



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

Purpose: NPDES SSO Inspection Trip Report

Facility: City of Cahokia Heights, Illinois

NPDES ID Number (No NPDES Permit): ILN000019

Dates of Inspection: July 25-26, 2022

Illinois EPA Inspectors: None

EPA Inspectors:

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City of Cahokia Heights Representatives: None

Inspection Trip Report Prepared by:

Dean Maraldo, EPA Region 5 Inspector

EPA Inspector Signature and Date: DINO MARALDO Digitally signed by DINO MARALDO
Date: 2022.08.01 19:30:13 -05'00'

Approver Name & Title:

Ryan Bahr, Section 2 Supervisor,

Water Enforcement and Compliance Assurance Branch

Approval Signature and Date: Bahr, Ryan Digitally signed by Bahr, Ryan
Date: 2022.08.05 15:33:17 -05'00'

On July 25, 2022, EPA inspectors Dean Maraldo, Ted Flatebo, and Joan Rogers (EPA Team) traveled to Cahokia Heights (City) to meet with the City's Public Works department and conduct an announced municipal separate storm sewer system (MS4) inspection. After departing the Public Works facility on July 25, we visited a few known dry-weather sanitary sewer overflow (SSO) locations in the City. The EPA Team's July 25 dry-weather SSO observations are documented in this inspection trip report.

During the early hours of July 26, a severe rain event occurred in the St. Louis area, including Cahokia Heights. Over 6 inches of rain fell over Cahokia Heights over an 11-hour period from 1:00 A.M. to noon on July 26 (based on National Weather Service data for the St. Louis Downtown Airport, located in Cahokia Heights). As a result of the storm, which caused widespread flooding throughout the region, the City's Public Works staff were deployed to respond to emergencies throughout the City on July 26. We postponed the MS4 inspection and spent the day observing wet-weather impacts to the City's sanitary sewer system, including SSOs. The EPA Team's July 26 observations are documented in this inspection trip report. The trip photo log is provided in Appendix A.

Table 1 describes the locations, times, and observations for the afternoon of July 25, 2022.

Table 1: July 25, 2022, Dry-Weather Observations

<u>Location</u>	<u>Time</u>	<u>Observations</u>
Lauralee Drive, Lift Station 51, Cahokia Heights	3:54 P.M.	The lift station was overflowing into the adjacent wetland when the pumps cycled on, approximately every 5 minutes. (see Photo Log image CHHM0012). Video was also captured at this location. I informed the City sewer department of the situation.
Missouri Ave. Lift Station 57, Cahokia Heights.	4:15 P.M.	The water level in the lift station well was near the top. I did not observe a discharge. I informed the City sewer department of the situation.
Sewer cleanout location on North 82 nd Street, Cahokia Heights	4:25 P.M.	The sewer cleanout was not overflowing, and the ditch was dry.

Table 2 describes the locations, times, and observations for July 26, 2022.

Table 2: July 26, 2022, Wet-Weather Observations

<u>Location</u>	<u>Time</u>	<u>Observations</u>
SSO from cleanout on North 82 nd Street, Cahokia Heights	7:38 A.M.	The cleanout was overflowing. The ditch leading from the cleanout was inundated and yards in the area were flooded. (see Photo Log image CHWW0027). Video was also captured at this location.
North 73rd Street, Cahokia Heights.	7:48 A.M.	The roadside ditches along the street were completely inundated with floodwater. Sanitary sewage was discharging from the manhole. (see Photo Log image CHWW0030). Video was also captured at this location.

