

# **2019 ANNUAL NOTICE**

## **COMBINED SEWER OVERFLOW NOTIFICATION PLAN**

**for the**

**City of Akron  
Water Reclamation Services**



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# **COMBINED SEWER OVERFLOW NOTIFICATION PLAN**

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### ***Table of Contents***

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<b>SECTION</b>	<b>PAGE</b>
Introduction and Background .....	3
Overview of Annual Notice .....	3
CSO Discharge Point Locations.....	4
CSO Occurrences and Overflow Volume.....	5
Dry Weather Overflows .....	5
Other CSO Monitoring.....	5
Public Access Areas .....	6
Representative Precipitation Data.....	6
Permittee Contact Information .....	6
Nine Minimum Controls Implementation .....	6
Long-term CSO Control Plan Implementation.....	8

### ***Appendices***

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Appendix A	CSO Occurrences, Overflow Volumes and Precipitation Data 2019
Appendix B	Consent Decree Semi-Annual Report #20 (July 1 2019 - December 31 2019)

## Introduction and Background

The City of Akron has developed a Combined Sewer Overflow Notification Plan (the “Plan”) to comply with the requirements of 40 C.F.R. § 122.38. This regulation requires that a permittee authorized to discharge combined sewer overflows (“CSOs”) to the Great Lakes Basin must provide public notification, as described within the rule, as well as develop a notification plan.

The City of Akron sewer collection system includes both separate sanitary sewers and combined sewers (i.e. sewers that carry both sanitary flows and storm water in the same pipe). The combined sewers are located within the older central core of the City. The combined sewer system includes CSO outfalls that discharge to surface waters when the flow exceeds the capacity of the combined sewers. Intercepted flows are theoretically controlled by drop inlet or “limiting pipe” racks located in the invert of the combined sewer trunks at their connection points to the Ohio Canal Interceptor (OCI), the Little Cuyahoga Interceptor, the Northside Interceptor, the Camp Brook Trunk Sewer, and the Main Outfall Sewer. These racks function as static control devices, which intercept all dry weather flow, while limiting flow to the interceptor sewers during rainfall events. The “limiting pipe” consists of a small diameter conduit connecting the drop inlet to the interceptor sewer and serves as a connection between the interceptor sewers and the combined sewer system. The drop inlet is covered with a horizontal bar rack to prevent clogging of the connection. The bar rack accounts for the name “Rack” that is given to each regulator.

The City of Akron’s Water Reclamation Facility (WRF) and sewer collection system is regulated under a National Pollution Discharge Elimination System (NPDES) permit that has been issued by the Ohio EPA (Permit #3PF00000). This permit authorizes the discharges of CSOs at certain locations within the system.

The City is in the process of installing controls to reduce the volume and frequency of CSOs from the sewer system. The controls are being installed in accordance with a federal Consent Decree and a CSO Long Term Control Plan that has been approved by both the U.S. Environmental Protection Agency (“EPA”) and the Ohio EPA.

## Overview of the Annual Notice

The U.S. EPA adopted 40 C.F.R. §122.38 to implement section 425 of the Consolidated Appropriations Act of 2016, which requires U.S. EPA to work with the Great Lakes States to establish public notification requirements for CSO discharges to the Great Lakes Basin.

The requirements of the regulation include providing an Annual Notice that is designed to describe and summarize the CSO discharges from the permittee’s discharge point(s) that occurred in the previous calendar year. This Annual Notice includes data for 2019.

Copies of the CSONP Annual Notice will be posted to the CSO Notification web page at <http://www.akronwaterwaysrenewed.com/cso.aspx> and distributed to the following departments and functional positions:

- U.S. EPA (email sent to: [NPDES\\_CS0@epa.gov](mailto:NPDES_CS0@epa.gov))
- Ohio EPA, David Brumbaugh – Environmental Specialist II (Central Office) and Ermelindo Gomes – Environmental Engineer (Northeast District Office)
- Summit County Public Health, Health Commissioner
- Summit Metro Parks, Superintendent

- Cuyahoga Valley National Park
- City of Akron, Water Reclamation Services
- City of Akron, Director of Public Service
- City of Cuyahoga Falls, City Engineer

The elements that must be included within this Annual Notice are set forth in 40 C.F.R. § 122.38(b). Each required element is discussed in the following sections.

## CSO Discharge Point Locations

*(1) A description of the location and receiving water for each CSO discharge point and, if applicable, any treatment provided;*

Table 1. CSO Discharge Point Locations

Permit Outfall Number	Location	Latitude			Longitude			Receiving Water
		DEG	MIN	SEC	DEG	MIN	SEC	
3PF00000046	Rack 3 – Kelly Ave.	41	03	50.4	81	28	52.5	Little Cuyahoga River
3PF00000047	Rack 4 – Mill St.	41	05	01.1	81	31	13.0	Ohio and Erie Canal
3PF00000049	Rack 6 – Factory St.	41	03	54.1	81	29	04.8	Little Cuyahoga River
3PF00000053	Rack 10 – Case Ave. – Newton St. District	41	04	29.6	81	29	03.4	Little Cuyahoga River
3PF00000054	Rack 11 – Hazel St. – District 4	41	04	45.4	81	29	08.7	Little Cuyahoga River
3PF00000055	Former Rack 12 – Camp Brook Storage Basin	41	05	34.5	81	29	00.7	Camp Brook
3PF00000057	Former Rack 14 – Forge Field Storage Basin	41	05	07.6	81	29	43.1	Little Cuyahoga River
3PF00000058	Former Rack 15 – Cascade Village Storage Basin	41	05	26.7	81	30	15.8	Little Cuyahoga River
3PF00000059	Rack 16 – Wolf Ledges Trunk	41	04	44.4	81	31	23.2	Ohio and Erie Canal
3PF00000060	Rack 17 – Exchange St.	41	04	44.8	81	31	22.5	Ohio and Erie Canal
3PF00000061	Rack 18 – Willow Run Trunk	41	05	10.9	81	31	08.7	Ohio and Erie Canal
3PF00000062	Rack 19 – West Market St.	41	05	10.5	81	31	08.6	Ohio and Erie Canal
3PF00000063	Rack 20 – West North St.	41	05	28.1	81	31	04.2	Ohio and Erie Canal
3PF00000065	Former Rack 22 – Howard Street Storage Basin	41	05	34.3	81	31	05.3	Little Cuyahoga River
3PF00000066	Rack 23 – North Maple St.	41	05	37.9	81	31	10.4	Little Cuyahoga River
3PF00000067	Rack 24 – West Market St Outlet @ Ravine St.	41	05	38.7	81	31	16.4	Little Cuyahoga River
3PF00000069	Rack 26 – Aqueduct St outlet E. of Hickory St.	41	06	05.4	81	31	39.9	Little Cuyahoga River
3PF00000070	Rack 27 – Uhler Ave. @ Memorial Parkway	41	06	14.7	81	31	38.1	Little Cuyahoga River
3PF00000071	Rack 28 – Memorial Parkway @ Hickory St.	41	06	14.6	81	31	39.5	Little Cuyahoga River
3PF00000072	Rack 29 – Uhler Ave. – Carpenter St. Outlet	41	06	29.9	81	31	39.5	Little Cuyahoga River
3PF00000075	Rack 32 – Carpenter Heights District @ Cascade Park Rd.	41	07	03.6	81	31	19.5	Cuyahoga River
3PF00000076	Rack 33 – North Side Interceptor @ Main St.	41	07	23.0	81	30	38.3	Cuyahoga River
3PF00000077	Rack 34 – Riverside Dr. District @ MetroParks Rd.	41	07	23.6	81	29	54.7	Cuyahoga River
3PF00000078	Rack 35 – Gorge Blvd. District @ Front St. Bridge	41	07	04.4	81	29	37.6	Cuyahoga River
3PF00000080	Rack 37 – Bowery Street	41	04	49.8	81	31	12.1	Ohio and Erie Canal
3PF00000081	Former Racks 2N & 2S – Goodyear Retention Tank 1376 9th Ave.	41	03	33.8	81	28	29.2	Little Cuyahoga River
3PF00000083	Former Racks 31/40 – Cuyahoga Street Storage Facility	41	06	46.3	81	31	39.4	Little Cuyahoga River

## CSO Occurrences and Overflow Volume

- (2) *The date, location, approximate duration, measured or estimated volume and cause (e.g., rainfall, snowmelt) of each CSO discharge during the past calendar year.*

CSO Occurrences and Overflow Volume are contained in Appendix A.

## Dry Weather Overflows

- (3) *The date, location, approximate duration, measured or estimated volume, and cause of each dry weather CSO discharge during the past calendar year.*

There was one dry weather overflow at CSO discharge points from in 2019.

Table 2. CSO Dry Weather Overflows

Date of Incident	Location Address/Structure Name	Duration In hours	Estimated Volume In Gallons	Cause (FOG, Roots, etc.) * = added to PM trouble list	24-Hour Notification Provided to OEPA	Date of Written Notification
12/22 - 12/23/19	CSO Rack 4	30-hr 29-min	0.12 MGAL	Water main break	12/23/19	12/27/19

## Other CSO Monitoring

- (4) *A summary of available monitoring data for CSO discharges from the past calendar year.*

CSO Occurrences and Overflow Volume are contained in Appendix A.

All other CSO monitoring is required to be performed during the recreation season (May – October). For total suspended solids, ammonia (NH<sub>3</sub>), E. Coli and CBOD<sub>5</sub>, the City is required to set up a rotating schedule to sample at least five (5) stations each month. For each of the five stations, a sample is collected and the data reported for the day when the discharge from the station was sampled. Sampling for these parameters is required during normal working hours.

The following is the results from the monitoring at CSO discharge points from 2019.

Table 3. 2019 CSO Monitoring Data

2019	Outfall #	Date	TSS (mg/L)	CBOD <sub>5</sub> (mg/L)	Ammonia (mg/L)	E Coli.
R03	3PF00000046	9/23/2019	1010	310	NA	2,610,000
R04	3PF00000047	6/5/2019	32	7.8	0.706	51,700
R04	3PF00000047	10/16/2019	33	96.8	NA	110,000
R16	3PF00000059	10/31/2019	188	NA	0.0425	37,400
R16	3PF00000059	6/5/2019	355	27.6	0.649	283,000
R20	3PF00000063	6/5/2019	1060	16.8	0.554	15,700
R24	3PF00000067	7/17/2019	85	6.86	0.141	95,900
R26	3PF00000069	10/31/2019	35	NA	0.301	117,000
R26	3PF00000069	7/17/2019	169	12.2	0.128	365,000
R27	3PF00000070	7/17/2019	133	6.8	0.157	101,000
R29	3PF00000072	6/5/2019	83	22.9	1.33	> 480,000
R34	3PF00000077	6/5/2019	50	32.3	1.23	241,000

## Public Access Areas

*(5) A description of any public access areas potentially impacted by each CSO discharge;*

There are currently no public access areas that are impacted by CSO discharges.

## Representative Precipitation Data

*(6) Representative precipitation data in total inches to the nearest 0.1 inch that resulted in a CSO discharge, if precipitation was the cause of the discharge identified in (§ 122.38(b)(2));*

Precipitation data collected at the 13 City owned rain gauges is included in Appendix A.

## Permittee Contact Information

*(7) Permittee contact information, if not listed elsewhere on the website where this annual notice is provided; and*

Permittee contact information is included on the CSO Notification Web page (<http://www.akronwaterwaysrenewed.com/cso.aspx>) and elsewhere on the Akron Waterways Renewed (AWR!) website.

## Nine Minimum Controls Implementation

*(8) A concise summary of implementation of the nine minimum controls and the status of implementation of the long-term CSO control plan (or other plans to reduce or prevent CSO discharges), including:*

The U.S. Environmental Protection Agency's (US EPA) Combined Sewer Overflow (CSO) Control Policy identifies nine minimum controls (NMC) that must be implemented to reduce CSO discharges and their effect on receiving waters.

### NMC #1 – Provide Proper Operation and Maintenance for the Collection System and Combined Sewer Overflow Points

On a daily basis, the City inspects and cleans if necessary, static combined sewer overflow racks (bar screens), or regulating structures, in efforts to minimize the potential for dry weather overflow events from occurring. The CSO racks are remotely monitored via a Supervisory Control and Data Acquisition (SCADA) system that alerts the Water Reclamation Facility operator of a possible dry weather overflow event that may require immediate investigation.

In addition, the City inspects and cleans, if necessary, the sanitary and combined sewer system on a 5-year frequency. Specific segments are inspected and cleaned more often as a result of roots, fats, oils, and grease, or other operational defects.

### NMC #2 – Provide Maximum Use of the Collection System for Storage of Wet Weather Flow Prior to Allowing Overflows

The City operates and maintains six (6) CSO storage basins throughout the collection system that have the ability to store approximately 26.8 MG. Future facilities to be placed in service include one (1) CSO storage basin (4.5MG) and two (2) storage and conveyance tunnels (48.6 MG).

In addition, the City is designing a real-time control decision support system to optimize the available capacity in the collection system during wet-weather events.

### **NMC #3 - Review and Modify the Pretreatment Program to Minimize the Impact of Non-Domestic Discharges from CSOs**

The City of Akron implements an aggressive goal-oriented pretreatment program which has received commendation from the OEPA. The program undertakes the following measures to ensure continued compliance:

- Develop and initiate Pollution Prevention Programs with tributary industries
- Conduct industrial workshops
- Develop a work plan for integrated data management system for tracking pretreatment program activities
- Formalize spill response requirements with tributary industries
- Continuous updates to the City's industrial database, identifying major pollutant contributors upstream of overflows
- Establish and maintain a database of priority industries in terms of type of discharge, specifically hazardous or deleterious contaminants upstream of overflows
- Regular monitoring of the discharge of industries with particular emphasis on priority industries
- Ongoing enforcement of discharge reduction programs

### **NMC #4 - Maximize Flow to the Publically Owned Treatment Works (POTW) for Treatment**

The City inspects and cleans, if necessary, the sanitary and combined sewer system on a 5-year frequency. Specific segments are inspected and cleaned more often as a result of roots, fats, oils, and grease, or other operational defects.

In addition, the City is designing a real-time control decision support system to optimize the available capacity in the collection system during wet-weather events.

### **NMC #5 - Prohibit CSO Discharges During Dry Weather**

On a daily basis, the City inspects and cleans if necessary, static combined sewer overflow racks (bar screens), or regulating structures, in efforts to minimize the potential for dry weather overflow events from occurring. The CSO racks are remotely monitored via a Supervisory Control and Data Acquisition (SCADA) system that alerts the Water Reclamation Facility operator of a possible dry weather overflow event that may require immediate investigation.

### **NMC #6 - Control Solid and Floatable Materials in CSO Discharges**

Floatable material and solids control exist at the majority of the CSO storage basins with the use of mechanically-raked bar screens. This screening allows the

majority of the floatables and solids to stay in the sewer system to be transported and removed at the Water Reclamation Facility.

### **NMC #7 – Conduct Required Inspection, Monitoring and Reporting of CSOs**

On a daily basis, the City inspects and cleans if necessary, static combined sewer overflow racks (bar screens), or regulating structures, in efforts to minimize the potential for dry weather overflow events from occurring. The CSO racks are remotely monitored via a Supervisory Control and Data Acquisition (SCADA) system that alerts the Water Reclamation Facility operator of a possible dry weather overflow event that may require immediate investigation.

### **NMC #8 – Implement Pollution Prevention Programs that Focus on Reducing the Level of Contaminants in CSOs**

As described in NMC #3, the City has established measures for pollution prevention at its regulated industries.

In addition, in 2013, a Fats, Oils, and Grease (FOG) control program was established to eliminate the discharge of FOG substances into the sewer system by Food Service Establishments (FSEs).

### **NMC #9 – Implement a Public Notification Program for Areas Affected by CSOs**

The City developed a Combined Sewer Overflow Notification Plan (the “Plan”) to comply with the requirements of 40 C.F.R. § 122.38. This regulation requires that a permittee authorized to discharge combined sewer overflows (“CSOs”) to the Great Lakes Basin must provide public notification, as described within the rule, as well as develop a notification plan.

As part of its Plan, the City of Akron created a CSO Notification Web Page, which can be found at [www.akronwaterwaysrenewed.com/cso.aspx](http://www.akronwaterwaysrenewed.com/cso.aspx), that the public can visit 24-hours per day to learn if a CSO discharge(s) is occurring, or has occurred in the past. The Web Page will display the initial notification as soon as possible, but no later than four (4) hours after the City becomes aware that a CSO discharge has occurred. Shortly after the end of the day in which CSO discharges have occurred, the Web Page will display supplemental information that includes the measured or estimated volume of discharge(s) and the approximate time(s) the discharge(s) ended.

## **Long-term CSO Control Plan Implementation**

- i. A description of key milestones remaining to complete implementation of the plan; and*

A summary of the key milestones remaining to complete implementation of the LTCP is contained in the following table. A complete report on the status of implementation of the long-term CSO control plan is included in the “City of Akron Consent Decree Semi-Annual Report No. 20” in Appendix B.



- ii. *A description of the average annual number of CSO discharges anticipated after implementation of the long-term control plan (or other plan relevant to reduction of CSO overflows) is completed.*

After implementation of the long-term control plan, the performance criteria for all CSO Control Measures is to have zero untreated combined sewer overflows in the typical year, as defined by the Consent Decree.

### **Status of Implementation of the Long-Term Control Plan**

<b>Control Measure Location</b>	<b>Description</b>	<b>Critical Milestones</b>	<b>Progress During 2<sup>nd</sup> Half of 2019</b>
Rack 3	Green infrastructure plus optimized conveyance	Bidding of Control Measure – June 30, 2018.  Achievement of Full Operation – November 30, 2020.	The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the storage basin with Green infrastructure plus optimized conveyance.  Kelly Conveyance (CSO Rack 3), the upsized underflow, was awarded to a contractor. Contractor projected to start January 2020.  Chittenden Green Project (CSO Rack 3), final landscaping and pavement remains to be completed on this project.  Duane Green Project (CSO Rack 3) was awarded to a contractor, and is projected to start in January 2020.
Rack 3	Develop and implement GI O&M Plans	Submit O&M Plan in accordance with Exhibit 7, no later than August 30, 2020	
Rack 5 and 7	Green Infrastructure and Sewer Separation (Per Exhibit 3)	Bidding of Control Measure – October 31, 2015.  Achievement of Full Operation – October 31, 2017.	Construction Notice to Proceed was issued on June 21, 2016.  Achievement of Full Operation occurred on October 26, 2017.  Sub-final punch list is complete.
Racks 10 and 11	Storage Basin(s)	Bidding of Control Measure – June 30, 2018.  Achievement of Full Operation – December 31, 2020.	The Court entered the Second Amendment to the Consent Decree December 17, 2019 which increased the size of the storage basin from 2.5 to 4.5 MG.  Construction Notice to Proceed was issued on September 24, 2018.  Construction is ongoing

<b>Control Measure Location</b>	<b>Description</b>	<b>Critical Milestones</b>	<b>Progress During 2<sup>nd</sup> Half of 2019</b>
Rack 12	Storage Basin(s)	Bidding of Control Measure – November 30, 2014.  Achievement of Full Operation – October 31, 2017.	Construction Notice to Proceed was issued on May 29, 2015.  Achievement of Full Operation occurred on October 30, 2017.  Construction continues on remaining punch list items.
Rack 14	Storage Basin(s)	Bidding of Control Measure – October 31, 2014.  Achievement of Full Operation – April 30, 2017.	Project complete. All warranty work is complete.  Achievement of Full Operation occurred on January 3, 2017.
Rack 15	Storage Basin(s)	Bidding of Control Measure – November 30, 2013.  Achievement of Full Operation – October 31, 2015.	Project complete. Final pay application was processed, and loan was closed.  Project placed in service on October 30, 2015.  Achievement of Full Operation occurred on February 17, 2016.
Rack 22	Storage Basin(s)	Bidding of Control Measure – October 31, 2015.  Achievement of Full Operation – December 31, 2017.	Project complete.  Achievement of Full Operation occurred on November 29, 2017.  Construction is complete.
Rack 26 and 28	Green infrastructure plus optimized conveyance	Bidding of Control Measure – October 31, 2021.  Achievement of Full Operation – December 31, 2022.	The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the storage basin with Green infrastructure plus optimized conveyance.  Construction was completed for one aspect of the IP alternative, called Aqueduct Green Street Improvements.
Rack 26 and 28	Develop and implement GI O&M Plans	Submit O&M Plan in accordance with Exhibit 7, no later than March 1, 2019	U.S. EPA issued an approval of the City's O&M Plan on October 23, 2019. GI performance reporting is provided in Appendix H.
Rack 27	Optimized conveyance	Bidding of Control Measure – January 31, 2018.  Achievement of Full Operation – December 31, 2019.	The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the storage basin with optimized conveyance. The notice to proceed was issued on November 5, 2018.  Achievement of Full Operation occurred on December 21, 2019.  Construction continues on remaining punch list items.

