



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

ELECTRONIC MAIL
CONFIRMATION OF EMAIL RECEIPT REQUESTED

City of Jackson
c/o Robert Lee
Acting Director, Department of Public Works
P.O. Box 17
Jackson, Mississippi 39205-0017
rlee@city.jackson.ms.us

Re: Compliance Evaluation Inspection Report
NPDES Permit No. MS0030295
Presidential Hills WWTP

Dear Robert Lee:

The U.S. Environmental Protection Agency Region 4, the U.S. Army Corps of Engineers and the Mississippi Department of Environmental Quality conducted a Compliance Evaluation Inspection (CEI) on the Presidential Hills Wastewater Treatment Plant (WWTP) on March 22, 2023. The objective of the inspection was to assess the City of Jackson's compliance with the Clean Water Act and the National Pollutant Discharge Elimination System permit, and to evaluate the general condition of the WWTP. The inspection results have been summarized in the enclosed CEI Report.

The EPA appreciates Jackson's cooperation and courtesy. If you have specific questions about the inspection report, please contact Mr. Brad Ammons at ammons.brad@epa.gov. Please verify receipt of this letter and report by emailing Mr. Ammons at the email address provided.

Sincerely,

Sayre, Dennis

Digitally signed by Sayre,
Dennis
Date: 2023.05.18
14:52:49 -04'00'

Dennis Sayre, Acting Chief
Wastewater Enforcement Section
Water Enforcement Branch

Enclosure

cc: Michelle Clark
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United States Environmental Protection Agency Region 4
Enforcement and Compliance Assurance Division
Water Enforcement Branch
61 Forsyth Street, SW
Atlanta, Georgia 30303



Compliance Evaluation Inspection Report
Project No. CV-MS0030295-03212023

Jackson Presidential Hills WWTP
Franklin D, Roosevelt Drive West
Jackson, Mississippi 39213
NPDES Permit Number: MS0030295
Date of Inspection: March 22, 2023

Title and Approval Sheet

Title: Jackson MS Pres Hills POTW CV-MS0030295-03222023.docx

Approving Official:

Sayre, Dennis  Digitally signed by Sayre, Dennis
Date: 2023.05.18
14:53:20 -04'00'

Dennis Sayre, Acting Chief
Wastewater Enforcement Section
Water Enforcement Branch

Inspector:

MICHAEL AMMONS  Digitally signed by MICHAEL AMMONS
Date: 2023.05.18
07:43:35 -04'00'

Brad Ammons, Environmental Engineer
Wastewater Enforcement Section
Water Enforcement Branch

COMPLIANCE EVALUATION INSPECTION REPORT
Jackson Presidential Hills WWTP, Project # CV-MS0030295-03222023

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COMPLIANCE EVALUATION INSPECTION REPORT
Jackson Presidential Hills WWTP, Project # CV-MS0030295-03222023

1. Introduction

On March 22, 2023, representatives of the United States Environmental Protection Agency Region 4, and the Mississippi Department of Environmental Quality (MDEQ) conducted a Compliance Evaluation Inspection (CEI) on the Presidential Hills Wastewater Treatment Plant (WWTP), owned and operated by the City of Jackson, Mississippi (the City). The inspection was conducted under the authority of Section 308 of the Clean Water Act (CWA), as amended. This report provides a summary of the inspection.

2. Participants

Name	Organization	Contact Information
Brad Ammons	EPA Region 4 (Lead Inspector)	Ammons.Brad@epa.gov
William Joyner	EPA Region 4	Joyner.William@epa.gov
Heidi Rausch	EPA Headquarters	Rausch.Heidi@epa.gov
Greg Anderson	USACE-Vicksburg	Gregory.L.Anderson@usace.army.mil
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James Gammill	MDEQ	jgammill@mdeq.ms.gov
Shannon Moore	Veolia	Shannon.Moore@veolia.com
Blake Boehringer	Veolia (Lead Operator)	Blake.Boehringer@veolia.com
Bryan Bruce	Veolia	Bryan.Bruce@veolia.com
Terry Williamson	City of Jackson	twilliamson@city.jackson.ms.us
Robert Lee	City of Jackson	rlee@city.jackson.ms.us
Henry Chia	City of Jackson	hchia@city.jackson.ms.us

3. Facility Description

(Refer to Attachment I for Photo references)

This WWTP is a sequencing batch reactor (SBR) activated sludge wastewater treatment plant that is permitted to discharge 0.75 million gallons per day (MGD). It serves the Presidential Hills subdivision in Northwest Jackson.

