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MARK K. PAPKE, PE, CPESC  
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Via Electronic Mail

January 31, 2023

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**RE: DJ #90-5-1-1-08725/1 (City of Lakewood, OH0026018)**

**Subject: City of Lakewood's Semi-Annual Report, Reporting Period July 1, 2022 – December 31, 2022.**

Dear Regulators:

Enclosed please find the City of Lakewood's Semi-Annual Report pursuant to Section VIII of the Consent Decree lodged in October 2022 with the Northeast Ohio District Court, Case No. 1:22-cv-01964, by the United States and the State of Ohio, which is pending approval from the Court.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gather the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me if you have any questions or require further information at this time.

Sincerely,

**THE CITY OF LAKEWOOD OHIO**



Mark K. Papke, PE, CPESC  
City Engineer

Copy to: Lakewood Director of Law via email: [Law@lakewoodoh.net](mailto:Law@lakewoodoh.net)

In October 2022, the United States and the State of Ohio lodged a Consent Decree (CD) regarding the City of Lakewood’s sewer system. The CD requires Lakewood to submit semi-annual reports to U.S. Environmental Protection Agency (EPA) and Ohio EPA by January 31 and July 31, for the prior six months. The report must contain all information necessary to determine Lakewood’s compliance with its CD requirements.

**I. SEMI-ANNUAL REPORT REQUIREMENTS**

The CD requirements for the Semi-Annual Report are summarized in Table 1 along with their reference sections.

<b>Table 1. Lakewood’s Semi-Annual Report Requirements</b>	
<b>CD Section Reference</b>	<b>Reporting Requirements</b>
Section VIII ¶ 37.a	A description of the projects and activities conducted during the reporting period to comply with the requirements of this Decree, a projection of work to be performed pursuant to this Consent Decree during the next reporting period, a table showing the approved projects from the IWWIP (including the project number, short description, projected and actual dates of all items listed in the implementation schedule column of Appendix A of this Consent Decree), and notice of any anticipated failures to meet future requirements of the Consent Decree or approved plans.
Section VIII ¶ 37.b	Information that Lakewood obtained or received ( <i>e.g.</i> , customer complaints) regarding discharges from private Connection laterals, including any information received specifying the location of the discharge, and a description of the circumstances of the discharge.
Section VIII ¶ 37.c	A description of any non-compliance with the requirements of this Consent Decree and an explanation of the violation’s likely cause and of the remedial steps taken, or to be taken, to prevent such violation.

**II. OVERVIEW OF PROJECTS AND ACTIVITIES CONDUCTED AND PLANNED**  
**a. Activities Conducted Required by the CD**

Lakewood completed all required activities in the prior six months in a timely manner. Table 2 outlines the specific CD requirements, section citation, and dates completed or approved by EPA within the reporting period, July 1, 2022-December 31, 2022.

<b>Table 2. Consent Decree Requirements Completed by Lakewood</b>		
<b>Requirements</b>	<b>CD Citation</b>	<b>Date Submitted</b>
Semi-Annual Report	Section VII.	January 31, 2023

**b. Projects Approved from the IWWIP & Projection of Work for Next Reporting Period**

The current reporting period covers July 1, 2022 – December 31, 2022. The next reporting period will cover January 1, 2023 – June 30, 2023. Table 3 outlines the outlines the approved projects from the IWWIP and the projection of work for the future reporting period.

Table 3. Approved Projects from IWWIP & Project of Projects					
Project Number	Control Measure	Description	Projected Implementation Schedule	Actual Implementation Schedule	Projected Work for Next Reporting Period
1	High Rate Treatment Facility (HRT)	HRT facility for control of CSO 002	Currently being built.  Substantial Completion of Construction: 9/1/22  Achievement of Full Operation: 12/31/24	Substantial Complete of Construction: 4/14/2022 (Note that Semi-Annual Report submitted October 14, 2022 to Erm Gomes). Lakewood began shakedown and operational integration with plant.	Projected to continue working through shakedown and plant integration throughout the next reporting period. Provide required reporting to Erm Gomes.
2	052 Storage	Design and construct storage for CSO 052 and aerial sewer to above ground storage at WWTP	Complete Design: 6/1/25  Initiate Construction: 6/1/26  Substantial Completion of Construction: 12/31/28  Achievement of Full Operation: 12/31/2030		Preliminary design work will continue. Basis of Design report to be completed.

3	059 Storage	Evaluate land use requirements, Design and construct storage for CSO 059 and related interceptor overflow storage facilities	<p>Complete Design: 12/31/28</p> <p>Initiate Construction: 6/1/30</p> <p>Substantial Completion of Construction: 12/31/31</p> <p>Achievement of Full Operation: 7/1/2033</p>		Projecting to continue evaluation of alternative sites for storage basin.
4	Pipe lining and replacements	Completed with annual watermain replacements, as necessary and hydraulically feasible		See Additional Activities specified below	See Projected Additional Activities specified.

