

PROGRESS REPORT

DUE: January 31 and July 31 of each year until termination of Consent Decree

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JUL 31 2017

OHIO E.P.A.
N.W.D.O.

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Paragraph 33 of the Lima Consent Decree "CD") states that, on January 31 and July 31 after the Effective Date and continuing on January 31 and July 31 of each year until termination of the CD, Lima shall submit to USEPA and Ohio EPA a progress report regarding the implementation of the requirements of this Decree in the previous calendar half year ("Progress Report").

The Lima Consent Decree (CD) became effective on January 13, 2015 such that this report will commence reporting as of that date. The lettered paragraphs below parallel the format of paragraph 33 of the CD. Initiatives that were underway on the effective date of the CD are reported under Section b of this report.

- a. A statement setting forth the deadlines and other terms that Lima is or was required to meet by this Consent Decree since the date of the last Progress Report, whether and to what extent Lima has met these requirements, and the reasons for any noncompliance:

Lima Progress Report:

- (1) June 2, 2017 --- USEPA required Lima to submit a revised CMOM plan to include modifications requested in a letter received March 30, 2017. Lima submitted the revised plan on May 26, 2017.
- (2) July 2, 2017 --- USEPA required Lima to submit an updated CSOOP to include modifications requested in a letter received May 3, 2017. Lima submitted a revised CSOOP on June 30, 2017.

- b. A general description of the projects and activities conducted during the reporting period to comply with the requirements of this Decree, and a projection of work to be performed pursuant to this Consent Decree during the next reporting period. Notification to USEPA and Ohio EPA of any anticipated delay shall not, by itself, excuse the delay:

Lima Progress Report: Lima currently has the following contracts underway:

1. **Lima Wastewater Treatment Headworks Project** – Commenced construction on July 1, 2015. The following is a list of items in progress or completed:
 - a. All Bar Screens (4) have been placed in service
 - b. All Aerated Grit Tanks (4) have been placed in service
 - c. All Primary tanks (7) can be placed in service as needed as flow demands
 - d. All Secondary Effluent pumps have been placed in service
 - e. Disinfection process has been completed and was placed in service 5-1-17
 - f. Chlorine Contact Tank Construction has been completed

- g. Primary Scum Screen has been placed in service
- h. Drainage Pump Station has been placed in service
- i. All miscellaneous valves and gates have been replaced/installed
- j. Site paving has been completed
- k. Replacement of the existing plant PLCs is complete and programming is partially complete

Completion of the following items is expected within the next 6 months:

- PLC programming and optimizing of control systems.
 - Site cleanup punch list and grading/seeding.
 - Develop implementation strategy for seeding nitrification towers during dry weather to develop biomass suitable for wet weather treatment.
 - Develop implementation strategy for employing primary tank 5-7, effluent pumping, and towers to treat wet weather flows.
 - Develop PLC programming for seeding the nitrification tower and for control of wet weather treatment system.
 - Implement dry weather seeding strategy for towers and collect data.
 - After successful seeding of towers, begin trials of the towers for wet weather treatment.
2. **CMOM Plan Development** – Lima received a letter on 3/30/17 from USEPA requesting modification to the plan that was submitted 7/10/15. Lima submitted the revised plan to USEPA on 5/26/17.
 3. **Asset Management** – Final design and contract documents are still being developed for the Phase 1 Rehabilitation of the Segmented Block Sewers. Progress over the next six months is expected to include completion of final design and public bidding of this project.
 4. **Supplemental Environmental Project (SEP)**. Lima replanted 213 trees in April after the total failure of the trees planted in 2016. A recent inspection of the project area by USEPA revealed that all re-planted trees appear to have established roots and are doing well. USEPA requests Lima to submit a Revised SEP Completion Report by January 31, 2018.
 5. **Simmon's Field CSO EQ Basin** -- The City is under contract with Stantec (formerly MWH) for the engineering of this project. Three progress meetings occurred in the reporting period, with the 60% design drawings being submitted on May 5, 2017. Early unfavorable boring results led to additional borings as part of a Phase II Environmental Site Assessment. These additional borings were completed June 16, 2017. Contingent upon the soil boring results, completion of final design and public bidding of this project is expected in the next six month period.