<b>Control Measure Location</b>	<b>Description</b>	<b>Critical Milestones</b>	<b>Progress During 2<sup>nd</sup> Half of 2019</b>
Rack 29	Optimized conveyance	<p>Bidding of Control Measure – January 31, 2018.</p> <p>Achievement of Full Operation – December 31, 2019.</p>	<p>The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the storage basin with optimized conveyance.</p> <p>The notice to proceed was issued on November 5, 2018.</p> <p>Achievement of Full Operation occurred on December 21, 2019.</p> <p>Construction continues on remaining punch list items.</p>
Rack 36	Green Infrastructure and Sewer Separation (Per Exhibit 3)	<p>Bidding of Control Measure – October 31, 2015.</p> <p>Achievement of Full Operation – October 31, 2017.</p>	<p>Project is in the warranty period.</p> <p>Achievement of Full Operation occurred on October 30, 2017.</p> <p>Construction was substantially complete as of September 15, 2017.</p> <p>Final punch list work is completed.</p>
Racks 4, 16, 17, 18, 19, 20, 23, 24, 37	Ohio Canal Tunnel – Construct a 28- foot internal diameter tunnel, 5,500 feet in length, or any other combination of diameter and length that achieves the design criteria.	<p>Bidding of Control Measure – April 30, 2014.</p> <p>Achievement of Full Operation – December 31, 2018.</p>	<p>Notice to Proceed was issued on November 6, 2015.</p> <p>Construction is ongoing.</p> <p>On September 21, 2017, the City submitted a notification that the City has reason to believe that the Ohio Canal Interceptor Tunnel project will not meet the Achievement of Full Operation deadline. The City submitted an amendment to this notification on October 17, 2017. The parties then participated in a conference call on November 29, 2017 and further discussed the status of the schedule of the project. The parties agreed that the City would submit periodic updates on the status of the schedule of the project. The most recent contractor's schedule update dated January 3, 2020 forecasts the substantial completion milestone to be achieved June 30, 2020.</p>
Racks 16, 17, 18, 19, 20, 23, 24	Ohio Canal Tunnel – ACTIFLO <sup>TM</sup> Ballasted Flocculation Unit or equivalent technology that meets the Design and Performance Criteria and Disinfection.	<p>Bidding of Control Measure – April 30, 2024.</p> <p>Achievement of Full Operation – October 31, 2027.</p>	<p>LTCP optimization was performed as part of the Integrated Plan in 2015. No advanced facilities planning or design activities were undertaken during the reporting period.</p>

<b>Control Measure Location</b>	<b>Description</b>	<b>Critical Milestones</b>	<b>Progress During 2<sup>nd</sup> Half of 2019</b>
Racks 32, 33, 34, 35	Northside Interceptor Tunnel – Construct a 20- foot internal diameter tunnel, 10,000 feet in length or any other combination of diameter and length that achieves the design criteria.	Bidding of Control Measure – April 30, 2023.  Achievement of Full Operation – December 31, 2026.	The City is advancing the work on the Integrated Plan project to a preliminary design stage in the first half of 2020
WPCS Phase 1	Upgrade conventional secondary treatment capacity to 130MGD by implementing step feed operation in Train 6, as described in Paragraph 10.A of the Consent Decree.	Bidding of Control Measure – October 31, 2011.  Achievement of Full Operation – October 15, 2013.	Project complete (see Section 1.A of this Semi-Annual Report).
WPCS Phase 1	Upgrade conventional secondary treatment capacity to 130MGD by performing the upgrades identified in the Consent Decree in Section V.10.C.	Bidding of Control Measure – January 15, 2016.  Achievement of Full Operation – October 15, 2017.	Since the Final Demonstration Testing Evaluation Report concluded that the step feed and clarifier upgrades to Unit 6 have achieved 30 MGD of wet weather treatment capacity, this Consent Decree item is not required.
WPCS Phase 1 BioACTIFLOTM Wet Weather Treatment Pilot Study (the “Pilot Study”)	Conduct the Pilot Study in accordance with Exhibit 1 to this Long Term Control Plan Update.	Pilot Study Start Date – May 1, 2012.  Pilot Study Completion Date – November 30, 2013.  Pilot Study Report submitted to EPA by December 31, 2013.	Study is complete. USEPA issued a concurrence letter on April 8, 2015.
WPCS Phase 2 – Part 1*	Upgrade conventional secondary treatment capacity to 170 MGD.	Bidding of Control Measure – February 28, 2019.  Achievement of Full Operation – December 31, 2021.	This project was replaced by WPCS Alternative Plan A Phase 2 – Part 1 per US EPA approval of Alternate Plan A on February 11, 2016.
WPCS Phase 2 – Part 2*	Install BioACTIFLOTM ballasted flocculation to treat all flow that does not receive conventional secondary treatment. In addition, all flows receiving BioACTIFLOTM shall receive disinfection.	Bidding of Control Measure – April 30, 2017.  Achievement of Full Operation – April 30, 2019.	This project was replaced by WPCS Alternative Plan A Phase 2 – Part 2 per US EPA approval of Alternate Plan A on February 11, 2016.

<b>Control Measure Location</b>	<b>Description</b>	<b>Critical Milestones</b>	<b>Progress During 2<sup>nd</sup> Half of 2019</b>
WPCS Alternative Plan A – Phase 2 – Part 1*	Upgrade conventional secondary treatment capacity to achieve the minimum sustained capacity specified in Alternative Plan A approved by USEPA.	Bidding of Control Measure – April 30, 2017.  Achievement of Full Operation – April 30, 2019.	USEPA issued an approval of Alternative Plan A on February 11, 2016 to upgrade conventional secondary treatment capacity to 220 MGD.  The construction Notice to Proceed was issued on August 24, 2016.  Construction is complete. Achievement of Full Operation occurred on April 30, 2019.  The sequence of the WPCS Alternative A Phase 2, Part 1 (Row 17) and Phase 2 Part 2 projects was changed under the First Amendment to the Consent Decree, entered on September 20, 2016. The revised dates are shown in this report.
WPCS Alternative Plan A – Phase 2 – Part 2*	Install – BioCEPT to achieve a minimum capacity of 60 MGD. In addition, all flows receiving BioCEPT shall receive disinfection during the recreation season.	Bidding of Control Measure – February 28, 2019.  Achievement of Full Operation – December 31, 2021.	BioCEPT to achieve a minimum sustained capacity of 60 MGD.  The Notice to Proceed was issued to the Contractor on May 31, 2019. Construction is ongoing.  The sequence of the WPCS Alternative A Phase 2, Part 1 (Row 17) and Phase 2 Part 2 projects was changed under the First Amendment to the Consent Decree, entered on September 20, 2016. Response to Row 17. The revised dates are shown in this report.  The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the BioACTIFLO facility with a BioCEPT facility and an additional demonstration study. The replacement project was approved by USEPA and Ohio EPA, see Section 2.A.2.
WPCS Alternative Plan B – Phase 2 – Part 1*	Upgrade conventional secondary treatment capacity to achieve the minimum sustained capacity specified in Alternative Plan B approved by USEPA.	Bidding of Control Measure – December 31, 2019.  Achievement of Full Operation – December 31, 2021.	Not Applicable
WPCS Alternative Plan B – Phase 2 – Part 2*	Install BioACTIFLO™ ballasted flocculation to achieve the minimum capacity specified in Alternative Plan B approved by USEPA. In addition, all flows receiving BioACTIFLO™ shall receive disinfection.	Bidding of Control Measure – April 30, 2017.  Achievement of Full Operation – April 30, 2019.	Not Applicable

## **Appendix A**

CSO Occurrences, Overflow Volumes and  
Precipitation Data 2019

Listing of all CSO discharges and rain data, 2019

	Date:	1/1/2019		1/7/2019		1/8/2019		1/9/2019		1/23/2019		1/24/2019		1/28/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	0	0	0	0	0	0	14.9	0.1729	4.1	0.0479	0	0
047/R04	Mill St.	0	0	0	0	0	0	0.09	0.0583	4.76	0.3442	0.49	0.0226	0.19	0.0056
049/R06	Factory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	0	0	0	0	0	0	0.62	0.0024	0	0	0	0
054/R11	Hazel St. – District 4	0	0	0	0	0	0	0	0	13.15	5.6568	3.09	1.5071	0	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	11.47	0.0542	0	0	0	0	0	0	16.43	10.5503	9.54	4.7364	0.45	0
060/R17	Exchange St.	0	0	0	0	0	0	0	0	1.94	0.0470	1.68	0.0689	0.15	0.0006
061/R18	Willow Run Trunk	0.61	0	0	0	0	0	0	0	16.48	0.2775	11.55	0.2733	1.21	0.0305
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	0	0	0.2	0	0.49	0.0311	0	0	17.19	2.1547	3.9	0.4550	1.99	0.0919
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	0	0	1.79	0.5186	0.08	0.0023	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0	0	0	0	0	0	0.61	0.0015	1.39	0	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0.13	0	0	0	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	0	0	0	0	0.82	0	0	0	0	0	5.64	0.0531	1.23	0.0073
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	0	0	0	0	0	0	6.4	0.2205	2.34	0.0483	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0.09	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.00	0.00	0.02	0.17	0.01	0.08	0.01	0.08	1.08	8.83	0.21	1.75	0.27	2.08
G2	1532 Peckham St.	0.01	0.08	0.03	0.25	0.12	0.75	0.00	0.00	1.15	9.17	0.17	1.42	0.37	3.00
G3	1668 Merriman Rd.	0.01	0.08	0.03	0.25	0.09	0.67	0.02	0.17	1.19	9.25	0.20	1.67	0.31	2.50
G4	1200 Firestone Pkwy.	0.01	0.08	0.03	0.25	0.00	0.00	0.00	0.00	0.59	4.75	0.16	1.33	0.28	2.25
G5	177 S. Broadway St.	0.01	0.08	0.02	0.17	0.10	0.67	0.01	0.08	1.24	9.25	0.19	1.58	0.35	2.83
G6	574 E. Cuyahoga Falls Ave.	0.01	0.08	0.02	0.17	0.14	0.83	0.01	0.08	0.93	7.67	0.18	1.50	0.34	2.75
G7	1436 Triplett Blvd.	0.02	0.17	0.02	0.17	0.01	0.08	0.00	0.00	0.37	2.33	0.20	1.67	0.27	2.17
G8	2100 Eastwood Ave.	0.01	0.08	0.03	0.25	0.06	0.50	0.00	0.00	1.14	9.42	0.20	1.67	0.34	2.67
G9	3487 S. Smith Rd.	0.02	0.17	0.02	0.17	0.11	0.67	0.01	0.08	1.09	8.33	0.16	1.33	0.30	2.42
G10	3061 Albrecht Ave.	0.01	0.08	0.03	0.25	0.02	0.17	0.00	0.00	1.02	8.42	0.20	1.67	0.26	2.17
G11	89 E. Howe Rd.	0.02	0.17	0.02	0.17	0.17	0.92	0.00	0.00	1.02	8.33	0.19	1.58	0.39	3.25
G12	1100 Graham Circle	0.03	0.25	0.02	0.17	0.11	0.75	0.00	0.00	1.18	9.58	0.19	1.58	0.01	0.08
G13	10 Ascot Pkwy.	0.01	0.08	0.02	0.17	0.08	0.58	0.01	0.08	1.00	7.83	0.18	1.50	0.29	2.42

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	1/29/2019		1/30/2019		1/31/2019		2/2/2019		2/3/2019		2/4/2019		2/6/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	2.95	16.0786	2.85	14.3153	0	0	0	0	0	0	0	0
047/R04	Mill St.	0	0	0	0	0	0	0	0	0	0	0	0	0.52	0.0339
049/R06	Factory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
054/R11	Hazel St. – District 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0.12	0	0	0	0	0	0	0	0	0	0	0
060/R17	Exchange St.	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.0031
061/R18	Willow Run Trunk	0.98	0.1832	0	0	0	0	0	0	0	0	0	0	3.88	7.6091
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	0.83	0.0207	0	0	0	0	0	0	1.02	0	1.63	0	9.62	0.16005
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0	0	0	0	0	0	0	0	0	0	0.29	0.0016
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	0	0	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0	0	0	0	0	0	0	0	0	0	0.21	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	1.1	0.0089	0	0	0	0	20.54	0.0052	14.73	0.0026	0	0	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	0	0	0	0	0.32	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0.77	0.0273
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.04	0.33	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	3.17
G2	1532 Peckham St.	0.03	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.25	0.40	3.17
G3	1668 Merriman Rd.	0.03	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.42	3.42
G4	1200 Firestone Pkwy.	0.05	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.38	3.08
G5	177 S. Broadway St.	0.04	0.33	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.01	0.08	0.38	3.00
G6	574 E. Cuyahoga Falls Ave.	0.03	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.38	2.92
G7	1436 Triplett Blvd.	0.05	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	2.58
G8	2100 Eastwood Ave.	0.04	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	3.00
G9	3487 S. Smith Rd.	0.02	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.25	0.36	3.00
G10	3061 Albrecht Ave.	0.05	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.83
G11	89 E. Howe Rd.	0.04	0.33	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.40	3.25
G12	1100 Graham Circle	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.01	0.08	0.36	3.00
G13	10 Ascot Pkwy.	0.04	0.33	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.38	3.17

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches



Listing of all CSO discharges and rain data, 2019

	Date:	2/7/2019		2/8/2019		2/10/2019		2/11/2019		2/12/2019		2/13/2019		2/20/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	5.03	0.5597	0	0	0	0	0	0	11.3	1.1494	0	0	1.38	0.0348
047/R04	Mill St.	2.21	0.5041	0	0	0	0	0	0	4.58	0.3724	0	0	2.95	0.1053
049/R06	Factory St.	7.23	0.0503	6.21	0.0432	0	0	0	0	0.65	0.0029	0	0	0	0
053/R10	Case Ave. – Newton St. District	2.15	0.2681	0	0	0	0	0	0	0.89	0.0285	0	0	0	0
054/R11	Hazel St. – District 4	7.91	5.3921	0.88	0	0	0	0	0	4.58	1.8075	0	0	0.08	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0	0	0	0	0	0	1.17	0.0337	0	0	0	0
060/R17	Exchange St.	2.06	1.8613	0	0	0	0	0	0	1.23	0.0094	0	0	0	0
061/R18	Willow Run Trunk	8.56	41.0485	3.84	0.0305	0	0	0	0	19.4	11.2461	2.35	1.5573	3.26	0.7191
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	1.22	0.0401	0	0	0	0	0	0	0.07	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0.19	0	0	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	11.26	1.8539	0	0	0	0	0	0	14.15	1.2345	0	0	5.23	0.1437
069/R26	Aqueduct St outlet E. of Hickory St.	2.59	0.3924	0	0	0	0	0	0	1.34	0.0287	0	0	0	0
070/R27	Uhler Ave. @ Memorial Parkway	1.62	0.3432	0	0	0	0	0	0	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	2.69	0.2055	0	0	0	0	0	0	2.54	0.0558	0	0	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	1.27	0.0280	0	0	0	0	0	0	0	0	0	0	0	0
075/R32	Carpenter Heights District	0.59	0.0063	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	0.78	0.0001	0	0	0	0	0	0	1.11	0.0049	0	0	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	1.82	0.0601	0	0	0	0	0	0	0	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	2.66	0.0630	0	0	0.15	0.2238	0.28	0.2277	2.98	0.5602	0	0	0.28	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	4.2	7.9860	0.3	0.0050	0	0	0	0	4.38	8.8200	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.96	3.83	0.00	0.00	0.00	0.00	0.30	2.25	1.10	7.92	0.00	0.00	0.64	4.50
G2	1532 Peckham St.	0.95	3.92	0.00	0.00	0.00	0.00	0.27	2.17	1.05	7.67	0.00	0.00	0.50	3.92
G3	1668 Merriman Rd.	0.96	3.75	0.00	0.00	0.00	0.00	0.28	2.17	1.07	7.75	0.00	0.00	0.51	4.00
G4	1200 Firestone Pkwy.	0.85	3.75	0.00	0.00	0.00	0.00	0.27	2.08	0.94	6.92	0.00	0.00	0.60	4.83
G5	177 S. Broadway St.	0.93	3.83	0.00	0.00	0.00	0.00	0.27	2.17	0.99	7.17	0.01	0.08	0.51	3.92
G6	574 E. Cuyahoga Falls Ave.	0.94	3.67	0.01	0.08	0.00	0.00	0.25	1.75	0.86	6.33	0.01	0.08	0.44	3.33
G7	1436 Triplett Blvd.	0.90	3.75	0.00	0.00	0.00	0.00	0.26	1.83	0.87	6.75	0.00	0.00	0.53	4.08
G8	2100 Eastwood Ave.	0.85	3.83	0.00	0.00	0.00	0.00	0.27	2.08	0.99	7.42	0.00	0.00	0.57	4.33
G9	3487 S. Smith Rd.	0.82	3.58	0.00	0.00	0.00	0.00	0.29	2.33	1.10	7.58	0.00	0.00	0.52	3.67
G10	3061 Albrecht Ave.	0.92	3.92	0.00	0.00	0.00	0.00	0.23	1.83	0.94	7.08	0.00	0.00	0.54	3.83
G11	89 E. Howe Rd.	1.00	3.83	0.00	0.00	0.00	0.00	0.27	2.08	1.00	7.25	0.00	0.00	0.54	4.08
G12	1100 Graham Circle	0.89	3.33	0.01	0.08	0.00	0.00	0.25	1.92	0.95	7.08	0.00	0.00	0.50	3.83
G13	10 Ascot Pkwy.	0.84	3.25	0.00	0.00	0.00	0.00	0.23	1.75	0.87	6.50	0.00	0.00	0.41	3.25

