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July 30, 2021

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Subject: Quarterly Report 63
Civil Action No. 3:08-cv-00608-CRS

Attention Director and Chiefs:

Please find attached our Quarterly Report, prepared in accordance with Paragraph 29 of our Amended Consent Decree. This report is for the period April 1, 2021 – June 30, 2021, pertaining to Consent Decree compliance activities. Included are sections on Project WIN activities related to: NMC, SORP, Discharge Abatement Plans, Public Outreach, Education, Notification and Participation, CMOM and Performance Overview.

I certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have questions or need additional information, please contact me at (502) 540-6136.

Sincerely,

Angela Akridge, PE
Louisville MSD Chief Strategy Officer for Business Transformation and Regulatory Compliance

cc: James A. Parrott
Jacquelyn Quarles
File

Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #63



Reporting Period:

April 1, 2021 through June 30, 2021

Submitted To:

Kentucky Department of Environmental Protection
United States Environmental Protection Agency
United States Department of Justice

Submitted By:

Louisville and Jefferson County Metropolitan Sewer District
700 W. Liberty Street
Louisville, Kentucky 40203-1911

Submittal Date:

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INTRODUCTION

The Louisville and Jefferson County Metropolitan Sewer District (MSD) is currently under an Amended Consent Decree with the Kentucky Department of Environmental Protection (KDEP), the United States Environmental Protection Agency (EPA), and the United States Department of Justice. The Amended Consent Decree was signed by United States District Judge Simpson on April 10, 2009 and filed in United States District Court, Western Division of Kentucky, Louisville Division, on April 15, 2009.

Quarterly Reporting Period

This is the Sixty-third Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from April 1, 2021, through June 30, 2021. The structure for this report is outlined as follows:

Section 1: Project Waterway Improvements Now (WIN) Performance Overview – This section provides an accounting of unauthorized discharges from the separate sanitary and combined sewer systems, and the estimated volumes along with performance information on bypasses at WQTCs. A discussion of the probable reductions in both unauthorized discharge points and the discharges from MSD's Combined Sewer Overflow (CSO) locations, identified in the Morris Forman Water Quality Treatment Center Kentucky Pollutant Discharge Elimination System (KPDES) permit, that are expected to result from MSD's projects and activities during the reporting period are also contained in this section.

Section 2: Program Activities for Nine Minimum Controls (NMC)– This section describes the data collected for NMC 2 – Maximization of Storage in the Collection System, and NMC 4 – Maximization of Flow at the Morris Forman Water Quality Treatment Center (WQTC) that were active during the reporting period.

Section 3: Program Activities for Sewer Overflow Response Protocol (SORP) – This section describes the training attendance records, overflow data, and overflow reconnaissance inspection routes related to SORP that were active during the reporting period.

Section 4: Program Activities for Discharge Abatement Plans (DAP) – This section describes the schedule and status for projects related to the DAP by means of an updated Gantt chart for active DAP projects during the reporting period. This section also includes the anticipated projects and activities that are scheduled for continued compliance with the Amended Consent Decree.

Section 5: Program Activities For Public Outreach, Education, Notification and Participation – This section describes the activities related to public outreach that were active during the reporting period.

Section 6: Capacity Management Operations and Maintenance (CMOM) Report – The CMOM program activities and programmatic activities for WQTCs generating capital projects are reported in a Gantt chart for the reporting period. This section also includes the schedule for activities planned for the next reporting period for continued compliance with the Amended Consent Decree.

SECTION 1: PROJECT WATERWAY IMPROVEMENTS NOW (WIN) PERFORMANCE OVERVIEW

1.1. COMBINED SEWER OVERFLOW REDUCTION AND SANITARY SEWER OVERFLOW ABATEMENT ACTIVITIES

The following sections outline the activities performed during the reporting period to reduce or control CSOs and eliminate SSOs.

1.1.1. SANITARY SEWER OVERFLOW ELIMINATION ACTIVITIES

Refer to Section 4.4.1 for Final SSDP project updates.

1.1.2. COMBINED SEWER OVERFLOW REDUCTION AND CONTROL ACTIVITIES

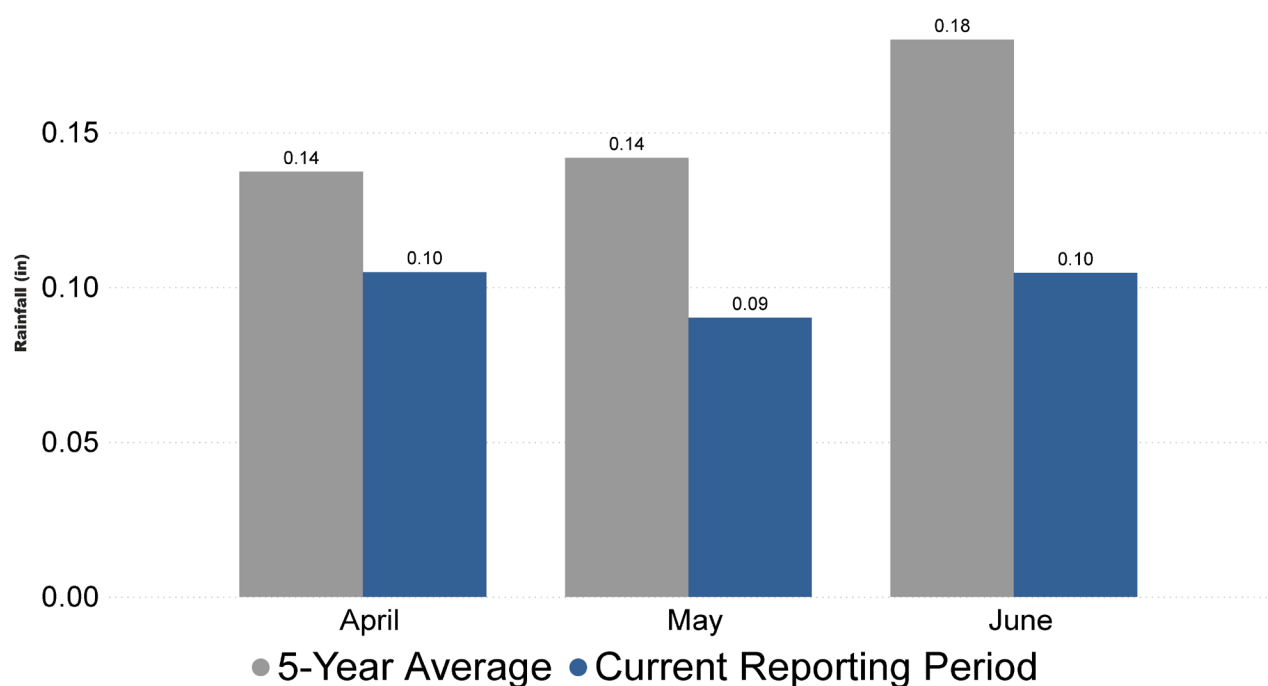
Refer to Section 4.4.2 for CSO LTCP project updates.

1.2. SYSTEMWIDE PERFORMANCE

1.2.1. RAINFALL

The number and the volume of wet weather overflows are directly related to the amount of rain that has fallen during the reporting period. Figure 1.1 shows the service area daily average rainfall amounts for each month of the last quarter, compared with the average of the daily average rainfall for the previous five years. Data was pulled from MSD's rain gauge network. Daily average rainfall was below average for April, May and June when compared with the previous 5-year average for these months.

Figure 1.1. Daily Average Rainfall by Month



1.3. WATER QUALITY TREATMENT CENTER PERFORMANCE

1.3.1. BYPASSES

There were zero bypass events that occurred during this reporting period. Any details are included in Appendix A-1. Each quarter when bypasses occur, an assessment of bypasses is conducted to determine root cause of the bypass, the failure category, corrective actions to be taken, possible programmatic solutions, and corrective action completion date.

1.3.2. JEFFERSONTOWN WATER QUALITY TREATMENT CENTER

A letter dated December 23, 2015, certified the elimination of Jeffersontown WQTC. Inspections were conducted upstream of what was previously Jeffersontown WQTC Headworks during the reporting period. There were no overflows reported as a result of these inspections. Refer to Section 3.2 for SSO Route information.

1.3.3. PHOSPHORUS MONITORING AT THE PROSPECT WQTCs

An elimination plan for the five WQTCs serving Prospect (Timberlake, Hunting Creek North, Hunting Creek South, Ken Carla, and Shadow Wood) was submitted to EPA/KDEP on March 31, 2009. Approval of this plan was received on September 24, 2009, and work is now complete. A certification letter dated December 15, 2015, was submitted finalizing the completion of the project.

1.4. COMBINED SEWER OVERFLOW PERFORMANCE

1.4.1. AUTHORIZED DISCHARGES – WET WEATHER CSOs

The observed CSO data for the reporting period for each monitored overflow has been tabulated, along with rainfall information from the nearest rain gauge to facilitate review of the overflows that occurred. This data is included as Appendix B.

1.4.2. UNAUTHORIZED DISCHARGES – DRY WEATHER CSOs

There were two dry weather overflow reported at a CSO during the reporting period. Any details are included in Appendix A-2. MSD records information related to dry weather overflows from permitted combined sewer overflow outfalls. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. A detailed report of these overflows will be included in the Annual Report for the current reporting period.

1.5. COLLECTION SYSTEM OVERFLOW PERFORMANCE

1.5.1. UNAUTHORIZED DISCHARGES TO WATERS OF US

MSD recorded information related to overflows reaching Waters of the United States (WUS) for the reporting period. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. Details of these overflows are included in Appendix A-3. During this quarter, 9 unauthorized discharges to WUS were reported, as summarized in Table 1.1.

Table 1.1. Dry and Wet Weather SSOs by Cause – Unauthorized Discharges to Waters of US

PROBLEM	DRY WEATHER	WET WEATHER
LACK OF SYSTEM CAPACITY	0	5
OBSTRUCTION-NOT GREASE / ROOTS	4	0

MSD recorded information related to overflows to the ground that did not reach Waters of the United States for the reporting period. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows will be included in the Annual Report for the reporting period.

1.5.2. OVERFLOWS TO INTERIOR

MSD recorded information related to overflows to building interiors for the reporting period. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows, that are the result of an issue in the main line, will be included in the Annual Report for the reporting period.

1.6. GRAVITY LINE PREVENTIVE MAINTENANCE (GLPM)

Each quarter, data and statistics relating to the cleaning, inspection and maintenance of sewer assets performed under the Gravity Line Preventive Maintenance program are reported. Data for the current reporting period is shown in Figure 1.2 through Figure 1.4.

Targets, indicated by a blue line on the gauges in Figure 1.2 and Figure 1.3 have been developed for structured work only, which includes any preventive or predictive activities that are routinely scheduled to maintain asset condition and decrease its likelihood of failure. Corrective maintenance activities are shown in Figure 1.4 and include those activities performed as a reaction to correct asset deficiencies, whether identified through structured work or from outside the program, and do not have associated targets.

Figure 1.2. Catch Basin Cleaning

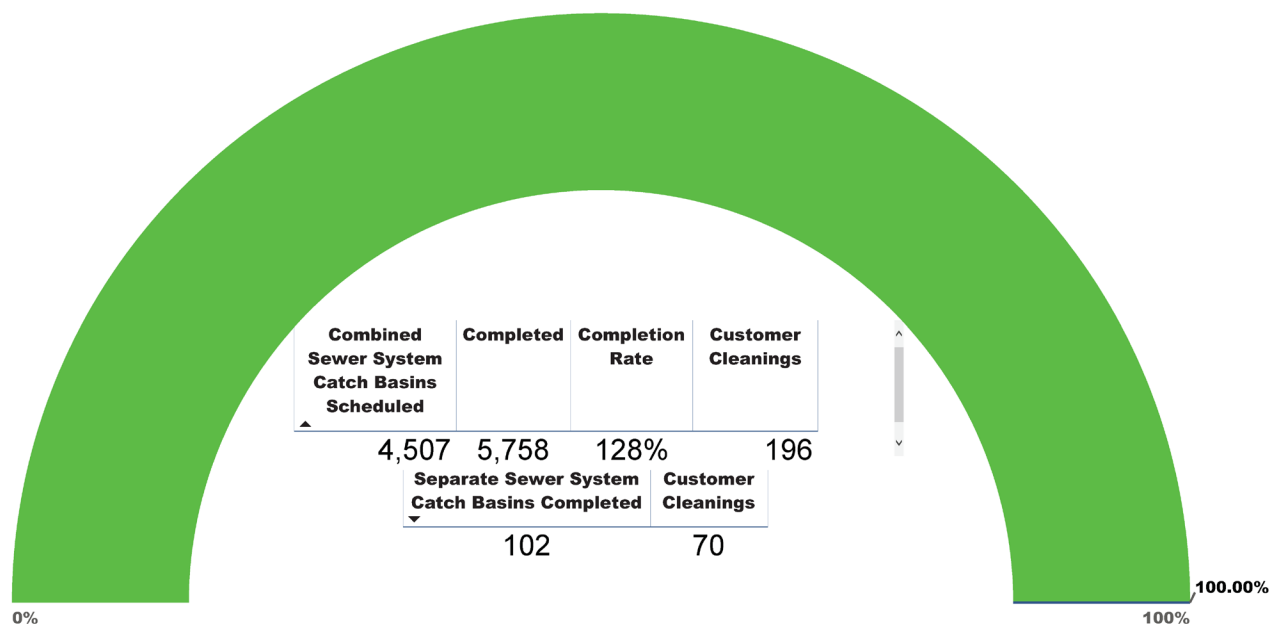


Figure 1.3. CSO Inspections and Cleaning

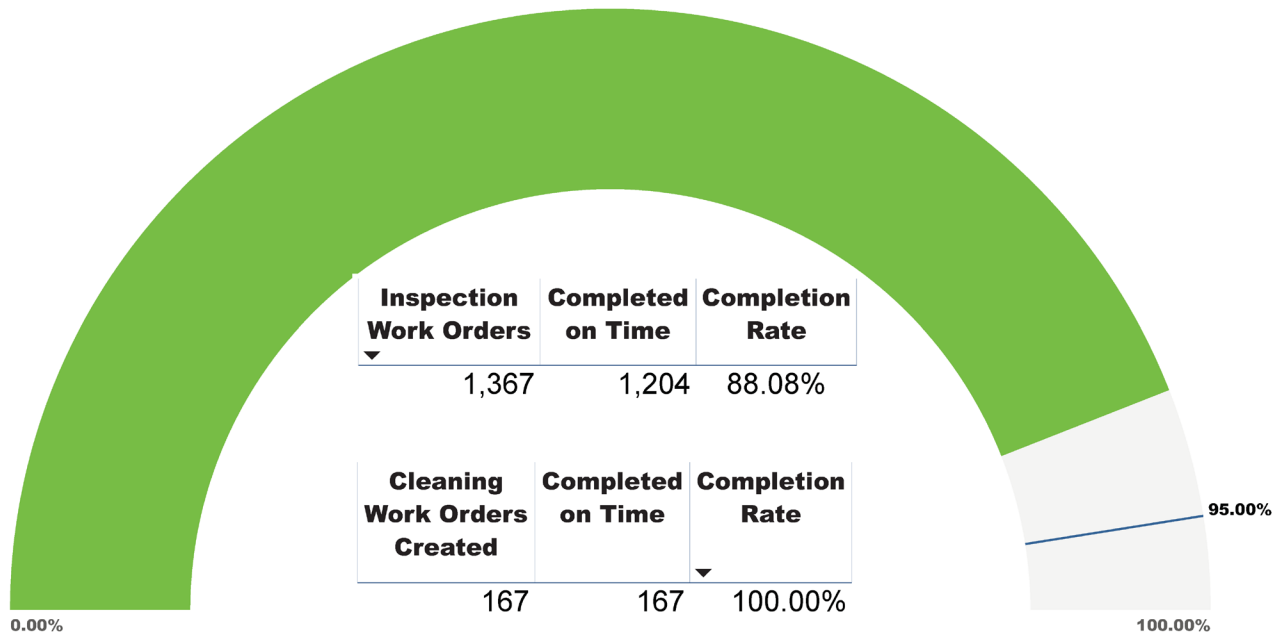
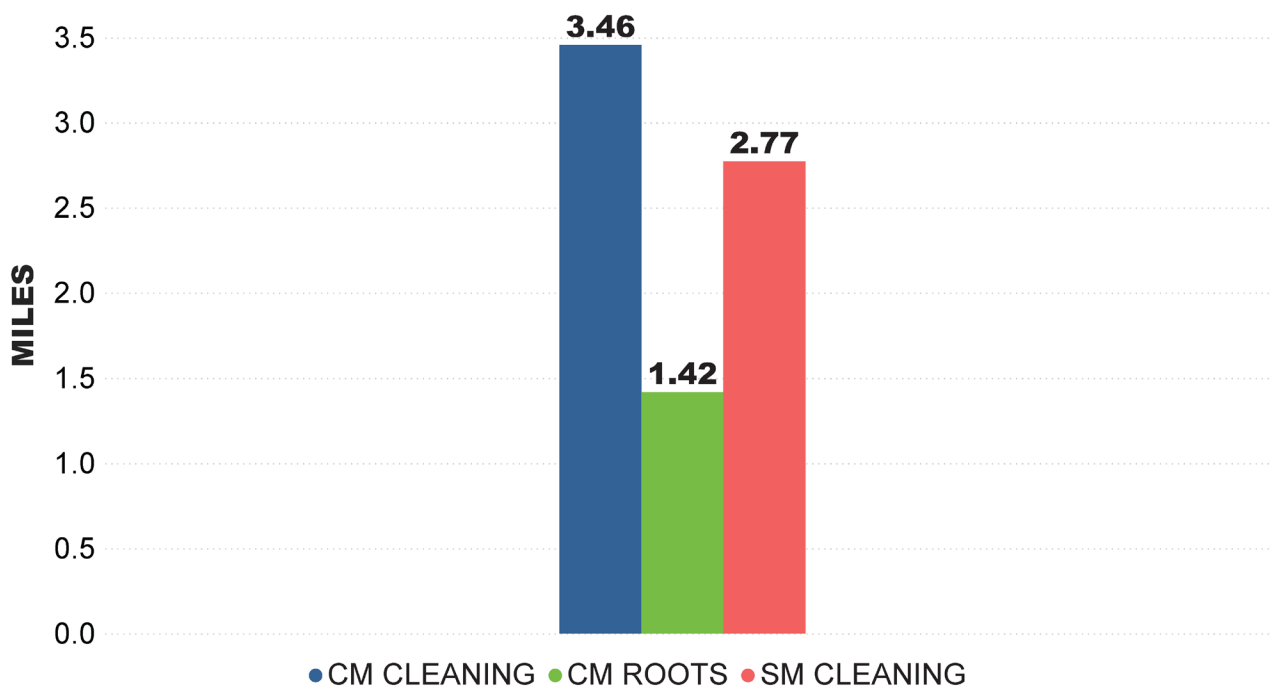


Figure 1.4. Gravity Main Cleaning



SECTION 2: PROGRAM ACTIVITIES FOR NINE MINIMUM CONTROLS (NMC)

2.1. NINE MINIMUM CONTROLS PROGRAM BACKGROUND

Per Paragraph 24.a. of the Amended Consent Decree, the Nine Minimum Controls (NMC) Compliance Report was initially submitted to EPA and KDEP on February 10, 2006. MSD received approval of the report on February 22, 2007. The approved NMC compliance document can be viewed on the MSD Project Waterway Improvements Now (WIN) website, available at www.msdprojectwin.org. Highlights of the NMC program implementation over this reporting period are outlined below.

2.2. NMC 2: MAXIMIZATION OF STORAGE IN THE COLLECTION SYSTEM

MSD has continued operation of the Real Time Control (RTC) system. During this reporting period, approximately 1,022.93 MG were stored in the system during rain events and routed to the Morris Forman WQTC once the system was able to handle the flow. See Table 2.1 at the end of this section for a detailed report.

The following identifies on-going activities; those completed during the current period; and those anticipated to be completed during the next period:

RTC Integration

- Continued to implement the wet weather standard operating procedures (SOPs) incrementally, starting with a period of manual operation to validate the control assumptions, followed by increasing levels of system automation as the automated controls for individual components are implemented, validated, and then incorporated into the overall RTC system.
- Continued to monitor and evaluate the performance of the RTC system against operational objectives and issue updates to configurations and site tuning as necessary to improve performance of the recently integrated facilities and Csoft4.
- Began review of the draft master programming guide for RTC facilities. The guide documents existing programming and parameters at each facility as a reference to ensure long term continuity of the RTC system.
- Continued updates to the master RTC SOP manual based on comments received, changes to facility operations, and continue preparation of the Rowan PS SOP.
- Began operating the Portland CSO Basin within the RTC system.
- Continued updating Csoft configurations to integrate the Logan CSO Interceptor instruments into RTC.
- Began developing an RTC flood mode for facilities along the Ohio River influenced by high river levels.

During the next reporting period, MSD will:

- Continue implementing RTC SOPs and validating operations.
- Continue preparing the Rowan PS SOP in advance of integrating the facility into RTC.
- Continue reviewing and updating the master programming guide.
- Continue developing an RTC flood mode for facilities along the Ohio River influenced by high river levels.

RTC Performance Assessment and Improvements

- The main objective of the RTC performance assessment is to determine whether the available flow and storage capacities within the system are utilized to their optimal potential. MSD staff continues to review and prioritize strategies for performance improvement. During the next reporting period, MSD staff and the

RTC consultant will continue to implement hardware, software, and set-point changes as applicable on a site-by-site basis.

- Initiated a review of gate operations at the Southern Outfall Retention #1 (SOR1) facility to identify the cause of excessive gate movements, actuator failures, and excessive stem nut wear to identify modes of failure and improve reliability of operations.
- Identified unnecessary linkages in local programming that prevents automated filling of the Southwestern Parkway CSO Basin when dewatering instrumentation used by RTC is producing invalid data. Corrections to the local programming were prepared for implementation.
- Continued implementing revised TAG transfer protocols enabling a portion of the RTC data to bypass iFix and be directly gathered from MSD's Industrial Gateway Server (IGS) OLE for Process Control server to improve reliability of the tag data transfer process and deployed a Csoft update to accommodate the longer IGS TAG names.
- Continued recalibrating the Main Diversion Structure (MDS) Gate 1 flow under the gate equation using flow data from the related downstream flow meter to improve low flow calculated values.
- Began preparing two stage lockup table based on flow depth data to provide redundant flow rate data for Gate 3 and 7 at the Southwestern Parkway CSO Basin to allow dewatering to occur when velocity data is invalid. Identified a connection to the SOBA that could be used for installing a level instrument at Gate 7.
- Continued developing a real time validation routine for level instrumentation at the MDS and Southern Outfall Retention 1 facilities to improve RTC data and identify maintenance issues.
- Implemented programming to address inconsistencies that cause a critical alarm associated with a regulator dysfunction at Logan CSO basin and the Southwestern Parkway CSO Basin due to interceptor surcharging.
- Identified oscillation of the SOR1 gates related to the rate of rise rule and began developing adjustments to improve the response to rapid rise in levels.
- Identified early dewatering of the Portland CSO Basin not in line with RTC inputs and began review of programming to identify cause.
- Began developing standard procedures for production of CSO and storage related tables for used by MSD to report information and identifying improvements to related calculations for incorporation into the Hydroweb dashboard. Implemented improved volume calculation for storage basins in the Hydroweb dashboard.
- Began working with new rainfall and forecast provider, Vieux, to transfer rainfall data and weather prediction with extended horizon to the RTC system.