- c. A summary of all material problems or potential problems encountered during the reporting period, and the actions taken to rectify the problems:

Lima Progress Report:

1. None noted.

- d. A summary of all material contacts with USEPA and Ohio EPA during the reporting period, including but not limited to the date deliverables under this Decree were sent to USEPA and Ohio EPA:

Lima Progress Report:

1. January 6, 2017 --- Lima submitted a SSO 5-Day Follow-up Report to OEPA concerning a force main rupture at the West Street Pump Station.
2. January 12, 2017 --- Lima submitted a SSO 5-Day Follow-up Report to OEPA concerning a flooded wet well at the Lost Creek Pump Station.
3. January 13, 2017 --- Lima submitted a comment letter (via Frost Brown Todd) to OEPA in response to the proposed promulgation of WQS for the Maumee river drainage.
4. February 10, 2017 --- Lima submitted a response letter to OEPA in reference to two "AD" values recorded for effluent temperature at Station 604 on the Compliance Review Report.
5. March 30, 2017 --- Lima received a letter from USEPA requesting modifications to the CMOM plan that was submitted July 10, 2015. Lima was given 60 days to respond.
6. April 5, 2017 --- OEPA conducted a Reconnaissance Inspection of Lima's WWTP.
7. April 19, 2017 --- Lima submitted a SSO 5-Day Follow-up Report to OEPA concerning the failure of a check valve at the Westgate Pump Station.
8. April 26, 2017 --- Lima submitted notification letter to USEPA that the replanting of 213 trees as part of the Supplemental Environmental Project (SEP) had been completed.
9. May 1, 2017 --- Lima received a letter from USEPA requesting modifications be made to the CSOOP that was submitted May 13, 2015.
10. May 26, 2017 --- Lima submitted revised CMOM Plan to USEPA.
11. June 19-21, 2017 --- USEPA and OEPA conducted a 3-day reconnaissance inspection that focused on the progress Lima has made on improvement projects defined in the consent decree entered into on January 13, 2015.
12. June 30, 2017 --- Lima submitted revised CSOOP plan to USEPA

- e. A statement of any exceedances of NPDES permit limitations:

Lima Progress Report:

1. January 1-2, 2017 --- Lima recorded "AD" values for effluent temperature at Station 604. Construction activity at the plant required manual recording (versus normal automatic SCADA entry) of temperature for a short period. Paper files were misplaced between shifts and the data was lost.
- f. A summary of all CSO Discharges, SSOs, Bypasses, and other unpermitted discharges occurring within the reporting period including the actual or estimated frequency, duration and volume of each CSO Discharge, SSO, Bypass, and other unpermitted discharge:

Lima Progress Report:

1. Water-in-Basement (WIB) Events --- Lima recorded 1 instance of WIB. It occurred as a result of grease that backed up the City's mainline. The line was immediately jetted and returned to normal service. The City continues to work with homeowners that experience chronic flooding on a case-by-case basis through a WIB Program that raises the lateral to a higher elevation and separates the storm water from the sanitary.
 2. SSO & CSO Monthly Reporting -- See attached Overflow Totals Report. These numbers are reported monthly to OEPA as part of the monthly Discharge Monitoring Report.
- g. A section containing a report on Lima's CMOM Program, as required by Paragraph 19.

CMOM PROGRAM REPORT

Paragraph 19

Summarize the activities performed during the previous six month period to implement the approved CMOM Program including, but not limited to:

- a. Describe Sewer System Cleaning, including:
- (1) Provide the total unique miles of sewer cleaned and percentage of system cleaned (with repeat cleaning of the same sewer segment not counted toward the total mileage)

Lima Progress Report:

From 1/1/17 to 6/30/17

80,198 linear feet = 15.2 miles (15% of SSS)

(2) List hotspot locations and the frequency that those sewer segments were cleaned:

Lima Progress Report:

Lima's "High Maintenance List" (i.e., hot spots) of sanitary sewers was completed on June 1, 2017. This list includes 39,022 feet (7.39 miles - 7.4% of SSS) of sewers that are susceptible to higher levels of grease and debris buildup.

b. Describe and Quantify the total mileage of internal sewer inspections, such as by CCTV:

Lima Progress Report:

Jan 1, 2017 – Jun 30, 2017

43,601 linear feet of CCTV Inspection = 8.26 miles (8% of SSS)

297 Manholes Inspected

c. Describe the rehabilitation and replacement work within the Sewer System started and completed or identified for future scheduling:

Lima Progress Report:

1. Rehabilitated 13 manholes (Mr. Manhole, repair casting, etc.)
2. Installed 5 new manholes and added 1,293 feet of sanitary mainline as part of a project to provide service to a local industry.

d. Describe operational changes or improvements implemented as part of the approved CMOM:

Lima Progress Report: None

e. Identify any cross-connections detected or eliminated and dye testing or clear water source elimination measures implemented:

Lima Progress Report: None

f. Identify the cause and corrective maintenance response taken to any SSOs that occurred:

Lima Progress Report:

In cases that involve structural failure of sewer system components or mechanical/electrical failure of equipment, a 24-hour emergency response crew is dispatched to address the situation. Lima had 3 SSOs in the reporting period that required a 5-Day Follow-up Report to OEPA. A

detailed description of the cause and corrective action taken for each SSO can be found within the reports.

In rain events where the sewer system is stressed beyond capacity, city personnel manage the pump stations and WWTP via SCADA to maintain maximum treatment capability.