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	2/24/2019		3/9/2019		3/10/2019		3/14/2019		3/24/2019		3/29/2019		3/30/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0.47	0.0479	2.18	0.2177	0.4	0.061	1.51	0.6574	0	0	0	0	7.06	0.5647
047/R04	Mill St.	0.48	0.0207	2.21	0.2709	0	0	1.18	0.2445	0	0	0.23	0.0019	6.35	0.7656
049/R06	Factory St.	0	0	0	0	0	0	0.51	0.01	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	3.43	0.3891	0.41	0.0119	0.99	0.1613	0	0	0	0	4.34	0.2729
054/R11	Hazel St. – District 4	0	0	2.82	1.6649	0.2	0.0102	1.83	1.7108	0	0	0	0	5.74	4.7047
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0.89	0.2694	0.48	5.2863	1.68	0.8979	0	0	0	0	5.5	0.9091
060/R17	Exchange St.	0	0	0.54	0.0595	0	0	0.74	0.188	0	0	0	0	2.81	0.1755
061/R18	Willow Run Trunk	0.23	0	4.52	6.0427	1.77	0.203	1.43	0	0	0	0	0	7.82	21
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0.42	0.0035	0	0	0.08	0	0	0	0	0	0.12	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	3.85	0.0015	5.2	1.0344	4.78	0.1704	1.83	0.2327	0.83	0	3.32	0.0889	8.21	1.8569
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	1	0.0788	0	0	0.12	0.0008	0	0	0	0	5.13	0.2053
070/R27	Uhler Ave. @ Memorial Parkway	0	0	1.06	0.0671	0	0	0.3	0.0473	0	0	0	0	1.91	0.0961
071/R28	Memorial Parkway @ Hickory St.	0	0	0.95	0.0602	0.18	0.0015	0.12	0	0	0	0	0	5.01	0.204
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	1.66	0.0168	0.15	0	0	0	0	0	0	0	2.68	0
075/R32	Carpenter Heights District	0	0	0.26	0.0021	0	0	0.14	0.0042	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	0	0	0	0	3	0.0146	2.36	0.0083	0	0	3.4	0.0094	7.79	0.114
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	1.75	0.0638	0	0	0	0	0	0	0	0	3.33	0.03
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	2.45	0.0777	0	0	1.02	0.042	0	0	0	0	5.89	0.4159
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	1.6	6.207

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.17	0.83	0.76	3.50	0.08	0.67	0.60	1.75	0.00	0.00	0.39	3.25	1.42	8.00
G2	1532 Peckham St.	0.10	0.75	0.78	3.25	0.26	1.42	0.22	1.25	0.00	0.00	0.43	3.50	1.34	7.17
G3	1668 Merriman Rd.	0.07	0.58	0.82	3.33	0.44	1.83	0.13	0.92	0.02	0.17	0.47	3.92	1.31	7.33
G4	1200 Firestone Pkwy.	0.15	0.75	0.67	3.25	0.07	0.50	0.71	2.08	0.00	0.00	0.36	3.00	1.20	7.25
G5	177 S. Broadway St.	0.10	0.75	0.70	3.42	0.12	1.00	0.48	1.83	0.00	0.00	0.42	3.50	1.46	7.75
G6	574 E. Cuyahoga Falls Ave.	1.38	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G7	1436 Triplett Blvd.	0.14	0.67	0.59	3.25	0.16	0.67	0.66	1.92	0.00	0.00	0.40	3.25	1.42	7.17
G8	2100 Eastwood Ave.	0.12	0.75	0.71	3.42	0.10	0.58	0.66	1.92	0.00	0.00	0.47	3.92	1.41	7.75
G9	3487 S. Smith Rd.	0.09	0.67	0.73	3.08	0.51	2.33	0.10	0.67	0.02	0.17	0.50	4.08	1.08	6.83
G10	3061 Albrecht Ave.	0.18	0.83	0.70	3.42	0.22	0.75	0.69	2.58	0.00	0.00	0.44	3.58	1.28	7.08
G11	89 E. Howe Rd.	0.11	0.75	0.77	3.33	0.10	0.67	0.64	1.83	0.00	0.00	0.49	4.00	1.29	7.58
G12	1100 Graham Circle	0.07	0.58	0.69	3.08	0.55	1.67	0.17	1.08	0.02	0.17	0.54	4.42	1.25	7.00
G13	10 Ascot Pkwy.	0.07	0.50	0.62	3.08	0.40	2.00	0.12	1.00	0.02	0.17	0.50	4.17	1.20	7.17

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	3/31/2019		4/1/2019		4/12/2019		4/14/2019		4/15/2019		4/19/2019		4/20/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	3.43	0.3962	0	0	0	0	6.31	2.5252	0	0	1.05	0.222	0	0
047/R04	Mill St.	0	0	0	0	0	0	4.01	0.9217	0	0	0.95	0.0696	0	0
049/R06	Factory St.	0	0	0	0	0	0	0.91	0.0457	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	0	0	0	0	2.82	0.3606	0	0	0.56	0.0237	0.19	0.0095
054/R11	Hazel St. – District 4	2.76	1.1354	0	0	0	0	5.7	5.2546	0	0	0.88	0.4888	0.47	0.2495
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0.7	0.12	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	4.7	1.575	0.5	0.015	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0.04	0	0	0	0	0	3.56	4.7027	0	0	0	0	0	0
060/R17	Exchange St.	0	0	0	0	0	0	2.1	1.0967	0	0	0.2	0	0	0
061/R18	Willow Run Trunk	8.06	4	0.55	0.1118	0	0	7.55	15.4835	1.45	3.584	0.73	0	0.17	0.0011
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0	0	1.09	0.13	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0.85	0.5631	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0.36	0.0063	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	3.64	0.0682	0	0	0.73	0.0044	5.36	1.4375	0	0	1.6	0.1571	0.49	0.0311
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	1.39	0.3447	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0	0	0	0	1.67	0.0881	0	0	0	0	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0	0	1.12	0.035	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0.29	0.0651	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	10.7	0.0577	0	0	0	0	8.63	0.1051	0	0	3.37	0.0167	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	0	0	0.11	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0.09	0	0	0	0	0	3.5	0.1786	0	0	1.15	0.0651	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	4.7	10.193	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.13	1.08	0.19	1.17	0.19	1.33	1.35	5.00	0.15	1.25	0.35	2.67	0.07	0.58
G2	1532 Peckham St.	0.05	0.25	0.21	1.00	0.16	1.17	0.94	4.75	0.08	0.67	0.45	3.08	0.23	1.08
G3	1668 Merriman Rd.	0.14	1.00	0.20	1.00	0.15	1.17	0.98	4.58	0.09	0.75	0.46	3.25	0.31	1.00
G4	1200 Firestone Pkwy.	0.12	1.00	0.05	0.33	0.14	1.08	1.63	5.00	0.06	0.50	0.21	1.50	0.11	0.67
G5	177 S. Broadway St.	0.12	1.00	0.23	1.42	0.15	1.17	1.67	5.17	0.09	0.75	0.41	2.58	0.08	0.58
G6	574 E. Cuyahoga Falls Ave.	0.00	0.00	0.00	0.00	0.12	1.00	1.36	5.00	0.05	0.42	0.43	2.50	0.21	0.83
G7	1436 Triplett Blvd.	0.04	0.33	0.24	1.50	0.20	1.42	1.34	5.17	0.10	0.83	0.34	1.92	0.08	0.50
G8	2100 Eastwood Ave.	0.02	0.17	0.33	2.08	0.20	1.58	1.59	5.50	0.08	0.67	0.34	2.08	0.14	0.83
G9	3487 S. Smith Rd.	0.06	0.50	0.27	1.42	0.19	1.25	0.65	4.33	0.12	1.00	0.66	4.33	0.20	1.17
G10	3061 Albrecht Ave.	0.07	0.50	0.28	2.00	0.23	1.33	1.30	4.92	0.09	0.75	0.18	1.42	0.14	0.75
G11	89 E. Howe Rd.	0.01	0.08	0.31	1.92	0.18	1.33	1.59	5.17	0.08	0.67	0.34	2.17	0.15	0.92
G12	1100 Graham Circle	0.11	0.67	0.20	1.00	0.15	1.08	1.29	4.75	0.10	0.83	0.48	2.92	0.21	1.00
G13	10 Ascot Pkwy.	0.07	0.42	0.17	0.75	0.13	0.92	0.88	4.25	0.07	0.58	0.45	3.00	0.14	0.92

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	4/25/2019		4/26/2019		4/27/2019		4/28/2019		4/29/2019		4/30/2019		5/1/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	1.55	0.4528	0	0	0.43	0.0261	0.33	0.0566	0.39	0.0653	0.69	0.1219
047/R04	Mill St.	0	0	1.61	0.1241	0	0	0.63	0.0309	0.4	0.0527	0.46	0.0207	0.64	0.047
049/R06	Factory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	0.83	0.0783	0	0	0	0	0.17	0.0047	0.14	0	0.33	0.0166
054/R11	Hazel St. – District 4	0	0	1.71	1.1202	0	0	0.18	0.0051	0.45	0.2444	0.31	0.0967	0.6	0.387
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
060/R17	Exchange St.	0	0	0.51	0.0595	0	0	0	0	0.22	0.0157	0	0	0.26	0.0094
061/R18	Willow Run Trunk	0	0	2.62	3.6012	0	0	1.07	0	0.61	1.0224	0.44	0	0.53	1.0241
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0.14	0.001	0	0	0	0	0.12	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0.24	0.0467	0	0	0	0	0	0	0.05	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	0	0	3.74	0.7039	0.12	0.0015	2.78	0.1082	1.28	0.2579	0.68	0.0652	1.54	0.08
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0.61	0.046	0	0	0	0	0.31	0.0156	0	0	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0.22	0.0092	0	0	0	0	0.15	0.0061	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0.65	0.0407	0	0	0	0	0.4	0.0662	0	0	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0.16	0.0014	0	0	0	0	0.21	0.0042	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	0	0	5.96	0.0343	0	0	0	0	0	0	1.02	0.0026	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0.47	0.006	0	0	0	0	0.37	0.003	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	1.8	0.0735	0	0	0	0	0.63	0.0315	0.28	0.0021	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.22	1.75	0.89	3.25	0.14	1.08	0.35	2.83	0.11	0.58	0.15	0.75	0.26	1.08
G2	1532 Peckham St.	0.18	1.50	0.71	3.25	0.11	0.92	0.37	3.00	0.20	0.92	0.13	0.75	0.17	1.08
G3	1668 Merriman Rd.	0.17	1.42	0.64	3.50	0.09	0.75	0.39	3.17	0.35	1.33	0.11	0.67	0.14	0.83
G4	1200 Firestone Pkwy.	0.19	1.58	0.54	3.08	0.11	0.83	0.34	2.67	0.08	0.67	0.11	0.67	0.19	1.25
G5	177 S. Broadway St.	0.19	1.58	0.64	3.25	0.09	0.75	0.35	2.83	0.19	0.83	0.12	0.67	0.22	1.08
G6	574 E. Cuyahoga Falls Ave.	0.14	1.17	0.57	3.00	0.09	0.75	0.34	2.83	0.29	1.08	0.12	0.75	0.15	1.00
G7	1436 Triplett Blvd.	0.16	1.33	0.60	3.50	0.11	0.92	0.33	2.75	0.09	0.58	0.12	0.75	0.18	1.25
G8	2100 Eastwood Ave.	0.23	1.83	0.67	3.67	0.09	0.75	0.33	2.67	0.18	1.00	0.11	0.67	0.24	1.17
G9	3487 S. Smith Rd.	0.23	1.75	0.73	4.08	0.11	0.92	0.40	3.33	0.26	1.33	0.10	0.67	0.17	1.17
G10	3061 Albrecht Ave.	0.20	1.67	0.75	3.83	0.10	0.83	0.33	2.75	0.11	0.67	0.13	0.75	0.20	1.42
G11	89 E. Howe Rd.	0.22	1.67	0.78	3.67	0.08	0.67	0.38	3.17	0.29	1.33	0.11	0.67	0.19	1.00
G12	1100 Graham Circle	0.17	1.42	0.59	3.33	0.08	0.67	0.37	3.00	0.24	1.25	0.11	0.58	0.14	0.83
G13	10 Ascot Pkwy.	0.15	1.25	0.54	3.25	0.07	0.58	0.33	2.75	0.22	1.17	0.10	0.67	0.17	1.00

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	5/2/2019		5/3/2019		5/6/2019		5/9/2019		5/10/2019		5/12/2019		5/18/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0.63	0.0914	0.26	0.0174	0	0	0	0	0.96	0.1829	0.11	0	0.27	0.0261
047/R04	Mill St.	0.88	0.0376	0	0	0	0	0.82	0.1035	0.74	0.0357	0.2	0.0056	0.52	0.0282
049/R06	Factory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0.1	0	0	0	0	0	0.28	0.0356	0.27	0.0047	0	0	0	0
054/R11	Hazel St. – District 4	0.37	0.112	0	0	0	0	0.52	0.443	0.79	0.331	0	0	0	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
060/R17	Exchange St.	0.31	0.0063	0	0	0.05	0.0376	0.54	0.1285	0	0	0	0	0.22	0.0031
061/R18	Willow Run Trunk	1.12	0	0	0	0	0	3.7	5.2214	3.06	0.6946	0	0	0	0
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0	0	0.18	0.003	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	0	0	0	0	0	0	1.42	0.3527	1.5	0.0652	1.01	0.0207	0.5	0.0222
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0	0	0	0	0.33	0.0287	0	0	0	0	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	0.3	0.0168	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0	0	0	0	0.35	0.022	0	0	0	0	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0	0	0.2	0.007	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	3.84	0.0354	0	0	0	0	1.18	0.0026	2.06	0.0026	1.96	0	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.32	2.25	0.24	1.67	0.00	0.00	0.38	1.25	0.26	1.92	0.40	3.17	0.25	0.92
G2	1532 Peckham St.	0.34	2.42	0.16	1.33	0.00	0.00	0.53	1.42	0.18	1.42	0.40	3.08	0.13	0.58
G3	1668 Merriman Rd.	0.36	2.58	0.14	1.17	0.00	0.00	0.97	1.67	0.15	1.25	0.39	3.08	0.08	0.58
G4	1200 Firestone Pkwy.	0.27	1.83	0.22	1.83	0.00	0.00	0.30	0.92	0.30	1.92	0.33	2.67	0.17	0.75
G5	177 S. Broadway St.	0.30	2.08	0.17	1.42	0.00	0.00	0.51	1.17	0.23	1.75	0.37	2.75	0.16	0.67
G6	574 E. Cuyahoga Falls Ave.	0.31	2.33	0.13	1.08	0.00	0.00	0.32	1.00	0.18	1.42	0.34	2.67	0.07	0.50
G7	1436 Triplett Blvd.	0.21	1.42	0.25	1.83	0.00	0.00	0.17	0.83	0.33	2.00	0.40	3.17	0.12	0.50
G8	2100 Eastwood Ave.	0.26	1.67	0.24	1.75	0.00	0.00	0.21	0.75	0.33	2.17	0.37	2.83	0.13	0.67
G9	3487 S. Smith Rd.	0.31	2.50	0.11	0.92	0.00	0.00	0.86	1.83	0.10	0.83	0.39	3.08	0.10	0.75
G10	3061 Albrecht Ave.	0.17	1.33	0.25	1.50	0.00	0.00	0.23	0.67	0.30	2.17	0.41	3.08	0.12	0.58
G11	89 E. Howe Rd.	0.31	2.33	0.16	1.33	0.00	0.00	0.57	1.67	0.26	2.17	0.34	2.75	0.08	0.67
G12	1100 Graham Circle	0.37	2.42	0.12	1.00	0.00	0.00	0.74	1.33	0.19	1.42	0.36	2.75	0.00	0.00
G13	10 Ascot Pkwy.	0.34	2.42	0.12	1.00	0.00	0.00	0.71	1.58	0.15	1.17	0.35	2.92	0.08	0.67

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	5/25/2019		5/26/2019		5/28/2019		5/30/2019		6/1/2019		6/2/2019		6/4/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0.31	0.0697	0.56	0.1524	0.7	0.3251	0.6	0.3309	3.11	0.4774	3.86	1.1973	0	0
047/R04	Mill St.	0.36	0.0903	0.51	0.079	0.97	0.3073	0.67	0.2709	1.51	0.2408	3.48	0.4966	0	0
049/R06	Factory St.	0	0	0.45	0.0105	0.35	0.002	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0.21	0.0308	0.37	0.019	0.17	0.0668	0.38	0.0522	0.6	0.038	0.95	0.0949	0	0
054/R11	Hazel St. – District 4	0.49	0.4939	0.63	0.3615	0.93	0.8006	0.6	0.4888	1.25	0.8554	3.71	2.4236	0	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0	0	2.017	1.4302	0.57	0.3592	0.45	0.0337	2.61	0.7071	0	0
060/R17	Exchange St.	0.32	0.1692	0.31	0.0125	0.17	0.0151	0.46	0.1065	0.77	0.0909	1.01	0.2068	0	0
061/R18	Willow Run Trunk	0.5	1.7706	0.56	1.0847	1.31	2.9315	0.83	1.4829	2.16	2.8425	5.03	11.6123	0	0
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	1.13	0.0116	0.16	0.005	0.13	0.001	0.46	0.037	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0.16	0.0029	0.3	0.0006	0.34	0.0046	0	0
067/R24	West Market St Outlet @ Ravine St.	0.6	0.0193	0.8	0.037	1.71	0.7219	1.56	0.5528	2.68	0.8625	3.93	1.2522	0	0
069/R26	Aqueduct St outlet E. of Hickory St.	0.09	0.0016	0	0	1.41	0.2149	0.57	0.0657	0.74	0.0911	5.5	1.5431	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0.2	0.02023	0	0	0.73	0.0549	0.61	0.0313	0	0
071/R28	Memorial Parkway @ Hickory St.	0.17	0.0103	0	0	0	0	0.39	0.0191	0.78	0.0484	2.23	0.0734	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0.12	0	0	0	0.15	0.0103	0	0	0.4	0.0198	0.37	0.0168	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0.19	0.0189	0.15	0.1386
076/R33	North Side Interceptor @ Main St.	0	0	0.14	0	2.1	0.0282	2.01	0.0088	4.07	0.5204	5.31	0.1077	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0.13	0.001	0	0	0.76	0.0031	0.3	0	0	0	0.92	0.001	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	0	0	0.48	0.1121	0.88	0.0441	0	0	3.53	0.2941	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.29	0.42	0.23	1.00	0.49	1.25	0.48	0.83	0.32	0.92	0.89	3.25	0.00	0.00
G2	1532 Peckham St.	0.08	0.17	0.15	0.67	0.46	1.33	0.39	1.17	0.75	1.58	1.00	3.25	0.00	0.00
G3	1668 Merriman Rd.	0.22	0.17	0.24	1.08	0.63	2.17	0.23	1.33	0.35	1.08	0.85	3.17	0.00	0.00
G4	1200 Firestone Pkwy.	0.24	0.50	0.16	0.67	0.52	1.17	0.53	0.92	0.23	0.92	0.86	3.50	0.00	0.00
G5	177 S. Broadway St.	0.30	0.33	0.19	0.67	0.61	1.42	0.41	1.00	0.58	1.50	0.87	3.33	0.00	0.00
G6	574 E. Cuyahoga Falls Ave.	0.06	0.08	0.12	0.50	0.49	1.92	0.38	1.25	0.99	1.42	0.86	3.08	0.00	0.00
G7	1436 Triplett Blvd.	0.35	0.67	0.24	0.67	0.74	1.42	0.60	0.83	0.38	1.08	1.01	3.00	0.00	0.00
G8	2100 Eastwood Ave.	0.31	0.42	0.20	0.75	0.51	1.92	0.26	0.83	0.47	1.42	0.78	2.92	0.00	0.00
G9	3487 S. Smith Rd.	0.00	0.00	0.13	0.58	0.37	1.75	0.28	0.67	0.15	0.83	0.81	3.33	0.00	0.00
G10	3061 Albrecht Ave.	0.28	0.67	0.31	0.75	0.68	1.42	0.45	0.83	0.31	0.83	1.01	3.17	0.00	0.00
G11	89 E. Howe Rd.	0.02	0.17	0.01	0.08	0.01	0.08	0.00	0.00	0.02	0.17	0.02	0.17	0.05	0.42
G12	1100 Graham Circle	0.14	0.25	0.39	1.17	0.72	2.00	0.15	1.25	0.01	0.08	0.79	6.58	0.04	0.33
G13	10 Ascot Pkwy.	0.00	0.00	0.40	1.08	0.67	1.83	0.42	0.75	0.33	1.00	0.74	3.17	0.05	0.25