Additional activities completed between July 1, 2022-December 31, 2022 include,

- **2022 Watermain Replacement and Sewer Improvements Andrews/Gladys** – Lakewood awarded the watermain and sewer improvements to Terrace Construction, Inc. Due to the national shortage of ductile iron watermain, construction began in November 2022. The watermain and fire hydrants for Andrews were installed during this period. The watermain installation began on Gladys.
- **2023 Watermain and Sewer Improvements Parkwood, Reveley, and Elmwood** – Lakewood completed pre-construction flow monitoring and pollutant sampling. The 90% plan set was completed during the reporting period.
- **2024 Watermain and Sewer Improvements Glenbury, Mars and Marlowe** – Planning and OPWC grant submittal.
- **Lewis Sewer Improvements** – Lakewood completed pre-construction flow monitoring. Worked on completing the Basis of Design report.
- **Interceptor Rehabilitation** – Lakewood completed the 90% plan set for slip lining the entire interceptor.

Projected additional activities for the reporting period January 1, 2023-June 30, 2023 include,

- **2022 Watermain Replacement and Sewer Improvements Andrews/Gladys** – Complete watermain installation on Gladys. Install water service connections, replace over and under sewer laterals or CIPP lining of under laterals for Andrews and Gladys. Perform manhole separations on Andrews. CIPP line the under sewer on Andrews and Gladys. Note that the manhole separation on Gladys is not hydraulically feasible at this time and will take place after completion of future IWWIP projects.
- **2023 Watermain and Sewer Improvements Parkwood, Reveley, and Elmwood** – Begin the watermain updates for Parkwood, Reveley, and Elmwood, including publishing the bid package in January 2023, and evaluating the proposals thereafter.
- **2024 Watermain and Sewer Improvements Glenbury, Mars and Marlowe** – Award contract for design services and begin the design.
- **Lewis Sewer Improvements** – Complete the Basis of Design report and begin the final design.
- **Interceptor Rehabilitation** – Complete the final plans, specifications, and estimate. Bid and award the contract.

### c. Notice of Anticipated Failures

Lakewood does not anticipate any failures in meeting the requirements of the CD for the coming reporting period, January 1, 2023-June 30, 2023.

### III. PRIVATE DISCHARGES

Lakewood is required to submit to Ohio EPA an annual report on discharges and backups on private property. This report covers the relevant reporting period and is attached as Attachment A.

### IV. NON-COMPLIANCE

The City of Lakewood has met all requirements for the July 1, 2022-December 31, 2022 reporting period related to IWWIP projects.

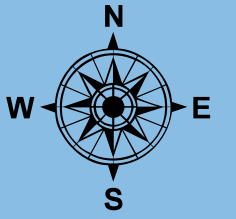
It should be noted that Cuyahoga County Board of Health provided the results from the dry weather screening on January 20, 2023. Six outfalls had sample results that exceeded 1,030 E.Coli MPN per 100 mL. Two outfalls are related to discharges from Cities of Cleveland (RRES 1230) and Rocky River (RRWS 1200) and have been reported previously to both cities and Ohio EPA. The City has previously performed dry weather tracing at RRES 1100 and RRWS1210 and determined that there are no illicit connections. These outfall areas are located where heavy geese population is known to exist. The city will perform microbial source tracing at these two locations to determine if the E.Coli is from human or non-human sources. When weather conditions are conducive to source tracing, the City will investigate the other outfalls: LEWS 1295 and RRES 1145 and work to remediate the sources.

ATTACHMENT A

Water In Basement Occurrences - Data Entry Spreadsheet

Permit Number	3PE00004*SD
Facility Name	City of Lakewood
Reporting Period	
From	1/1/2022
To	12/31/2022

Sewershed	WIB Occurrences	Causes (choose all that apply)	Other Cause Description
One	19	Other Blockages	
One	18	Roots	
One	2	Grease	
One	11	Debris in Line	
One	6	Line Deterioration	
One	0	Extreme Weather	
Two	13	Other Blockages	
Two	9	Roots	
Two	4	Grease	
Two	7	Debris in Line	
Two	4	Line Deterioration	
Two	0	Extreme Weather	
Three	12	Other Blockages	
Three	19	Roots	
Three	1	Grease	
Three	7	Debris in Line	
Three	5	Line Deterioration	
Three	0	Extreme Weather	
Four	7	Other Blockages	
Four	14	Roots	
Four	3	Grease	
Four	1	Debris in Line	
Four	3	Line Deterioration	
Four	0	Extreme Weather	



SEPTEMBER 2020