During the next reporting period, MSD will:

- Continue to monitor the RTC system to ensure proper operation and further refine operations of the RTC system as performance issues are observed.
- Continue to refine the local site tuning of RTC facilities as needed based on performance during varying rain events.
- Continue to improve and automate operations of the facilities integrated into the system.
- Continue development of the Hydroweb dashboard.
- Continue evaluating and begin implementation of means to provide redundant flow rate data for Gate 3 and 7 at the Southwestern Parkway CSO Basin to allow dewatering under RTC control to occur when flow meters are out of service or invalid.

-
- Continue developing and deploy the real time validation routine for level instrumentation at the MDS and Southern Outfall Retention 1 facilities to improve RTC data and identify maintenance issues.
 - Continue to recalibrate the MSD gate 1 flow under the gate calculation.
 - Continue working with Vieux to incorporate rainfall data and extended forecasts into RTC.
 - Continue review of SOR1 gate operations to develop and implement actions to improve reliability of gate operations.

2.3. NMC 4: MAXIMIZATION OF FLOW AT THE MORRIS FORMAN WATER QUALITY TREATMENT CENTER

Plant Outage

The East and West Headworks were in service during the reporting period. Channels were taken out of service due to low flow as appropriate. The Final Effluent Pump Station (FEPS) was in service 6 days of the reporting period, limiting plant flow to 205 MGD. Flows at Morris Forman WQTC were sustained between 70 and 150 MGD, with some exceptions discussed below, before allowing flow to bypass secondary treatment during wet weather. Flows are shown in Figure 2.1 through Figure 2.3.

Morris Forman WQTC Projects

- Bells Lane Wet Weather Treatment Facility (WWTF) Peracetic Acid (PAA) System – Design was completed and project was advertised to bid.
- Bells Lane WWTF Polymer Feed System Improvements - Design was completed and project was advertised to bid.
- Administration Building Roof Replacement - Project was designed and began construction.
- Administration Building Exterior Repairs – Project design was completed and project advertised to bid.
- Biosolids Management Solutions –The Request for Proposals was released.
- Administration Building Chiller Addition - Project construction was nearly completed.
- Dewatered Sludge Cake Pump Phase II - Project construction was completed.
- Final Effluent Pump Station VFDs – Project began construction.
- Groundwater Wells Study - Study was completed, additional work to define scope for design began.
- Headworks & Dumpster Bldg Structural & Primary Blower Bldg Stair Repairs - Project construction was completed.
- Louisville Green Dryer Replacements - Construction underway through the year.
- Main Equipment Building and Administration Building Elevators Repair - Project began construction.
- Primary Sedimentation Basin Project - Project design was completed and project advertised to bid.
- Radio Repeater Project – Project design was completed and project advertised to bid.
- Sewer and Manhole Condition Assessment and Repair - Project began construction.
- Sodium Hypochlorite Building Relocation – Project design was completed and project advertised to bid.

- Southwest Pump Station (SWPS) Gas Monitoring and Splitter Structure 1 Odor Control - Project design underway.
- SWPS Site Security - Project advertised to bid.

Morris Forman WQTC Performance

Figure 2.1 through Figure 2.3 illustrate performance in maximizing flow during wet weather to Morris Forman WQTC. The top of the chart shows rainfall in inches per day. The middle part of the chart shows Morris Forman WQTC effluent flow and secondary treatment flow. The difference between these flows is the secondary bypass flow. The bottom of the chart shows days with a CSO activation at the five CSOs in the vicinity of the Morris Forman WQTC (CSOs 015, 016, 191, 210, and 211).

Note that the flow meter downstream from CSO211 is known to be affected by Ohio River backwater effects and the ultrasonic signal is sometimes blocked by mist and condensation when air and sewage temperatures are significantly different. Therefore, CSO activations at CSO211 are keyed to water levels upstream and downstream of the inflatable dam in the Main Diversion Structure. The other CSO activations are tied to flow measurement downstream of the respective CSO. At times, “blips” representing very small volumes of overflow are indicated by flow meters even though an overflow cannot be verified by level measurements or other indicators. These blips are not reported as overflows, but are noted in the CSO monitoring data reported in Appendix B. In addition, indications of rainfall and CSO activations are shown on the day they happened, but are not aligned with the exact time, so the effluent flow graph (which is tied to actual time) may show peaks that are offset from the indicated rain or CSO events by as much as 24 hours. Graphical issues with the report this reporting period show instances with CSO activations and secondary bypass flow but no rainfall; however each of these instances has been confirmed to have been during wet weather, and MSD is working with the vendor to address the issue.

Morris Forman effluent compliance for the previous three months is summarized in Table 2.3 where a “©” indicates compliance and an “X” indicates noncompliance. MSD continues to employ additional solids processing methods, including dewatered cake, an outside vendor to assist with solids handling in addition to purchasing additional liquid oxygen, and dewatering of regional solids at Derek R. Guthrie WQTC in an effort to meet permit requirements.

NMC ACTIVITY SCHEDULE

NMC capital project milestones for the current reporting period as well as a look-ahead for the upcoming reporting period are provided in Figure 2.4.



Table 2.1. Wet Weather Storage in the Morris Forman Sewer System via the RTC System

EVENT NUMBER	START DATE	END DATE	DURATION	AVG TRFD (IN) 1	MAX TRFD (IN) 2	MAX RAIN GAUGE	TOTAL (MG)	BELLS LANE (MG)	SWPS SG CHAMBER (14.25 MG)	SWOR2 (4.1 MG)	BL AND EI STORAGE (21.5 MG)	ASHLAND GATE (1.0 MG)	OHIO RIVER INTERCEPTOR (1.8 MG)	SOR1 (14.05 MG) 3	SOBA BASIN (20 MG)	SOBA WO (0.94 MG) 4	SOBA NWI (3.87 MG) 5	POBA (6.8 MG)	CLIFTON (6.9 MG)	LOGAN (17.0 MG)	SNEADS BRANCH (2.5 MG)	NGPS (8.0 MG)	NDDV (MG)	HIGH RIVER LEVELS	DESCRIPTION
2021-025	2021-03-30 09:55 PM	2021-04-01 11:05 AM	37:10	0.92	1.13	TR14	187.92	55.60	12.40	1.50	14.75	0.95	1.35	10.65	6.80	0.00	2.30		3.10	12.45	1.50	0.15	64.42	No	Large wet weather event homogeneously distributed across the collection system.
2021-027	2021-04-07 05:55 PM	2021-04-10 09:45 AM	63:50	0.47	0.92	TR04	92.10	44.93	9.80	0.55	4.40	0.65	1.30	9.60	10.50	0.20	0.00		0.40	2.85	0.00	0.20	6.71	No	Moderate wet weather event heterogeneously distributed across the collection system.
2021-028	2021-04-10 09:45 AM	2021-04-11 02:10 PM	28:25	0.61	0.94	TR12	45.66	13.99	3.75	0.70	5.05	0.00	2.25	2.50	0.00	0.00	0.00		2.70	5.75	0.05	0.25	8.68	No	Moderate wet weather event heterogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-029	2021-04-11 02:10 PM	2021-04-12 08:10 PM	30:00	0.13	0.18	TR04	2.70	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00		1.40	0.00	0.70	0.00	0.05	No	Small wet weather event homogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-031	2021-04-20 09:20 PM	2021-04-22 01:00 AM	27:40	0.28	0.42	TR11	3.80	1.92	0.00	0.50	0.70	0.00	0.65	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.03	No	Small wet weather event homogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-032	2021-04-24 12:20 PM	2021-04-25 06:00 AM	17:40	0.28	0.35	TR04	4.23	1.69	0.00	0.60	0.50	0.00	0.60	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.84	No	Small wet weather event homogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.

2.1 Wet Weather Storage in the Morris Forman Sewer System via the RTC System

EVENT NUMBER	START DATE	END DATE	DURATION	AVG TRFD (IN) 1	MAX TRFD (IN) 2	MAX RAIN GAUGE	TOTAL (MG)	BELLS LANE (MG)	SWPS SG CHAMBER (14.25 MG)	SWOR2 (4.1 MG)	BL AND EI STORAGE (21.5 MG)	ASHLAND GATE (1.0 MG)	OHIO RIVER INTERCEPTOR (1.8 MG)	SOR1 (14.05 MG) 3	SOBA BASIN (20 MG)	SOBA WO (0.94 MG) 4	SOBA NWI (3.87 MG) 5	POBA (6.8 MG)	CLIFTON (6.9 MG)	LOGAN (17.0 MG)	SNEADS BRANCH (2.5 MG)	NGPS (8.0 MG)	NDDV (MG)	HIGH RIVER LEVELS	DESCRIPTION
2021-033	2021-04-28 03:25 PM	2021-05-02 03:15 PM	95:50	1.39	1.80	TR13	189.13	61.02	20.00	2.00	13.20	0.55	3.85	14.85	0.00	0.00	3.25		6.05	16.70	0.75	0.85	46.06	No	Large wet weather event heterogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-034	2021-05-02 11:30 PM	2021-05-03 06:45 PM	19:15	0.40	0.85	TR15	24.60	11.12	2.20	0.50	3.35	0.00	1.15	0.75	0.00	0.00	0.00		0.55	2.95	0.20	0.00	1.83	No	Moderate wet weather event heterogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-035	2021-05-04 06:15 AM	2021-05-06 05:05 PM	58:50	0.99	1.52	TR14	135.12	36.93	15.90	2.95	13.30	0.95	2.80	10.90	0.00	0.00	0.75		2.35	9.85	0.65	0.65	37.13	No	Large wet weather event heterogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-037	2021-05-09 10:30 AM	2021-05-09 10:10 PM	11:40	0.31	0.38	TR11	16.62	5.67	1.55	0.55	1.75	0.00	1.35	2.05	0.00	0.00	0.00		0.40	1.65	0.20	0.00	1.45	No	Small wet weather event homogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-039	2021-05-26 11:00 AM	2021-05-27 03:55 PM	28:55	0.75	1.02	TR14	61.86	19.72	9.60	0.80	8.90	0.65	1.20	12.30	0.00	0.00	0.00		1.00	0.00	0.50	0.05	7.14	No	Moderate wet weather event heterogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.



2.1 Wet Weather Storage in the Morris Forman Sewer System via the RTC System

EVENT NUMBER	START DATE	END DATE	DURATION	AVG TRFD (IN) 1	MAX TRFD (IN) 2	MAX RAIN GAUGE	TOTAL (MG)	BELLS LANE (MG)	SWPS SG CHAMBER (14.25 MG)	SWOR2 (4.1 MG)	BL AND EI STORAGE (21.5 MG)	ASHLAND GATE (1.0 MG)	OHIO RIVER INTERCEPTOR (1.8 MG)	SOR1 (14.05 MG) 3	SOBA BASIN (20 MG)	SOBA WO (0.94 MG) 4	SOBA NWI (3.87 MG) 5	POBA (6.8 MG)	CLIFTON (6.9 MG)	LOGAN (17.0 MG)	SNEADS BRANCH (2.5 MG)	NGPS (8.0 MG)	NDDV (MG)	HIGH RIVER LEVELS	DESCRIPTION
2021-040	2021-05-27 03:55 PM	2021-05-30 08:20 PM	76:25	0.18	0.58	TR05	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.25	0.00	0.00	0.17	No	Small wet weather event homogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-041	2021-06-01 05:30 PM	2021-06-05 10:45 AM	89:15	1.63	2.59	TR11	188.12	56.78	23.95	3.85	20.70	1.05	1.95	18.95	0.00	0.00	0.00		3.25	15.45	1.65	1.40	39.14	No	Very large wet weather event heterogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-042	2021-06-06 06:45 AM	2021-06-09 08:55 AM	74:10	0.86	1.06	TR11	61.35	20.70	9.85	2.00	13.20	0.00	2.50	4.85	0.00	0.00	0.00		0.75	3.25	1.85	0.05	2.35	No	Large wet weather event heterogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
2021-045	2021-06-11 11:50 AM	2021-06-12 02:20 AM	14:30	0.10	0.15	TR13	2.30	0.00	0.00	0.20	0.25	0.00	0.75	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.05	No	Small wet weather event heterogeneously distributed across the collection system. SOBA was in operating mode 60 (Degraded, sensor failure) due to the FIT-830 sensor replacement which prevented the basin from filling during the event.
Total							1022.93	330.07	109.00	16.70	100.05	4.80	22.25	87.40	17.30	0.20	7.35		21.95	78.15	8.05	3.60	216.05		15

1 Average total rainfall depth based on rain gauges TR04, TR05, TR11, TR12, TR13, TR14 and TR15.

2 Maximum total rainfall depth measurement and measurement location during the wet weather event.

3 Before 2019-10-15, volume is for the Southern Outfall at MDS

4 Considering a maximum retention level of 432

5 Considering a maximum retention level of 432

Figure 2.2. Morris Forman WQTC - Plant Flows and Associated CSO Activations - May

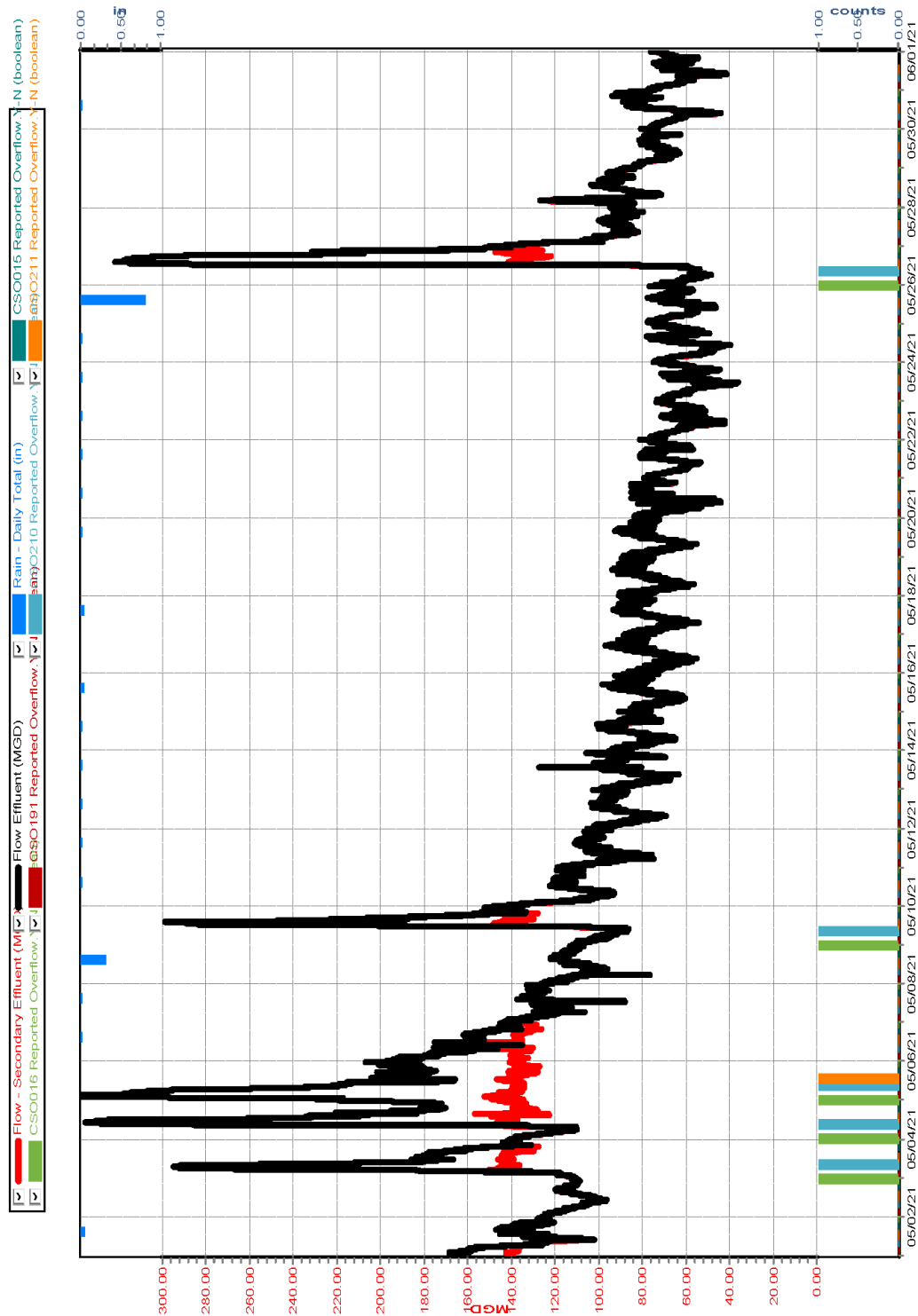


Figure 2.3 Morris Forman WQTC - Plant Flows and Associated CSO Activations - June

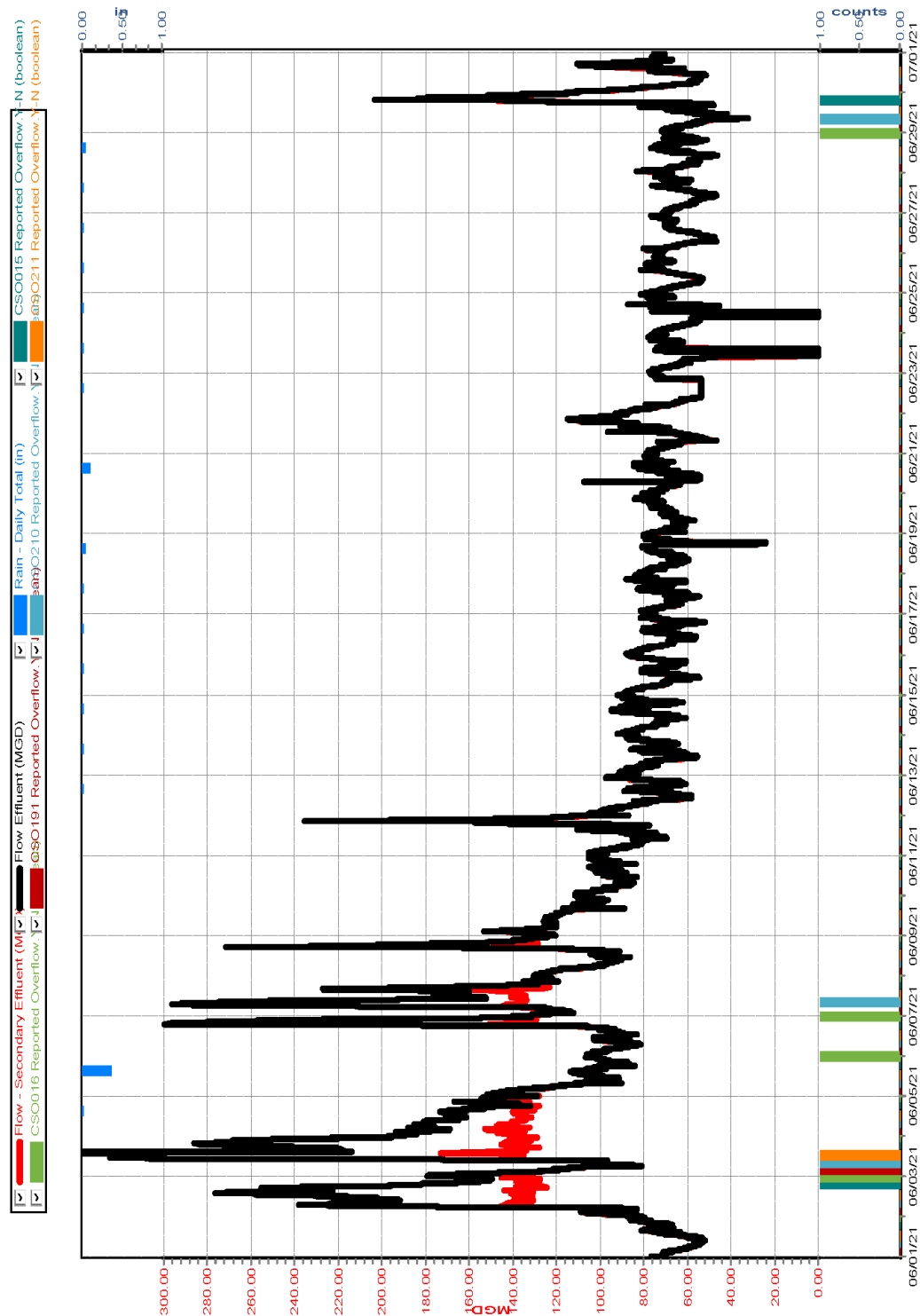


Table 2.2. Morris Forman WQTC Permit Compliance

PARAMETER	APRIL	MAY	JUNE
Ammonia Nitrogen, 30 Day Secondary Effluent	☉	☉	☉
Ammonia Nitrogen, 7 Day Secondary Effluent	☉	☉	☉
BOD, 30 Day Secondary Effluent	X	X	X
BOD, 7 Day Secondary Effluent	X	X	X
BOD, Percent Removal	X	X	X
Chlorine, Residual	☉	☉	☉
Dissolved Oxygen	☉	☉	☉
Fecal Coliform, 30 Day Geomean	☉	☉	☉
Fecal Coliform, 7 Day Geomean	☉	☉	X
pH	☉	☉	☉
TSS, 30 Day Secondary Effluent	X	X	X
TSS, 7 Day Effluent	X	X	X
TSS, Percent Removal	X	X	X