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	6/5/2019		6/6/2019		6/10/2019		6/12/2019		6/13/2019		6/14/2019		6/15/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	2.02	0.4702	0	0	0.9	0.0784	0	0	5.9	0.6583	0.22	0.0131	1.9	0.4524
047/R04	Mill St.	1.76	0.3085	0	0	1.06	0.0621	0.23	0.0263	3.46	0.538	0.02	0	1.03	0.2125
049/R06	Factory St.	0.48	0.0076	0	0	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0.8	0.0854	0	0	0.1	0	0	0	0.68	0.0475	0.2	0.0047	0.79	0.0973
054/R11	Hazel St. – District 4	1.65	1.2067	0	0	0.32	0.1171	0.03	0.0051	3.08	1.6141	0.37	0.112	1.13	1.0743
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	1.05	0.5051	0	0	0	0	0	0	1.41	0.2357	0	0	0.88	0.4153
060/R17	Exchange St.	1.03	0.2319	0	0	0	0	0	0	0.88	0.1159	0	0	0.83	0.1222
061/R18	Willow Run Trunk	3.12	5.9816	0	0	0.54	0	0	0	4.84	6.2563	0.85	0.0102	1.51	6.178
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0.83	0.035	0	0	0	0	0	0	0.28	0.009	0	0	0.55	0.008
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0.46	0.0086	0	0	0	0	0	0	0.1	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	5.06	1.5471	0	0	2.37	0.1541	0.14	0.0222	6.06	1.1011	0.45	0.0089	2.29	0.6565
069/R26	Aqueduct St outlet E. of Hickory St.	1.74	0.335	0	0	0.11	0.0008	0	0	0.97	0.0616	0	0	0.75	0.0649
070/R27	Uhler Ave. @ Memorial Parkway	1.09	0.0526	0	0	0	0	0	0	0.5	0.0175	0	0	0.63	0.0275
071/R28	Memorial Parkway @ Hickory St.	1.94	0.0778	0	0	0	0	0	0	0.95	0.0426	0	0	0.85	0.0352
072/R29	Uhler Ave. – Carpenter St. Outlet	0.99	0.0406	0	0	0	0	0	0	0.3	0.0014	0	0	0.22	0.0028
075/R32	Carpenter Heights District	0.7	0.0856	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	8.5	0.4082	7.8	0.3746	3	0.0453	0	0	11.6	0.1667	0	0	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0.48	0.002	0	0	0.04	0.0514	0	0	0	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	3.11	0.1638	0	0	0.52	0.0126	0	0	3.44	0.1239	0	0	1.1	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.67	2.00	0.01	0.08	0.36	1.92	0.16	0.83	1.26	5.58	0.09	0.50	0.35	2.25
G2	1532 Peckham St.	1.29	2.50	0.00	0.00	0.34	1.83	0.14	0.92	0.97	4.92	0.04	0.33	0.53	2.42
G3	1668 Merriman Rd.	1.86	3.00	0.04	0.17	0.45	2.33	0.12	0.75	1.38	4.83	0.09	0.42	0.94	3.00
G4	1200 Firestone Pkwy.	0.76	1.83	0.00	0.00	0.33	1.58	0.13	0.67	0.87	5.17	0.03	0.25	0.35	2.00
G5	177 S. Broadway St.	0.89	2.25	0.01	0.08	0.34	1.83	0.10	0.50	1.25	5.08	0.03	0.25	0.61	2.25
G6	574 E. Cuyahoga Falls Ave.	1.39	2.83	0.02	0.17	0.34	2.00	0.08	0.50	1.03	4.75	0.08	0.50	0.61	2.42
G7	1436 Triplett Blvd.	0.82	2.17	0.01	0.08	0.30	1.67	0.11	0.58	0.98	5.33	0.07	0.50	0.43	1.92
G8	2100 Eastwood Ave.	0.66	2.50	0.00	0.00	0.41	2.33	0.09	0.50	0.93	5.33	0.09	0.58	0.58	2.08
G9	3487 S. Smith Rd.	1.45	2.83	0.00	0.00	0.63	2.33	0.12	0.75	0.87	5.00	0.04	0.33	0.76	3.08
G10	3061 Albrecht Ave.	0.79	2.17	0.01	0.08	0.43	2.08	0.10	0.58	1.19	5.08	0.09	0.67	0.26	1.67
G11	89 E. Howe Rd.	0.01	0.08	0.01	0.08	0.00	0.00	0.02	0.17	0.00	0.00	0.00	0.00	0.00	0.00
G12	1100 Graham Circle	0.07	0.58	0.21	1.75	0.04	0.33	0.08	0.67	0.16	1.33	0.30	2.50	0.41	3.42
G13	10 Ascot Pkwy.	1.71	3.00	0.04	0.33	0.44	2.42	0.08	0.58	1.36	4.92	0.08	0.58	0.66	2.58

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	6/16/2019		6/17/2019		6/18/2019		6/20/2019		6/21/2019		6/24/2019		6/25/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	9.63	4.4104	6.16	2.8909	5.98	1.994	2.98	0.788	1.9	0.1638	2.5	1.5021	0	0
047/R04	Mill St.	4.85	1.1399	2.29	1.0176	0.53	0.0245	1.88	0.1354	0	0	1.82	0.3423	0	0
049/R06	Factory St.	0	0	0	0	0	0	1.5	0.0779	0	0	1.29	0.0363	0	0
053/R10	Case Ave. – Newton St. District	8.84	3.2505	5.56	1.5327	0.91	0.0925	1.03	0.038	0	0	1.6	0.3084	0	0
054/R11	Hazel St. – District 4	14.15	23.5897	7.46	12.4848	2.27	1.5173	1.82	0.9114	0	0	2.89	3.3503	0	0
055/R12	Camp Brook Storage Basin	0.3	0.94	0.25	0.52	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	1.8	1.399	4.1	1.94	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0.9	0.3873	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	4.56	3.0753	2.45	2.2447	0.96	0.2245	1.49	0.303	0	0	1.74	1.403	0	0
060/R17	Exchange St.	3.22	2.3658	1.9	1.6827	0	0	0.52	0.0157	0	0	1.59	0.6361	0	0
061/R18	Willow Run Trunk	18.89	32.7616	18.2	20.2032	21.14	1.8311	10.06	1.7095	0	0	3.32	11.7446	1.97	2.6122
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	1.72	0.182	1.26	0.101	0	0	0.07	0	0	0	0.79	0.019	0	0
065/R22	Howard Street Storage Basin	1.7	3.4994	1.25	3.044	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0.83	0.0403	0.62	0.0017	0	0	0.12	0	0	0	0.14	0.0006	0	0
067/R24	West Market St Outlet @ Ravine St.	8.23	2.9905	3.91	1.602	0.58	0.0074	2.52	0.3853	0	0	2.41	1.2256	0	0
069/R26	Aqueduct St outlet E. of Hickory St.	5.27	0.8259	2.44	0.257	0	0	0.45	0.0222	0	0	1.41	0.1757	0	0
070/R27	Uhler Ave. @ Memorial Parkway	1.28	0.1289	0.96	0.0481	0	0	0.2	0.0053	0	0	1.02	0.0458	0	0
071/R28	Memorial Parkway @ Hickory St.	5.04	0.2305	2.29	0.1292	0	0	0.48	0.0235	0	0	1.17	0.0793	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0.97	0.0294	0.42	0.0014	0	0	0.09	0	0	0	0.48	0.0098	0	0
075/R32	Carpenter Heights District	0.28	0.0063	0	0	0	0	0	0	0	0	0.82	0.0189	0	0
076/R33	North Side Interceptor @ Main St.	6.6	0.3251	0	0	2.06	0.0042	5.59	0.0354	0	0	0	0	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	6.23	0.2836	2.43	0.1386	0	0	0.97	0.0504	0	0	0	0	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	7.2	3.4	3.8	21.36	0.6	3.35	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	14.8	51.1592	8.1	30.8929	2.5	1.181	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	2.48	5.25	1.70	2.67	0.94	3.50	0.72	2.92	0.04	0.33	0.98	2.42	0.00	0.00
G2	1532 Peckham St.	1.84	5.75	0.90	2.50	0.14	1.17	0.68	3.00	0.04	0.33	0.85	2.67	0.01	0.08
G3	1668 Merriman Rd.	1.48	5.50	0.47	2.25	0.09	0.75	0.60	3.50	0.05	0.42	0.79	2.67	0.00	0.00
G4	1200 Firestone Pkwy.	2.25	5.17	1.55	2.83	0.88	3.17	0.77	3.25	0.03	0.25	0.88	2.25	0.01	0.08
G5	177 S. Broadway St.	1.83	4.92	1.05	2.42	0.30	2.17	0.57	3.17	0.05	0.42	0.92	2.50	0.00	0.00
G6	574 E. Cuyahoga Falls Ave.	1.41	5.00	0.61	2.42	0.14	1.08	0.51	3.17	0.06	0.50	0.66	2.25	0.02	0.17
G7	1436 Triplett Blvd.	2.46	4.75	1.56	2.75	0.76	3.17	1.09	3.58	0.05	0.42	0.84	2.00	0.00	0.00
G8	2100 Eastwood Ave.	1.92	5.25	0.82	2.50	0.76	3.08	0.58	3.00	0.05	0.42	1.11	2.33	0.00	0.00
G9	3487 S. Smith Rd.	1.65	5.42	0.39	2.17	0.06	0.50	1.14	4.25	0.05	0.42	0.75	2.25	0.01	0.08
G10	3061 Albrecht Ave.	2.04	4.33	1.21	2.75	0.56	2.75	0.62	3.17	0.05	0.42	0.50	1.92	0.00	0.00
G11	89 E. Howe Rd.	0.00	0.00	0.01	0.08	0.00	0.00	0.01	0.08	0.13	1.08	0.03	0.25	0.04	0.33
G12	1100 Graham Circle	1.32	11.00	0.53	4.42	0.16	1.33	0.63	5.25	0.18	1.50	0.63	2.50	0.00	0.00
G13	10 Ascot Pkwy.	1.35	5.33	0.25	1.92	0.06	0.50	1.10	4.00	0.05	0.42	0.64	2.17	0.01	0.08

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches



Listing of all CSO discharges and rain data, 2019

	Date:	6/27/2019		6/28/2019		6/29/2019		7/5/2019		7/6/2019		7/7/2019		7/8/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	0	0	0	0	0.64	0.3527	0	0	1.07	0.3657	0	0
047/R04	Mill St.	0	0	0.38	0.015	0.13	0.0038	0.7	0.1618	0	0	0.98	0.1129	0.16	0.1524
049/R06	Factory St.	0	0	0	0	0	0	0.4	0.0041	0	0	0.25	0.0088	0	0
053/R10	Case Ave. – Newton St. District	0	0	0	0	0	0	0	0	0.17	0.0142	0.41	0.0807	0	0
054/R11	Hazel St. – District 4	0	0	0	0	0	0	0.59	0.3564	0.47	0.4532	0.76	0.8096	0	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0	0	0	0	0.7	0.4377	0	0	0.64	0.1684	0	0
060/R17	Exchange St.	0	0	0.09	0	0.04	0	0.47	0.0909	0	0	0.44	0.1191	0	0
061/R18	Willow Run Trunk	0	0	0.8	0	0.54	0	0	0	0	0	0.67	2.4262	0.39	2.9908
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0	0	0	0	0	0	0.45	0.052	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0	0	0	0	0.48	0.0697	0	0
067/R24	West Market St Outlet @ Ravine St.	0.78	0.0489	1.18	0.1971	1.3	0.1289	0.9	0.1209	0	0	0.83	0.6461	0	0
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0.49	0.0172	0.19	0.0049	0.05	0	0	0	0.44	0.1683	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0.12	0.0015	0.36	0.0107	0.13	0.0038	0	0	0	0	0.59	0.0778	0	0
071/R28	Memorial Parkway @ Hickory St.	0.33	0.0132	0.53	0.0308	0.25	0.0161	0.34	0.0308	0	0	0.33	0.0147	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0.09	0	0.22	0.0028	0.06	0	0	0	0.14	0.0042	0.4	0.0084	0	0
075/R32	Carpenter Heights District	0.51	0.0021	0.09	0	0.19	0.0021	0	0	0.06	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	1.99	0.0427	0	0	2	0.0229	1.99	0.0406	0	0	1.34	0.0099	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0.97	0.063	0.84	0.0378	1.1	0	0	0	1	0.0837	0.79	0.0399	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.00	0.00	0.36	0.58	0.04	0.33	0.05	0.42	0.13	0.92	0.00	0.00	0.00	0.00
G2	1532 Peckham St.	0.02	0.17	0.38	1.17	0.14	0.42	0.62	0.58	0.00	0.00	0.00	0.00	0.00	0.00
G3	1668 Merriman Rd.	0.72	0.58	0.01	0.08	0.00	0.00	0.22	0.75	0.77	0.83	0.00	0.00	0.00	0.00
G4	1200 Firestone Pkwy.	0.01	0.08	0.17	0.58	0.03	0.25	0.13	0.58	0.02	0.17	0.00	0.00	0.00	0.00
G5	177 S. Broadway St.	0.04	0.25	0.16	0.83	0.12	0.58	0.11	0.50	0.04	0.25	0.45	0.75	0.00	0.00
G6	574 E. Cuyahoga Falls Ave.	0.39	1.25	0.28	0.67	0.29	0.67	0.43	0.58	0.35	0.58	0.26	0.67	0.00	0.00
G7	1436 Triplett Blvd.	0.00	0.00	0.08	0.33	0.04	0.25	0.60	0.67	0.10	0.25	0.90	1.00	0.00	0.00
G8	2100 Eastwood Ave.	0.03	0.25	0.08	0.50	0.13	0.33	0.54	1.00	0.35	0.42	0.40	0.83	0.00	0.00
G9	3487 S. Smith Rd.	0.05	0.25	0.22	0.83	0.40	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G10	3061 Albrecht Ave.	0.00	0.00	0.03	0.25	0.03	0.17	0.09	0.50	0.58	1.00	0.63	1.17	0.00	0.00
G11	89 E. Howe Rd.	0.03	0.25	0.02	0.17	0.02	0.17	0.85	1.00	0.40	0.67	0.07	0.50	0.00	0.00
G12	1100 Graham Circle	0.21	1.25	0.01	0.08	0.10	0.83	1.12	1.00	0.26	0.75	0.00	0.00	0.00	0.00
G13	10 Ascot Pkwy.	0.13	0.25	0.01	0.08	0.12	0.50	1.50	1.08	0.17	0.50	0.00	0.00	0.00	0.00

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	7/10/2019		7/11/2019		7/15/2019		7/16/2019		7/17/2019		7/20/2019		7/21/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	0.5	0.1216	0.39	0.1567	2.27	0.9448	3.16	1.1102	0	0	0	0
047/R04	Mill St.	0	0	0.53	0.0508	0.12	0.0038	2.26	0.2464	3.05	0.4251	0.65	0.0715	1.25	0.1072
049/R06	Factory St.	0	0	0	0	0.11	0.0006	0	0	0.22	0.0023	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	0.33	0.019	0.27	0.0427	0.79	0.1447	1.46	0.1376	0.17	0.0047	0.27	0.0451
054/R11	Hazel St. – District 4	0	0	0.56	0.1731	0.48	0.4073	2.35	1.9145	3.82	2.8462	0.53	0.3259	0.84	0.443
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	1.8	1.124	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0.37	1.4927	0.51	0.1908	0.45	0.1796	1.5	0.2077	2.48	0.7295	0.35	0	0.14	0
060/R17	Exchange St.	0	0	0.27	0.0533	0.06	0	1.25	0.1692	1.68	0.329	0.36	0.0721	0.33	0.0501
061/R18	Willow Run Trunk	0	0	0.58	1.6938	0.4	0	2.87	7.2939	6.41	11.6123	0.79	0	1.43	0
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0.1	0.005	0	0	0.3	0.012	0.87	0.034	0.14	0.003	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0.7	2.3047	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0.39	0.0035	0.44	0.0397	0.17	0	0	0
067/R24	West Market St Outlet @ Ravine St.	0	0	1.17	0.126	0.49	0.0237	2.63	1.2315	7.3	2.1355	1.43	0.6046	1.53	0.0993
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0.24	0.0049	0	0	1.14	0.1461	2.38	0.4589	0.51	0.087	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0.36	0.0206	0	0	0.84	0.0671	1.46	0.0694	0.44	0.0229	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0.3	0.0088	0	0	1.25	0.0631	1.87	0.0866	0.48	0.0308	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0.25	0.0028	0	0	0.58	0.0182	0.95	0.0238	0.25	0	0	0
075/R32	Carpenter Heights District	0	0	0.38	0.0567	0	0	0.18	0.0168	0.36	0.0147	0.13	0.0021	0	0
076/R33	North Side Interceptor @ Main St.	0	0	3.52	0.0838	0	0	3.49	0.0562	8.94	0.1192	1.72	0.0109	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0.11	0	0	0	0.3	0.003	0.16	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	1	0.0691	0	0	0	0	3.47	0.126	0.69	0.0273	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.00	0.00	0.97	0.67	0.44	0.33	0.72	2.08	1.36	4.08	0.01	0.08	0.39	2.17
G2	1532 Peckham St.	0.00	0.00	0.24	0.42	0.10	0.33	1.08	1.92	1.53	3.83	0.44	0.58	0.60	2.17
G3	1668 Merriman Rd.	0.00	0.00	0.99	0.58	0.00	0.00	1.03	2.08	0.70	2.50	0.44	0.50	0.17	1.17
G4	1200 Firestone Pkwy.	0.00	0.00	0.68	0.58	0.23	0.33	0.87	2.00	1.34	3.25	0.01	0.08	0.28	1.92
G5	177 S. Broadway St.	0.00	0.00	0.33	0.50	0.04	0.25	0.78	2.08	1.07	3.33	0.43	0.58	0.47	2.00
G6	574 E. Cuyahoga Falls Ave.	0.00	0.00	0.62	0.67	0.01	0.08	0.68	1.67	1.00	3.08	0.26	0.50	0.14	0.83
G7	1436 Triplett Blvd.	0.00	0.00	0.50	0.58	0.35	0.33	0.98	1.83	1.10	3.17	0.00	0.00	0.24	1.67
G8	2100 Eastwood Ave.	0.00	0.00	0.22	0.58	0.21	0.33	1.24	2.00	1.64	3.33	0.14	0.42	0.26	1.33
G9	3487 S. Smith Rd.	0.00	0.00	0.15	0.33	0.00	0.00	0.62	1.83	0.68	2.67	0.45	0.58	0.42	1.92
G10	3061 Albrecht Ave.	0.00	0.00	0.27	0.92	0.29	0.33	1.17	1.92	1.26	3.17	0.00	0.00	0.44	1.50
G11	89 E. Howe Rd.	0.00	0.00	0.54	1.58	0.00	0.00	0.79	3.17	0.63	5.25	0.13	1.08	0.04	0.33
G12	1100 Graham Circle	0.00	0.00	0.59	0.58	0.00	0.00	0.72	2.08	0.72	2.83	0.49	0.58	0.13	1.08
G13	10 Ascot Pkwy.	0.00	0.00	0.89	0.58	0.00	0.00	0.68	2.08	0.55	2.08	0.55	0.58	0.16	1.17

