Operator	07/09/2024	broland@gmwss.com

2. Inspection Procedures

The objective of this inspection was to evaluate the condition of the STP and the permittee's self-monitoring program and offer compliance assistance as needed. Specific tasks included conducting an opening conference, interview facility staff, conducting a facility walkthrough, conducting records review, observing the receiving waters, and a closing conference.

3. Facility Description

The Georgetown STP #2 treatment system includes screening, grit removal, oxidation ditches, secondary clarifiers, tertiary sand filters followed with ultraviolet disinfection. Waste sludge is thickened, dewatered, and sent to a landfill for disposal.

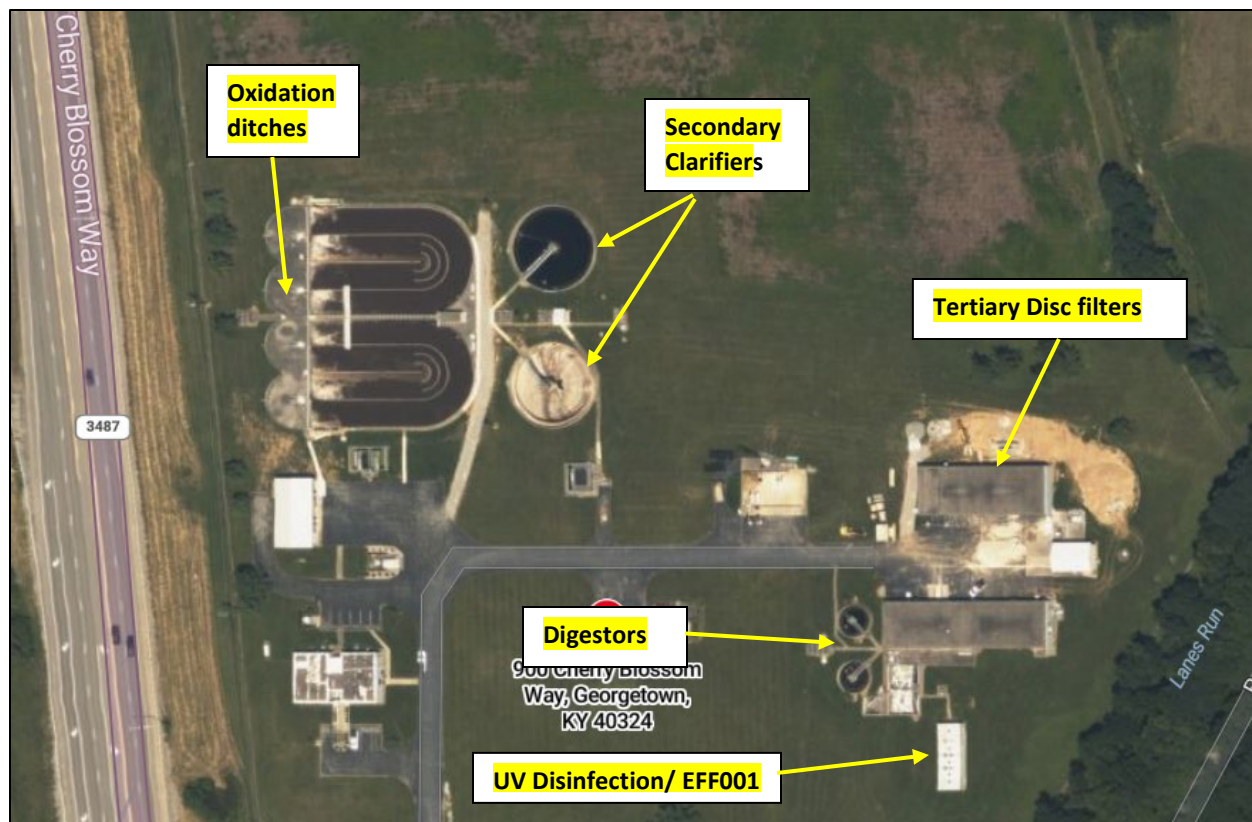


Figure 1 – Facility Grounds

4. NPDES Permit

The facility's National Pollutant Discharge Elimination (NPDES) permit number KY0082007 was issued (renewed) by the State of Kentucky on July 1st, 2020, and expires on June 30, 2025. The NPDES permit allows the STP to discharge an average of 2.2 million gallons per day (MGD) of treated wastewater into Lanes Run through Outfall 001. The permit includes effluent limits for Total Suspended Solids (TSS), 5-day Carbonaceous Biochemical Oxygen Demand (CBOD₅), Phosphorous, pH, Dissolved Oxygen (DO), Ammonia Nitrogen, Total Nitrogen, and E. coli.

5. Records and Reports

I. Discharge Monitoring Sheet Review

The facility had several permit limit exceedances in the last 12 quarters for Total Phosphorus. KYDEP enforcement actions were issued on 01/23/2024.

II. Records Review

The facility maintains all its DMR and analytical records onsite and had at least 3 years of DMR records and 5 years of sludge records available.

III. Flow Measurement

The facility uses a Parshall Flume and ultrasonic flow meter to measure and record effluent flow rate. The ultrasonic flow meter was last calibrated 07/2023. An instantaneous flow check was conducted, and the secondary flow rate was 6.6% from the primary flow rate which is within the recommended 10% referenced by the NPDES Compliance Inspection Manual.

IV. Sampling Review

The facility collects and analyzes 24-hr time-based composite samples for its permit listed parameters.

6. Operation and Maintenance

The facility is operating and maintaining its treatment units to meet its NPDES permit requirements.

7. Effluent and Receiving Waters

The effluent discharge was clear and free of any excessive foam in the receiving stream.

End of Report