Figure 2.4. NMC Quarterly Commitments Schedule

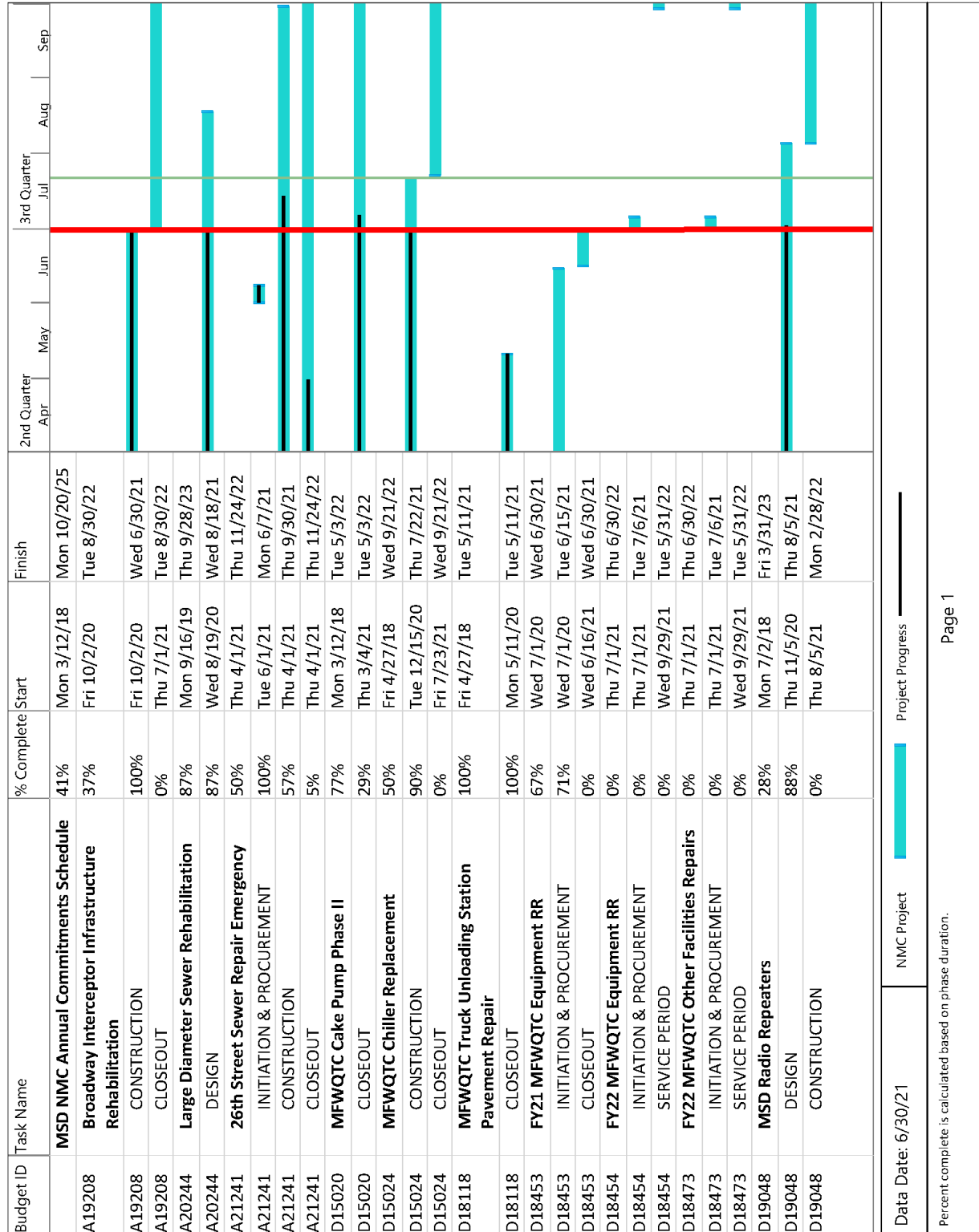


Figure 2.4. NMC Quarterly Commitments Schedule

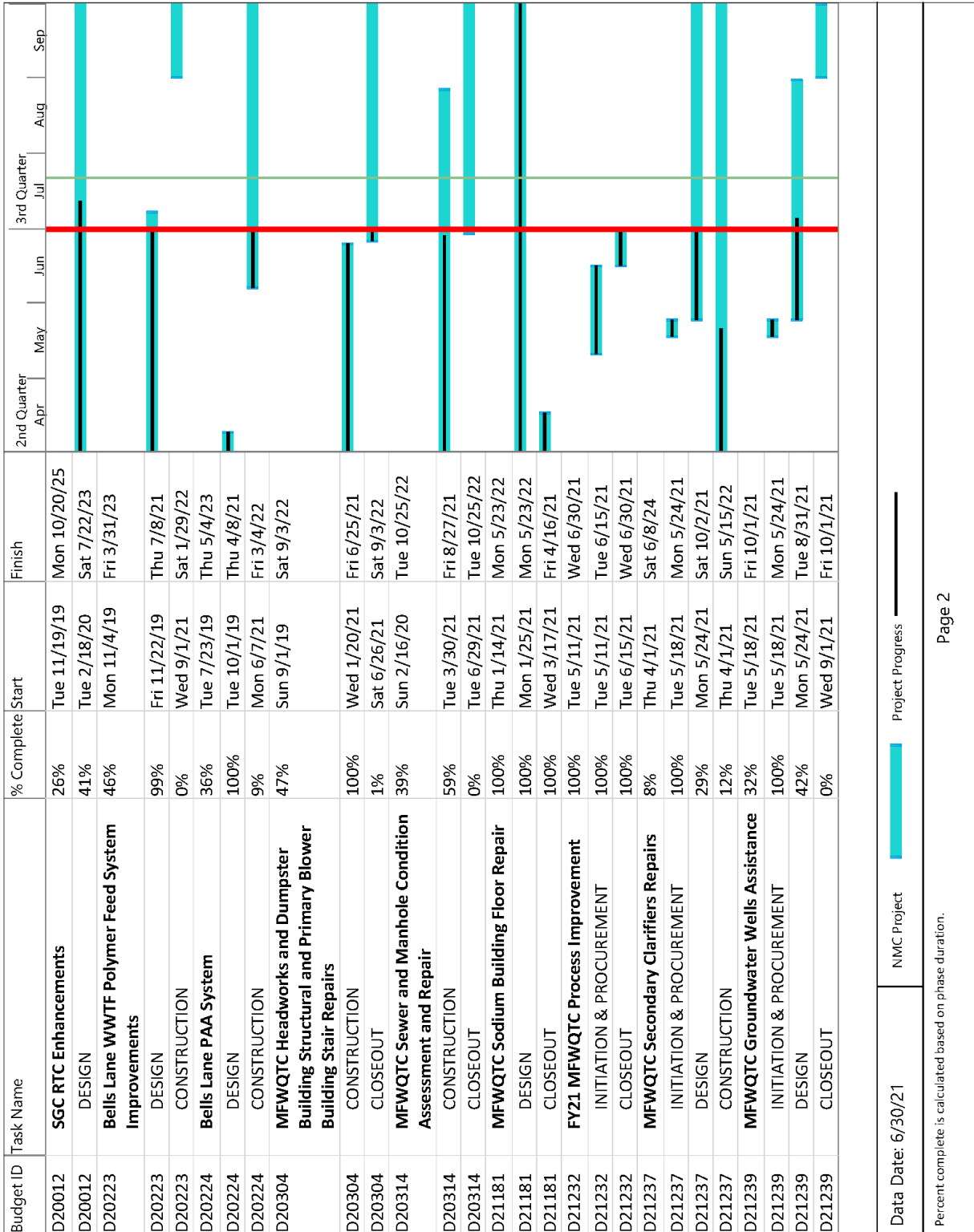


Figure 2.4. NMC Quarterly Commitments Schedule

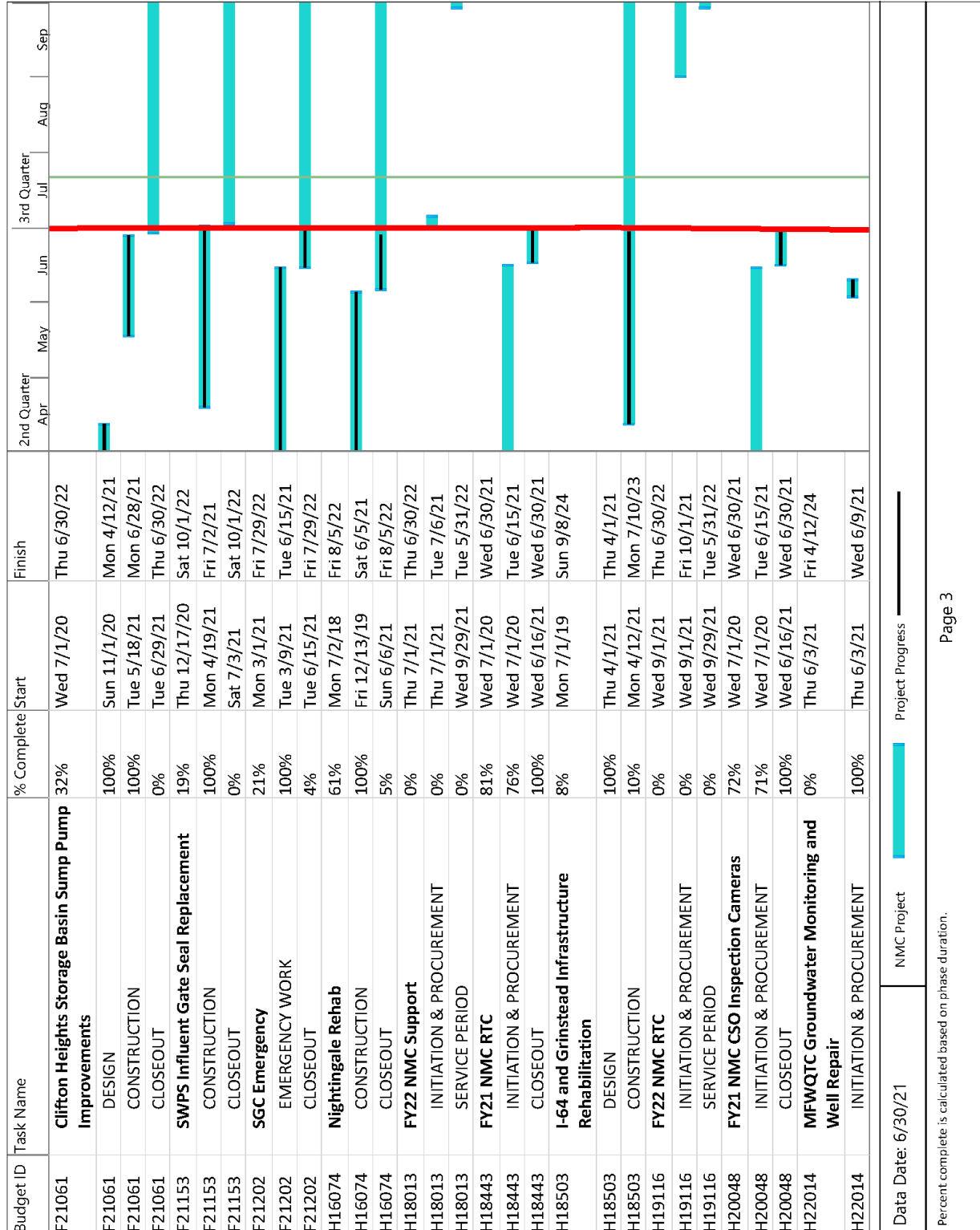
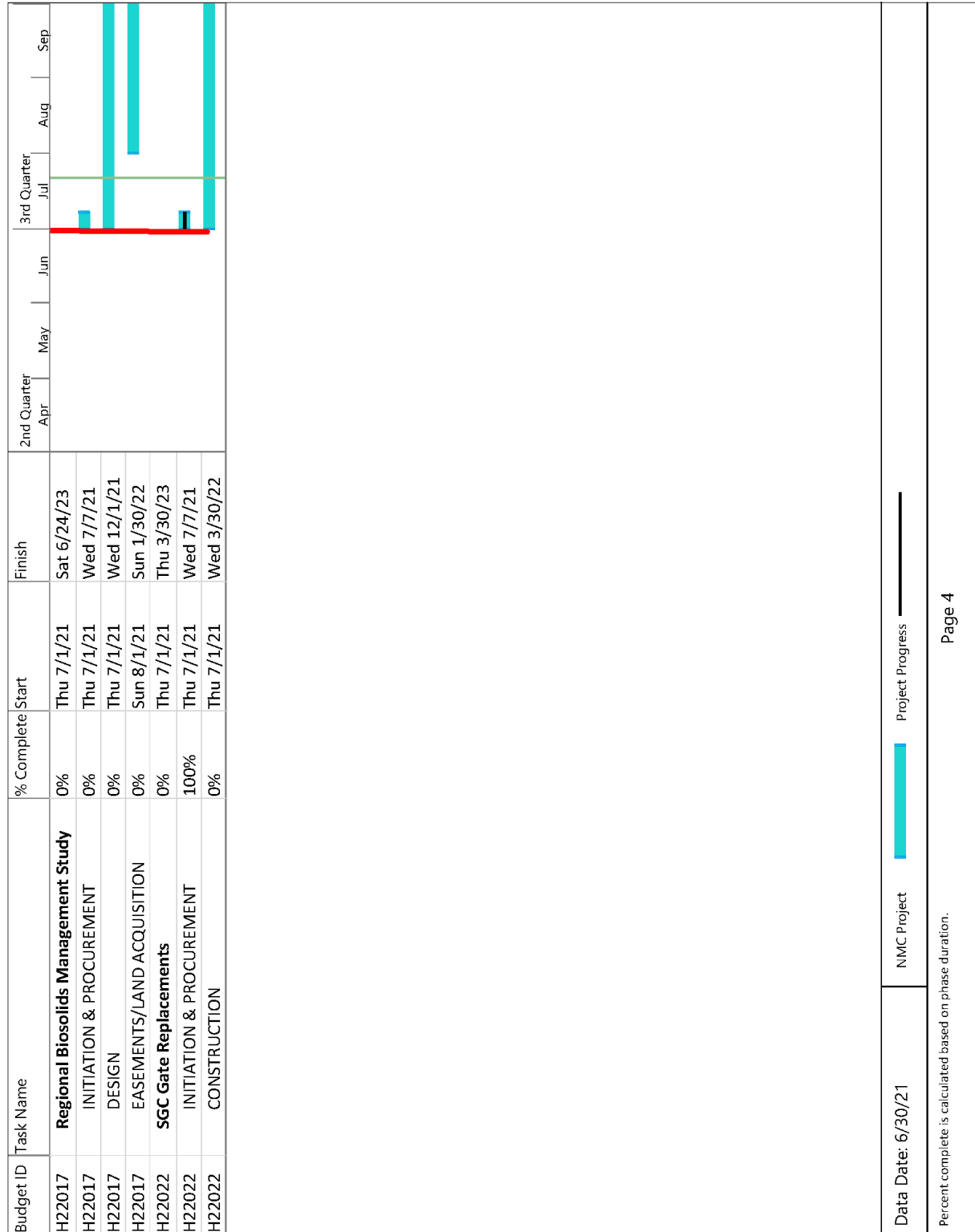


Figure 2.4. NMC Quarterly Commitments Schedule



SECTION 3: PROGRAM ACTIVITIES FOR SEWER OVERFLOW RESPONSE PROTOCOL (SORP)

3.1. PROGRAM BACKGROUND

Per Paragraph 24.d. of the Amended Consent Decree, MSD initially submitted the Sewer Overflow Response Protocol (SORP) to EPA and KDEP on February 10, 2006, and received comments on March 13, 2006, resubmitted on May 12, 2006, and received an approval letter for the SORP on August 22, 2006.

MSD completely revised the SORP documentation in 2011. The draft of this revised document was submitted for comment on August 22, 2011. Comments from EPA and KDEP were received and addressed, and the document was resubmitted October 28, 2011. Final approval of the updated SORP document was received February 21, 2012. Modifications were made to the document in 2016 to reflect the elimination of the Jeffersontown WQTC, and were approved on July 21, 2017. A hard copy of the approved document has been distributed to each division throughout MSD and a viewable, downloadable electronic version has been posted to the MSD Project WIN website, available at www.msdprojectwin.org. The following activities were performed during this reporting period.

3.2. OVERFLOW MANAGEMENT AND FIELD DOCUMENTATION

MSD monitored approximately 143 sanitary sewer overflow (SSO) sites, which have been grouped into routes based on the range of rainfall rates necessary to cause a SSO. These routes are monitored during rain events depending on the magnitude and location of the storm. If an overflow is observed, a Discharge Work Order is created to document the event. During this quarter, 5 unauthorized discharges were identified through route telemetry. During this period, no inspection routes were run.

The West County route is monitored via telemetry. MSD determined that the inspection work orders should no longer be created to document this monitoring. However, discharge work orders will be created as required based on telemetry observations.

MSD Operations staff hauled 0 gallons due to capacity-related issues during this reporting period. Hauling was initiated due to other issues as indicated in Table 3.1.

Table 3.1. Hauled Volumes in Gallons

PROBLEM	APR	MAY	JUNE
MECHANICAL FAILURE	20,000	0	0

MSD continued training through the online training delivery system, which allows more flexibility for employees to complete training at convenient times during the quarter and to integrate SORP training with new employee and contractor orientation.

Second quarter training utilizes the online format, and included modules under Assessment, Mitigation & Documentation:

- Assessment & Minimum Documentation
- Mitigation
- Updates

The quarterly training was delivered to 258 staff in Operations and Engineering.

Third quarter training utilizes the online format, and includes modules under Public Notification & Overflow Cleanup:

- Public Notification: Event-Based Activities
- Public Notification: Programmatic Activities
- Overflow Cleanup
- Updates

These modules will be reviewed and updated as needed for delivery during the next reporting period. An update module provides continued updates related to progress under the IOAP and projects under the CMOM and NMC programs and will also be updated for delivery.

SECTION 4: PROGRAM ACTIVITIES FOR DISCHARGE ABATEMENT PLANS (DAP)

4.1. INTEGRATED OVERFLOW ABATEMENT PLAN (IOAP)

As a requirement of the Amended Consent Decree, per Paragraph 25, MSD is to prepare and submit for review and approval discharge abatement plans for the elimination of unauthorized discharges from the separate sanitary and the combined sewer systems, the reduction and control of discharges from the CSO locations identified in the Morris Forman WQTC KPDES permit, and the improvement of water quality in the receiving waters.

The Final Sanitary Sewer Discharge Plan (SSDP) and the Final CSO Long Term Control Plan (LTCP) were submitted concurrently and certified on December 19, 2008, under the title of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by a Federal Order signed February 12, 2010, and was entered into public record on February 15, 2010.

MSD submitted an IOAP modification request to EPA/KDEP on September 20, 2012, with partial approval granted via certified letter on October 25, 2012. The modified project package, including program descriptions, progress, and updated supporting text, was submitted to EPA/KDEP for approval on June 14, 2013. On June 19, 2014, MSD received approval of the 2012 IOAP Modification from EPA/KDEP. The project and program modifications proposed within this submittal resulted from additional information gathered from ongoing system monitoring, hydraulic modeling and best professional judgment. MSD's adaptive management approach to overflow abatement has justified modifications which provide a higher level of overflow control. These modifications will be completed faster than originally proposed for approximately the same overall budget.

Since the June 19, 2014, approval of the 2012 IOAP Modification, minor project modification requests have been submitted and approved on an individual project basis.

4.2. SANITARY SEWER DISCHARGE PLAN (SSDP)

The Sanitary Sewer Discharge Plan (SSDP) addresses the overflows and unauthorized discharges from the separate sanitary sewer system. Three separate plans have been submitted under this program as described below and outlined in Paragraph 25.a. of the Amended Consent Decree.

4.2.1. UPDATED SANITARY SEWER OVERFLOW PLAN (SSOP) IMPLEMENTATION

MSD prepared and submitted the Updated Sanitary Sewer Overflow Plan (SSOP) on February 10, 2006. This plan included an overview of the MSD sanitary sewer overflow abatement program and specific actions taken to reduce/eliminate overflows from the sanitary sewer system. This document included a list of the proposed improvements to be accomplished by December 31, 2008. Activities required under the Updated SSOP have been completed.

4.2.2. INTERIM SANITARY SEWER DISCHARGE PLAN (ISSDP)

MSD submitted an Interim Sanitary Sewer Discharge Plan (ISSDP) for approval on September 30, 2007. Comments were received on January 8, 2008. MSD resubmitted the revised ISSDP on March 7, 2008, and received an approval letter for the ISSDP on July 24, 2008. The approved document can be viewed on the MSD Project WIN website, available at www.msdpjprojectwin.org.

All projects required by the ISSDP have been completed and certified. The Derek R. Guthrie WQTC Project's completion was delayed in accordance with the construction contract documents due to existing litigation and performance by the general contractor. However, the full functionality and capacity of the plant upgrades under this project met the demands of the service area. With this understanding, a revised certification letter dated October 19, 2015, was submitted certifying that the Derek R. Guthrie WQTC Project is performing in accordance with its stated intent and purpose, and is in compliance with the Consent Decree requirements.

4.2.3. FINAL SANITARY SEWER DISCHARGE PLAN (SSDP)

MSD submitted for approval a Final SSDP on December 19, 2008, as Volume 3 of the IOAP. The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by a Federal Order signed February 12, 2010, and was entered into public record on February 15, 2010. A revised SSDP was included in the 2012 IOAP Modification, submitted on June 14, 2013. On June 19, 2014, MSD received approval of the 2012 IOAP Modification from EPA/KDEP. The approved document can be viewed on the MSD Project WIN website, available at www.msdpwin.org.

4.3. CSO LONG TERM CONTROL PLAN (LTCP)

The CSO Long Term Control Plan (LTCP) addresses the overflows and unauthorized discharges from the Combined Sewer System (CSS). Two separate plans have been submitted under this program as described below and outlined in Paragraph 25.b. of the Amended Consent Decree.

4.3.1. INTERIM CSO LONG TERM CONTROL PLAN (LTCP)

The Interim CSO LTCP was initially submitted to EPA and KDEP on February 10, 2006, and MSD received an approval letter dated February 22, 2007. The approved Interim LTCP can be viewed on the MSD Project WIN website, available at www.msdpwin.org. This plan includes an overview of the MSD program, efforts taken to reduce/eliminate discharges from the CSS, and the list of proposed improvements to be accomplished by December 31, 2008. All projects associated with this plan have been completed.

4.3.2. FINAL CSO LONG TERM CONTROL PLAN (LTCP)

MSD submitted for approval the Final CSO LTCP on December 19, 2008, as Volume 2 of the Integrated Overflow Abatement Plan. The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, and was entered into public record on February 15, 2010. A revised LTCP was included in the 2012 IOAP Modification, submitted June 14, 2013. On June 19, 2014, MSD received approval of the 2012 IOAP Modification from EPA/KDEP. The approved document can be viewed on the MSD Project WIN website, available at www.msdpwin.org.