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	7/22/2019		7/30/2019		8/6/2019		8/7/2019		8/13/2019		8/15/2019		8/18/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	1.82	0.431	0	0	1.67	0.3222	0	0	0.18	0.0131	0	0	0	0
047/R04	Mill St.	2.03	0.2163	0	0	3.9	0.3047	0.15	0.0019	0.42	0.0489	0.32	0.0207	0.53	0.0771
049/R06	Factory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0.68	0.0712	0	0	0.51	0.0593	0.08	0	0.2	0.0142	0	0	0.3	0.0522
054/R11	Hazel St. – District 4	1.79	1.1507	0	0	2.25	1.4562	0.56	0.6212	0.4	0.2139	0	0	0.53	0.4735
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	1.29	0.3143	0	0	1.3	0.1796	0	0	0	0	0	0	0.55	0.2245
060/R17	Exchange St.	0.75	0.1128	0	0	1.55	0.1849	0	0	0.15	0.0063	0	0	0.33	0.1598
061/R18	Willow Run Trunk	4	2.1858	0	0	3.57	3.8983	0	0	0.17	0	0.33	0	0.38	0.5951
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0.42	0.008	0.11	0.001	0	0	0	0	0.08	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	2.18	0.0315	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	3.52	0.5276	0.51	0.0059	7.02	1.3515	0.9	0.0059	0.79	0.0222	1.3	0.0637	0.67	0.0608
069/R26	Aqueduct St outlet E. of Hickory St.	0.74	0.0287	0	0	0.91	0.1067	0	0	0	0	0	0	0.07	0
070/R27	Uhler Ave. @ Memorial Parkway	0.4	0.0114	0	0	1.28	0.0786	0.56	0.0526	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0.99	0.0382	0.21	0.0117	0.72	0.0294	0.16	0.0044	0	0	0.2	0.0073	0.13	0.0015
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0.45	1.4009	0.39	0.0392	0	0	0	0	0	0
075/R32	Carpenter Heights District	0.05	0	0.07	0	0.13	0.0063	0.6	0.0819	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	4.78	0.0437	1.08	0.0047	6.5	0.0682	3.42	0.1192	1.1	0.0062	1.22	0.0062	0.76	0.0021
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0.5	0.003	1.96	0.0135	5.11	0.0013	0	0	0.23	0.001	5.68	0.0321
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	1.69	0.0819	0	0	2.55	0.1092	0	0	0	0	0.18	0.0042	0.27	0.021
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.76	2.83	0.04	0.33	0.96	2.50	0.02	0.17	0.09	0.75	0.11	0.17	0.26	0.50
G2	1532 Peckham St.	0.49	2.58	0.16	0.58	0.86	2.83	0.01	0.08	0.15	1.17	0.41	0.67	0.05	0.42
G3	1668 Merriman Rd.	0.64	2.42	0.29	1.08	0.67	3.17	0.40	0.67	0.20	1.17	0.27	0.83	0.16	0.33
G4	1200 Firestone Pkwy.	0.78	2.75	0.03	0.25	0.61	2.67	0.01	0.08	0.15	0.83	0.01	0.08	0.52	0.58
G5	177 S. Broadway St.	0.68	2.75	0.03	0.25	1.21	3.17	0.03	0.25	0.23	1.08	0.12	0.50	0.29	0.50
G6	574 E. Cuyahoga Falls Ave.	0.48	2.50	0.14	0.67	0.88	2.58	0.82	1.08	0.13	0.83	0.16	0.58	0.10	0.17
G7	1436 Triplett Blvd.	0.60	2.67	0.03	0.25	0.58	2.33	0.36	0.25	0.12	0.75	0.02	0.17	0.51	0.42
G8	2100 Eastwood Ave.	0.66	2.83	0.02	0.17	1.05	3.33	0.37	1.00	0.23	0.92	0.02	0.17	0.55	0.33
G9	3487 S. Smith Rd.	0.38	2.33	0.46	1.25	0.62	2.50	0.58	0.83	0.26	1.33	0.52	0.83	0.20	0.42
G10	3061 Albrecht Ave.	0.45	2.33	0.02	0.17	0.50	2.58	0.14	0.50	0.12	0.67	0.00	0.00	0.37	0.58
G11	89 E. Howe Rd.	0.19	1.58	0.16	1.33	0.08	0.67	0.15	1.25	0.02	0.17	0.02	0.17	0.12	0.17
G12	1100 Graham Circle	0.57	2.25	0.50	1.33	0.78	3.50	0.11	0.50	0.25	1.67	0.05	0.33	0.26	0.83
G13	10 Ascot Pkwy.	0.53	2.08	0.44	1.42	0.86	3.33	0.29	0.42	0.30	1.75	0.08	0.50	0.25	0.42

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	8/19/2019		8/20/2019		8/21/2019		8/22/2019		9/1/2019		9/11/2019		9/12/2019	
<b>Overflows</b>															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0.3	0.065	0.5	0.2968	0	0	0	0	0	0	0.74	0.1393	0.41	0.1524
047/R04	Mill St.	0.68	0.0489	0.59	0.0734	0.09	0	0.43	0.0075	0.74	0.0207	0.52	0.0395	0.46	0.0395
049/R06	Factory St.	0	0	0	0	0	0	0	0	0	0	0.1	0.0094	0	0
053/R10	Case Ave. – Newton St. District	0.23	0.019	0.37	0.0569	0.18	0.0166	0	0	0	0	0.2	0.0166	0.3	0.0783
054/R11	Hazel St. – District 4	0.89	0.5194	0.58	0.4786	0.64	0.9674	0	0	0	0	0.38	0.1833	0.6	0.6772
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0.24	0	0.56	0.1908	0	0	0	0	0	0	0.5	0.1684	0.3	0.0449
060/R17	Exchange St.	0.08	0	0.33	0.0595	0.11	0	0	0	0	0	0.18	0.0094	0.28	0.0533
061/R18	Willow Run Trunk	0.59	0	0.64	1.5869	0	0	0	0	0	0	0.28	0.0915	0.43	1.2891
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0	0	0	0	0	0	0.37	0.001	0.26	0.02
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0	0	0	0	0	0	0.21	0.0081
067/R24	West Market St Outlet @ Ravine St.	0.93	0.0563	1.02	0.2919	0	0	1.02	0.0652	1.09	0.037	0.66	0.0785	1.34	0.326
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0.27	0.0287	0	0	0	0	0	0	0.15	0.0057	0.24	0.0681
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	0	0	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0.3	0.0132	0	0	0	0	0	0	0.2	0.0103	0.27	0.0117
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	1.05	0.0008	0	0	0	0	0	0	1.02	0	0.84	0.001	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	1.57	0.017	0.54	0.006	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	0	0	0	0	0	0	0	0	0.18	0.0021	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.30	1.08	0.43	0.75	0.00	0.00	0.05	0.42	0.22	1.58	0.57	0.58	0.03	0.17
G2	1532 Peckham St.	0.17	1.25	0.11	0.42	0.00	0.00	0.22	1.25	0.26	1.67	0.04	0.17	0.18	0.25
G3	1668 Merriman Rd.	0.28	1.33	0.05	0.33	0.00	0.00	0.09	0.75	0.28	1.75	0.48	0.83	0.01	0.08
G4	1200 Firestone Pkwy.	0.18	0.83	0.24	0.92	0.00	0.00	0.03	0.25	0.18	1.50	0.35	0.58	0.10	0.25
G5	177 S. Broadway St.	0.21	1.00	0.25	0.83	0.02	0.17	0.13	0.92	0.19	1.42	0.19	0.42	0.27	0.25
G6	574 E. Cuyahoga Falls Ave.	0.14	1.08	0.06	0.42	0.00	0.00	0.06	0.50	0.18	1.17	0.13	0.50	0.01	0.08
G7	1436 Triplett Blvd.	0.17	1.17	0.26	0.58	0.00	0.00	0.04	0.33	0.26	1.42	0.14	0.42	0.29	0.25
G8	2100 Eastwood Ave.	0.23	1.17	0.29	0.92	0.10	0.25	0.08	0.58	0.17	1.25	0.24	0.67	0.38	0.33
G9	3487 S. Smith Rd.	0.32	1.33	0.13	0.58	0.00	0.00	0.12	0.92	0.34	1.75	0.46	0.50	0.08	0.17
G10	3061 Albrecht Ave.	0.32	1.33	0.82	0.83	0.00	0.00	0.04	0.33	0.16	1.17	0.07	0.42	0.24	0.33
G11	89 E. Howe Rd.	0.19	1.00	0.11	0.42	0.00	0.00	0.07	0.58	0.17	1.25	0.16	0.50	0.01	0.08
G12	1100 Graham Circle	0.27	1.08	0.14	0.33	0.01	0.08	0.09	0.75	0.27	1.58	0.83	1.00	0.03	0.25
G13	10 Ascot Pkwy.	0.30	1.17	0.04	0.25	0.01	0.08	0.08	0.67	0.24	1.75	0.57	1.08	0.01	0.08

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	9/13/2019		9/14/2019		9/16/2019		9/17/2019		9/21/2019		9/23/2019		9/30/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	1.42	0.6182	0.12	0.0044	0	0	0	0	0	0	0.08	0	0.52	0.0914
047/R04	Mill St.	1.7	0.3668	0.41	0.0132	0	0	0	0	0	0	0.4	0.0113	0	0
049/R06	Factory St.	0.13	0.0035	0.5	0.0132	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	1.31	0.1803	0	0	0	0	0	0	0	0	0	0	0	0
054/R11	Hazel St. – District 4	1.61	2.22	0.25	0.0713	0	0	0	0	0	0	0	0	0	0
055/R12	Camp Brook Storage Basin	0.1	0.82	0.2	0.44	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	1.59	1.0214	0.17	0	0	0	0	0	0	0	0	0	0	0
060/R17	Exchange St.	1.57	0.5296	0	0	0	0	0	0	0	0	0.11	0	0	0
061/R18	Willow Run Trunk	1.62	8.0569	0.62	0.4199	0	0	0	0	0	0	0	0	0	0
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	1.59	0.147	0	0	0	0	0.2	0.025	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0.5	3.8704	0.4	0.3701	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	1.22	0.0605	0	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	1.69	2.2511	1.57	0.0089	0.22	0.0015	0	0	0.36	0	1.04	0.04	0	0
069/R26	Aqueduct St outlet E. of Hickory St.	1.62	0.6741	0	0	0	0	0	0	0	0	0.09	0.0008	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	0	0	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	1.67	0.1218	0	0	0	0	0	0	0	0	0.28	0.0088	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	1.23	0.0785	0	0	0	0	0	0	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	1.68	0.1036	2.35	0.0141	0	0	0	0	0	0	1.52	0.0042	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	1.63	0.126	0.23	0.0042	0	0	0	0	0	0	0	0	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.70	1.42	0.03	0.25	0.04	0.25	0.00	0.00		0.00		0.00	0.80	2.83
G2	1532 Peckham St.	1.33	1.42	0.03	0.25	0.07	0.42	0.00	0.00	0.08	0.25	0.16	0.92	0.14	0.92
G3	1668 Merriman Rd.	0.98	1.17	0.02	0.17	0.02	0.17	0.00	0.00	0.00	0.00	0.17	0.83	0.20	0.75
G4	1200 Firestone Pkwy.	0.62	1.33	0.02	0.17	0.11	0.58	0.00	0.00	0.00	0.00	0.12	0.83	0.26	1.92
G5	177 S. Broadway St.	1.20	1.42	0.07	0.42	0.05	0.33	0.00	0.00	0.01	0.08	0.19	1.08	0.13	1.00
G6	574 E. Cuyahoga Falls Ave.	1.21	1.25	0.03	0.25	0.03	0.08	0.00	0.00	0.00	0.00	0.18	1.00	0.10	0.58
G7	1436 Triplett Blvd.	0.92	1.00	0.03	0.17	0.07	0.25	0.00	0.00	0.00	0.00	0.13	0.83	0.39	1.83
G8	2100 Eastwood Ave.	1.01	1.33	0.02	0.17	0.07	0.33	0.00	0.00	0.00	0.00	0.18	0.92	0.08	0.67
G9	3487 S. Smith Rd.	0.55	1.17	0.00	0.00	0.05	0.33	0.00	0.00	0.00	0.00	0.11	0.67	0.26	0.75
G10	3061 Albrecht Ave.	0.68	1.00	0.18	0.25	0.05	0.25	0.00	0.00	0.00	0.00	0.14	0.92	0.37	1.58
G11	89 E. Howe Rd.	1.40	1.42	0.07	0.33	0.01	0.08	0.00	0.00	0.00	0.00	0.18	1.08	0.16	0.75
G12	1100 Graham Circle	1.02	1.08	0.04	0.17	0.01	0.08	0.00	0.00	0.00	0.00	0.12	0.75	0.07	0.50
G13	10 Ascot Pkwy.	0.87	0.92	0.01	0.08	0.01	0.08	0.00	0.00	0.00	0.00	0.11	0.67	0.07	0.58

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	10/2/2019		10/15/2019		10/16/2019		10/22/2019		10/26/2019		10/27/2019		10/28/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	2.28	0.5355	0.5	0.0174	0	0	0.53	0.061	0.31	0.0435	0	0
047/R04	Mill St.	0	0	0	0	1.82	0.0978	0.13	0.0019	1.34	0.0602	0.6	0.0451	1.59	0.1787
049/R06	Factory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	0	0	0	0	0	0	2.47	0.3084	1.67	0.3701	0	0
054/R11	Hazel St. – District 4	0	0	0	0	0	0	0	0	0.43	0.168	0.34	0.1171	0	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0	0	0	0	0	0	0.2	0	0.25	0	0.25	1.6723
060/R17	Exchange St.	0	0	0	0	0.23	0.0031	0	0	0.22	0	0.15	0.0063	0	0
061/R18	Willow Run Trunk	0	0	0	0	0.89	0.2899	0	0	0.83	0.5798	0.52	0.3967	0	0
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St	0	0	0	0	0	0	0	0	0	0	0	0	0	0
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0	0	0	0	0	0	0	0	0.23	0.0057	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	0	0	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0	0	0	0	0	0	0	0	0.3	0.0059	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	0.35	0	0	0	3.93	0.0208	0.55	0	5.02	0.0255	3	0.0213	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	0	0	0	0	0	0	0.41	0.021	0.42	0.0147	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.07	0.50	0.00	0.00	0.54	4.00	0.18	1.33	0.65	4.42	0.20	1.08	0.01	0.08
G2	1532 Peckham St.	0.04	0.25	0.00	0.00	0.59	4.00	0.17	1.25	0.58	4.17	0.21	1.17	0.00	0.00
G3	1668 Merriman Rd.	0.09	0.67	0.00	0.00	0.49	3.50	0.00	0.00	0.63	4.42	0.24	1.17	0.01	0.08
G4	1200 Firestone Pkwy.	0.06	0.50	0.00	0.00	0.52	3.42	0.18	1.33	0.55	3.83	0.23	1.17	0.01	0.08
G5	177 S. Broadway St.	0.05	0.33	0.00	0.00	0.58	3.67	0.19	1.33	0.59	4.08	0.21	1.33	0.01	0.08
G6	574 E. Cuyahoga Falls Ave.	0.12	0.67	0.00	0.00	0.35	2.67	0.13	0.92	0.48	3.33	0.15	1.00	0.00	0.00
G7	1436 Triplett Blvd.	0.06	0.50	0.00	0.00	0.61	4.00	0.21	1.67	0.50	3.58	0.15	0.92	0.01	0.08
G8	2100 Eastwood Ave.	0.12	0.75	0.00	0.00	0.49	3.58	0.22	1.67	0.58	4.00	0.17	1.00	0.01	0.08
G9	3487 S. Smith Rd.	0.09	0.67	0.00	0.00	0.56	3.75	0.18	1.33		0.00		0.00		0.00
G10	3061 Albrecht Ave.	0.05	0.42	0.00	0.00	0.52	3.67	0.28	2.17	0.49	3.75	0.18	1.17	0.01	0.08
G11	89 E. Howe Rd.	0.16	0.83	0.00	0.00	0.49	3.42	0.20	1.50	0.57	4.25	0.18	1.08	0.01	0.08
G12	1100 Graham Circle	0.16	0.83	0.00	0.00	0.49	3.50	0.16	1.17	0.59	4.08	0.20	1.17	0.00	0.00
G13	10 Ascot Pkwy.	0.12	0.67	0.00	0.00	0.45	3.50	0.13	1.08	0.54	3.67	0.23	1.00	0.01	0.08

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	10/30/2019		10/31/2019		11/1/2019		11/8/2019		11/11/2019		11/23/2019		11/25/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	5.08	1.3932	0	0	0.16	0.0174	0	0	0.68	0.0827	0	0
047/R04	Mill St.	0	0	4.59	0.4571	0	0	0	0	0	0	1.1	0.0451	0	0
049/R06	Factory St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	13.97	5.4214	8.86	2.6336	0	0	0	0	0.49	0.0356	0	0
054/R11	Hazel St. – District 4	0	0	4.92	3.5133	0	0	0	0	0	0	0.59	0.3157	0	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	2.73	0.8081	0	0	0	0	0	0	0.16	0	0	0
060/R17	Exchange St.	0	0	1.81	0.1943	0	0	0	0	0	0	0.08	0	0.1	0.0094
061/R18	Willow Run Trunk	0	0	7.15	11.8869	0	0	0	0	0	0	0.53	0.2594	0	0
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0.52	0.008	0	0	0	0	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0.11	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	0	0	0	0	0	0	0	0	0	0	1.62	0.1541	0	0
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	1.81	0.0903	0	0	0	0	0	0	0	0	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	0	0	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	1.85	0.0895	0	0	0	0	0	0	0	0	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	2.22	0.001	8.38	0.1452	0	0	0	0	2.46	0.0047	1.77	0.0073	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	1.73	0.007	0	0	0	0	0	0	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	4.31	0.3298	0	0	0	0	0	0	0.36	0.0105	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.31	2.58	1.27	5.83	0.02	0.17	0.00	0.00	0.19	1.58	0.34	1.92	0.00	0.00
G2	1532 Peckham St.	0.28	2.33	1.11	5.50	0.04	0.33	0.00	0.00	0.21	1.75	0.28	2.17	0.00	0.00
G3	1668 Merriman Rd.	0.27	2.25	1.10	5.67	0.02	0.17	0.01	0.08	0.30	2.50	0.34	2.58	0.00	0.00
G4	1200 Firestone Pkwy.	0.30	2.33	1.30	5.17	0.02	0.17	0.00	0.00	0.17	1.42	0.29	1.75	0.00	0.00
G5	177 S. Broadway St.	0.28	2.25	1.23	5.67	0.04	0.33	0.01	0.08	0.22	1.83	0.29	1.83	0.00	0.00
G6	574 E. Cuyahoga Falls Ave.	0.25	2.08	1.18	5.58	0.02	0.17	0.00	0.00	0.22	1.83	0.24	1.58	0.00	0.00
G7	1436 Triplett Blvd.	0.29	2.42	1.31	5.75	0.02	0.17	0.00	0.00	0.19	1.58	0.36	2.00	0.00	0.00
G8	2100 Eastwood Ave.	0.30	2.42	1.38	5.92	0.02	0.17	0.00	0.00	0.19	1.58	0.30	2.00	0.00	0.00
G9	3487 S. Smith Rd.	0.30	2.50	1.06	5.42	0.02	0.17	0.01	0.08	0.21	1.75	0.23	1.67	0.00	0.00
G10	3061 Albrecht Ave.	0.30	2.50	1.45	6.08	0.02	0.17	0.00	0.00	0.16	1.33	0.36	2.17	0.00	0.00
G11	89 E. Howe Rd.	0.00	0.00		0.00	0.03	0.25	0.02	0.17	0.17	1.42	0.25	1.83	0.00	0.00
G12	1100 Graham Circle	0.24	1.92	1.11	5.50	0.02	0.17	0.02	0.17	0.20	1.67	0.23	1.75	0.00	0.00
G13	10 Ascot Pkwy.	0.23	1.92	1.03	5.33	0.01	0.08		0.00		0.00		0.00		0.00