I certify under penalty of law that the information contained in or accompanying this (submission/document) is true, accurate and complete. As to (the/those) identified portion(s) of this (submission/document) for which I cannot personally verify (its/their) truth and accuracy, I certify as the official having supervisory responsibility for the person (s) who, acting under my direct instructions, made the verification, that this is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.


Michael H. Caprella
Director of Utilities
City of Lima, Ohio

cc: David J. Berger, Lima City Mayor
Fred P. Andes, Barnes & Thornburg LLP
Stephen P. Samuels, Frost Brown Todd LLC
File

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SSO & CSO Overflow Totals

January 1 - June 30, 2017

Annual Report #	EPA ID #	Location of Overflow		SSO	CSO YTD
302	2PE00000047	MH#14 on Lost Creek Golf Course	SSO	8	
007	2PE00000007	S. Central Ave. & Ottawa River	CSO		6
008	2PE00000008	Timberlake Sewer & Ottawa River	CSO		0
009	2PE00000009	Oxford Ave. & Collett Street	CSO		1
037	2PE00000037	North Shore Dr. & Cole St.	CSO		1
035	2PE00000035	Lakewood Ave & Charles St.	CSO		2
034	2PE00000034	Judkins Ave at Kunneke Ave	CSO		0
033	2PE00000033	Nixon Ave. at Kunneke Ave.	CSO		0
303	2PE00000029	Glenwood Ave. between Lakewood and Wales Ave.	SSO	2	
304	2PE00000028	S. Pears Ave. at Kunneke Ave.	SSO	0	
305	2PE00000027	Lakewood Ave. & Maplewood Drive	SSO	1	
306	2PE00000026	S. Pears Ave. between Wendell Ave & Lakewood Ave.	SSO	0	
307	*****	418 South Pears (MH 0-10)	SSO	1	
308	2PE00000025	S. Pears Ave. between Lowell Ave. & Wendell Ave.	SSO	6	
309	2PE00000023	S. Pears Ave. between W. Spring & W. Elm St	SSO	4	
310	2PE00000024	Between W. Spring & W. Elm, East of Primrose Pl	SSO	6	
311		1861 Wendell	SSO	0	
313	2PE00000031	S. Cable Rd. at Lakewood Ave.	SSO	15	
314	2PE00000032	S. Cable Rd. at Wendell Ave.	SSO	5	
316	2PE00000022	Dale Dr. & Idlewild Dr.	SSO	0	
317	2PE00000020	Dale Dr. between W. Wayne & Oakland Pkwy	SSO	6	
318	2PE00000021	Dale Dr. & West Wayne St.	SSO	3	
319	2PE00000018	University Ave. & Dale Dr.	SSO	2	
320	*****	Columbia @ Allentown, MH #92	SSO	12	
321	2PE00000051	1379 N. Cable Road Lift Station (Check Valve)	SSO	0	
322	2PE00000050	1700 Allentown Road Lift Station (Check Valve)	SSO	5	
323	*****	Rosedale @ Ellison Ave.	SSO	5	
324	*****	Woodlawn @ Ellison Ave.	SSO	5	
325	2PE00000017	Woodlawn Ave. & Feeman Ave.	SSO	2	
014	2PE00000014	Metcalf St. & Tremont Ave.	CSO		
016	2PE00000016	Metcalf St. & Ashton Ave.	CSO		
015	2PE00000015	Metcalf St. & Runyan Ave.	CSO		
038	2PE00000038	West & O'Conner Ave	CSO		1
012	2PE00000012	McDonel St. & O'Connor Ave.	CSO		1
011	2PE00000011	Burch Ave. & O'Connor Ave.	CSO		
013	2PE00000013	Metcalf St. & O'Connor Ave.	CSO		1
326	2PE00000010	Northwold St. & O'Connor Ave.	SSO	0	
327	2PE00000049	1330 Melrose Ave.	SSO	1	
329	2PE00000042	Metcalf St. & Lane Ave.	SSO	0	
330	2PE00000044	Metcalf St. & Ford Ave.	SSO	4	
331	*****	Burch & Ford	SSO	4	
332	2PE00000046	2032 Burch Ave.	SSO	1	
333	2PE00000045	Burch Ave. & Lewis Ave.	SSO	1	
334	2PE00000043	Metcalf St. & Lewis Blvd.	SSO	1	
335	2PE00000041	Celia Place & Northern Ave.	SSO	8	
336	2PE00000039	Karen St. & Lewis Blvd. (N)	SSO	2	
337	2PE00000038	Karen St. & Lane Ave	SSO	9	
338	2PE00000056	West St. Lift Station	SSO	0	
Overflow Totals =				119	13
Report Updated on 7/7/17				SSO	CSO
Total # of Reports....28					