4.3.3. GREEN INFRASTRUCTURE PROGRAM

The IOAP describes that “MSD’s long-range commitment to this [Green Infrastructure] program will be based on how green performs in comparison to more traditional gray solutions” (Volume 2, Chapter 4, page 12). Through coordination with EPA and with strong support of MSD’s Wet Weather Team stakeholder group, MSD’s program evolved from solely project-level benefits to maximizing programmatic and community benefits. MSD’s green infrastructure program has been successful in downsizing or eliminating gray infrastructure projects, providing a programmatic factor of safety, and providing community enhancements, as described in the FY2019 Annual Report (Section 4.3.4). Beginning with the FY2020 Annual Report, MSD will provide updates on green infrastructure.

4.4. DISCHARGE ABATEMENT PLAN PROJECT STATUS

4.4.1. SANITARY SEWER DISCHARGE PLAN (SSDP)

Per the current approved schedule, no SSDP projects were completed during the current reporting period or anticipated to be completed or certified during the next reporting period.

4.4.2. COMBINED SEWER OVERFLOW LONG TERM CONTROL PLAN (LTCP)

Per the current approved schedule, four CSO LTCP projects were due to be completed during the previous reporting period as shown in Table 4.1. The Waterway Protection Tunnel project was due to be completed December 31, 2020. MSD is currently in negotiations with EPA and KDEP to extend the certified completion date of this project. There are no projects anticipated to be completed or certified during the next reporting period.

4.4.3. ACTIVITY PROGRESS CHART

A Gantt chart showing the 2012 IOAP Modification project schedules and subsequent approved minor modifications for the entire program is provided in Figure 4.1. Refer to IOAP, Volume 1 – Figure 6.3.1 for the previous chart. MSD is currently in negotiations with EPA and KDEP to extend the certified completion date of multiple projects. A crosswalk of projects and associated overflows is provided in Appendix E.

Table 4.1. IOAP Project Required Completion Dates - CSO LTCP

PROJECT NAME	ACD PROJECT NUMBER	ACD DATE	CERTIFIED COMPLETION DATE
WATERWAY PROTECTION TUNNEL (FORMERLY STORY & MAIN ST STORAGE BASIN)	L_OR_MF_020_S_09B_B_A_8	December 31, 2020 ¹	Under Construction
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ ROWAN ST STORAGE BASIN)	L_OR_MF_155_M_09B_B_B_4	December 31, 2020 ¹	Under Construction
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	L_MI_MF_127_M_09B_B_A_8	December 31, 2020 ¹	Under Construction
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	L_SO_MF_083_M_09B_B_A_8	December 31, 2020 ¹	Under Construction
¹ MSD is currently in negotiations with EPA and KDEP to extend the certified completion date of this project to June 30, 2022.			

Figure 4.1. IOAP Implementation Schedule

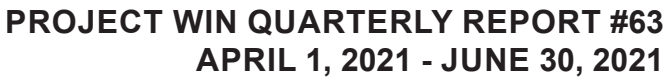
[illegible]

Approved 2009 IOAP IOAP Modifications Remaining Work Completed Work

Includes 2014 approval of 2012 IOAP modification as well as all minor mod letter approvals to date.

1 of 9

Data Date: 6/30/21

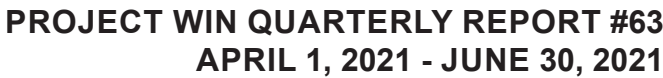
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Data Date: 6/30/21

Figure 4.1. IOAP Implementation Schedule

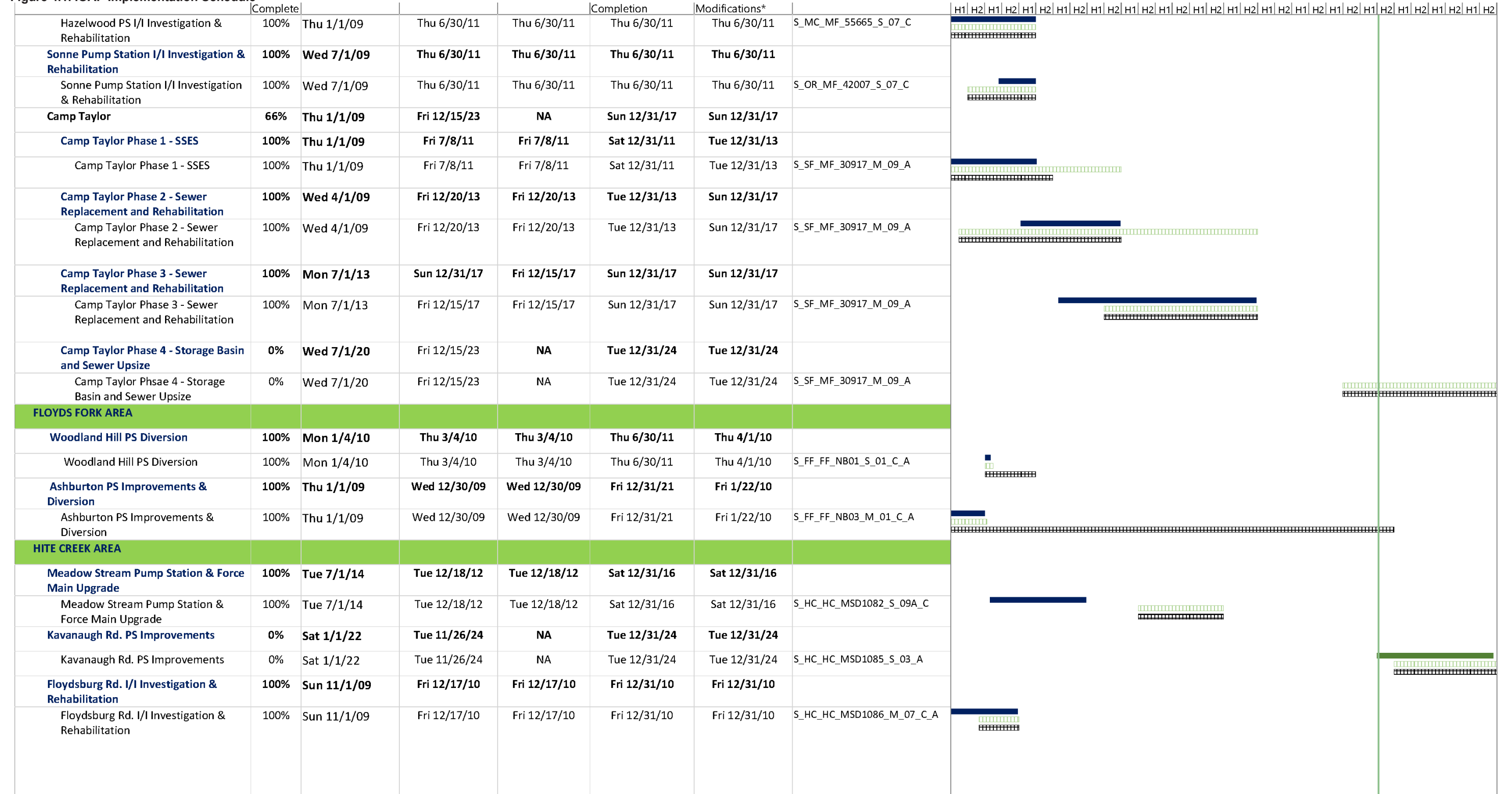
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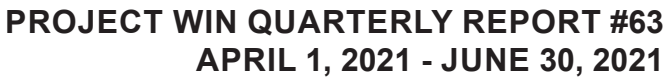
Includes 2014 approval of 2012 IOAP modification as well as all minor mod letter approvals to date

[illegible]

Data Date: 6/30/21

Figure 4.1. IOAP Implementation Schedule



[illegible]

Data Date: 6/30/21

Figure 4.1. IOAP Implementation Schedule

	Complete	Schedule	Completion	Modifications*			
Monticello PS Elimination	0%	Sun 3/1/20	Sat 12/31/22	NA	Sat 12/31/22		
Monticello PS Elimination	0%	Sun 3/1/20	Sat 12/31/22	NA	Sat 12/31/22	S_JT_JT_NB04_M_01_A	
MILL CREEK AREA							
Shively Interceptor	100%	Wed 7/1/09	Fri 4/13/12	Fri 4/13/12	Wed 12/31/14	Wed 12/31/14	
Shively Interceptor	100%	Wed 7/1/09	Fri 4/13/12	Fri 4/13/12	Wed 12/31/14	Wed 12/31/14	S_MC_WC_NB01_M_01_A
East Rockford PS Relocation	100%	Thu 1/1/09	Fri 3/30/12	Fri 3/30/12	Fri 12/31/21	Fri 12/31/21	
East Rockford PS Relocation	100%	Thu 1/1/09	Fri 3/30/12	Fri 3/30/12	Fri 12/31/21	Fri 12/31/21	S_MC_WC_NB02_S_03_C
OHIO RIVER FORCE MAIN AREA							
Mellwood System Improvements & PS Elimination	49%	Wed 4/1/09	Wed 12/19/12	NA	Tue 12/31/24	Tue 12/31/24	
Mellwood System Improvements & PS Elimination - Mellwood PS and FM Improvements	100%	Wed 4/1/09	Wed 12/19/12	Wed 12/19/12	Mon 12/31/12	Mon 12/31/12	
Mellwood System Improvements & PS Elimination - Mellwood PS and FM Improvements	100%	Wed 4/1/09	Wed 12/19/12	Wed 12/19/12	Mon 12/31/12	Mon 12/31/12	S_OR_MF_NB01_M_01_B
Mellwood System Improvements & PS Elimination - Winton and Mockingbird Valley Elimination	0%	Fri 1/1/21	Thu 10/3/24	NA	Tue 12/31/24	Tue 12/31/24	
Mellwood System Improvements & PS Elimination - Winton and Mockingbird Valley Elimination	0%	Fri 1/1/21	Thu 10/3/24	NA	Tue 12/31/24	Tue 12/31/24	S_OR_MF_NB01_M_01_B
Derington Ct. PS I/I Investigation & Rehabilitation	100%	Thu 4/1/10	Fri 3/30/12	Fri 3/30/12	Sat 3/31/12	Sat 3/31/12	
Derington Ct. PS I/I Investigation & Rehabilitation	100%	Thu 4/1/10	Fri 3/30/12	Fri 3/30/12	Sat 3/31/12	Sat 3/31/12	S_OR_MF_NB03_S_07_C
Prospect WQTC Eliminations, Harrods Creek PS and ORFM System	100%	Fri 7/1/11	Mon 12/19/16	Mon 12/19/16	Sat 12/31/16	Sat 12/31/16	
Prospect #1 - WQTC Eliminations	100%	Fri 7/1/11	Tue 12/15/15	Tue 12/15/15	Thu 12/31/15	Thu 12/31/15	
Prospect #1 - WQTC Eliminations	100%	Fri 7/1/11	Tue 12/15/15	Tue 12/15/15	Thu 12/31/15	Thu 12/31/15	S_OR_MF_NB04_M_03_B_B
Prospect #2 - Harrods Creek PS and FM	100%	Fri 7/1/11	Tue 12/15/15	Tue 12/15/15	Thu 12/31/15	Thu 12/31/15	
Prospect #2 - Harrods Creek PS and FM	100%	Fri 7/1/11	Tue 12/15/15	Tue 12/15/15	Thu 12/31/15	Thu 12/31/15	S_OR_MF_NB04_M_03_B_B
Prospect #3 - ORFM System Improvements	100%	Tue 1/1/13	Mon 12/19/16	Mon 12/19/16	Sat 12/31/16	Sat 12/31/16	
Prospect #3 - ORFM System Improvements	100%	Tue 1/1/13	Mon 12/19/16	Mon 12/19/16	Sat 12/31/16	Sat 12/31/16	S_OR_MF_NB04_M_03_B_B
OTHER PROJECTS							
CPE_CCP Modifications To WQTC	100%	Thu 1/1/09	Mon 12/19/11	Mon 12/19/11	Sat 12/31/11	Sat 12/31/11	
CPE_CCP Modifications To WQTC	100%	Thu 1/1/09	Mon 12/19/11	Mon 12/19/11	Sat 12/31/11	Sat 12/31/11	
I/I Reduction Program	100%	Thu 1/1/09	Tue 6/30/20	Tue 6/30/20	Tue 12/31/24	Tue 12/31/24	

Approved 2009 IOAP IOAP Modifications Remaining Work Completed Work

Includes 2014 approval of 2012 IOAP modification as well as all minor mod letter approvals to date.

7 of 9

Data Date: 6/30/21

	Complete			Completion	Modifications*		H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2
I/I Reduction Program	100%	Thu 1/1/09	Tue 6/30/20	Tue 6/30/20	Tue 12/31/24	Tue 12/31/24	
POND CREEK AREA							
Lea Ann Way System Improvements	100%	Mon 7/1/13	Fri 12/4/15	Fri 12/4/15	Thu 12/31/15	Thu 12/31/15	
Lea Ann Way System Improvements	100%	Mon 7/1/13	Fri 12/4/15	Fri 12/4/15	Thu 12/31/15	Thu 12/31/15	S_PO_WC_PC08_M_01_C
Edsel PS I/I Investigation & Rehabilitation	100%	Thu 1/1/09	Tue 9/27/11	Tue 9/27/11	Sat 12/31/11	Fri 9/30/11	
Edsel PS I/I Investigation & Rehabilitation	100%	Thu 1/1/09	Tue 9/27/11	Tue 9/27/11	Sat 12/31/11	Fri 9/30/11	S_PO_WC_PC11_M_07_C
Cinderella PS Elimination	0%	Thu 7/1/21	Thu 6/30/22	NA	Sun 12/31/23	Sun 12/31/23	
Cinderella PS Elimination	0%	Thu 7/1/21	Thu 6/30/22	NA	Sun 12/31/23	Sun 12/31/23	S_PO_WC_PC04_M_01_C
Government Center PS Elimination	100%	Fri 1/1/21	Fri 4/1/11	Fri 4/1/11	Tue 12/31/24	Tue 12/31/24	
Government Center PS Elimination	100%	Fri 1/1/21	Fri 4/1/11	Fri 4/1/11	Tue 12/31/24	Tue 12/31/24	S_PO_WC_PC06_M_01_C
Avanti PS Elimination	100%	Thu 1/1/09	Fri 7/10/09	Fri 7/10/09	Fri 12/31/10	Fri 12/31/10	
Avanti PS Elimination	100%	Thu 1/1/09	Fri 7/10/09	Fri 7/10/09	Fri 12/31/10	Fri 12/31/10	S_PO_WC_PC07_M_01_A
Charleswood Interceptor Extension	100%	Tue 12/1/98	Wed 8/5/15	Wed 8/5/15	Sat 12/31/22	Sat 12/31/22	
Charleswood Interceptor Extension	100%	Tue 12/1/98	Wed 8/5/15	Wed 8/5/15	Sat 12/31/22	Sat 12/31/22	S_PO_WC_PC03_M_01_C
Lantana PS #1 I/I Investigation and Rehabilitation	100%	Fri 1/1/10	Thu 12/29/11	Thu 12/29/11	Sat 12/31/11	Thu 12/29/11	
Lantana PS #1 I/I Investigation and Rehabilitation	100%	Fri 1/1/10	Thu 12/29/11	Thu 12/29/11	Sat 12/31/11	Thu 12/29/11	S_PO_WC_PC05_M_07_C
Leven PS Elimination	0%	Thu 7/1/21	Thu 6/30/22	NA	Sat 12/31/22	Sat 12/31/22	
Leven PS Elimination	0%	Thu 7/1/21	Thu 6/30/22	NA	Sat 12/31/22	Sat 12/31/22	S_PO_WC_PC10_M_01_C
Caven Ave Pump Station Elimination	100%	Wed 6/10/15	Mon 8/1/16	Mon 8/1/16	Tue 12/31/24	Sat 12/31/16	
Caven Ave Pump Station Elimination	100%	Wed 6/10/15	Mon 8/1/16	Mon 8/1/16	Tue 12/31/24	Sat 12/31/16	S_PO_WC_PC09_M_09B_C
SMALL WWTP AREA							
Riding Ridge PS Improvements	100%	Tue 1/1/13	Sat 11/15/14	Sat 11/15/14	Wed 12/31/14	Wed 12/31/14	
Riding Ridge PS Improvements	100%	Tue 1/1/13	Sat 11/15/14	Sat 11/15/14	Wed 12/31/14	Wed 12/31/14	S_HC_HN_NB01_S_03_C_A
Lucas Lane PS Inline Storage	0%	Mon 7/1/19	Wed 6/30/21	NA	Fri 12/31/21	Fri 12/31/21	
Lucas Lane PS Inline Storage	0%	Mon 7/1/19	Wed 6/30/21	NA	Fri 12/31/21	Fri 12/31/21	S_FF_BT_NB01_S_09A_C_A
St. Rene Rd. PS Elimination	100%	Tue 6/24/14	Fri 9/19/14	Fri 9/19/14	Fri 12/31/21	Fri 12/31/21	
St. Rene Rd. PS Elimination	100%	Tue 6/24/14	Fri 9/19/14	Fri 9/19/14	Fri 12/31/21	Fri 12/31/21	S_FF_CH_NB01_S_09A_C_A
Lake Forest PS SSO Investigation	100%	Sat 1/1/11	Tue 12/18/12	Tue 12/18/12	Mon 12/31/12	Mon 12/31/12	
Lake Forest PS SSO Investigation	100%	Sat 1/1/11	Tue 12/18/12	Tue 12/18/12	Mon 12/31/12	Mon 12/31/12	S_FF_LF_NB01_S_13_C_A
Gunpowder PS Inline Storage	0%	Mon 7/1/19	Wed 6/30/21	NA	Fri 12/31/21	Fri 12/31/21	
Gunpowder PS Inline Storage	0%	Mon 7/1/19	Wed 6/30/21	NA	Fri 12/31/21	Fri 12/31/21	S_HC_HN_NB02_S_09A_C_B



MSD Integrated Overflow Abatement Plan Implementation Schedule (01 Jan 2009 - 31 Dec 2024)

Activity Name	% Complete	Anticipated Start	Anticipated Finish	Actual Finish	2009 IOAP Completion	IOAP Modifications*	IOAP Project ID	2009 H1 H2	2010 H1 H2	2011 H1 H2	2012 H1 H2	2013 H1 H2	2014 H1 H2	2015 H1 H2	2016 H1 H2	2017 H1 H2	2018 H1 H2	2019 H1 H2	2020 H1 H2	2021 H1 H2	2022 H1 H2
Fairway View PS Improvements	100%	Tue 1/1/13	Tue 12/30/14	Tue 12/30/14	Wed 12/31/14	Wed 12/31/14															
Fairway View PS Improvements	100%	Tue 1/1/13	Tue 12/30/14	Tue 12/30/14	Wed 12/31/14	Wed 12/31/14	S_HC_HS_NB01_S_03_C_A														
SOUTHEASTERN DIVERSION AREA																					
Parkview Estates I/I Investigation & Rehabilitation	100%	Fri 1/1/10	Tue 6/28/11	Tue 6/28/11	Sat 12/31/11	Sat 12/31/11															
Parkview Estates I/I Investigation & Rehabilitation	100%	Fri 1/1/10	Tue 6/28/11	Tue 6/28/11	Sat 12/31/11	Sat 12/31/11	S_SD_MF_NB03_S_07_C														
Klondike Interceptor	100%	Fri 10/1/10	Thu 12/5/13	Thu 12/5/13	Thu 12/31/15	Thu 12/31/15															
Klondike Interceptor	100%	Fri 10/1/10	Thu 12/5/13	Thu 12/5/13	Thu 12/31/15	Thu 12/31/15	S_SD_MF_NB04_S_01_B_A														
Sutherland Interceptor	0%	Mon 11/1/21	Mon 11/27/23	NA	Sun 12/31/23	Sun 12/31/23															
Sutherland Interceptor	0%	Mon 11/1/21	Mon 11/27/23	NA	Sun 12/31/23	Sun 12/31/23	S_SD_MF_NB05_M_01_A														
Beargrass Interceptor Rehab Ph. 2	100%	Wed 4/1/09	Tue 12/14/10	Tue 12/14/10	Fri 12/31/10	Fri 12/31/10															
Beargrass Interceptor Rehab Ph. 2	100%	Wed 4/1/09	Tue 12/14/10	Tue 12/14/10	Fri 12/31/10	Fri 12/31/10	S_SD_MF_NB06_S_13_C														

SECTION 5: PROGRAM ACTIVITIES FOR PUBLIC OUTREACH, EDUCATION, NOTIFICATION AND PARTICIPATION

5.1. PUBLIC NOTIFICATION PROGRAM

MSD has developed a program aimed at notifying the community of the objectives of Project WIN, and ways to reduce the risks of coming into contact with sewage overflows.

5.2. PUBLIC EDUCATION PROGRAMS

A public education program about Louisville MSD's primary business functions of wastewater treatment, storm-water management and flood protection has been developed and is in use across multiple platforms. MSD uses earned media through local and regional outlets to educate the public about MSD's vital services, initiatives, consent decree projects and more.

Paid advertising is utilized in local papers—Business First and the Courier Journal—to inform and educate the public about MSD's consent decree projects and MS4 initiatives. MSD moved from a single full-page print ad in the Courier Journal to three-quarter-page ads, increasing the reach to an estimated 306,000 for the Project WIN messaging. MSD also added a digital campaign to augment the print ads, reaching more than 831,000. The digital on-line campaign continued to increase awareness of the Waterway Protection Tunnel project, sewer overflows and What Not To Flush.

Direct mail communications through post card, letters and bill inserts are also utilized for external communications.

Social media and MSD's website — www.LouisvilleMSD.org — are important methods to reach and educate the public. MSD is on FaceBook, Twitter and Instagram.

MSD included Consent Decree compliance, wastewater facility upgrades, and aging infrastructure as key topics in its Critical Repair & Reinvestment Plan. Public education about this initiative continue to include posts on MSD's website and social media accounts.

During the reporting period, Metro TV aired the programs listed in Table 5.1.

5.3. PUBLIC OUTREACH PROGRAMS

MSD has developed a public education program aimed at expanding the public's knowledge of MSD's primary business functions of wastewater, stormwater and flood protection, with an emphasis on Project WIN Program elements.

5.3.1. IOAP PROJECT AND PROGRAM MEETINGS

MSD facilitates meetings for the Wet Weather Team and the public to review regulatory commitments, update progress on projects and initiatives, and to gather public input on efforts.