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

Listing of all CSO discharges and rain data, 2019

	Date:	11/27/2019		12/1/2019		12/9/2019		12/14/2019		12/17/2019		12/20/2019		12/22/2019	
Overflows															
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	1.93	0.4397	2.2	0.3309	0	0	0	0	0	0	0	0
047/R04	Mill St.	0.09	0	2.37	0.2351	3.34	0.1768	0	0	0	0	0	0	12.91	0.1166
049/R06	Factory St.	0	0	0.12	0.0006	0	0	0	0	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	1.71	0.1352	1.22	0.0546	0	0	0	0	0	0	0	0
054/R11	Hazel St. – District 4	0	0	3.04	1.6497	2.46	1.3137	0	0	0	0	0.16	0.0051	0	0
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	1.35	0.1122	0.81	0.0224	0	0	0	0	0	0	0	0
060/R17	Exchange St.	0	0	0.9	0.0282	0.29	0.0157	0	0	0	0	0	0	0	0
061/R18	Willow Run Trunk	0.19	0	9.32	6.0121	2.95	2.5941	0	0	0	0	0	0	0	0
062/R19	West Market St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
063/R20	West North St.	0	0	0.14	0.002	0	0	0	0	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	0.62	0.0163	4.84	0.9321	8.42	0.6387	1.36	0.0148	0	0	0	0	0	0
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	1.31	0.0484	0.17	0.0016	0	0	0	0	0	0	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0	0	0	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	1.46	0.0455	0	0	0	0	0	0	0	0	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0	0	0	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	0.94	0	5.85	0.0531	12.38	0.0879	3.23	0.0099	0	0	0.17	0	0	0
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	0.85	0.003	0	0	0	0	0.49	0.002	0	0	0	0
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	1.91	0.2311	1.82	0.0714	0	0	0	0	0	0	0	0
080/R37	Bowery Street	0	0	0	0	0	0	0	0	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0	0	0	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.25	2.00	0.77	3.33	1.00	6.58	0.32	2.67	0.11	0.92	0.00	0.00	0.00	0.00
G2	1532 Peckham St.	0.20	1.58	0.92	3.33	0.88	6.58	0.30	2.50	0.02	0.17	0.06	0.42	0.00	0.00
G3	1668 Merriman Rd.	0.22	1.67	1.03	3.58	0.86	6.33	0.33	2.75	0.08	0.67	0.03	0.25	0.00	0.00
G4	1200 Firestone Pkwy.	0.23	1.67	0.68	3.42	0.92	6.25	0.26	2.17	0.05	0.42	0.03	0.25	0.00	0.00
G5	177 S. Broadway St.	0.24	1.83	0.70	3.75	0.91	6.58	0.31	2.58	0.05	0.42	0.08	0.67	0.00	0.00
G6	574 E. Cuyahoga Falls Ave.	0.19	1.42	0.67	3.42	0.78	5.58	0.34	2.83	0.04	0.33	0.05	0.42	0.00	0.00
G7	1436 Triplett Blvd.	0.16	1.25	0.64	3.42	0.85	5.50	0.35	2.92	0.03	0.25	0.05	0.42	0.00	0.00
G8	2100 Eastwood Ave.	0.20	1.50	0.80	3.58	0.87	5.92	0.34	2.83	0.01	0.08	0.10	0.67	0.00	0.00
G9	3487 S. Smith Rd.	0.25	1.58	0.88	3.67	0.75	5.83	0.29	2.42	0.03	0.25	0.09	0.58	0.00	0.00
G10	3061 Albrecht Ave.	0.23	1.75	0.78	3.67	0.97	6.50	0.30	2.50	0.00	0.00		0.00		0.00
G11	89 E. Howe Rd.	0.18	1.50	0.80	3.83	0.88	6.42	0.30	2.50	0.01	0.08	0.02	0.17	0.00	0.00
G12	1100 Graham Circle	0.20	1.33	0.71	3.83	0.83	6.08	0.33	2.75	0.05	0.42	0.05	0.33	0.00	0.00
G13	10 Ascot Pkwy.		0.00		0.00		0.00		0.00		0.00		0.00		0.00

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches



Listing of all CSO discharges and rain data, 2019

	Date:	12/23/2019		12/29/2019		12/30/2019	
Overflows							
Station/Rack	Location	Dur	Vol	Dur	Vol	Dur	Vol
046/R03	Kelly Ave.	0	0	0.55	0.0958	0.98	0.0392
047/R04	Mill St.	12.58	0	1.68	0.1317	0.94	0.0263
049/R06	Factory St.	0	0	0	0	0	0
053/R10	Case Ave. – Newton St. District	0	0	0.5	0.0475	0.15	0
054/R11	Hazel St. – District 4	0	0	0.7	0.4277	0.85	0.2648
055/R12	Camp Brook Storage Basin	0	0	0	0	0	0
057/R14	Forge Field Storage Basin	0	0	0	0	0	0
058/R15	Cascade Village Storage Basin	0	0	0	0	0	0
059/R16	Wolf Ledges Trunk	0	0	0.51	0.0561	0	0
060/R17	Exchange St.	0	0	0.31	0.0251	0.12	0
061/R18	Willow Run Trunk	0	0	1.71	0.0327	0.23	0
062/R19	West Market St.	0	0	0	0	0	0
063/R20	West North St.	0	0	0	0	0	0
065/R22	Howard Street Storage Basin	0	0	0	0	0	0
066/R23	North Maple St.	0	0	0	0	0	0
067/R24	West Market St Outlet @ Ravine St.	0	0	4.27	0.6417	1.85	0.0563
069/R26	Aqueduct St outlet E. of Hickory St.	0	0	0.48	0.0255	0	0
070/R27	Uhler Ave. @ Memorial Parkway	0	0	0	0	0	0
071/R28	Memorial Parkway @ Hickory St.	0	0	0.59	0.0308	0	0
072/R29	Uhler Ave. – Carpenter St. Outlet	0	0	0	0	0	0
075/R32	Carpenter Heights District	0	0	0	0	0	0
076/R33	North Side Interceptor @ Main St.	0	0	2.37	0	2.56	0.0125
077/R34	Riverside Dr. Dist. @ MetroParks Rd	0	0	1.7	0.0114	1.15	0.006
078/R35	Gorge Blvd. Dist. @ Front St. Bridge	0	0	1.36	0.0924	0	0
080/R37	Bowery Street	0	0	0	0	0	0
081/R02	Goodyear Retention Tank 1376 9th	0	0	0	0	0	0
083/R40	Cuyahoga Street Storage Facility	0	0	0	0	0	0

Rain Gauge	Location	Depth	Dur	Depth	Dur	Depth	Dur
G1	2644 Cordelia Ave.	0.00	0.00	0.75	5.08	0.27	1.75
G2	1532 Peckham St.	0.00	0.00	0.79	4.83	0.21	1.42
G3	1668 Merriman Rd.	0.00	0.00	0.82	4.75	0.18	1.33
G4	1200 Firestone Pkwy.	0.00	0.00	0.63	4.75	0.24	1.83
G5	177 S. Broadway St.	0.00	0.00	0.70	4.75	0.28	1.75
G6	574 E. Cuyahoga Falls Ave.	0.00	0.00	0.70	4.33	0.18	1.33
G7	1436 Triplett Blvd.	0.00	0.00	0.56	4.33	0.23	1.75
G8	2100 Eastwood Ave.	0.00	0.00	0.60	4.33	0.28	2.08
G9	3487 S. Smith Rd.	0.00	0.00		4.83		1.50
G10	3061 Albrecht Ave.		0.00		0.00	0.00	0.00
G11	89 E. Howe Rd.	0.00	0.00	0.77	4.67	0.32	2.08
G12	1100 Graham Circle	0.01	0.08	0.72	4.42	0.20	1.50
G13	10 Ascot Pkwy.		0.00		0.00		0.00

Units: Duration-Hours; Volume-Million Gallons; Depth-Inches

## **Appendix B**

Consent Decree Semi-Annual Report #20  
(July 1, 2019 - December 31, 2019)

CHRIS D. LUDLE  
Service Director



EUFRANCIA LASH  
Deputy Director

DANIEL HARRIGAN, MAYOR

DEPARTMENT OF PUBLIC SERVICE

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February 14, 2020

UPS NEXT DAY AIR

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Unit Supervisor, Compliance & Enforcement  
Division of Surface Water  
Ohio EPA Northeast District Office  
2110 East Aurora Road  
Twinsburg, OH 44087

RE: **Consent Decree, City of Akron, Ohio**  
**Case No. 5:09-cv-00272**  
**Judge John R. Adams (Magistrate Pearson)**

**SUBMISSION:** Akron shall submit a Semi-Annual Report to the U.S. EPA and OEPA on August 15, 2010 and every six (6) months thereafter until termination of this Consent Decree: Report No. 20, February 14, 2020 (July 1, 2019-Dec. 31, 2019)

**CONSENT DECREE REFERENCE:** Consent Decree XV, Reporting Requirements: Paragraph 75.

**CERTIFICATION:** I certify under penalty of law that this document and its attachments were prepared under my direction or supervision in a manner designed to ensure that qualified and knowledgeable personnel properly gather and present the information contained herein. I further certify, based on my inquiry of those individuals immediately responsible for obtaining the information, that I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Chris D. Ludle  
Service Director

If you have any questions concerning this submittal, please feel free to contact Patrick Gsellman, AVR Program Manager, Akron Engineering Bureau, at 330-375-2355 or [pgsellman@akronohio.gov](mailto:pgsellman@akronohio.gov).

CDL:PDG:LCG

Attachment

cc: Mayor D. Horrigan, E. Belfance, C. Ludle, E. Lash, M. Moore, B. Gresser, P. Gsellman, T. Finn (R&A), File 2010-009-00  
ec: Gary Prichard (USEPA-Region V), Marta Grabowski (USEPA-Region V)



DANIEL HARRIGAN, MAYOR

**City of Akron**  
**Consent Decree**  
**Semi-Annual Report No. 20**  
**July 1, 2019 – December 31, 2019**


February 14, 2020



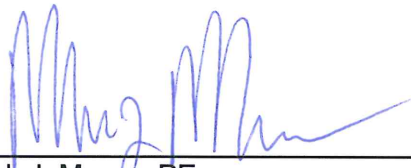
Department of Public Service  
Akron Engineering Bureau  
Environmental Division

**City of Akron**  
**Consent Decree**  
**Semi-Annual Report No. 20**  
**July 1, 2019 – December 31, 2019**

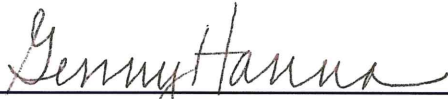
February 14, 2020



Patrick D. Gsellman, PE  
AWR Program Manager



Mark J. Moore, PE  
Akron City Engineer



Genny Hanna, PE  
Acting Environmental Division Manager



Brian M. Gresser, PE  
Water Reclamation Manager

Document prepared by:  
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133 N. Summit St.  
Akron, OH 44304

**Semi-Annual Report No. 20**  
**July 1, 2019 – December 31, 2019**

Table of Contents

	<u>Page No.</u>
1. SPECIFIC ACTION PROJECTS .....	1
2. CSO AND WPCS CONTROL MEASURES .....	4
3. CMOM, GREASE CONTROL & EMERGENCY RESPONSE PROGRAMS ....	24
4. MUD RUN PUMP STATION .....	29
5. SUPPLEMENTAL ENVIRONMENTAL PROJECT .....	31
6. OTHER NECESSARY INFORMATION .....	31

APPENDICES

- A. EPA Correspondence
- B. Listing of all CSO Discharges
- C. Public Participation
- D. SSOs, CSS Releases, Building/Property Backups
- E. List of Defects
- F. List of Defects – Acute Only
- G. FOG Trouble Spots Cleaned/Inspected
- H. Green Infrastructure Performance Reporting

### List of Abbreviations and Acronyms

AFO	Achievement of Full Operation
AFP	Advanced Facilities Plan
AASEP	All-Akron Student Engineering Program
AWR!	Akron Waterways Renewed!
CAG	Community Action Group
CCTV	Closed-Circuit Television
CD	Consent Decree
CEPT	Chemically Enhanced Primary Treatment
CIPP	Cured in Place Process
CMOM	Capacity, Management, Operations, and Maintenance
CSO	Combined Sewer Overflow
CSS	Combined Sewer Systems
EHRT	Enhanced High Rate Treatment
EPA	Environmental Protection Agency
FOG	Fats, Oils and Grease
FSE	Food Service Establishments
GI	Green Infrastructure
GIS	Geographic Information System
HVAC	Heating, Ventilation, and Air Conditioning
ID	Identification
I/I	Infiltration/Inflow
IP	Integrated Plan
IPF	Integrated Planning Framework
IPS	Integrated Plan Stakeholders
LCI	Little Cuyahoga Interceptor
LF	Linear Feet
LTCP	Long Term Control Plan
Mg/l	Milligrams per Liter
MGD	Million Gallons per Day
MH	Manhole
MLSS	Mixed Liquor Suspended Solids
MOI	Main Outfall Interceptor
NASSCO	National Association of Sewer Service Companies
NFA	No Feasible Alternative
No.	Number
NOI	Notice of Intent
NSI	Northside Interceptor
NTP	Notice To Proceed
OCI	Ohio Canal Interceptor
OCIT	Ohio Canal Interceptor Tunnel
OHPO	Ohio Historic Preservation Office
OSHA	Occupational Safety and Health Administration
PER	Preliminary Engineering Report
PID	Project Identification
PTI	Permit to Install
QAPP	Quality Assurance Project Plan
RAS	Return Activated Sludge
RCA	Root Cause Analysis
RIO	Remote Input/Output
SCPHD	Summit County Public Health Department
SEP	Supplemental Environmental Project
SOP	Standard Operating Procedure
SORNP	Sewer Overflow and Response Notification Plan

### **List of Abbreviations and Acronyms**

SSO	Sanitary Sewer Overflow
SWPPP	Stormwater Pollution Prevention Plan
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
WAS	Waste Activated Sludge
WPCLF	Water Pollution Control Loan Fund
WPCS	Water Pollution Control Station
WRF	Water Reclamation Facility (See: WPCS)



## Section 1: Specific Action Projects

### 1.A Upgrade of the WPCS (Phase 1)

<b>Status of Work Plan Development</b>	The Work Plan for Water Pollution Control Station (WPCS) improvements was submitted to EPA on February 10, 2010 per the Consent Decree.
<b>Status of Design and Construction Activities</b>	Design and construction are complete. Certificate of Achievement of Full Operation was issued and acknowledged on September 20, 2013.
<b>Status of Stress Test Protocol Development</b>	Stress Tests are complete.
<b>Status and Results of Stress Tests</b>	Stress Tests are complete. The Final Demonstration Testing Evaluation Report was submitted to EPA on October 15, 2015, per the Consent Decree.
<b>Capacity Achieved at the WPCS After Upgrade</b>	The Final Demonstration Testing Evaluation Report concluded that the step feed and clarifier upgrades to Unit 6 have achieved 30 MGD of wet weather treatment capacity.
<b>Project Cost Incurred During Reporting Period</b>	No project costs were incurred during the reporting period.

### 1.B Upgrade of the WPCS (Contingency Projects)

The Final Demonstration Testing Evaluation Report concluded that the step feed and clarifier upgrades to Unit 6 achieved 30 MGD of wet weather treatment capacity, therefore, this Consent Decree item is not applicable.

### 1.C Status of Sewer Separation Projects

#### 1.C.1 Rack 8 Separation Project

<b>Activities Undertaken During Reporting Period</b>	Project is complete.
<b>Status of Construction</b>	Construction is complete.
<b>Date of Anticipated Completion</b>	Achievement of Full Operation occurred on December 14, 2012.

**Project Cost Incurred During Reporting Period** No project costs were incurred during the reporting period.

### ***1.C.2 Rack 25 Separation Project***

**Activities Undertaken During Reporting Period** Project is complete.

**Status of Construction** Construction is complete.

**Date of Anticipated Completion** Achievement of Full Operation occurred on December 14, 2012.

**Project Cost Incurred During Reporting Period** No project costs were incurred during the reporting period.

### ***1.C.3. Rack 21 Separation Project***

**Activities Undertaken During Reporting Period** Work on this project is substantially complete. This project is now in the warranty period. Work continues on the sub-final punch list.

**Status of Construction** Construction is substantially complete.

**Date of Anticipated Completion** Achievement of Full Operation occurred on November 9, 2017. Construction was substantially complete November 13, 2017.

**Project Cost Incurred During Reporting Period** Project costs incurred during the reporting period were approximately \$352,413.20

### ***1.C.4 Rack 13 Separation Project***

**Activities Undertaken During Reporting Period** Project is complete.

**Status of Construction** Construction is complete.

**Date of Anticipated Completion** Achievement of Full Operation occurred on October 14, 2016.

**Project Cost Incurred During Reporting Period** No project costs were incurred during the reporting period.

***1.C.5 Rack 30 Separation Project***

**Activities Undertaken During Reporting Period** Work on this project is substantially complete. This project is now in the warranty period. Sub-final punch list is complete.

**Status of Construction** Construction is substantially complete.

**Date of Anticipated Completion** Achievement of Full Operation occurred on November 9, 2017. Construction on Rack 30 was substantially complete November 13, 2017.

**Project Cost Incurred During Reporting Period** Project costs incurred during the reporting period were approximately \$50,918.74

## Section 2: CSO and WPCS Control Measures

### 2.A Status of Document Preparation

Table 2-1 shows the current status of documents as listed in Table 1 in Paragraph 17 of the Consent Decree. Documents listed in **bold** have been completed as of the end date of this reporting period.

**Table 2-1 Status of Document Preparation**

<b>Document</b>	<b>Consent Decree Due Date</b>	<b>Date Submitted or Date of Anticipated Completion</b>
<b>Updated NFA and supplement</b>	November 30, 2009	November 25, 2009
<b>Preliminary Report on Modeling to Predict Size and Number of Overflows</b>	January 15, 2010	January 13, 2010
<b>Preliminary Report on Cost/Benefit Comparison to Predict Sizes and Number of Overflows</b>	March 15, 2010	March 12, 2010
<b>CSO Control Measure Cost/Benefit Tables at Appendix 2 of Attachment A</b>	May 15, 2010	May 14, 2010
<b>Updated Financial Capability Information</b>	May 15, 2010	May 14, 2010
<b>Post-Construction Monitoring Program</b>	August 15, 2010	August 16, 2010
<b>Proposed Long Term Control Plan Update</b>	August 15, 2010	August 16, 2010
<b>Proposed Long Term Control Plan Update Report</b>	August 15, 2010	August 16, 2010
<b>Final Long Term Control Plan Update</b>	October 15, 2010	October 15, 2010 Revised: February 28, 2011
<b>Final Long Term Control Plan Update Report</b>	October 15, 2010	October 15, 2010 Revised: February 28, 2011 Revised: November 15, 2011 USEPA Approved: November 16, 2011 Ohio EPA Approved: April 11, 2012
<b>Report on Revising WPCS Control Measure(s) if Akron achieves 130 MGD through secondary treatment using step feed</b>	October 15, 2016	October 14, 2016
<b>Report on Revising WPCS Control Measure(s) if Akron constructs the WPCS Contingency Project</b>	October 15, 2017	N/A

#### 2.A.1 Development of an Integrated Plan

The City's LTCP Update was approved by USEPA on November 16, 2011 and Ohio EPA on April 11, 2012. The LTCP Update was incorporated into the court-approved Consent Decree on January 17, 2014.

The City submitted an Integrated Plan on July 31, 2015 in accordance with USEPA's June 5, 2012 Integrated Planning Framework (IPF) Guidance. The parties participated in several conferences and exchanged several documents regarding the City's proposed Integrated Plan. The City continued to comply with the requirements within the Consent Decree, including, but not limited to, the LTCP Update, during the ongoing discussions of the proposed Integrated Plan.

The parties subsequently agreed to suspend further discussions over the proposed Integrated Plan. At the same time, it was understood that the City would submit requests to modify the LTCP Update, independent of the integrated planning process. Those proposed modifications are discussed in the following section.

### **2.A.2 Consent Decree Modifications**

As a result of ongoing Consent Decree negotiations, modifications were made pursuant to Exhibit 2 and Exhibit 3 of the Consent Decree, and the Court has approved the First Amendment to Consent Decree and the Second Amendment to Consent Decree. Those modifications are discussed below.