<u>Location</u>	<u>Time</u>	<u>Observations</u>
North 73rd Street and Dorris Street, Cahokia Heights.	8:01 A.M.	Sanitary sewage was discharging from the manhole. (see Photo Log images CHWW0034 and CHWW0037). Video was also captured at this location.
North 82nd Street & Bellevue Avenue Lift Station, Cahokia Heights.	8:11 A.M.	Roadside ditches were inundated and a lift station structure on Bellevue Avenue was partially submerged. (see Photo Log image CHWW0038). Video was also captured at this location.
North 61 st Street, Cahokia Heights.	8:26 A.M.	Street was flooded. (see Photo Log image CHWW0040).
Old Missouri Ave, Lady of Snows Lift Station, Cahokia Heights	8:51 A.M.	Lift station was submerged. (see Photo Log image CHWW0041). Also captured video of street runoff flowing into a sanitary sewer manhole.
Canal #1, North 80 th Street, Cahokia Heights	11:23 A.M.	Discharge to Canal #1. The stormwater discharges through a pair of culverts under N. 80th Street. The stormwater collects from roadside ditches throughout the area and includes discharge from a sanitary sewer overflow location on N. 82nd Street (see Photo Log image CHWW0047). Video was also captured at this location.
North 80 th Street near Bellevue Avenue, Cahokia Heights	11:27 A.M.	Water was flowing in the ditch towards Canal #1. (see Photo Log image CHWW0049)
SSO from cleanout on North 82 nd Street, Cahokia Heights	11:33 A.M.	The cleanout was overflowing. The ditch leading from the cleanout was inundated and yards in the area were flooded. (see Photo Log image CHWW0053).
Lauralee Drive, Lift Station 51, Cahokia Heights	2:00 P.M.	City sewer crews were repairing the lift station when we arrived. The crew leader said a rag clogged the lift station pump, causing the dry-weather SSO on July 25, prior to the storm. I did not observe an SSO at this location on July 26.
SSO from cleanout on North 82 nd Street, Cahokia Heights	2:20 P.M.	The cleanout was overflowing. The ditch leading from the cleanout was full and flowing. Yard flooding had lessened since the 11:33 A.M. observation at this location. (see Photo Log image CHWW0055). Video was also captured at this location.

The EPA Team exited the City at approximately 3:30 P.M. on July 26, 2022.

Appendix A - Photo Log
EPA Inspection, Cahokia Heights, July 25-26, 2022
All photos taken by Dean Maraldo (unless indicated otherwise), Inspector, U.S. EPA
Camera: Ricoh WG-4



1: CCHM012

Description: The lift station was overflowing into the adjacent wetland when the pumps cycled on, approximately every 5 minutes. Red arrow denotes SSO discharge location.

Location: Lauralee Drive, Lift Station 51, Cahokia Heights

Date/Time: July 25, 2022; 3:54 P.M.



2: CHWW0027

Description: The cleanout (outlined in red) was overflowing. The ditch leading from the cleanout was inundated and yards in the area were flooded.

Location: SSO from cleanout on North 82nd Street, Cahokia Heights

Date/Time: July 26, 2022; 7:38 A.M. (photo taken by Joan Rogers)



3: CHWW0030

Description: The roadside ditches along the street were inundated with floodwater, along with sanitary sewage discharging from the manhole.

Location: North 73rd Street, Cahokia Heights.

Date/Time: July 26, 2022; 7:48 A.M.



4: CHWW0034

Description: Sanitary sewage discharging from the manhole.

Location: North 73rd Street and Dorris Street, Cahokia Heights.

Date/Time: July 26, 2022; 8:01 A.M.



5: CHWW0037

Description: Sanitary sewage discharging from the manhole.

Location: 73rd Street and Dorris Street, Cahokia Heights.

Date/Time: July 26, 2022; 8:01 A.M.



6: CHWW0038

Description: Inundated roadside ditches and a partially submerged lift station structure on Bellevue Ave.

Location: North 82nd Street & Bellevue Avenue Lift Station, Cahokia Heights.

Date/Time: July 26, 2022; 8:11 A.M.



7: CHWW0040

Description: Steet flooding.

Location: North 61st Street, Cahokia Heights.

Date/Time: July 26, 2022; 8:26 A.M. (photo taken by Joan Rogers)



8: CHWW0041

Description: Lift station submerged.

Location: Old Missouri Avenue, Lady of Snows Lift Station, Cahokia Heights.

Date/Time: July 26, 2022; 8:51 A.M.



9: CHWW0047

Description: Discharge to Canal #1. The stormwater discharges through a pair of culverts under North 80th Street. The stormwater collects from roadside ditches throughout the area and includes discharge from a sanitary sewer overflow location on North 82nd Street.

Location: Canal #1, North 80th Street, Cahokia Heights

Date/Time: July 26, 2022; 11:23 A.M.



10: CHWW0049

Description: Water flowing in ditch towards Canal #1.

Location: North 80th Street near Bellevue Avenue, Cahokia Heights

Date/Time: July 26, 2022; 11:27 A.M.



11: CHWW0053

Description: The cleanout was overflowing. The ditch leading from the cleanout was inundated and yards in the area were flooded.

Location: SSO from cleanout on North 82nd Street, Cahokia Heights

Date/Time: July 26, 2022; 11:33 A.M. (photo taken by Joan Rogers)



12: CHWW0055

Description: The cleanout was overflowing. The ditch leading from the cleanout was full and flowing. Yard flooding had subsided since the 11:33 A.M. observation at this location.

Location: SSO from cleanout on North 82nd Street, Cahokia Heights

Date/Time: July 26, 2022; 2:20 P.M.