MSD has developed a partnership with Louisville Metro for providing project information and soliciting feedback from stakeholders using a Structured Public Involvement approach. Structured Public Involvement is meant to facilitate relevant input on the design process as MSD prepares to design and construct CSO basins. The current IOAP outreach activities and public meetings are using this process to elicit qualitative and quantitative information and enhance engagement with customers. Additional information regarding the Structured Public Involvement Process and meetings held during this reporting period may be found at the Project WIN Public Input Website, available at www.msdpwin.org/public-input.

MSD held no meetings during the current reporting period. During the upcoming reporting period, MSD has no meetings planned.

Table 5.1. Metro TV Broadcasts

DATE	PROGRAM TITLE	ORIGINAL MEETING DATE
4/4/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/5/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/6/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
4/8/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/10/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/11/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
4/12/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/17/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/20/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/21/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
4/22/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/25/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
4/26/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
4/29/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/4/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/5/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/6/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
5/8/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/10/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/11/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
5/12/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/17/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/20/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/21/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
5/22/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/25/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
5/26/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
5/29/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
6/7/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
6/11/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
6/14/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
6/21/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
6/22/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
6/23/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
6/23/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
6/24/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
6/25/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
6/27/2021	Ohio River Tunnel: Construction Meeting	1/10/2018

SECTION 6: CAPACITY MANAGEMENT OPERATIONS AND MAINTENANCE (CMOM) REPORT

Per Paragraph 24.c. of the Amended Consent Decree, the Capacity Management Operations and Maintenance (CMOM) Self Assessment Report was submitted to EPA and KDEP on February 10, 2006. MSD received a letter of approval on August 22, 2006. The approved CMOM document can be viewed on the MSD Project WIN website, available at www.msdpowerwin.org.

The primary objectives of CMOM are as follows:

- Capacity – Ensuring that adequate wet and dry weather capacity is maintained in existing and new infrastructure.
- Management – Implementing programs in support of operations and maintenance activities required to ensure KPDES permit compliance and promote public health by remedying design, construction and operational deficiencies; training staff; and performing activities in a safe manner.
- Operations – Implementing written standard operating procedures to operate system components as designed to meet permit requirements.
- Maintenance – Implementing systematic, comprehensive asset maintenance and rehabilitation programs to prevent overflows, maximize system reliability, and ensure system sustainability.

Although the program implementation deadlines from the CMOM Self Assessment Report were previously met, MSD continues to enhance the activities. Highlights of the CMOM program implementation over this reporting period are outlined below.

6.1. MANAGEMENT PROGRAMS

M-E-9 Infrastructure Rehabilitation

Refer to the CMOM activity schedule provided in Section 6.4.

M-E-10 System Capacity Assurance Program

Included in the goals of the CMOM Self-Assessment Report, the Sewer Capacity Assurance Plan (SCAP) is the basis for applying capacity decision criteria to support watershed community values. It provides a programmatic approach for confirming available capacity within MSD's sanitary sewer system, creating capacity credits through system improvement and rehabilitation, identifying hydraulic constrictions, and proposing capacity improvements that support interim and long-term performance objectives. SCAP revisions, including credit and balance projections and discussion of approach for multi-family residential unit populations, were discussed with EPA and KDEP and submitted electronically for review on July 21, 2014. The final SCAP revision was submitted for approval on December 9, 2014, and approval was received February 5, 2015. A copy of the approved SCAP can be found on the Project WIN website, available at www.msdpowerwin.org.

A current copy of the SCAP Credit Balance is included as Appendix D.

6.2. OPERATIONS PROGRAMS

O-A-1 Pump Station Operations Programs (Routine Operating Programs)

O-A-2 Pump Station Operations Programs (Emergency Operating Programs)

Refer to the CMOM activity schedule provided in Section 6.4.

6.3. COMPREHENSIVE PERFORMANCE EVALUATIONS AND COMPOSITE CORRECTION PLANS (CPE/CCP)

Per requirements of MSD's 2009 Amended Consent Decree, MSD implemented a Comprehensive Performance Evaluation (CPE) and Composite Correction Plan (CCP) program for the District's WQTCs. Although the IOAP CPE assessments that defined specific WQTC improvements were completed by December 31, 2011, MSD will continue to implement CPE/CCP activities as part of the District's CMOM Program. This section lists activities per WQTC as they occur during the reporting period.

Refer to the CMOM activity schedule provided in Section 6.4. for CPE/CCP-related capital projects.

6.3.1. HITE CREEK WATER QUALITY TREATMENT CENTER

The Hite Creek WQTC Expansion project will expand the capacity of the WQTC from 6 MGD to 9 MGD and provide regional dewatering of solids. The project will be in construction during the next several reporting periods. Biological nutrient removal and aeration tanks were completed during the reporting period. Disc filters are to be completed during the upcoming reporting period.

6.3.2. FLOYDS FORK WATER QUALITY TREATMENT CENTER

- Oxidation Ditch Orbal Drive Realign project will include all new bearings, pillow blocks, and possibly the shaft during this reporting period.

6.3.3. DEREK R. GUTHRIE WATER QUALITY TREATMENT CENTER

- Dewatering Project - Phase 2 System has been cleaned and taken offline. Phase 3 system was completed in during the reporting period and is currently in operation.
- Clarifier Grout Repair and Gate Replacement Project - Construction anticipated to begin during the upcoming reporting period. The project will continue into FY22.
- Admin Building and RAS Building HVAC Project - Construction completed during this reporting period.
- Paving Project - Construction completed during this reporting period.
- Flow Meter and Isolation Project - Construction completed during this reporting period.
- Elevator Project - Construction began during the current reporting period.

6.3.4. CEDAR CREEK WATER QUALITY TREATMENT CENTER

- Sodium Aluminate Building Project - Construction anticipated to be completed during the upcoming reporting period.
- Effluent Parshall Flume Project - Currently under construction.
- Influent PS MCC Upgrades Project - Completed during the current reporting period.

6.3.5. PROSPECT AREA WATER QUALITY TREATMENT CENTER UPDATES

An elimination plan for the five WQTCs serving Prospect (Timberlake, Hunting Creek North, Hunting Creek South, Ken Carla, and Shadow Wood) was submitted to EPA/KDEP on March 31, 2009. Approval of this plan was received on September 24, 2009, and work is now complete. A certification letter dated December 15, 2015, was submitted finalizing the completion of the project.

6.3.6. JEFFERSONTOWN WATER QUALITY TREATMENT CENTER

A certification letter dated December 23, 2015, was submitted finalizing the completion of the Jeffersontown WQTC Elimination Project.

6.3.7. OTHER WATER QUALITY TREATMENT CENTERS

All non-regional WQTCs owned or operated by MSD in Jefferson County have been eliminated as of May 27, 2016.

6.4. CMOM ACTIVITY SCHEDULE

CMOM capital project milestones for the current reporting period as well as a look-ahead for the upcoming reporting period are provided in Figure 6.1.

Figure 6.1. CMOM Quarterly Commitments Schedule

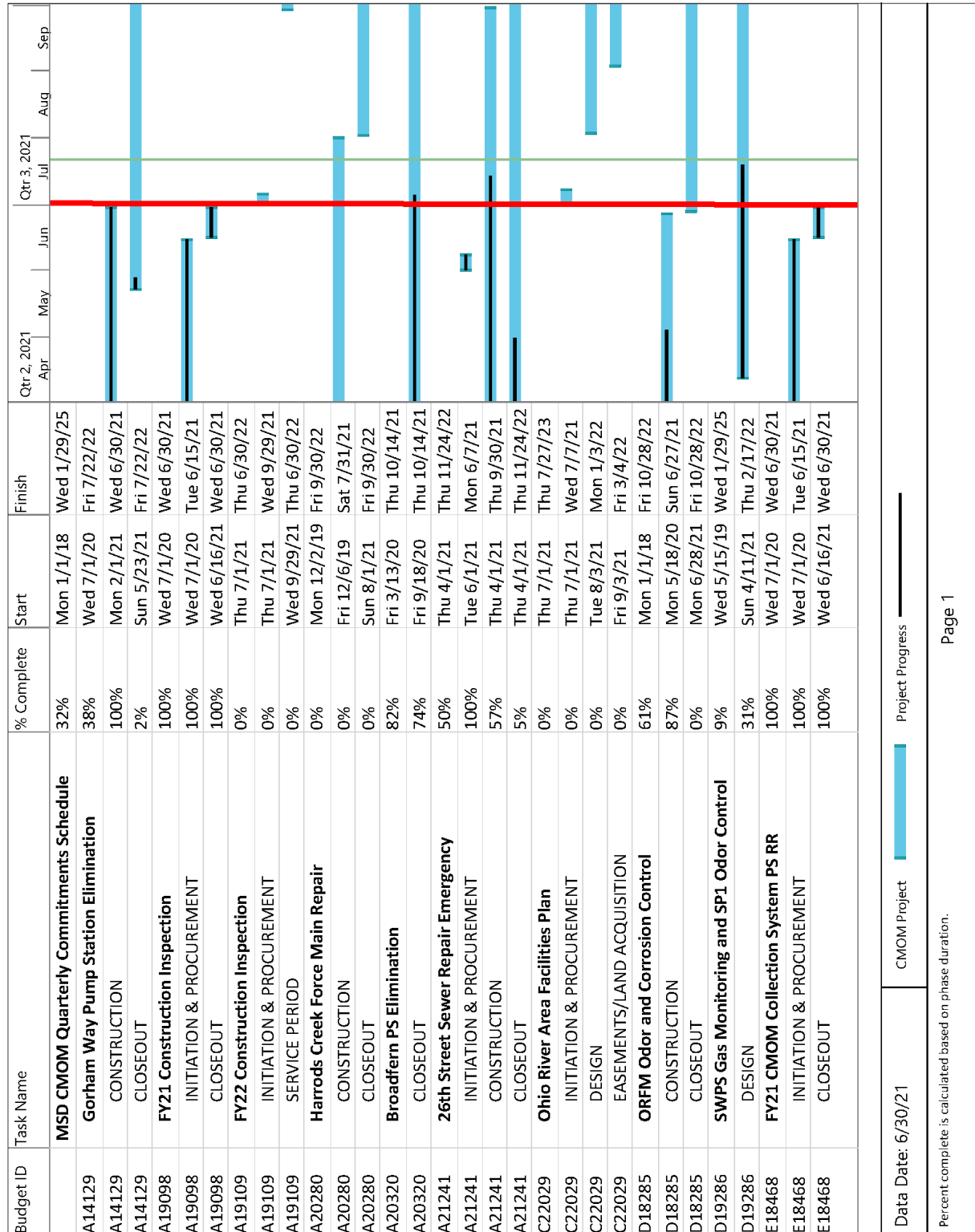


Figure 6.1. CMOM Quarterly Commitments Schedule

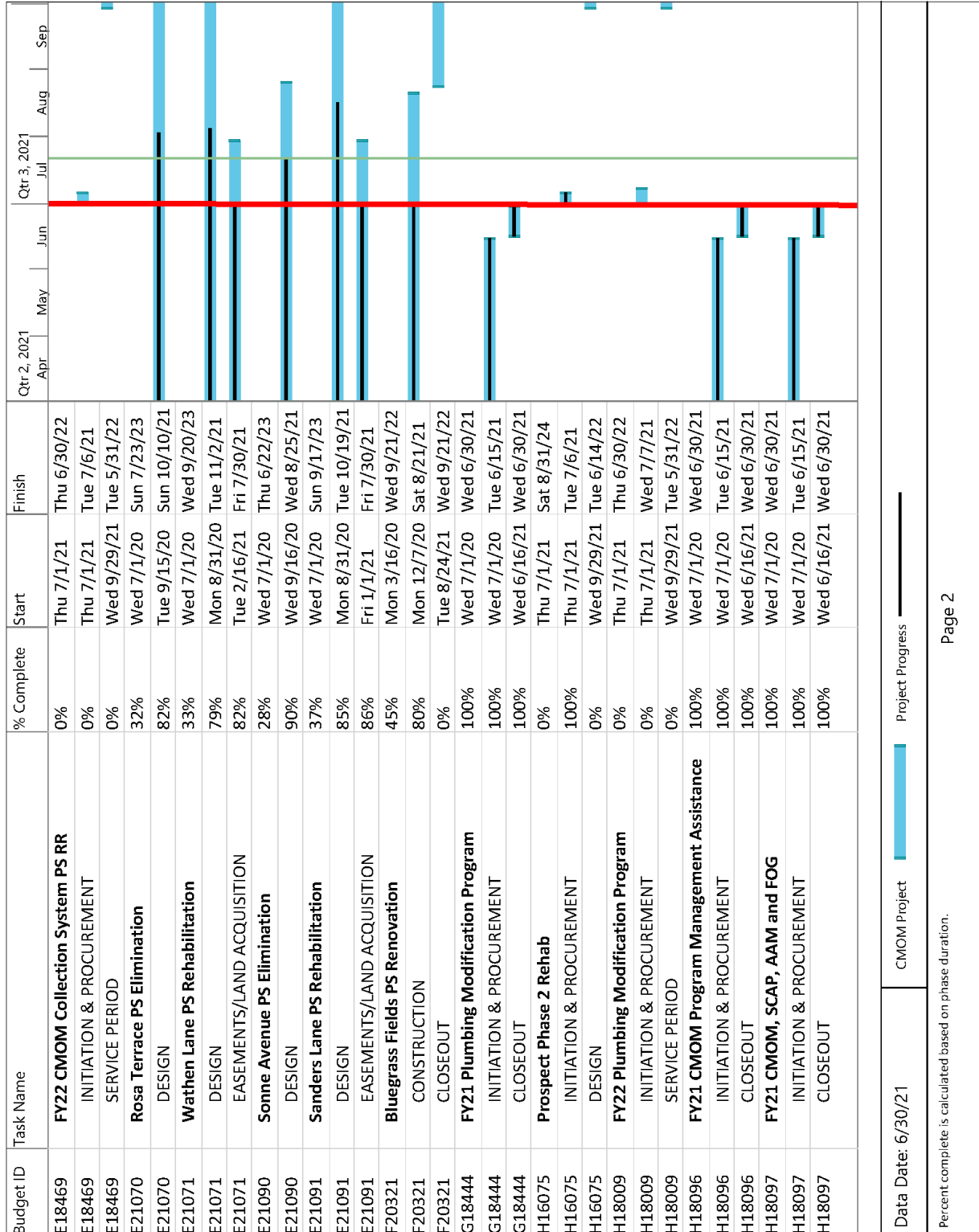
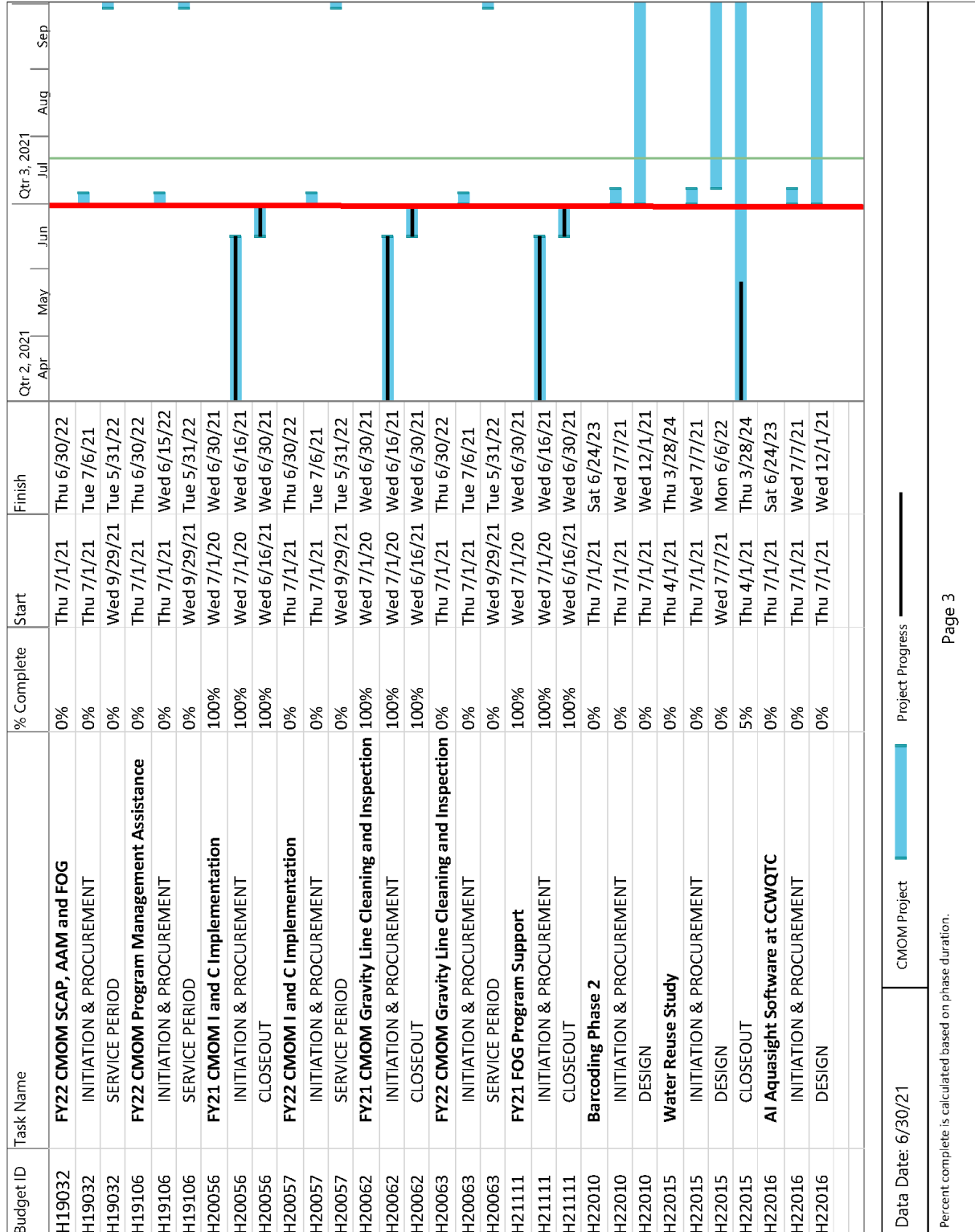


Figure 6.1. CMOM Quarterly Commitments Schedule



APPENDIX A

DISCHARGE WORK ORDERS

APPENDIX A-1

BYPASSES

**No Bypasses
Occurred during
the Reporting
Period**

APPENDIX A-2

DRY WEATHER CSOs



ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD
MORRIS FORMAN	KY0022411	200 W BROADWAY	5/17/2021 12:15	5/17/2021 13:15	2657	Sewer Manhole	CSO035	GROUND	OHIO RIVER	CONTRACTOR WORKING TO REPAIR STRUCTURAL FAILURE. VACTOR DID NOT KEEP UP WITH FLOW.	STRUCTURAL FAILURE	DRY WEATHER DISCHARGE	3374867	NONE POSSIBLE - CENTRAL RELIEF DRAIN.	CONTRACTOR IS REPAIR FAILED LINE.
MORRIS FORMAN	KY0022411	914 E BROADWAY	5/21/2021 18:00	4/21/2021 18:15	236	Sewer Manhole	CSO118	STREAM	SOUTH FORK BEARGRASS CREEK	CONTRACTORS WORKING ON REMOVING THE TRAP WORK CART IN THE SANITARY LINE, AFTER THE CART WAS REMOVED THE SURGE OF FLOW BACK OVER THE DAM.	UTILITY DAMAGED MSD ASSET	DRY WEATHER DISCHARGE	3384105	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO THE IMPROVED CHANNEL.	REPAIRS WILL BE MADE BY CONTRACTOR.

APPENDIX A-3

UNAUTHORIZED DISCHARGES



ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD
FLOYDS FORK	KY0102784	17900 ELLERSLIE DR	4/2/2021 9:44	4/2/2021 10:04	800	Sewer Manhole	118639	CATCH BASIN	BRUSH RUN	CONTRACTOR PLUG IN MH# 117799 AT 2017 CARABINER WAY.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3361900	NO CLEAN REQUIRED -- NO SOLIDS.	FLUSHED MH# 111799 AT 2017 CARABINER NEXT STREET OVER PULLED OUT CONTRACTOR PLUG.
MORRIS FORMAN	KY0022411	4006 ST FRANCIS LN	4/7/2021 15:27	4/12/2021 13:24	200	Sewer Main	18710	GROUND	SOUTH FORK BEARGRASS CREEK	FURTHER INVESTIGATION REQUIRED, TVI PERFORMED.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3364148	NO CLEAN UP REQUIRED NO SOLIDS.	FLUSHED DROP INLET FROM MH# 30699 OPENED MAIN COULD NOT FLUSH PAST DROP TURNED OVER TO TVI INSPECTION.
MORRIS FORMAN	KY0022411	901 MCKINLEY AVE	4/16/2021 11:15	4/16/2021 12:30	30	Sewer Service Line	084B00010000A	CATCH BASIN	SOUTH FORK BEARGRASS CREEK	OBSTRUCTION IN MSD'S MAIN SEWER.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3365584	MSD PERSONNEL WILL CLEAN IMPACTED AREA.	FLUSHED MAIN SEWER TO RESTORE FLOW/ REFERRED TO CREW FOR TV INSPECTION.
MORRIS FORMAN	KY0022411	1726 FRASER DR	4/28/2021 16:30	4/28/2021 18:00	2436	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3370391	CLEAN UP NOT REQUIRED, UNDER GROUND PIPE IS DISCHARGING TO CREEK.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	4/28/2021 18:10	4/30/2021 14:00	2300000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3370393	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	5/5/2021 1:45	5/5/2021 15:45	800000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3371557	NO CLEAN UP PERFORMED -- PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7705 CIRCLE CREST RD	5/27/2021 11:18	5/27/2021 12:32	100	Sewer Manhole	46812	DITCH	GOOSE CREEK	OBSTRUCTION IN THE MAIN SEWER RAGS.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3384838	MSD WILL CLEAN AREA: WO#3384857.	ROOT CUT MAIN FROM MH# 43380 FLUSHED MAIN AS WELL.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	6/3/2021 13:45	6/3/2021 20:45	700000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3387339	NO CLEANUP REQUIRED, THE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY TO CREEK.	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	6/3/2021 15:00	6/3/2021 19:30	300000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3387338	NO CLEANUP REQUIRED, THE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY TO CREEK.	LOCATION INCLUDED IN THE IOAP.