The City received modification approval letters under Exhibit 3 of the LTCP for the following green infrastructure ("GI") projects:

- Rack 36 – approval letter issued on October 30, 2015;
- Rack 5/7 – approval letter issued on December 7, 2015;
- Rack 22 – approval letter issued on December 7, 2015.

Based upon a subsequent agreement of the parties, the City has constructed the original Rack 22 storage basin in lieu of the approved green infrastructure project.

On January 15, 2016 the City submitted an Alternative Plan to the Sizing of Secondary Treatment Capacity under Exhibit 2 of the LTCP Update. USEPA approved the City's Alternative Plan on February 11, 2016. Based on this approval, the WPCS Phase 2 projects were then subject to the requirements of the LTCP Update Rows 17 and 18.

The Court entered the First Amendment to the Consent Decree on September 20, 2016, which modified the Consent Decree as follows: (1) changed the sequencing of the WPCS Phase 2 projects and (2) replaced the MOI parallel relief sewer project with the MOI capping project. The First Amendment to Consent Decree switched the deadlines for the projects in LTCP Update Rows 17 and 18, and replaced the original LTCP Update Rows 21 and 22 with new Rows 21, 22 and 23.

The Court entered the Second Amendment to the Consent Decree on December 17, 2019 which further modified the Consent Decree as follows: (1) replaced the requirement for the BioACTIFLO facility in LTCP Update Row 18 with a BioCEPT facility and a demonstration study as now required in new LTCP Update Rows 18 and 18.a., respectively; and (2) replaced the Racks 3, 26/28 and 27/29 storage basins required in LTCP Update Rows 1, 8 and 9 with upsized underflow drains and pipes ("optimized conveyance") and two GI projects, including GI operation and maintenance ("O&M") requirements, and increased the size of the Rack 10/11 storage basin required in Row 3 from 2.5 MG to 4.5 MG. LTCP Update Rows 1, 3, 8 and 9 are now replaced with amended Rows 1, 3, 8 and 9 and new Rows 1.a., 8.a., and 9.a.

The City previously proposed to modify the requirement for the EHRT unit in LTCP Update Row 11a, as well as to replace the NSI tunnel in Row 12 with an alternative set of controls. However, the City informed USEPA and Ohio EPA of its decision to defer those requests to a later date. The parties did not discuss those potential modifications during this reporting period.

## ***2.B Progress Towards Completing Milestones in Approved LTCP Update***

Progress on completing milestones, including status of progress toward Achievement of Full Operation, for each of the WPCS and CSO Control Measures set forth in the approved LTCP Update is provided in Table 2-2. The Consent Decree was entered January 17, 2014 and amendments were entered on September 20, 2016 and December 17, 2019. In addition, under USEPA's Integrated Plan Framework, during this reporting period the City continued with Long Term Control Plan Optimization to evaluate and identify alternative solutions for the controls listed in the LTCP Update that have yet to be constructed.

**Table 2-2 Status of Progress and Cost Incurred During Reporting Period  
For Control Measures Set Forth in Approved LTCP Update**

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
1	Rack 3	Green infrastructure plus optimized conveyance	<p>Bidding of Control Measure – June 30, 2018.</p> <p>Achievement of Full Operation – November 30, 2020.</p>	<p>The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the storage basin with Green infrastructure plus optimized conveyance.</p> <p>Kelly Conveyance (CSO Rack 3), the upsized underflow, was awarded to a contractor. Contractor projected to start January 2020.</p> <p>Chittenden Green Project (CSO Rack 3), final landscaping and pavement remains to be completed on this project.</p> <p>Duane Green Project (CSO Rack 3) was awarded to a contractor, and is projected to start in January 2020.</p>	<p>Project costs incurred during the reporting period for all Kelly (CSO Rack 3) projects were approximately \$963,403.02</p>
1.a.	Rack 3	Develop and implement GI O&M Plans	Submit O&M Plan in accordance with Exhibit 7, no later than August 30, 2020		
2	Rack 5 and 7	Green Infrastructure and Sewer Separation (Per Exhibit 3)	<p>Bidding of Control Measure – October 31, 2015.</p> <p>Achievement of Full Operation – October 31, 2017.</p>	<p>Construction Notice to Proceed was issued on June 21, 2016.</p> <p>Achievement of Full Operation occurred on October 26, 2017.</p> <p>Sub-final punch list is complete.</p>	<p>Project costs incurred during the reporting period were approximately \$1,692,374.26</p>

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
3	Racks 10 and 11	Storage Basin(s)	<p>Bidding of Control Measure – June 30, 2018.</p> <p>Achievement of Full Operation – December 31, 2020.</p>	<p>The Court entered the Second Amendment to the Consent Decree December 17, 2019 which increased the size of the storage basin from 2.5 to 4.5 MG.</p> <p>Construction Notice to Proceed was issued on September 24, 2018.</p> <p>Construction is ongoing</p>	<p>Project costs incurred during the reporting period were approximately \$8,729,280.71</p>
4	Rack 12	Storage Basin(s)	<p>Bidding of Control Measure – November 30, 2014.</p> <p>Achievement of Full Operation – October 31, 2017.</p>	<p>Construction Notice to Proceed was issued on May 29, 2015.</p> <p>Achievement of Full Operation occurred on October 30, 2017.</p> <p>Construction continues on remaining punch list items.</p>	<p>Project costs incurred during the reporting period were approximately \$1,797,341.65</p>
5	Rack 14	Storage Basin(s)	<p>Bidding of Control Measure – October 31, 2014.</p> <p>Achievement of Full Operation – April 30, 2017.</p>	<p>Project complete. All warranty work is complete.</p> <p>Achievement of Full Operation occurred on January 3, 2017.</p>	<p>Project costs incurred during the reporting period were approximately \$627.16</p>
6	Rack 15	Storage Basin(s)	<p>Bidding of Control Measure – November 30, 2013.</p> <p>Achievement of Full Operation – October 31, 2015.</p>	<p>Project complete. Final pay application was processed, and loan was closed.</p> <p>Project placed in service on October 30, 2015.</p> <p>Achievement of Full Operation occurred on February 17, 2016.</p>	<p>No costs were incurred during the reporting period.</p>



Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
7	Rack 22	Storage Basin(s)	Bidding of Control Measure – October 31, 2015.  Achievement of Full Operation – December 31, 2017.	Project complete.  Achievement of Full Operation occurred on November 29, 2017.  Construction is complete.	No costs were incurred during the reporting period.
8	Rack 26 and 28	Green infrastructure plus optimized conveyance	Bidding of Control Measure – October 31, 2021.  Achievement of Full Operation – December 31, 2022.	The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the storage basin with Green infrastructure plus optimized conveyance.  Construction was completed for one aspect of the IP alternative, called Aqueduct Green Street Improvements.	Project costs incurred during the reporting period were approximately \$137,833.75.
8.a.	Rack 26 and 28	Develop and implement GI O&M Plans	Submit O&M Plan in accordance with Exhibit 7, no later than March 1, 2019	U.S. EPA issued an approval of the City's O&M Plan on October 23, 2019. GI performance reporting is provided in Appendix H.	Costs are reported in Section 2C as part of the overall Program costs.
9	Rack 27	Optimized conveyance	Bidding of Control Measure – January 31, 2018.  Achievement of Full Operation – December 31, 2019.	The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the storage basin with optimized conveyance.  The notice to proceed was issued on November 5, 2018.  Construction is ongoing.	Project costs incurred during the reporting period, for both Racks 27 and 29, were approximately \$2,476,901.67

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
9.a.	Rack 29	Optimized conveyance	<p>Bidding of Control Measure – January 31, 2018.</p> <p>Achievement of Full Operation – December 31, 2019.</p>	<p>The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the storage basin with optimized conveyance.</p> <p>The notice to proceed was issued on November 5, 2018.</p> <p>Construction is ongoing.</p>	See Row 9 above for project costs.
10	Rack 36	Green Infrastructure and Sewer Separation (Per Exhibit 3)	<p>Bidding of Control Measure – October 31, 2015.</p> <p>Achievement of Full Operation – October 31, 2017.</p>	<p>Project is in the warranty period.</p> <p>Achievement of Full Operation occurred on October 30, 2017.</p> <p>Construction was substantially complete as of September 15, 2017.</p> <p>Final punch list work is completed.</p>	Project costs incurred during the reporting period were approximately \$28,277.19

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
11	Racks 4, 16, 17, 18, 19, 20, 23, 24, 37	Ohio Canal Tunnel – Construct a 28-foot internal diameter tunnel, 5,500 feet in length, or any other combination of diameter and length that achieves the design criteria.	Bidding of Control Measure – April 30, 2014.  Achievement of Full Operation – December 31, 2018.	Notice to Proceed was issued on November 6, 2015.  Construction is ongoing.  On September 21, 2017, the City submitted a notification that the City has reason to believe that the Ohio Canal Interceptor Tunnel project will not meet the Achievement of Full Operation deadline. The City submitted an amendment to this notification on October 17, 2017. The parties then participated in a conference call on November 29, 2017 and further discussed the status of the schedule of the project. The parties agreed that the City would submit periodic updates on the status of the schedule of the project. The most recent contractor's schedule update dated January 3, 2020 forecasts the substantial completion milestone to be achieved June 30, 2020.	Project costs incurred during the reporting period were approximately \$10,908,469.11.
11a	Racks 16, 17, 18, 19, 20, 23, 24	Ohio Canal Tunnel – ACTIFLO™ Ballasted Flocculation Unit or equivalent technology that meets the Design and Performance Criteria and Disinfection.	Bidding of Control Measure – April 30, 2024.  Achievement of Full Operation – October 31, 2027.	LTCP optimization was performed as part of the Integrated Plan in 2015. No advanced facilities planning or design activities were undertaken during the reporting period.	No costs were incurred during the reporting period.

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
12	Racks 32, 33, 34, 35	Northside Interceptor Tunnel – Construct a 20-foot internal diameter tunnel, 10,000 feet in length or any other combination of diameter and length that achieves the design criteria.	Bidding of Control Measure – April 30, 2023.  Achievement of Full Operation – December 31, 2026.	The City is advancing the work on the Integrated Plan project to a preliminary design stage in the first half of 2020	Project costs incurred during the reporting period were approximately \$30,999.49
13a	WPCS Phase 1	Upgrade conventional secondary treatment capacity to 130MGD by implementing step feed operation in Train 6, as described in Paragraph 10.A of the Consent Decree.	Bidding of Control Measure – October 31, 2011.  Achievement of Full Operation – October 15, 2013.	Project complete (see Section 1.A of this Semi-Annual Report).	No costs were incurred during the reporting period.
13b	WPCS Phase 1	Upgrade conventional secondary treatment capacity to 130MGD by performing the upgrades identified in the Consent Decree in Section V.10.C.	Bidding of Control Measure – January 15, 2016.  Achievement of Full Operation – October 15, 2017.	Since the Final Demonstration Testing Evaluation Report concluded that the step feed and clarifier upgrades to Unit 6 have achieved 30 MGD of wet weather treatment capacity, this Consent Decree item is not required.	No costs were incurred during the reporting period.

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
14	WPCS Phase 1 BioACTIFLO™ Wet Weather Treatment Pilot Study (the "Pilot Study")	Conduct the Pilot Study in accordance with Exhibit 1 to this Long Term Control Plan Update.	<p>Pilot Study Start Date – May 1, 2012.</p> <p>Pilot Study Completion Date – November 30, 2013.</p> <p>Pilot Study Report submitted to EPA by December 31, 2013.</p>	Study is complete. USEPA issued a concurrence letter on April 8, 2015.	No costs were incurred during the reporting period.
15	WPCS Phase 2 – Part 1*	Upgrade conventional secondary treatment capacity to 170 MGD.	<p>Bidding of Control Measure – February 28, 2019.</p> <p>Achievement of Full Operation – December 31, 2021.</p>	This project was replaced by WPCS Alternative Plan A Phase 2 – Part 1 per US EPA approval of Alternate Plan A on February 11, 2016.	No costs were incurred during the reporting period.
16	WPCS Phase 2 – Part 2*	Install BioACTIFLO™ ballasted flocculation to treat all flow that does not receive conventional secondary treatment. In addition, all flows receiving BioACTIFLO™ shall receive disinfection.	<p>Bidding of Control Measure – April 30, 2017.</p> <p>Achievement of Full Operation – April 30, 2019.</p>	This project was replaced by WPCS Alternative Plan A Phase 2 – Part 2 per US EPA approval of Alternate Plan A on February 11, 2016.	No costs were incurred during the reporting period.

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
17	WPCS Alternative Plan A – Phase 2 – Part 1*	Upgrade conventional secondary treatment capacity to achieve the minimum sustained capacity specified in Alternative Plan A approved by USEPA.	<p>Bidding of Control Measure – April 30, 2017.</p> <p>Achievement of Full Operation – April 30, 2019.</p>	<p>USEPA issued an approval of Alternative Plan A on February 11, 2016 to upgrade conventional secondary treatment capacity to 220 MGD.</p> <p>The construction Notice to Proceed was issued on August 24, 2016.</p> <p>Construction is complete. Achievement of Full Operation occurred on April 30, 2019.</p> <p>The sequence of the WPCS Alternative A Phase 2, Part 1(Row 17) and Phase 2 Part 2 projects was changed under the First Amendment to the Consent Decree, entered on September 20, 2016. The revised dates are shown in this report.</p>	<p>Project costs incurred during the reporting period were approximately \$503,531.05.</p>

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
18	WPCS Alternative Plan A – Phase 2 – Part 2*	Install – BioCEPT to achieve a minimum capacity of 60 MGD. In addition, all flows receiving BioCEPT shall receive disinfection during the recreation season.	Bidding of Control Measure – February 28, 2019.  Achievement of Full Operation – December 31, 2021.	<p>BioCEPT to achieve a minimum sustained capacity of 60 MGD.</p> <p>The Notice to Proceed was issued to the Contractor on May 31, 2019. Construction is ongoing.</p> <p>The sequence of the WPCS Alternative A Phase 2, Part 1 (Row 17) and Phase 2 Part 2 projects was changed under the First Amendment to the Consent Decree, entered on September 20, 2016. Response to Row 17. The revised dates are shown in this report.</p> <p>The Court entered the Second Amendment to the Consent Decree December 17, 2019 which replaced the BioACTIFLO facility with a BioCEPT facility and an additional demonstration study. The replacement project was approved by USEPA and Ohio EPA, see Section 2.A.2.</p>	Project costs incurred during the reporting period were approximately \$9,112,490.50.
19	WPCS Alternative Plan B – Phase 2 – Part 1*	Upgrade conventional secondary treatment capacity to achieve the minimum sustained capacity specified in Alternative Plan B approved by USEPA.	Bidding of Control Measure – December 31, 2019.  Achievement of Full Operation – December 31, 2021.	Not Applicable	No costs were incurred during the reporting period.

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
20	WPCS Alternative Plan B – Phase 2 – Part 2*	Install BioACTIFLO™ ballasted flocculation to achieve the minimum capacity specified in Alternative Plan B approved by USEPA. In addition, all flows receiving BioACTIFLO™ shall receive disinfection.	Bidding of Control Measure – April 30, 2017.  Achievement of Full Operation – April 30, 2019.	Not Applicable	No costs were incurred during the reporting period.

\*Alternative Plan to Upgrading Conventional Secondary Treatment to 170 MGD:

- 1) If US EPA approves in writing an Alternative Plan A, in accordance with Exhibit 2 to the LTCP update, then Akron shall implement the control measures specified in the First Amendment in Rows 17 and 18, instead of the control measures specified in Rows 15 and 16
- 2) If US EPA approves in writing an Alternative Plan B, in accordance with attachment to the LTCP update, then Akron shall implement the control measures specified in the First Amendment in Rows 19 and 20, instead of the control measures specified in Rows 15 and 16



Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
<b>(2) Collection System Measures</b>					
21	Main Outfall Sewer Upgrades – Phase I	Installation of pneumatically placed, steel reinforced mortar cap over the entire length of the brick-arch section of the Main Outfall Interceptor (“MOI”) that runs between Survey Station 83+00 and the rectangular bridge section that is located upstream of the WPCS (“the Bridge Section”). The Bridge Section is not of brick-arch construction, and the approximately 400-foot portion of the MOI between the Bridge Section and the WPCS is covered with soil. As part of Phase I, a limited amount of additional soil will be added to the brick-arch portion of the MOI between the Bridge Section and the WPCS headworks.	Bidding of Control Measures: May 4, 2016  Achievement of Full Operation: November 30, 2017.	Project complete.  Achievement of Full Operation occurred on November 22, 2016.	No costs were incurred during the reporting period

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
22	Main Outfall Sewer Upgrades – Phase II	Additional soil will be added to the soil cap on the brick-arch portion of the MOI between the Bridge Section and the WPCS headworks, after the completion of, and subject to the results of, a geotechnical and engineering evaluation will be to determine the amount of additional soil cover, up to 2 feet, that can be placed on the remaining brick-arch portion of the MOI between the Bridge Section and the existing WPCS headworks without causing excessive settlement of that portion of the MOI. The parties understand that the City may eliminate and/or improve some of the brick-arch portion of the MOI between the Bridge Section and the existing WPCS headworks project. Any improvements to the brick-arch portion of the MOI between the Bridge Section and the existing WPCS headworks through construction of a proposed WPCS headworks project. Any improvements to the brick-arch portion of the MOI between the Bridge Section and the existing WPCS headworks project shall ensure structural integrity such that the improved portion of the enclosed conduit of the MOI withstands at least 5 feet of surcharge.	<p>Completion of engineering evaluation: May 30, 2017</p> <p>Completion of placement of additional soil: November 30, 2017</p>	<p>Engineering evaluation completed and submitted to EPA on May 22, 2017.</p> <p>Achievement of Full Operation for the Soil Cap occurred on November 15, 2017.</p>	No costs were incurred during the reporting period.

Row #	Control Measure Location	Description	Critical Milestones	Progress During Reporting Period	Costs Incurred During Reporting Period
23	Main Outfall Sewer Inspection	Perform inspection and rehabilitation consistent with the Main Outfall Sewer Supplement to the Approved CMOM Program as outlined in Section VII of the Consent Decree	Full Operation shall be maintained consistent with Main Outfall Sewer Supplement to the Approved CMOM Program	Project complete.	No costs were incurred during the reporting period.

## **2.C Project Cost Incurred**

Project costs incurred by the City during the reporting period for each of the WPCS and CSO Control Measures set forth in the approved LTCP Update are provided in Table 2-2. The City incurred additional costs for regulatory support, design management, program controls, technical and right of way support, GI operation and maintenance and program management \$2,094,213.16 during the reporting period.

## **2.D Status of Implementation of the Post-Construction Monitoring Program**

The Post-Construction Monitoring Program was submitted on August 15, 2010, and in the revised Long Term Control Plan on February 29, 2011. In response to comments from U.S. EPA, the City submitted a revised Program on December 14, 2012.

## **2.E Listing of All CSO Discharges**

CSO discharges from each CSO Outfall for the period July 1, 2019 through December 31, 2019 are listed in Appendix B. The listing also provides data on the depth and duration of rainfall at each of the City's thirteen (13) rain gauges. Racks 8, 9, 25, 30, 31, 38 and 39 are not included in the table. Racks 13, 8, 25, 9 and 39 were separated on June 14, 2016, May 21, 2012, April 26, 2012, July 27, 2004 and August 18, 2000, respectively. Racks 5, 7, 21 and 36 were separated on October 13, 2017, October 3, 2017, July 18, 2017 and August 16, 2017, respectively. Rack 30 was separated on November 9, 2017. Rack 31 discharges are included with Rack 40 (Cuyahoga Street Storage Facility). Rack 38 is a diversion chamber that routes flow within the combined sewer system.