The WWTP consists of a coarse bar screen (Photo 3), grit removal, two blowers for the former lagoon (now used as storage/equalization; Photo 1), two blowers for the SBRs (Photo 2); two SBR tanks (one was out of service but was being aerated until the City swaps tanks; Photos 4 and 5), a settling basin; post filtration filter (out of service as the cloth media tears; Photo 6), UV disinfection (Photo 7), ultrasonic flow meter (Photo 8); aerobic sludge digester (former polishing lagoon; Photo 10), and an on-site generator (Photo 9). The generator will power the entire WWTP and is exercised every Tuesday automatically). Sludge in the digester has not been dredged/removed in five years. The entire WWTP is automated and will call Veolia should any equipment fail.

4. Inspection Procedures.

The overall objective of this CEI was to evaluate the condition and operational performance of the WWTP and Jackson's self-monitoring program and to offer compliance assistance as needed. Specific tasks included conducting an opening conference, interviewing WWTP staff, reviewing WWTP sampling records, conducting a site visit throughout the existing WWTP, and a closing conference.

5. Findings & Conclusions

A. Permit Review

Jackson's NPDES permit for the WWTP has an effective date of March 20, 2019 and expires on February 29, 2024. The NPDES permit lists only one outfall (001) that discharges to Bogue Chitto Creek, a tributary to the Big Black River.

B. Records and Reports

The EPA's Enforcement Compliance History Online (ECHO) shows that the WWTP was in non-compliance for six effluent limit exceedances of Biochemical Oxygen Demand, 5-day (BOD₅) in the last five years (See Appendix A for effluent limit violations). This WWTP's records are kept at the City's Savanna Street WWTP, which also houses the City's lab for all three WWTPs it owns.

C. Flow Measurement

EPA did not record the effluent flowrate, but the average flow to the WWTP is 0.25 MGD and during wet weather the flow can increase to 0.75 MGD. The effluent flow meter appeared in good condition.

D. Sampling/Laboratory

Veolia's Operator sample pH and Dissolved Oxygen on his rounds. All other pollutants are analyzed at the Savanna Street WWTP laboratory.

E. Site Visit (Operation and Maintenance)

A WWTP site visit started at the headworks and ended at the sludge lagoon. The WWTP appeared well maintained. The following components were observed:

- There is an on-site generator that can power the entire WWTP (see Photo 9).
- The larger lagoon acts as an equalization basin, while the smaller lagoon serves as a sludge digester (see Photo 10).
- The entire WWTP is automated and will call Veolia should equipment fail.
- The effluent composite sampler was last calibrated in November 2022 and was below 6° Celsius.

F. Sludge Handling

As noted above, sludge is aerobically digested and left in the smaller lagoon until it needs to be dredged.

G. Effluent/Receiving Water

The effluent at the parshall flume was clear and void of solids (Photo 8). The receiving waterbody (Bogue Chitto Creek) was not readily accessible and not observed.

6. Discussion

The City has made several upgrades to the Presidential Hills WWTP since the last EPA inspection. The City should continue to properly operate and maintain this WWTP.

END OF REPORT

Appendix A - Effluent Limit Violations List

NPDES ID	DSDG	Monitoring Location Code	Monitoring Period End Date	Parameter Code	Parameter Desc	Violation Code	# of Viol: (6)
MS0030295	001-A	1	01/31/2019	00310	BOD, 5-day, 20 deg. C	E90	2
MS0030295	001-A	1	02/28/2019	00310	BOD, 5-day, 20 deg. C	E90	2
MS0030295	001-A	1	04/30/2021	00310	BOD, 5-day, 20 deg. C	E90	2

Attachment 1, Photographs.
Jackson, MS Presidential Hills WWTP, March 22, 2023
Project No. CV-MS0030295-03222023



Photo 1. Equalization basin blowers.



Photo 2: SBR blowers.



Photo 3: Bar screen.



Photo 4: SBR #1 (serving as backup).

Attachment 1, Photographs.
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Photo 5: SBR #2.



Photo 6: Cloth media filter (not in service).



Photo 7: UV flumes #1 and #2



Photo 8: Effluent Parshall flume.

Attachment 1, Photographs.
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Photo 9: On-site generator.



Photo 10: Sludge lagoon.