APPENDIX B

CSO FLOW MONITORING DATA

PROJECT WIN QUARTERLY REPORT #63
APRIL 1, 2021 - JUNE 30, 2021



CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO015	3/31/2021 0:45	4/1/2021 4:45	1680	0	23,436,101	1	6	Atlas		18,748,881	1
	6/1/2021 17:00	6/1/2021 17:00	0	0	10,301	1	24	Atlas		8,447	1
	6/3/2021 9:45	6/3/2021 15:00	315	0	48,560,076	1	6	Atlas		41,761,665	1
CSO015 Total										60,518,993	3
CSO016	3/30/2021 23:45	3/31/2021 6:30	405	0	10,082,843	2	6	Cloudburst		7,562,132	1
	4/7/2021 18:00	4/8/2021 2:00	480	0	13,140,544	20	1	Atlas		11,695,084	1
	4/10/2021 13:30	4/10/2021 15:15	105	0	3,039,810	0	12	Atlas		881,545	1
	4/28/2021 15:15	4/29/2021 17:15	1560	2	8,626,127	19	1	Atlas		13,629,280	1
	5/3/2021 4:45	5/3/2021 6:15	90	0	872,446	1	12	Atlas		357,703	1
	5/4/2021 7:30	5/4/2021 11:45	255	0	4,993,799	1	24	Cloudburst		4,744,109	1
	5/5/2021 0:45	5/5/2021 4:30	225	0	4,324,825	1	24	Cloudburst		4,108,584	1
	5/9/2021 11:15	5/9/2021 14:00	165	0	8,123,832	0	1	Atlas		2,518,388	1
	5/26/2021 11:15	5/26/2021 16:15	300	0	7,633,143	2	3	Atlas		5,190,537	1
	6/3/2021 8:45	6/3/2021 17:30	525	1	9,174,532	6	12	Cloudburst		10,183,731	1
	6/6/2021 17:15	6/6/2021 18:30	75	0	858,143	1	1	Atlas		454,816	1
	6/7/2021 4:45	6/7/2021 6:00	75	0	582,370	1	1	Atlas		308,656	1
	6/29/2021 17:00	6/29/2021 20:30	210	0	41,543,417	0	1	Atlas		2,492,605	1
CSO016 Total										64,127,170	13
CSO019	3/30/2021 23:00	3/31/2021 9:45	645	0	68,083	0	6	Atlas		52,424	1
	4/7/2021 17:15	4/8/2021 1:15	480	0	90,939	0	1	Atlas		51,835	1
	4/10/2021 12:45	4/10/2021 15:00	135	0	32,232	0	6	Atlas		8,058	1
	4/21/2021 0:00	4/21/2021 1:00	60	0	4,944	0	6	Atlas		890	1
	4/24/2021 15:30	4/24/2021 16:00	30	0	881	0	6	Atlas		282	1
	4/28/2021 15:00	4/29/2021 22:15	1875	2	609,569	1	24	Atlas		1,036,267	1
	5/3/2021 4:15	5/3/2021 8:00	225	0	41,675	0	12	Atlas		16,670	1
	5/4/2021 7:00	5/5/2021 11:00	1680	0	243,115	0	24	Atlas		145,869	1
	5/9/2021 11:00	5/9/2021 12:45	105	0	24,236	0	3	Atlas		6,786	1
	5/26/2021 10:45	5/26/2021 20:00	555	0	124,892	0	3	Atlas		66,193	1
	6/2/2021 4:45	6/2/2021 12:30	465	0	10,215	0	24	Atlas		6,333	1
	6/2/2021 22:15	6/2/2021 22:45	30	0	1,898	0	24	Atlas		1,177	1
	6/3/2021 8:15	6/3/2021 20:30	735	0	210,345	0	1	Atlas		79,931	1
	6/6/2021 17:00	6/6/2021 18:00	60	0	13,264	0	1	Atlas		3,714	1
	6/7/2021 4:00	6/7/2021 15:15	675	0	69,823	0	1	Atlas		15,361	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	6/8/2021 15:00	6/8/2021 16:45	105	0	20,415	0	24	Atlas		6,737	1
	6/11/2021 17:45	6/11/2021 18:15	30	0	2,428	0	1	Atlas		437	1
	6/29/2021 16:15	6/30/2021 0:30	495	1	378,690	2	1	Atlas		545,314	1
	6/30/2021 14:30	6/30/2021 15:45	75	0	51,025	0	1	Atlas		4,082	1
CSO019 Total										2,048,360	19
CSO022	6/3/2021 9:30	6/3/2021 9:30	0	0	48,586	1	6	Atlas		37,411	1
CSO022 Total										37,411	1
CSO027	6/3/2021 12:30	6/3/2021 12:30	0	0	2,855	503	6	Cloudburst		2,512	1
CSO027 Total										2,512	1
CSO028	6/3/2021 12:15	6/3/2021 12:15	0	0	283,370	503	6	Cloudburst		249,366	1
CSO028 Total										249,366	1
CSO029	5/4/2021 17:15	5/9/2021 12:00	6885	0	8,424,817	501	24	Cloudburst		6,065,868	1
	6/10/2021 9:15	6/10/2021 14:15	300	0	486,000	0	1	Atlas		4,860	1
	6/11/2021 12:15	6/11/2021 12:15	0	0	1,850	1	1	Atlas		111	1
CSO029 Total										6,070,839	3
CSO034	6/3/2021 8:30	6/3/2021 12:15	225	0	205,368	503	6	Cloudburst		180,724	1
	6/29/2021 17:15	6/29/2021 17:15	0	0	8,382	371	1	Atlas		1,844	1
CSO034 Total										182,568	2
CSO035	4/28/2021 15:15	4/28/2021 15:15	0	0	457	1	24	Cloudburst		443	1
	4/29/2021 2:00	4/29/2021 2:00	0	0	8,520	1	24	Cloudburst		8,264	1
	5/3/2021 2:30	5/3/2021 2:45	15	0	20,984	0	12	Atlas		5,246	1
	5/4/2021 7:00	5/4/2021 7:00	0	0	13,696	0	1	Atlas		3,561	1
	6/3/2021 12:15	6/3/2021 12:30	15	1	780,611	9	6	Cloudburst		811,835	1
CSO035 Total										829,349	5
CSO036	4/7/2021 18:00	4/7/2021 18:00	0	0	25,630	1	1	Atlas		8,458	1
	4/10/2021 19:00	4/10/2021 19:00	0	0	4,100	1	12	Atlas		2,050	1
	4/29/2021 2:15	4/29/2021 2:15	0	0	37,918	1	24	Cloudburst		36,780	1
	5/4/2021 7:15	5/4/2021 7:15	0	0	17,735	0	1	Atlas		4,611	1
	6/3/2021 8:45	6/3/2021 12:45	240	1	19,934	9	6	Cloudburst		20,731	1
	6/29/2021 17:45	6/29/2021 17:45	0	0	27,600	0	1	Atlas		3,588	1

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CSO036 Total										76,218	6
CSO038	6/3/2021 12:30	6/3/2021 12:30	0	0	35,560	503	6	Cloudburst		31,293	1
CSO038 Total										31,293	1
CSO050	3/30/2021 22:45	3/31/2021 2:00	195	0	633,991	13	6	Cloudburst		519,873	1
	4/7/2021 17:45	4/7/2021 18:30	45	0	401,761	12	1	Atlas		204,898	1
	4/10/2021 12:15	4/10/2021 19:15	420	0	130,362	1	12	Atlas		48,234	1
	4/24/2021 15:15	4/24/2021 15:30	15	0	6,323	1	12	Atlas		1,897	1
	4/28/2021 15:30	4/28/2021 16:00	30	2	117,521	429	1	Atlas		208,012	1
	4/29/2021 1:15	4/29/2021 16:30	915	2	246,431	429	1	Atlas		436,182	1
	5/3/2021 2:45	5/3/2021 5:00	135	0	45,566	1	12	Atlas		14,581	1
	5/4/2021 7:15	5/4/2021 8:15	60	0	109,673	2	24	Cloudburst		84,448	1
	5/5/2021 0:00	5/5/2021 1:15	75	0	133,474	2	24	Cloudburst		102,775	1
	5/9/2021 10:15	5/9/2021 11:15	60	0	113,972	1	1	Atlas		33,052	1
	5/26/2021 10:30	5/26/2021 12:30	120	0	481,647	9	3	Atlas		337,153	1
	6/2/2021 3:00	6/2/2021 21:45	1125	0	54,743	1	24	Atlas		38,320	1
	6/3/2021 8:30	6/3/2021 13:45	315	0	686,262	12	6	Cloudburst		576,460	1
	6/6/2021 16:45	6/6/2021 17:00	15	0	288,658	0	12	Atlas		32,239	1
	6/7/2021 3:30	6/7/2021 4:15	45	0	392,258	1	1	Atlas		74,529	1
	6/7/2021 13:30	6/7/2021 13:30	0	0	67,020	0	1	Atlas		6,702	1
	6/8/2021 15:00	6/8/2021 15:15	15	0	49,959	0	24	Atlas		15,987	1
	6/11/2021 17:30	6/11/2021 17:30	0	0	9,675	1	1	Atlas		1,548	1
	6/29/2021 17:30	6/29/2021 18:00	30	0	641,504	1	1	Atlas		147,546	1
	6/30/2021 14:15	6/30/2021 14:15	0	0	50,400	0	1	Atlas		5,040	1
CSO050 Total										2,889,476	20
CSO051	3/30/2021 23:30	3/31/2021 1:15	105	0	11,541	13	6	Cloudburst		9,464	1
	4/7/2021 17:30	4/7/2021 18:00	30	0	18,916	12	1	Atlas		9,647	1
	4/28/2021 15:15	4/28/2021 15:30	15	2	3,570	429	1	Atlas		6,319	1
	4/29/2021 1:00	4/29/2021 2:00	60	2	5,194	429	1	Atlas		9,193	1
	4/29/2021 13:15	4/29/2021 13:15	0	2	3,408	429	1	Atlas		6,033	1
	5/4/2021 7:00	5/4/2021 7:00	0	0	2,301	2	24	Cloudburst		1,772	1
	5/4/2021 23:45	5/4/2021 23:45	0	0	3,473	2	24	Cloudburst		2,674	1
	5/26/2021 10:30	5/26/2021 11:30	60	0	32,281	9	3	Atlas		22,597	1
	6/2/2021 11:15	6/2/2021 11:15	0	0	744	1	24	Atlas		521	1
	6/3/2021 8:30	6/3/2021 13:15	285	0	52,635	12	6	Cloudburst		44,213	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO051 Total	6/6/2021 16:30	6/6/2021 16:30	0	0	8,333	0	12	Atlas		1,000	1
	6/29/2021 17:15	6/29/2021 17:30	15	0	61,987	1	1	Atlas		14,257	1
										127,690	12
CSO052 Total	6/3/2021 12:15	6/3/2021 12:15	0	0	572	357	6	Cloudburst		463	1
	6/29/2021 17:15	6/29/2021 17:15	0	0	14,585	7	1	Atlas		3,938	1
										4,401	2
CSO053 Total	5/26/2021 10:30	5/26/2021 12:15	105	0	68,115	342	3	Cloudburst		49,043	1
	6/2/2021 3:00	6/2/2021 3:00	0	0	5,706	7	24	Cloudburst		3,823	1
	6/2/2021 11:30	6/2/2021 11:30	0	0	9,630	7	24	Cloudburst		6,452	1
	6/3/2021 8:45	6/3/2021 12:45	240	0	147,452	357	6	Cloudburst		119,436	1
	6/6/2021 15:15	6/6/2021 16:45	90	0	51,217	0	12	Atlas		6,146	1
	6/7/2021 3:30	6/7/2021 4:00	30	0	54,700	1	1	Atlas		14,769	1
	6/7/2021 13:30	6/7/2021 13:30	0	0	14,352	1	1	Atlas		3,875	1
	6/29/2021 17:30	6/29/2021 17:30	0	0	281,070	7	1	Atlas		75,889	1
CSO053 Total										279,433	8
CSO054	6/3/2021 12:30	6/3/2021 13:15	45	0	87,244	357	6	Cloudburst		70,668	1
CSO054 Total										70,668	1
CSO055	3/30/2021 23:45	3/31/2021 1:45	120	0	134,010	422	6	Cloudburst		111,228	1
	4/7/2021 18:00	4/7/2021 18:00	0	0	40,075	488	1	Atlas		20,438	1
	4/10/2021 19:00	4/10/2021 19:00	0	0	2,084	2	12	Cloudburst		792	1
	4/28/2021 15:15	4/28/2021 15:30	15	2	11,206	501	24	Cloudburst		17,145	1
	4/29/2021 1:15	4/29/2021 2:45	90	2	14,030	501	24	Cloudburst		21,466	1
	4/29/2021 13:30	4/29/2021 13:30	0	2	4,963	501	24	Cloudburst		7,594	1
	5/5/2021 0:00	5/5/2021 0:00	0	0	6	12	24	Atlas		4	1
	5/26/2021 10:30	5/26/2021 11:15	45	0	6,118	342	3	Cloudburst		4,405	1
	6/2/2021 21:45	6/2/2021 21:45	0	0	181	7	24	Cloudburst		121	1
	6/3/2021 8:30	6/3/2021 13:45	315	0	242,263	357	6	Cloudburst		196,233	1
	6/7/2021 3:30	6/7/2021 3:45	15	0	6,548	1	1	Atlas		1,768	1
	6/29/2021 17:30	6/29/2021 17:30	0	0	270,781	7	1	Atlas		73,111	1
CSO055 Total										454,305	12
CSO056	4/7/2021 18:00	4/7/2021 18:00	0	0	11,198	488	1	Atlas		5,711	1
	6/3/2021 8:45	6/3/2021 13:00	255	0	232,696	357	6	Cloudburst		188,484	1
	6/29/2021 17:30	6/29/2021 17:45	15	0	341,922	7	1	Atlas		92,319	1

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CSO056 Total										286,514	3
CSO062	6/3/2021 12:30	6/3/2021 13:00	30	0	3,182,263	2	6	Cloudburst		2,386,697	1
CSO062 Total										2,386,697	1
CSO082	3/31/2021 0:30	3/31/2021 1:30	60	0	18,971	13	6	Cloudburst		12,521	1
	6/3/2021 12:15	6/3/2021 13:30	75	1	97,531	253	1	Atlas		98,506	1
CSO082 Total										111,027	2
CSO083	4/29/2021 2:15	4/29/2021 2:15	0	0	29,327	5	24	Cloudburst		22,875	1
CSO083 Total										22,875	1
CSO088	6/3/2021 12:45	6/3/2021 12:45	0	0	8,176	243	6	Cloudburst		7,195	1
CSO088 Total										7,195	1
CSO092	3/31/2021 0:00	3/31/2021 21:45	1305	0	52,674	17	6	Cloudburst		36,345	1
	4/24/2021 19:30	4/25/2021 14:45	1155	0	75,855	1	12	Atlas		16,688	1
	4/26/2021 4:00	4/26/2021 8:30	270	Discharge	0					5,450	1
	4/28/2021 15:15	4/28/2021 16:30	75	0	591	10	24	Cloudburst		538	1
	4/29/2021 1:15	4/29/2021 14:30	795	0	92	10	24	Cloudburst		84	1
	5/3/2021 2:45	5/3/2021 8:45	240	0	106	1	12	Atlas		37	1
	5/4/2021 7:15	5/4/2021 8:00	45	0	23	6	24	Cloudburst		18	1
	5/5/2021 0:00	5/5/2021 0:30	30	0	8	6	24	Cloudburst		6	1
	5/9/2021 10:15	5/9/2021 14:30	255	0	184	1	1	Atlas		46	1
	6/3/2021 12:15	6/3/2021 12:30	15	0	4,189	15	6	Cloudburst		2,974	1
	6/6/2021 16:30	6/6/2021 16:30	0	0	86	2	1	Atlas		32	1
CSO092 Total										62,218	11
CSO093	6/3/2021 12:15	6/3/2021 12:15	0	0	53	38	1	Atlas		47	1
CSO093 Total										47	1
CSO097	3/30/2021 23:30	3/31/2021 2:15	165	0	204,996	10	6	Cloudburst		161,947	1
	4/10/2021 12:00	4/10/2021 14:00	120	0	49,794	4	6	Cloudburst		34,358	1
	4/28/2021 15:15	4/28/2021 16:15	60	0	98,358	5	24	Cloudburst		93,440	1
	4/29/2021 2:00	4/29/2021 14:15	735	0	99,487	5	24	Cloudburst		94,513	1
	5/3/2021 2:45	5/3/2021 3:15	30	0	40,145	1	12	Atlas		19,671	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	5/4/2021 7:15	5/4/2021 8:15	60	0	56,554	1	1	Atlas		19,794	1
	5/4/2021 23:45	5/5/2021 1:45	120	0	184,398	1	6	Cloudburst		88,511	1
	5/9/2021 10:30	5/9/2021 11:00	30	0	14,400	1	3	Atlas		4,464	1
	5/26/2021 10:45	5/26/2021 12:30	105	0	91,306	3	3	Atlas		48,392	1
	6/3/2021 12:00	6/3/2021 14:00	120	1	343,838	476	1	Atlas		374,783	1
	6/7/2021 3:30	6/7/2021 4:30	60	0	145,197	1	1	Atlas		52,271	1
CSO097 Total										992,144	11
CSO108	4/28/2021 15:00	4/28/2021 15:15	15	1	990,749	0	24	Atlas		1,218,621	1
	6/3/2021 12:15	6/3/2021 12:15	0	1	246,678	1	1	Atlas		355,217	1
CSO108 Total										1,573,838	2
CSO109	4/28/2021 15:15	4/28/2021 15:30	15	1	221,500	1	24	Atlas		230,360	1
	6/3/2021 12:15	6/3/2021 12:30	15	1	161,482	38	1	Atlas		235,764	1
CSO109 Total										466,124	2
CSO111	3/30/2021 23:30	3/31/2021 1:15	105	0	122,855	1	6	Atlas		93,370	1
	5/3/2021 3:00	5/3/2021 3:15	15	0	42,795	0	12	Atlas		16,262	1
	5/26/2021 11:00	5/26/2021 11:30	30	0	16,836	1	3	Atlas		8,418	1
	6/3/2021 12:15	6/3/2021 13:15	60	0	249,642	1	1	Atlas		182,239	1
	6/6/2021 16:45	6/6/2021 16:45	0	0	14,007	1	1	Atlas		5,883	1
	6/7/2021 4:00	6/7/2021 4:15	15	0	57,359	0	1	Atlas		19,502	1
CSO111 Total										325,674	6
CSO113	6/3/2021 12:15	6/3/2021 12:45	30	0	2,475,562	15	6	Cloudburst		1,757,649	1
CSO113 Total										1,757,649	1
CSO117	6/3/2021 12:15	6/3/2021 12:30	15	1	711,745	1	6	Atlas		733,097	1
CSO117 Total										733,097	1
CSO118	3/30/2021 22:45	3/31/2021 2:30	225	0	3,868,558	21	6	Cloudburst		2,785,362	1
	4/7/2021 18:00	4/7/2021 19:30	90	0	4,525,594	3	1	Atlas		1,402,934	1
	4/10/2021 12:00	4/10/2021 20:30	510	0	3,936,476	3	12	Cloudburst		2,125,697	1
	4/11/2021 16:15	4/11/2021 17:45	90	0	300,400	0	6	Atlas		30,040	1
	4/20/2021 23:15	4/21/2021 3:00	225	0	2,997,006	0	6	Atlas		509,491	1
	4/24/2021 15:00	4/24/2021 19:30	270	0	1,885,327	1	12	Atlas		370,772	1
	4/28/2021 15:30	4/29/2021 19:15	1665	0	7,384,222	5	24	Cloudburst		5,759,693	1

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	5/3/2021 3:00	5/3/2021 7:15	255	0	6,481,027	1	12	Atlas		1,944,308	1
	5/4/2021 7:15	5/4/2021 10:15	180	0	6,413,128	1	1	Atlas		1,603,282	1
	5/4/2021 21:30	5/5/2021 4:15	405	0	5,123,509	3	1	Atlas		2,254,344	1
	5/7/2021 23:15	5/8/2021 0:15	60	0	9,861,100	0	3	Atlas		394,444	1
	5/9/2021 10:15	5/9/2021 15:45	330	0	4,489,783	1	3	Atlas		1,077,548	1
	5/26/2021 11:00	5/26/2021 12:45	105	0	2,119,540	12	3	Atlas		1,271,724	1
	6/3/2021 8:45	6/3/2021 13:45	300	0	3,506,508	71	6	Cloudburst		3,190,922	1
	6/6/2021 16:45	6/6/2021 17:15	30	0	1,980,029	1	1	Atlas		613,809	1
	6/7/2021 3:45	6/7/2021 4:45	60	0	2,273,255	1	1	Atlas		659,244	1
	6/29/2021 17:45	6/29/2021 18:00	15	0	4,786,700	0	1	Atlas		143,601	1
CSO118 Total										26,137,215	17
CSO119	4/7/2021 17:45	4/7/2021 18:15	30	0	145,274	3	1	Atlas		45,035	1
	4/10/2021 12:15	4/10/2021 19:00	405	0	102,839	3	12	Cloudburst		55,533	1
	4/28/2021 15:15	4/28/2021 15:45	30	0	161,077	5	24	Cloudburst		125,640	1
	4/29/2021 1:00	4/29/2021 2:30	90	0	207,622	5	24	Cloudburst		161,945	1
	4/29/2021 13:30	4/29/2021 13:45	15	0	59,646	5	24	Cloudburst		46,524	1
	5/3/2021 2:45	5/3/2021 3:00	15	0	190,117	1	12	Atlas		57,035	1
	5/4/2021 7:00	5/4/2021 8:00	60	0	396,516	1	1	Atlas		99,129	1
	5/4/2021 23:45	5/5/2021 0:45	60	0	268,277	3	1	Atlas		118,042	1
	5/9/2021 10:30	5/9/2021 10:45	15	0	146,596	1	3	Atlas		35,183	1
	5/26/2021 10:45	5/26/2021 12:15	90	0	354,297	12	3	Atlas		212,578	1
	6/3/2021 8:30	6/3/2021 13:15	285	0	419,824	71	6	Cloudburst		382,040	1
	6/6/2021 16:30	6/6/2021 16:45	15	0	266,700	1	1	Atlas		82,677	1
	6/7/2021 3:30	6/7/2021 4:15	45	0	529,666	1	1	Atlas		153,603	1
CSO119 Total										1,574,964	13
CSO120	4/10/2021 11:45	4/10/2021 12:45	60	0	15,478	3	12	Cloudburst		8,513	1
	4/10/2021 21:30	4/11/2021 2:45	315	0	3,195	3	12	Cloudburst		1,757	1
CSO120 Total										10,270	2
CSO121	5/26/2021 11:00	5/26/2021 12:00	60	0	50,886	10	3	Atlas		29,005	1
	6/6/2021 16:45	6/6/2021 17:15	30	0	116,178	1	1	Atlas		31,368	1
	6/7/2021 3:30	6/7/2021 4:45	75	0	136,596	1	3	Atlas		35,515	1
CSO121 Total										95,888	3