## **2.F Status of Development of the Supplemental Compliance Plan**

As of this reporting period, the Supplemental Compliance Plan is not required.

## **2.G Status of Public Participation Plan Implementation**

The City of Akron continued its public participation program with regular updates to the AWR! Stakeholders Group, formally known as the Integrated Plan Stakeholder Group and as the CSO Community Action Group (CAG), prior to that. During the reporting period, the following IP Stakeholder group meeting was held:

- AWR! Stakeholders Meeting/ Presentations October 24, 2019

The City's public participation efforts also included presentations made at the following events and public meetings during the reporting period:

- Hosted two public trolley tours (July 2019)
- Hosted a groundbreaking ceremony for a new spray park (July 2019)
- Rib White and Blue Fest – ECO (July 2019)
- Children's Day at Lock 3 – ECO (July 2019)
- United Way Day – ECO (July 2019)
- Hosted public trolley tour (August 2019)
- Helped coordinate and host AASEP Closing Luncheon (August 2019)
- Had a booth at Metro's 50<sup>th</sup> Anniversary Celebration

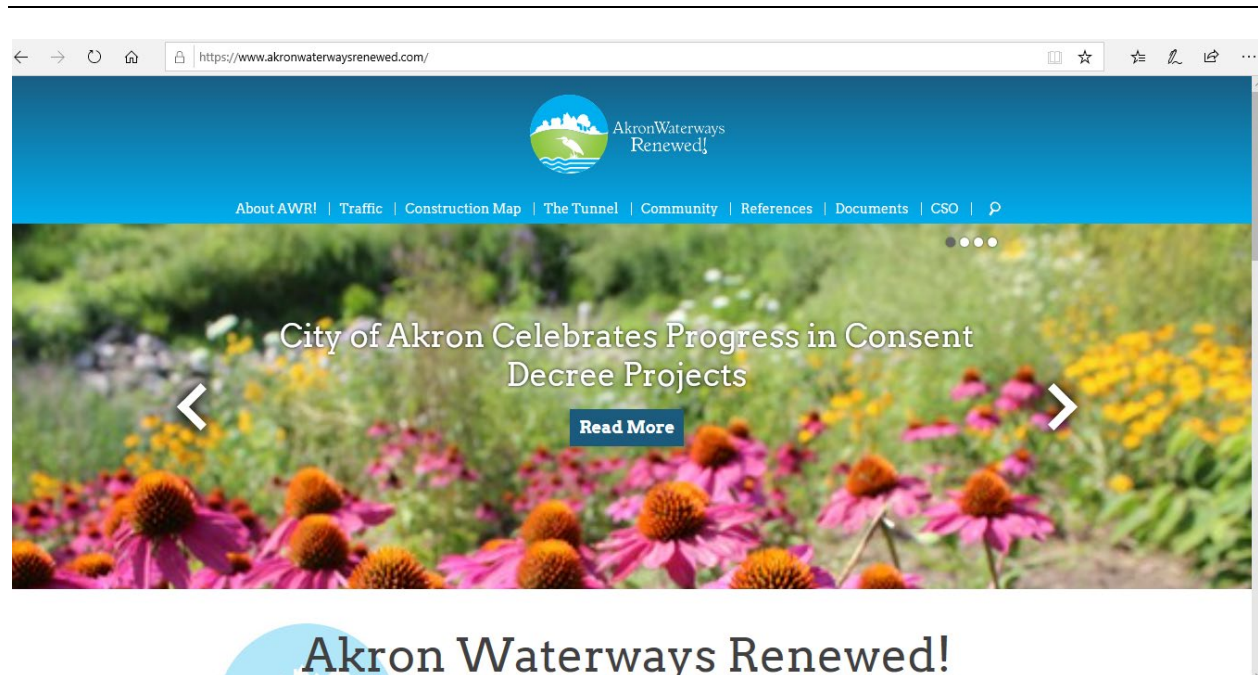
- RubberDucks Birthday bash – ECO (August 2019)
- Public Meeting for Hickory Residents regarding the Ohio Canal Interceptor Tunnel (August 2019)
- Hosted one public trolley tour (September 2019)
- Hosted private trolley tour for Ohio EPA (September 2019)
- Presentation to Environmental Class at Kent State University (September 2019)
- Had a booth at the Northeast Ohio Regional Sewer District Open House (September 2019)
- Contracting Opportunities and Resources – Local Contractor Support Event in Conjunction with the Akron Urban League (September 2019)
- Public speaker for the Girl Scouts on Recycling the Right Way (September 2019)
- Akron Marathon Kids Fun Run – ECO (September 2019)
- Hosted private trolley tour for Mayor's Citizen's Academy (October 2019)
- Hosted private trolley tour for Jr. Leadership Akron (October 2019)
- University of Akron Field Day – ECO (October 2019)
- Panel representative for the Value of Water Sustainability Conference (October 2019)
- Water, Women, and Wellness (October 2019)
- Hosted one private trolley tour for Buchtel CLC (November 2019)
- Hosted a private trolley tour for Akron Public Schools Career Day (November 2019)
- City of Akron Christmas Parade – ECO (November 2019)
- Kent State Interview for publication (December 2019)
- All Akron Student Engineering Program Winter STEMfest (December 2019)
- Public Service and AWR! Presentation to new council members (December 2019)
- Interview with WKYC (December 2019)
- Transfer of AWR! Website to a new host (December 2019)
- Released numerous press releases and news stories (July – December 2019)

Copies of presentations and distributed materials are included in Appendix C.

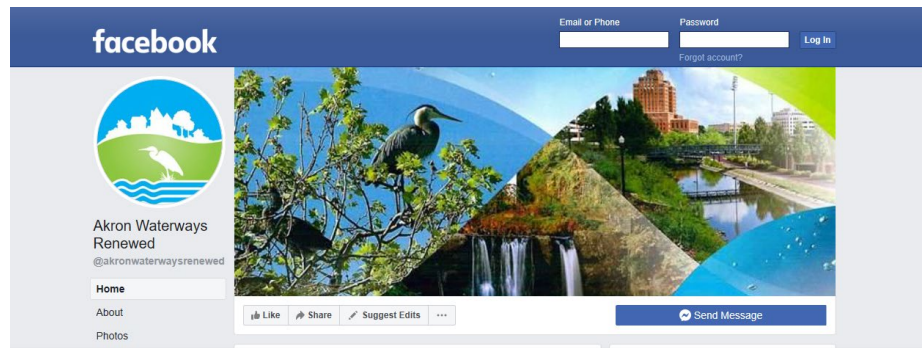
The City of Akron has posted updated program information to the Akron Waterways Renewed (AWR!) website ([www.akronwaterwaysrenewed.com](http://www.akronwaterwaysrenewed.com)). Figure 2-1 is a picture of the home page of the AWR! website.

The City of Akron has also established a Facebook page for the Akron Waterways Renewed! Program. The link for this page is [www.facebook.com/akronwaterwaysrenewed](https://www.facebook.com/akronwaterwaysrenewed). Figure 2-2 represents the Facebook page for the program.

A Twitter account has been established to communicate program updates and general interest topics. The account is @AkronWaterways. Instagram @AkronWaterwaysRenewed has allowed the program to share and showcase the many improvements that are a result of the projects and stakeholder collaborations.



**Figure 2-1 Akron Waterways Renewed Home Webpage**



**Figure 2-2 Akron Waterways Renewed Facebook Page**

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## **Section 3: CMOM, Grease Control, and Emergency Response Programs**

### **3.A *List of all SSO and CSS Releases During Reporting Period***

Appendix D provides a list of SSOs and CSS Releases, including Building/Property Backups, during the reporting period.

### **3.B *System Inspection***

Table 3-1 provides the number of miles and percent of system inspected during the reporting period.

### **3.C *Manhole Inspection***

Table 3-2 provides the number and percent of manholes inspected during the reporting period.

### **3.D *System Cleaning***

The number of miles and percent of system cleaned during the reporting period is provided in Table 3-3.

### **3.E *List of Defects***

The comprehensive list of defects identified in Akron's system, identifying acute defects, and a schedule to repair the defects (including date repaired if the defect has already been repaired) are included in Appendices E and F.



**Table 3-1 System Inspection**

	Current Reporting Period		Previous Year		Previous Five Years		Accumulative Totals	
Period	Miles Inspected	Percentage Inspected	Miles Inspected	Percentage Inspected	Miles Inspected	Percentage Inspected	Miles Inspected	Percentage Inspected
July 1, 2019 – December 31, 2019	85.87	10.21*	170.76	20.31*	754.93	89.79*	840.80	100.00*

\*Based on 840.8 miles in system

**Table 3-2 Manhole Inspection**

	Current Reporting Period		Previous Year		Previous Five Years		Accumulative Totals	
Period	Manholes Inspected	Percentage Inspected	Manholes Inspected	Percentage Inspected	Manholes Inspected	Percentage Inspected	Manholes Inspected	Percentage Inspected
July 1, 2019 – December 31, 2019	1652	8.68*	4049	21.28*	17375	91.32*	19027	100.00*

\*Based on 19027 manholes in system

**Table 3-3 System Cleaning**

	Current Reporting Period		Previous Year		Previous Five Years		Accumulative Totals	
Period	Miles Cleaned	Percentage Cleaned	Miles Cleaned	Percentage Cleaned	Miles Cleaned	Percentage Cleaned	Miles Cleaned	Percentage Cleaned
July 1, 2019 – December 31, 2019	85.87	10.21*	170.76	20.31*	754.93	89.79*	840.80	100.00*

\*Based on 840.8 miles in system

### 3.F Maintenance and Training Activities

- A. Pump station and force main preventive maintenance activities were conducted in accordance with Item 2.E of the approved CMOM program.
- B. 1,652 manholes were inspected during the period beginning July 1, 2019 through December 31, 2019, and fifteen were documented to have signs of heavy infiltration. Those that are confirmed to be in need of repairs will be included in a future capital improvement plan.

**Table 3-4 Manholes Documented with Heavy Infiltration**

<b>Manhole Asset ID</b>	<b>Location</b>
287258	PPN 6730866
289042	SW 7 <sup>th</sup> St & S Kenmore Alley
289791	PPN 6855743
302715	PPN 6804539
303152	PPN 6832313
307605	PPN 1910452
309667	PPN 6702000
309889	PPN 6843062
309890	PPN 6843062
309942	PPN 6702003
310359	PPN 6714038
311132	PPN 6828528
311258	PPN 6860654
312691	PPN 6763111
768671	PPN 6761681

- C. The following sewer construction and rehabilitation projects were completed or are ongoing within the City of Akron during the reporting period:
- a) Sanitary Sewer Reconstruction 2017 (File 2016-018-00)  
To rehabilitate the City's sanitary and combined sewer system, part of the City's annual sewer reconstruction program.
  - b) Hampton Ridge Sanitary Sewer (File 2015-046-01)  
Removal of existing Hampton Ridge Pump Station and replacing approximately 1000 l. f. of gravity sanitary sewer.
  - c) Villages at Sycamore Ph. 1 (File 2019-027-00)  
This is a new residential development off Akron Peninsula Road. New sanitary and storm sewers along with curb, asphalt and grading.
  - d) Firestone Business Park (File 2017-013-01)  
New roadway to serve as extension of Cole Avenue to the west. Improvements will include asphalt pavement, concrete curb, concrete sidewalk, storm and sanitary sewers, water mains, streetlights and other private underground utilities.

- D. Root control program activities were conducted in accordance with Item 2.K of the approved CMOM program. As a component of the Accelerated Cleaning and Inspection Program, the Root List requires more frequent attention than the system wide maintenance activities. The City's approach is to inspect each of these root list locations on a modified schedule, and provide cleaning only when it is determined those pipes are in need of maintenance.
- E. Training activities were conducted on the following topics. Date of training and number of employees receiving training are indicated in Table 3-5.

**Table 3-5 Training Activities**

<b>Date</b>	<b>Course Title/Description</b>	<b>Number of Employees</b>
7/23/2019	Heat Stress Safety	22
7/25/2019	Green Infrastructure Life Cycle: Performance, Costs and Maintenance	1
8/6/2019	New Employee Training	1
8/8/2019	The Fundamentals of Predictive Maintenance - Finding Problems Before You See Smoke	1
8/26/2019	Confined Space Safety	31
9/10/2019	Fire Extinguisher Safety	32
10/10/2019	Predictive Maintenance Part Two - The Application of Condition Monitoring	1
10/29/2019	Hazard Communication	37
11/19/2019	Cold Weather Safety	31
11/20 & 12/4/2019	ALICE Training	26
11/22/2019	Snow & Ice	18
12/10/2019	IDDE (Illicit Discharge Response)	33

### **3.G Grease Control Program**

In accordance with Grease Control provisions in the approved CMOM program, this program includes inspection and/or cleaning of the known FOG trouble locations, part of the Accelerated Cleaning and Inspection Program, on what was previously called the “Speed Rodder List.”

#### **3.G.1 List of SSO and CSS Releases Caused by Fats, Oils, and Grease (FOG)**

There were no SSO/CSO releases caused by FOG during this reporting period.

#### **3.G.2 List of FOG Locations**

A complete list of FOG Locations inspected and/or cleaned during the reporting period is included in Appendix G.

As stated in previous Semi-Annual Reports, to optimize the current schedule for the cleaning of locations suspected to have recurring grease accumulation, in 2013, the City began the CCTV inspection of each grease location on or around the next scheduled cleaning cycle to determine if significant grease accumulation has occurred. Based on the findings of the CCTV inspection, the frequency of cleaning at each grease location is adjusted accordingly. With the improvements initiated to control FOG at the source, it is anticipated that scheduled cleaning will be less efficient than periodic inspection, and cleaning only when needed.

#### **3.G.3 FOG Education Efforts Undertaken During Reporting Period**

The following educational efforts were undertaken and completed during the reporting period:

- A. The City of Akron developed a website (<https://www.akronohio.gov/>) which includes a FOG page (<https://www.akronohio.gov/cms/site/FOG/index.html>) identifying the effects of fats, oils, and grease discharged into the sewer system and things property owners can do to prevent aforementioned discharges.
- B. Akron Waterways Renewed Team developed a Program website (<http://akronwaterwaysrenewed.com>) which includes a link to the City’s educational FOG brochure, among the topics covered was that of the proper handling of fats, oils, and grease.

### **3.H Green Infrastructure Performance Reporting**

Green Infrastructure Performance Reporting can be found in Appendix H.

## Section 4: Mud Run Pump Station

### 4.A Status of Mud Run Study and Report of Findings

<b>Status of Study and Report of Findings</b>	No activity during this reporting period. The Report of Findings was submitted to USEPA on January 15, 2012.
<b>Date of Report Completion</b>	No activity during this reporting period. Report of Findings submitted on January 15, 2012, per the Consent Decree.
<b>Project Cost Incurred During Reporting Period</b>	Report complete. No costs incurred during the reporting period.

### 4.B Status of Mud Run Pump Station Remedial Report

<b>Status of Remedial Report</b>	The Remedial Report is complete.
<b>Date of Report Completion</b>	The Remedial Report was completed on October 15, 2012. Additional comments were received after completion and were included in the revised Remedial Report submitted on August 13, 2013. Final written approval dated February 26, 2014 was received via email on March 3, 2014.
<b>Project Cost Incurred During Reporting Period</b>	Report complete. No costs incurred during the reporting period.

### 4.C Status of Mud Run Pump Station Design and Construction of Projects

<b>Projects Status</b>	Table 4-1 shows the current status of the Mud Run Pump Station design projects. Table 4-2 shows the current status of the Mud Run Pump Station construction projects.
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**Table 4-1 Status of Mud Run Pump Station  
Design Projects**

<b>Project</b>	<b>Status</b>
Mud Run Trunk Sewer Lining	Design complete
Sevilla Trunk Sewer Reconstruction	Design complete
Mud Run Pump Station Improvements	Design complete
Mud Run Storage Basin Improvements	Design complete
Mud Run District Capacity Improvements	Design complete
Mud Run District Infiltration/Inflow Improvements	Design complete

**Table 4-2 Status of Mud Run Pump Station  
Construction Projects**

<b>Project</b>	<b>Status</b>
Mud Run Trunk Sewer Lining	Construction is 100% complete
Sevilla Trunk Sewer Reconstruction	Construction began April 16, 2019
Mud Run Pump Station and Storage Basin Improvements***	Construction is 100% complete
Mud Run District Capacity Improvements***	Construction is 100% complete
Mud Run District I/I Repairs	Construction is 100% complete
Mud Run District I/I Rehabilitation	Construction is 100% complete
NOTE: *** projects indicate those required for CD compliance.	

Construction of the Mud Run Pump Station and Storage Basin is complete.

Mud Run District I/I Repairs is complete.

Mud Run District I/I Rehabilitation is complete.

The Mud Run District Capacity Improvements project is complete.

**Anticipated Date  
of Report  
Completion**

The Report of Findings was completed on January 15, 2012. The Remedial Report was submitted on August 13, 2013. Approval of the Remedial Report was issued on February 26, 2014. On October 31, 2014, a letter was issued by USEPA that agrees to extend the October 15, 2015 construction deadline set forth in paragraph 25 of the Consent Decree to January 8, 2016 in order to construct and achieve full operation of the projects approved under the Mud Run Pump Station Remedial Report. The projects marked with \*\*\* will require an Achievement of Full Operation date of January 8, 2016 to be in compliance with the Consent Decree. The other projects are not required to be completed by January 8, 2016 since the anticipated I/I reductions were not used in determining the required storage basin capacity to meet the Consent Decree requirements.

**Project Cost  
Incurred During  
Reporting Period**

Mud Run District Capacity Improvements - \$0.00  
Mud Run Pump Station & Storage Basin - \$1,788.13  
Mud Run District I/I Repairs - \$0.00  
Mud Run District I/I Rehabilitation - \$0.00  
Sevilla Trunk Sewer Reconstruction - \$85,133.31

## Section 5: Supplemental Environmental Project

The City's third and final payment to the Supplemental Environmental Project (SEP) escrow account was made during the January – July 2011 reporting period. At the request of the State of Ohio, the City transferred the funds in the SEP escrow account (\$905,972.49) to the Friends of the Crooked River, via wire transfer. The wire transfer occurred on October 13, 2017, and the State of Ohio was provided with confirmation of the wire transfer. The City is not required to do anything further regarding the SEP.

## Section 6: Other Necessary Information

On October 31, 2014, U.S. EPA and Ohio EPA approved the City's request to remove certain manholes and sewer segments from the City's CMOM inspection and cleaning program. The list included three sewer segments that are tributary to the Ohio Canal Interceptor, and were scheduled to be abandoned at the time that the OCIT becomes operational. (Subsequent to receiving the October 31, 2014, letter, the City renumbered segment ID 367480 to 755830.) Page 3 of the letter includes the following provision related to the three specific sewer segments that are tributary to the Ohio Canal Interceptor:

If the City chooses not to abandon or eliminate these sewers by December 31, 2018, you must notify EPA and OEPA of this decision in writing, and you will have to inspect, clean, provide a conditional assessment and correct deficiencies in compliance with Attachment C, Section 2 of the CD no later than April 30, 2019.

The City is unable to abandon these segments until the OCIT project has been completed and the tunnel is operational. The City submitted its original request to remove these segments from the CMOM inspection and cleaning cycle because these segments carry high velocity flows that prevent the City from inspecting and cleaning the segments. Due to the high velocity flows, it is believed that these sewer segments are self-cleaning.

The City fully intends to abandon at least two of these segments at the time the OCIT tunnel comes operational. It is possible that the City may determine not to abandon Segment 368243. If the City decides not to abandon this segment, it will notify both U.S. EPA and Ohio EPA of this decision, and the City will also inspect and, to the extent necessary, clean this segment within four months of the date that the OCIT becomes operational. Notably, after the OCIT becomes operational, this segment will no longer be transporting high velocity flows and, therefore, the City will no longer be prevented from inspecting and cleaning this segment.