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO125	4/10/2021 12:15	4/10/2021 14:15	120	0	13.587	1	6	Atlas		11,277	1
	4/28/2021 16:15	4/28/2021 16:30	15	1	4.108	1	24	Atlas		4,847	1
	4/29/2021 1:30	4/29/2021 2:45	75	1	17.358	1	24	Atlas		20,483	1
	4/29/2021 13:45	4/29/2021 14:00	15	1	10.148	1	24	Atlas		11,975	1
	5/5/2021 0:30	5/5/2021 1:00	30	0	27.611	1	24	Atlas		20,984	1
	5/9/2021 10:30	5/9/2021 11:00	30	0	207.958	0	3	Atlas		49,910	1
	5/26/2021 11:00	5/26/2021 12:00	60	0	299.544	1	3	Atlas		149,772	1
	6/7/2021 4:00	6/7/2021 4:00	0	0	93	1	1	Atlas		38	1
CSO125 Total										269,286	8
CSO126	3/31/2021 0:00	3/31/2021 1:30	90	0	13.100	1	6	Atlas		9,301	1
	4/10/2021 13:45	4/10/2021 14:15	30	0	10.941	1	6	Atlas		9,081	1
	5/5/2021 0:45	5/5/2021 2:00	75	0	13.757	1	24	Atlas		10,455	1
	5/26/2021 11:00	5/26/2021 11:00	0	0	186	1	3	Atlas		93	1
	6/3/2021 12:45	6/3/2021 13:45	60	0	49.889	1	1	Atlas		43,902	1
	6/7/2021 4:00	6/7/2021 4:00	0	0	27	1	1	Atlas		11	1
CSO126 Total										72,843	6
CSO127	3/30/2021 22:45	3/31/2021 2:00	195	0	62.996	8	6	Cloudburst		46,617	1
	4/7/2021 18:00	4/7/2021 18:45	45	0	63.865	4	1	Atlas		27,462	1
	4/10/2021 11:45	4/10/2021 15:45	240	0	36.049	6	6	Cloudburst		26,316	1
	4/24/2021 15:15	4/24/2021 15:30	15	0	16.941	0	12	Atlas		4,574	1
	4/28/2021 15:15	4/28/2021 16:15	60	1	904.583	18	24	Atlas		1,148,820	1
	4/29/2021 1:15	4/29/2021 14:15	780	1	561.318	18	24	Atlas		712,874	1
	5/3/2021 2:45	5/3/2021 5:00	135	0	247.461	1	12	Atlas		121,256	1
	5/4/2021 7:15	5/4/2021 8:30	75	0	446.405	1	1	Atlas		178,562	1
	5/5/2021 0:00	5/5/2021 2:00	120	0	543.510	1	3	Atlas		271,755	1
	5/9/2021 10:15	5/9/2021 11:15	60	0	111.086	1	3	Atlas		32,215	1
	5/26/2021 10:45	5/26/2021 16:00	315	0	287.161	4	3	Atlas		163,682	1
	6/2/2021 3:15	6/2/2021 3:15	0	0	501	1	24	Cloudburst		346	1
	6/2/2021 11:30	6/2/2021 11:45	15	0	14.233	1	24	Cloudburst		9,821	1
	6/3/2021 8:45	6/3/2021 13:30	285	1	801.391	312	1	Atlas		817,419	1
	6/6/2021 17:00	6/6/2021 17:00	0	0	11.388	0	1	Atlas		1,822	1
	6/7/2021 3:30	6/7/2021 4:45	75	0	130.359	2	1	Atlas		57,358	1
CSO127 Total										3,620,899	16

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CSO130	6/3/2021 12:45	6/3/2021 12:45	0	0	16,984	243	6	Cloudburst		14,946	1
CSO130 Total										14,946	1
CSO132	3/30/2021 23:30	3/31/2021 23:00	1410	0	44,915	1	6	Cloudburst		29,644	1
	4/10/2021 13:15	4/10/2021 23:00	585	0	107,695	2	12	Cloudburst		91,541	1
	4/28/2021 15:00	4/29/2021 23:00	1920	1	867,069	3	24	Cloudburst		971,117	1
	5/3/2021 2:45	5/5/2021 23:00	4095	0	8,877	0	12	Atlas		3,107	1
	5/26/2021 10:45	5/26/2021 23:00	735	0	315	1	3	Atlas		151	1
	6/3/2021 12:00	6/3/2021 23:00	660	0	944,386	8	1	Atlas		868,835	1
	6/7/2021 3:45	6/7/2021 23:00	1155	0	20,744	1	1	Atlas		5,601	1
CSO132 Total										1,969,996	7
CSO140	6/3/2021 12:30	6/3/2021 12:30	0	0	29,956	38	1	Atlas		26,661	1
CSO140 Total										26,661	1
CSO141	4/7/2021 18:00	4/7/2021 18:00	0	0	230	1	1	Atlas		62	1
	4/10/2021 18:45	4/10/2021 18:45	0	0	736	3	12	Cloudburst		405	1
	6/3/2021 8:30	6/3/2021 12:15	225	1	89,795	253	1	Atlas		90,693	1
CSO141 Total										91,160	3
CSO142	3/31/2021 0:30	3/31/2021 0:30	0	0	274	1	6	Atlas	Retained by Sheads Branch	181	1
	4/28/2021 15:15	4/28/2021 15:30	15	0	31,045	500	6	Cloudburst	Retained by Sheads Branch	27,009	1
	6/3/2021 12:15	6/3/2021 12:30	15	0	36,297	500	6	Cloudburst		27,586	1
CSO142 Total										54,776	3
CSO146	6/3/2021 12:30	6/3/2021 12:30	0	0	24,429	501	6	Cloudburst		18,566	1
CSO146 Total										18,566	1
CSO148	3/30/2021 23:30	3/31/2021 1:15	105	0	32,810	10	6	Cloudburst		25,920	1
	4/7/2021 18:15	4/7/2021 18:15	0	0	1,215	3	1	Atlas		486	1
	4/10/2021 11:45	4/10/2021 14:00	135	0	9,783	4	6	Cloudburst		6,750	1
	4/28/2021 15:15	4/28/2021 15:30	15	0	35,491	5	24	Cloudburst		33,716	1
	4/29/2021 13:30	4/29/2021 13:30	0	0	1,938	5	24	Cloudburst		1,841	1
	5/3/2021 2:45	5/3/2021 3:00	15	0	15,535	1	12	Atlas		7,612	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	5/5/2021 0:30	5/5/2021 1:15	45	0	431	1	6	Cloudburst		207	1
	5/9/2021 10:15	5/9/2021 10:15	0	0	1,968	1	3	Atlas		610	1
	5/26/2021 10:45	5/26/2021 11:15	30	0	18,109	3	3	Atlas		9,598	1
	6/3/2021 12:15	6/3/2021 12:45	30	1	137,775	476	1	Atlas		150,175	1
	6/7/2021 3:45	6/7/2021 4:00	15	0	48,717	1	1	Atlas		17,538	1
CSO148 Total										254,453	11
CSO149	6/3/2021 12:30	6/3/2021 12:30	0	0	68,583	501	6	Cloudburst		52,123	1
CSO149 Total										52,123	1
CSO151	3/30/2021 23:45	3/31/2021 2:45	180	0	369,918	0	6	Atlas		270,040	1
	4/7/2021 18:15	4/7/2021 19:00	45	0	154,393	0	1	Atlas		46,318	1
	4/10/2021 12:00	4/10/2021 15:45	225	0	436,295	0	6	Atlas		248,688	1
	4/24/2021 15:30	4/24/2021 15:45	15	0	18,413	0	12	Atlas		4,235	1
	4/28/2021 15:30	4/28/2021 16:30	60	0	203,722	0	24	Atlas		191,499	1
	4/29/2021 1:30	4/29/2021 14:45	795	0	297,628	0	24	Atlas		279,770	1
	5/3/2021 3:00	5/3/2021 5:30	150	0	257,405	0	12	Atlas		105,536	1
	5/4/2021 7:30	5/4/2021 8:45	75	0	182,727	0	24	Atlas		151,663	1
	5/4/2021 22:00	5/5/2021 2:15	255	0	296,917	0	24	Atlas		246,441	1
	5/9/2021 10:30	5/9/2021 11:45	75	0	341,364	0	1	Atlas		85,341	1
	5/26/2021 11:15	5/26/2021 13:30	135	0	387,122	0	3	Atlas		212,917	1
	6/2/2021 11:45	6/2/2021 12:00	15	0	30,458	0	24	Atlas		18,275	1
	6/3/2021 9:00	6/3/2021 13:45	285	0	1,036,321	0	1	Atlas		756,514	1
	6/6/2021 17:00	6/6/2021 17:15	15	0	35,430	0	1	Atlas		11,692	1
	6/7/2021 4:00	6/7/2021 5:00	60	0	675,758	0	1	Atlas		223,000	1
CSO151 Total										2,851,929	15
CSO153	3/30/2021 22:30	3/31/2021 1:45	195	0	480,461	13	6	Cloudburst		317,104	1
	4/7/2021 17:45	4/7/2021 18:15	30	0	612,137	1	1	Atlas		165,277	1
	4/10/2021 11:45	4/10/2021 19:00	435	0	522,380	3	12	Cloudburst		287,309	1
	4/24/2021 15:15	4/24/2021 15:15	0	0	6,748	1	12	Atlas		1,552	1
	4/28/2021 15:15	4/28/2021 15:45	30	0	257,585	4	24	Cloudburst		188,037	1
	4/29/2021 1:15	4/29/2021 14:00	765	0	229,134	4	24	Cloudburst		167,268	1
	5/3/2021 2:45	5/3/2021 4:45	120	0	272,785	1	12	Atlas		73,652	1
	5/4/2021 7:00	5/4/2021 8:00	60	0	124,746	2	24	Cloudburst		78,590	1
	5/4/2021 1:15	5/5/2021 1:15	90	0	271,483	2	24	Cloudburst		171,034	1
	5/9/2021 10:15	5/9/2021 11:00	45	0	169,400	1	3	Atlas		38,962	1

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	5/26/2021 10:45	5/26/2021 12:45	120	0	185,151	10	3	Atlas		105,536	1
	5/28/2021 0:30	5/28/2021 1:00	30	0	53,513	1	12	Atlas		17,124	1
	6/1/2021 13:45	6/1/2021 13:45	0	0	1,829	1	24	Atlas		951	1
	6/2/2021 11:30	6/2/2021 12:15	45	0	21,485	1	24	Atlas		11,172	1
	6/3/2021 8:45	6/3/2021 13:00	255	1	374,545	253	1	Atlas		378,290	1
	6/6/2021 16:45	6/6/2021 17:15	30	0	56,500	1	1	Atlas		15,255	1
	6/7/2021 3:30	6/7/2021 4:30	60	0	249,477	1	3	Atlas		64,864	1
	6/30/2021 9:00	6/30/2021 9:00	0	0	142,033	0	1	Atlas		4,261	1
CSO153 Total										2,086,238	18
CSO154 Total	6/3/2021 12:00	6/3/2021 12:15	15	0	1,380	8	1	Atlas		1,270	1
										1,270	1
CSO160 Total	6/3/2021 12:30	6/3/2021 12:30	0	0	35,189	8	6	Cloudburst		26,392	1
										26,392	1
CSO161 Total	5/4/2021 23:45	5/4/2021 23:45	0	0	3,151	2	24	Cloudburst		2,300	1
	6/3/2021 8:30	6/3/2021 12:30	240	0	42,932	8	6	Cloudburst		32,199	1
	6/6/2021 16:30	6/6/2021 16:30	0	0	19,131	0	3	Atlas		3,061	1
	6/29/2021 17:15	6/29/2021 17:30	15	0	22,535	1	1	Atlas		5,859	1
CSO161 Total										43,419	4
CSO166 Total	3/30/2021 23:45	3/31/2021 3:00	195	0	2,302,012	8	6	Cloudburst		1,703,489	1
	4/7/2021 18:30	4/7/2021 19:15	45	0	625,956	4	1	Atlas		289,161	1
	4/10/2021 12:30	4/10/2021 15:15	165	0	467,388	6	6	Cloudburst		341,193	1
	4/28/2021 15:15	4/29/2021 15:30	1455	1	3,755,712	18	24	Atlas		4,769,754	1
	5/3/2021 3:15	5/3/2021 3:45	30	0	250,424	1	12	Atlas		122,708	1
	5/4/2021 7:30	5/4/2021 8:45	75	0	1,659,130	1	1	Atlas		663,652	1
	5/4/2021 23:15	5/5/2021 2:30	195	0	1,824,844	1	3	Atlas		912,422	1
	5/9/2021 10:45	5/9/2021 11:30	45	0	663,800	1	3	Atlas		192,502	1
	5/26/2021 11:00	5/26/2021 12:30	90	0	384,788	4	3	Atlas		219,329	1
	6/3/2021 12:30	6/3/2021 16:15	225	1	300,043	312	1	Atlas		306,044	1
	6/7/2021 4:00	6/7/2021 5:00	60	0	537,911	2	1	Atlas		236,681	1
CSO166 Total										9,736,935	11
CSO167 Total	3/30/2021 23:45	3/31/2021 23:00	1395	0	730	1	6	Cloudburst		482	1
	4/10/2021 13:15	4/10/2021 23:00	585	0	1,752	2	12	Cloudburst		1,489	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	4/28/2021 15:00	4/29/2021 23:00	1920	1	14,099	3	24	Cloudburst		15,791	1
	5/26/2021 10:45	5/26/2021 23:00	735	0	6	1	3	Atlas		3	1
	6/3/2021 12:00	6/3/2021 23:00	660	0	15,355	8	1	Atlas		14,127	1
	6/7/2021 3:45	6/7/2021 23:00	1155	0	337	1	1	Atlas		91	1
CSO167 Total										31,983	6
CSO174	3/30/2021 23:45	3/31/2021 1:30	105	0	369,689	2	6	Cloudburst	Retained by Sneads Branch	243,995	1
	4/7/2021 17:45	4/7/2021 18:15	30	0	160,289	500	6	Cloudburst	Retained by Sneads Branch	56,101	1
	4/28/2021 15:15	4/28/2021 15:45	30	0	158,374	2	6	Cloudburst	Retained by Sneads Branch	137,785	1
	4/29/2021 2:15	4/29/2021 2:15	0	0	81,886	1	1	Atlas	Retained by Sneads Branch	71,241	1
	4/29/2021 13:45	4/29/2021 13:45	0	0	19,414	371	1	Atlas	Retained by Sneads Branch	16,890	1
	5/3/2021 2:45	5/3/2021 3:00	15	0	160,454	371	1	Atlas	Retained by Sneads Branch	44,927	1
	5/4/2021 7:15	5/4/2021 7:15	0	0	25,687	1	1	Atlas	Retained by Sneads Branch	7,963	1
	5/5/2021 0:30	5/5/2021 0:30	0	0	126,855	0	6	Atlas	Retained by Sneads Branch	48,205	1
	5/9/2021 10:15	5/9/2021 10:30	15	0	75,893	0	6	Atlas	Retained by Sneads Branch	20,491	1
	5/26/2021 10:45	5/26/2021 11:15	30	0	261,987	18	12	Atlas	Retained by Sneads Branch	141,473	1
	6/3/2021 8:45	6/3/2021 12:45	240	0	2,572,149	0	6	Atlas		1,954,833	1
	6/6/2021 16:30	6/6/2021 16:45	15	0	1,018,885	0	12	Atlas	Retained by Sneads Branch	264,910	1
	6/7/2021 3:45	6/7/2021 4:00	15	0	408,464	0	12	Atlas	Retained by Sneads Branch	102,116	1
CSO174 Total										3,110,930	13
CSO180	3/30/2021 23:45	3/31/2021 1:15	90	0	89,564	0	12	Atlas	Retained by Sneads Branch	59,112	1
	4/7/2021 18:00	4/7/2021 18:15	15	0	50,611	401	24	Cloudburst	Retained by Sneads Branch	17,714	1
	4/10/2021 12:15	4/10/2021 12:15	0	0	2,649	401	24	Cloudburst	Retained by Sneads Branch	1,086	1
	4/28/2021 15:15	4/28/2021 15:45	30	0	60,379	401	24	Cloudburst	Retained by Sneads Branch	52,530	1

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	4/29/2021 1:15	4/29/2021 2:15	60	0	58,983	1	24	Atlas	Retained by Sneads Branch	51,315	1
	5/3/2021 3:00	5/3/2021 3:00	0	0	31,529	1	24	Atlas	Retained by Sneads Branch	8,828	1
	5/4/2021 7:15	5/4/2021 7:15	0	0	50,190	1	24	Cloudburst	Retained by Sneads Branch	15,559	1
	5/5/2021 0:00	5/5/2021 0:30	30	0	18,063	401	24	Cloudburst	Retained by Sneads Branch	6,864	1
	5/9/2021 10:15	5/9/2021 10:15	0	0	12,963	1	24	Atlas	Retained by Sneads Branch	3,500	1
	5/26/2021 10:45	5/26/2021 11:15	30	0	41,798	1	24	Atlas	Retained by Sneads Branch	22,571	1
	5/28/2021 0:30	5/28/2021 0:30	0	0	437	401	24	Cloudburst	Retained by Sneads Branch	83	1
	6/3/2021 8:45	6/3/2021 12:45	240	0	238,405	1	24	Cloudburst		181,188	1
	6/6/2021 16:30	6/6/2021 16:45	15	0	294,485	401	24	Cloudburst	Retained by Sneads Branch	76,566	1
	6/7/2021 3:30	6/7/2021 4:00	30	0	20,080	1	24	Cloudburst	Retained by Sneads Branch	5,020	1
CSO180 Total										501,936	14
CSO181	6/3/2021 12:15	6/3/2021 12:15	0	1	612,180	9	6	Cloudburst		636,667	1
CSO181 Total										636,667	1
CSO182	4/10/2021 12:00	4/10/2021 14:30	150	0	420,352	3	12	Cloudburst	Retained by Sneads Branch	176,548	1
	4/20/2021 23:45	4/21/2021 1:15	90	0	154,050	0	12	Atlas	Retained by Sneads Branch	24,648	1
	4/24/2021 14:45	4/24/2021 15:45	60	0	43,135	0	12	Atlas	Retained by Sneads Branch	9,921	1
	4/28/2021 15:30	4/28/2021 16:30	60	1	7,702	3	12	Cloudburst	Retained by Sneads Branch	8,164	1
	4/29/2021 1:30	4/29/2021 14:45	795	1	17,048	0	12	Atlas	Retained by Sneads Branch	18,071	1
	5/3/2021 3:00	5/3/2021 5:30	150	0	41,115	35	1	Atlas	Retained by Sneads Branch	13,568	1
	5/4/2021 7:15	5/4/2021 8:45	90	0	30,400	35	1	Atlas	Retained by Sneads Branch	8,208	1
	5/4/2021 21:45	5/5/2021 2:15	270	0	26,029	0	1	Atlas	Retained by Sneads Branch	11,713	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	5/9/2021 10:30	5/9/2021 11:45	75	0	21,063	1	1	Atlas	Retained by Sneads Branch	5,055	1
	5/26/2021 11:00	5/26/2021 13:30	150	0	57,854	0	1	Atlas	Retained by Sneads Branch	31,241	1
	5/28/2021 0:45	5/28/2021 1:00	15	0	7,935	0	6	Atlas	Retained by Sneads Branch	2,698	1
	6/2/2021 3:15	6/2/2021 14:45	690	0	29,955	0	6	Atlas	Retained by Sneads Branch	15,876	1
	6/3/2021 8:45	6/3/2021 14:00	315	0	962,692	26	3	Cloudburst		577,615	1
	6/6/2021 6:45	6/6/2021 6:45	0	0	897	26	3	Cloudburst	Retained by Sneads Branch	323	1
	6/6/2021 16:30	6/6/2021 17:30	60	0	967,975	1	6	Atlas	Retained by Sneads Branch	348,471	1
	6/7/2021 3:30	6/7/2021 5:00	90	0	799,547	3	1	Atlas	Retained by Sneads Branch	239,864	1
	6/8/2021 15:15	6/8/2021 15:15	0	0	985	3	1	Atlas	Retained by Sneads Branch	256	1
CSO182 Total										1,492,240	17
CSO183	4/24/2021 10:00	4/24/2021 10:00	0	0	204	0	1	Atlas	Retained by Sneads Branch	49	1
	6/3/2021 12:15	6/3/2021 12:30	15	0	31,011	0	1	Atlas		22,638	1
	6/6/2021 16:30	6/6/2021 16:30	0	0	6,163	389	3	Cloudburst	Retained by Sneads Branch	2,835	1
CSO183 Total										25,522	3
CSO184	3/31/2021 0:30	3/31/2021 0:30	0	0	1,822	389	3	Cloudburst	Retained by Sneads Branch	1,348	1
	6/3/2021 12:15	6/3/2021 12:30	15	0	460,001	1	3	Atlas		335,801	1
	6/6/2021 16:30	6/6/2021 16:30	0	0	39,020	1	3	Atlas	Retained by Sneads Branch	17,949	1
CSO184 Total										355,098	3
CSO185	3/30/2021 23:45	3/31/2021 1:15	90	0	37,361	1	24	Atlas	Retained by Sneads Branch	27,647	1
	4/7/2021 18:00	4/7/2021 18:00	0	0	42	0	1	Atlas	Retained by Sneads Branch	16	1
	4/28/2021 15:30	4/28/2021 15:30	0	0	6,700	0	24	Atlas	Retained by Sneads Branch	6,298	1
	4/29/2021 2:15	4/29/2021 2:15	0	0	18,323	501	6	Cloudburst	Retained by Sneads Branch	17,224	1

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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	4/29/2021 13:45	4/29/2021 13:45	0	0	105	501	6	Cloudburst	Retained by Sneads Branch	99	1
	5/3/2021 2:45	5/3/2021 3:00	15	0	12,739	1	6	Atlas	Retained by Sneads Branch	4,586	1
	5/4/2021 7:15	5/4/2021 7:15	0	0	8,631	501	6	Cloudburst	Retained by Sneads Branch	2,503	1
	5/5/2021 0:30	5/5/2021 0:30	0	0	6,391	2	6	Cloudburst	Retained by Sneads Branch	3,451	1
	5/26/2021 11:00	5/26/2021 11:15	15	0	10,372	2	6	Cloudburst	Retained by Sneads Branch	5,601	1
	6/3/2021 12:15	6/3/2021 12:45	30	0	597,684	2	6	Cloudburst		436,309	1
	6/6/2021 16:30	6/6/2021 16:45	15	0	244,835	501	6	Cloudburst	Retained by Sneads Branch	112,624	1
	6/7/2021 3:45	6/7/2021 4:00	15	0	30,045	1	6	Atlas	Retained by Sneads Branch	9,915	1
CSO185 Total										626,273	12
CSO187	6/6/2021 16:15	6/6/2021 16:15	0	0	3,592	0	1	Atlas	Retained by Sneads Branch	934	1
CSO187 Total										934	1
CSO188	6/3/2021 12:15	6/3/2021 12:30	15	0	28,261	9	1	Atlas		21,478	1
CSO188 Total										21,478	1
CSO190	3/31/2021 1:00	3/31/2021 1:15	15	0	1,002	13	6	Cloudburst		822	1
	4/7/2021 17:30	4/7/2021 18:00	30	0	149,843	12	1	Atlas		76,420	1
	4/28/2021 15:15	4/28/2021 15:30	15	2	57,778	429	1	Atlas		102,267	1
	4/29/2021 13:15	4/29/2021 13:15	0	2	15	429	1	Atlas		27	1
	5/4/2021 7:00	5/4/2021 7:15	15	0	47,895	2	24	Cloudburst		36,879	1
	5/26/2021 10:45	5/26/2021 11:00	15	0	1,439	9	3	Atlas		1,007	1
	6/3/2021 8:30	6/3/2021 12:30	240	0	160,932	12	6	Cloudburst		135,183	1
	6/29/2021 17:30	6/29/2021 17:45	15	0	83,822	1	1	Atlas		19,279	1
CSO190 Total										371,884	8
CSO191	3/31/2021 0:45	3/31/2021 4:00	195	0	1,006,068	1	6	Atlas		804,854	1
	6/3/2021 12:45	6/3/2021 15:00	135	0	2,181,023	1	6	Atlas		1,875,680	1
CSO191 Total										2,680,534	2
CSO193	4/7/2021 18:00	4/7/2021 18:00	0	0	374	501	1	Atlas		131	1
	4/10/2021 19:00	4/10/2021 19:00	0	0	3,720	371	1	Atlas		1,674	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	4/29/2021 2:15	4/29/2021 2:15	0	1	3,003	504	24	Cloudburst		3,604	1
	5/4/2021 7:15	5/4/2021 7:15	0	0	346	501	24	Cloudburst		249	1
	6/3/2021 8:30	6/3/2021 12:30	240	0	122,743	503	6	Cloudburst		108,014	1
CSO193 Total										113,672	5
CSO195	6/3/2021 12:15	6/3/2021 12:15	0	0	74,160	501	6	Cloudburst		68,969	1
CSO195 Total										68,969	1
CSO196	4/7/2021 17:45	4/7/2021 17:45	0	0	156	500	1	Atlas		64	1
	4/10/2021 18:45	4/10/2021 18:45	0	0	8,945	11	12	Atlas		3,757	1
	4/29/2021 2:00	4/29/2021 2:00	0	0	2	394	24	Cloudburst		2	1
	5/4/2021 7:00	5/4/2021 7:00	0	0	1,141	29	1	Atlas		365	1
	6/3/2021 8:30	6/3/2021 8:30	0	0	34	501	6	Cloudburst		32	1
CSO196 Total										4,220	5
CSO197	6/3/2021 8:15	6/3/2021 12:00	225	0	763	501	6	Cloudburst		710	1
CSO197 Total										710	1
CSO198	6/3/2021 12:00	6/3/2021 12:15	15	0	5,904	501	6	Cloudburst		5,491	1
CSO198 Total										5,491	1
CSO199	4/7/2021 17:30	4/7/2021 18:00	30	0	3,429	500	1	Atlas		1,406	1
	4/10/2021 19:00	4/10/2021 19:00	0	0	1,562	11	12	Atlas		656	1
	4/28/2021 15:30	4/28/2021 16:30	60	0	1,643	394	24	Cloudburst		1,577	1
	4/29/2021 1:15	4/29/2021 14:45	810	0	1,632	394	24	Cloudburst		1,567	1
	5/3/2021 2:45	5/3/2021 3:00	15	0	5,500	1	12	Cloudburst		1,485	1
	5/4/2021 7:15	5/4/2021 7:15	0	0	416	29	1	Atlas		133	1
	5/26/2021 11:00	5/26/2021 17:45	405	0	247	500	3	Cloudburst		163	1
	6/2/2021 5:00	6/2/2021 19:00	840	0	195	15	24	Atlas		111	1
	6/3/2021 8:45	6/3/2021 12:45	240	0	32,162	501	6	Cloudburst		29,911	1
	6/6/2021 16:45	6/6/2021 16:45	0	0	0	1	3	Atlas		0	1
	6/29/2021 20:00	6/29/2021 20:00	0	0	7	2	1	Atlas		1	1
CSO199 Total										37,010	11
CSO201	4/7/2021 18:00	4/7/2021 18:00	0	0	15,814	501	1	Atlas		5,535	1
	4/10/2021 19:00	4/10/2021 19:00	0	0	2,560	371	1	Atlas		1,152	1
	4/29/2021 2:15	4/29/2021 2:15	0	1	765	504	24	Cloudburst		918	1
	6/3/2021 8:45	6/3/2021 12:30	225	0	76,763	503	6	Cloudburst		67,551	1

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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO201 Total										75,156	4
CSO202	3/31/2021 0:15	3/31/2021 0:30	15	0	1,262	500	6	Cloudburst		871	1
	4/7/2021 17:30	4/7/2021 18:00	30	0	10,132	500	1	Atlas		4,154	1
	4/10/2021 19:00	4/10/2021 19:00	0	0	2,779	11	12	Atlas		1,167	1
	4/28/2021 15:30	4/28/2021 15:30	0	0	3,395	394	24	Cloudburst		3,259	1
	4/29/2021 1:15	4/29/2021 2:15	60	0	2,873	394	24	Cloudburst		2,758	1
	4/29/2021 13:30	4/29/2021 13:30	0	0	889	394	24	Cloudburst		853	1
	5/3/2021 2:45	5/3/2021 2:45	0	0	8,185	1	12	Cloudburst		2,210	1
	5/4/2021 7:15	5/4/2021 7:15	0	0	2,000	29	1	Atlas		640	1
	5/9/2021 10:15	5/9/2021 10:15	0	0	73	1	1	Atlas		19	1
	6/3/2021 8:30	6/3/2021 12:30	240	0	15,002	501	6	Cloudburst		13,952	1
	6/7/2021 3:30	6/7/2021 3:45	15	0	210	3	1	Atlas		42	1
CSO202 Total										29,925	11
CSO203	4/7/2021 17:30	4/7/2021 17:30	0	0	4,888	500	1	Atlas		2,004	1
	4/28/2021 15:30	4/28/2021 15:30	0	0	199	394	24	Cloudburst		191	1
	6/3/2021 12:30	6/3/2021 12:30	0	0	10,134	501	6	Cloudburst		9,425	1
CSO203 Total										11,620	3
CSO205	3/30/2021 22:30	3/31/2021 1:45	195	0	2,889	9	1	Atlas	Retained by Sneads Branch	2,138	1
	4/7/2021 17:30	4/7/2021 18:30	60	0	3,495	9	1	Atlas	Retained by Sneads Branch	1,363	1
	4/10/2021 11:45	4/10/2021 14:00	135	0	2,940	0	1	Atlas	Retained by Sneads Branch	1,235	1
	4/24/2021 15:15	4/24/2021 15:15	0	0	83	1	1	Atlas	Retained by Sneads Branch	19	1
	4/28/2021 15:15	4/28/2021 15:30	15	1	402	1	1	Atlas	Retained by Sneads Branch	426	1
	4/29/2021 1:15	4/29/2021 14:00	765	1	405	1	1	Atlas	Retained by Sneads Branch	429	1
	5/3/2021 2:45	5/3/2021 3:00	15	0	458	0	1	Atlas	Retained by Sneads Branch	151	1
	5/4/2021 7:15	5/4/2021 8:00	45	0	544	16	1	Atlas	Retained by Sneads Branch	147	1
	5/4/2021 21:30	5/5/2021 1:30	240	0	1,220	0	1	Atlas	Retained by Sneads Branch	549	1
	5/9/2021 10:15	5/9/2021 10:15	0	0	4	0	1	Atlas	Retained by Sneads Branch	1	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	6/3/2021 12:15	6/3/2021 12:30	15	0	12,312	16	1	Atlas		7,387	1
	6/6/2021 16:30	6/6/2021 16:30	0	0	2,214	1	1	Atlas	Retained by Sheads Branch	797	1
	6/7/2021 3:30	6/7/2021 4:00	30	0	113	0	24	Atlas	Retained by Sheads Branch	34	1
CSO205 Total										14,676	13
CSO210	3/30/2021 23:45	3/31/2021 5:00	315	0	285,849	2	6	Cloudburst		214,387	1
	4/7/2021 17:15	4/8/2021 2:00	525	0	449,200	20	1	Atlas		399,788	1
	4/10/2021 14:00	4/10/2021 15:00	60	0	38,341	0	12	Atlas		11,119	1
	4/28/2021 15:00	4/29/2021 17:00	1560	2	222,134	19	1	Atlas		350,972	1
	5/3/2021 5:00	5/3/2021 6:15	75	0	35,956	1	12	Atlas		14,742	1
	5/4/2021 6:45	5/4/2021 11:15	270	0	103,993	1	24	Cloudburst		98,793	1
	5/5/2021 0:30	5/5/2021 4:30	240	0	97,985	1	24	Cloudburst		93,086	1
	5/9/2021 11:30	5/9/2021 13:45	135	0	104,090	0	1	Atlas		32,268	1
	5/26/2021 11:15	5/26/2021 16:00	285	0	219,581	2	3	Atlas		149,315	1
	6/3/2021 8:15	6/3/2021 17:15	540	1	323,394	6	12	Cloudburst		358,967	1
	6/7/2021 4:45	6/7/2021 5:45	60	0	19,613	1	1	Atlas		10,395	1
	6/29/2021 17:00	6/29/2021 20:30	210	0	1,186,567	0	1	Atlas		71,194	1
CSO210 Total										1,805,026	12
CSO211	3/31/2021 0:15	3/31/2021 3:45	210	0	14,411,057	2	6	Cloudburst		10,808,293	1
	4/7/2021 17:45	4/7/2021 21:15	210	0	8,361,228	20	1	Atlas		7,441,493	1
	4/28/2021 16:00	4/28/2021 17:15	75	2	402,459	19	1	Atlas		635,886	1
	4/29/2021 3:00	4/29/2021 3:30	30	2	35,497	19	1	Atlas		56,086	1
	5/5/2021 1:15	5/5/2021 2:30	75	0	446,639	1	24	Cloudburst		424,307	1
	6/3/2021 12:15	6/3/2021 13:45	90	1	34,651,659	6	12	Cloudburst		38,463,342	1
CSO211 Total										57,829,407	6
Grand Total										265,586,741	450

APPENDIX C

ACRONYMS

ACRONYM	DEFINITION
AAOV	Average Annual Overflow Volume
ACD	Amended Consent Decree
BGI	Beargrass Interceptor
BGIR	Beargrass Interceptor Relief
BOD	Biological Oxygen Demand
CCP	Composite Correction Plan
CCWQTC	Cedar Creek Water Quality Treatment Center
CMF	Central Maintenance Facility
CMOM	Capacity Management Operations and Maintenance
CPE	Comprehensive Performance Evaluations
CSO	Combined Sewer Overflow
CSOFT	Software Name
CSS	Combined Sewer System
DAP	Discharge Abatement Plan
DRGWQTC	Derek R. Guthrie Water Quality Treatment Center
DWO	Dry Weather Overflow
EPA	Environmental Protection Agency
FEPS	Final Effluent Pump Station
FOG	Fat Oil and Grease
FY	Fiscal Year
GLPM	Gravity Line Preventive Maintenance
HCWQTC	Hite Creek Water Quality Treatment Center
HMI	Human Machine Interface
I/I	Inflow and Infiltration
I/O	Input/ Output
ICM	Integrated Catchment Model
ID	Identification
IFIX	Software name
IOAP	Integrated Overflow Abatement Plan
ISSDP	Interim Sanitary Sewer Discharge Plan
KDEP	Kentucky Department of Environmental Protection
KPDES	Kentucky Pollutant Discharge Elimination System
LG&E	Louisville Gas & Electric Company
LTCP	Long Term Control Plan
LWC	Louisville Water Company
MCC	Motor Control Center
MF/MFWQTC	Morris Forman Water Quality Treatment Center
MFI	Middle Fork Interceptor
MG	Million Gallons
MGD	Million Gallons per Day

ACRONYM	DEFINITION
MSD	Metropolitan Sewer District (Louisville and Jefferson County)
NGPS	Nightingale Pump Station
NMC	Nine Minimum Controls
ORFM	Ohio River Force Main
ORI	Ohio River Interceptor
PLC	Programmable Logic Controller
PM	Preventive Maintenance
PS	Pump Station
RAS	Return Activated Sludge
RTC	Real Time Control
SCADA	Supervisory Control And Data Acquisition
SCAP	System Capacity Assurance Plan
SCS	Soil Conservation Service
SED2	South East Diversion 2
SOP	Standard Operating Procedure
SOR1	Southern Outfall Retention Facility 1
SORP	Sewer Overflow Response Protocol
SPS	Starkey Pump Station
SSDP	Sanitary Sewer Discharge Plan
SSES	Sewer System Evaluation Survey
SSO	Sanitary Sewer Overflow
SSOP	Sanitary Sewer Overflow Plan
SWOR1	Southwestern Outfall Retention – Phase 1
SWOR2	Southwestern Outfall Retention – Phase 2
SWPS	Southwestern Pump Station
SWSG	Southwest Sluice Gate
TRFD	Total Rainfall Depth
TSS	Total Suspended Solids
TV	Television
UM	Unplanned Maintenance
UMFPS	Upper Middle Fork Pump Station
US	United States
VFD	Variable Frequency Drive
WIN	Waterway Improvements Now
WQTC	Water Quality Treatment Center
WUS	Waters of the United States
WWTF	Wastewater Treatment Facility

APPENDIX D

SCAP BALANCE

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CREDIT BASIN	RELEASE DATE	APPLICATION	APPLICATION NAME	TYPE	FLOW	SUM OF APPROVED CREDIT REQUIRED / FLOW REDUCTION
Cedar Creek	11/1/2008	235533	MAINTENANCE WORK FY06 AUG-FY09 NOV - CEDAR CREEK	SCAPCREDIT		6,521
	12/31/2008	362688	MAINTENANCE WORK FY09A - CEDAR CREEK	SCAPCREDIT		5
	6/5/2009	236380	FAIRMOUNT ROAD MH REHAB	SCAPCREDIT		10,734
	6/30/2009	362689	MAINTENANCE WORK FY09B - CEDAR CREEK	SCAPCREDIT		201
	12/31/2009	SC1011254	MAINTENANCE WORK FY10A - CEDAR CREEK	SCAPCREDIT		347
	6/30/2010	SC1011255	MAINTENANCE WORK FY10B - CEDAR CREEK	SCAPCREDIT		194
	12/31/2010	SC1011259	MAINTENANCE WORK FY11A - CEDAR CREEK	SCAPCREDIT		1,720
	6/30/2011	SC1011262	MAINTENANCE WORK FY11B - CEDAR CREEK	SCAPCREDIT		934
	12/31/2011	SC1011264	MAINTENANCE WORK FY12A - CEDAR CREEK	SCAPCREDIT		269
	6/30/2012	SC1011267	MAINTENANCE WORK FY12B - CEDAR CREEK	SCAPCREDIT		814
	9/10/2012	SC1005519	CONTRACTED WORK FY12 - CEDAR CREEK	SCAPCREDIT		21,321
	9/27/2012	320989	LITTLE CEDAR CREEK I/I REHABIL	SCAPCREDIT		652,907
	11/30/2012	263934	ST JAMES CROSSINGS	LAT EXT	9,000	-19,575
	12/5/2012	196927	SONIC SPRINGS	LAT EXT	3,600	-7,830
	1/29/2013	350057	FMC EAST LOUISVILLE #1673-3	LAT EXT	3,400	-7,395
	6/30/2013	SC1074160	MAINTENANCE WORK FY13 JAN-JUN - CEDAR CREEK	SCAPCREDIT		4,443
	8/19/2013	SC1005524	CONTRACTED WORK FY13 - CEDAR CREEK	SCAPCREDIT		425
	12/31/2013	14SC1000	MAINTENANCE WORK FY13A - CEDAR CREEK	SCAPCREDIT		2,220
		SC1082184	MAINTENANCE WORK FY14 JUL-DEC - CEDAR CREEK	SCAPCREDIT		1,482
	6/30/2014	SC1082223	MAINTENANCE WORK FY14 JAN-JUN- CEDAR CREEK	SCAPCREDIT		4,729
	12/30/2014	SC1082493	MAINTENANCE WORK FY15 JUL-DEC-CEDAR CREEK	SCAPCREDIT		4,583
	1/26/2015	239030	POPLAR LAKES PH 1	LAT EXT	18,000	-39,150
	5/26/2015	13LE1003	Bardstown Woods Sec 6	LAT EXT	5,200	-11,310
	6/30/2015	SC1082496	MAINTENANCE WORK FY15 JAN-JUN-CEDAR CREEK	SCAPCREDIT		21
	9/14/2015	LE916330	Altawood Development	LAT EXT	1,600	-3,480
	9/25/2015	SC1003694	CONTRACTED WORK FY16 - CEDAR CREEK	SCAPCREDIT		328
		SC1006188	CONTRACTED WORK FY15 - CEDAR CREEK	SCAPCREDIT		1
	12/30/2015	SC1082497	MAINTENANCE WORK FY16 JUL-DEC-CEDAR CREEK	SCAPCREDIT		16
	5/25/2016	LE915727	BARDSTOWN WOODS SEC 7	LAT EXT	4,400	-9,570
	6/30/2016	SC1082498	MAINTENANCE WORK FY16 JAN-JUN-CEDAR CREEK	SCAPCREDIT		169
	10/26/2016	SC1006171	CONTRACTED WORK FY14 - CEDAR CREEK	SCAPCREDIT		45,900
	12/30/2016	SC1082499	MAINTENANCE WORK FY17 JUL-DEC-CEDAR CREEK	SCAPCREDIT		2,396
	6/30/2017	SC1082500	MAINTENANCE WORK FY17 JAN-JUN-CEDAR CREEK	SCAPCREDIT		3,464
	7/13/2017	SC1097042	Cedar Creek I&I Rehab FY17	SCAPCREDIT		309
	8/14/2017	LE983107	Poplar Lakes Phase 3	LAT EXT	12,000	-26,100
	10/24/2017	LE971176	Cedar Ridge	LAT EXT	18,800	-40,890
	12/30/2017	SC1082501	MAINTENANCE WORK FY18 JUL-DEC-CEDAR CREEK	SCAPCREDIT		3,067
	7/23/2019	LE1048252	Landherr Estates Phase II	LAT EXT	17,600	-38,280
	9/12/2019	LE1015579	Glenmary Commons	LAT EXT	8,800	-19,140
		LE1049657	Little Spring Farm, Section 4B	LAT EXT	14,000	-30,450

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	10/2/2019	LE978334	Houchens Industries	LAT EXT	780	-1,697
	1/30/2020	LE1049477	Hearthstone Meadows	LAT EXT	14400	-31,320
	2/27/2020	LE1085520	Jefferson Trace Blvd. Sewer Extension	LAT EXT	400	-870
	9/10/2020	LE1099947	Cedar Creek Subdivision - Section 1	LAT EXT	16000	-34,800
Cedar Creek Total						447,663
Floyds Fork	11/1/2008	235557	MAINTENANCE WORK FY06 AUG-FY09 NOV - FLOYDS FORK	SCAPCREDIT		14,540
	12/31/2008	362638	MAINTENANCE WORK FY09A - FLOYDS FORK	SCAPCREDIT		1
	6/30/2009	362647	MAINTENANCE WORK FY09B - FLOYDS FORK	SCAPCREDIT		4
	12/31/2009	362651	MAINTENANCE WORK FY10A - FLOYDS FORK	SCAPCREDIT		524
	1/5/2010	230379	SHAKES RUN SECTION 4	LAT EXT	3,770	-8,200
	6/30/2010	362655	MAINTENANCE WORK FY10B - FLOYDS FORK	SCAPCREDIT		82
	12/31/2010	362661	MAINTENANCE WORK FY11A - FLOYDS FORK	SCAPCREDIT		14,163
	6/30/2011	362669	MAINTENANCE WORK FY11B - FLOYDS FORK	SCAPCREDIT		22,707
	10/12/2011	309608	BLANKENBAKER TRAIL OFFICE LN-B	LAT EXT	2,880	-6,264
	10/17/2011	242480	CLAIBOURNE CROSSINGS PHASE 2	LAT EXT	0	0
	12/31/2011	359320	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		362674	MAINTENANCE WORK FY12A - FLOYDS FORK	SCAPCREDIT		317
	3/13/2012	319027	PREMIER SURGERY CENTER	LAT EXT	5,740	-12,485
	6/30/2012	362678	MAINTENANCE WORK FY12B - FLOYDS FORK	SCAPCREDIT		338
	10/26/2012	315945	BROOKFIELD SEC 3	LAT EXT	12,800	-27,840
	12/18/2012	361689	LAKE FOREST REHAB PH1	SCAPCREDIT		174,769
	12/31/2012	362683	MAINTENANCE WORK FY13A - FLOYDS FORK	SCAPCREDIT		10
	5/8/2013	331397	BROOKFIELD SEC 2A	LAT EXT	14,400	-31,320
	6/30/2013	13SC1000	FY14 STARVIEW REHABILITATION	SCAPCREDIT		14,183
		SC1082514	MAINTENANCE WORK FY13 JAN-JUN-FLOYDS FORK	SCAPCREDIT		161
	12/30/2013	SC1082517	MAINTENANCE WORK FY14 JUL-DEC-FLOYDS FORK	SCAPCREDIT		991
	6/30/2014	SC1082518	MAINTENANCE WORK FY14 JAN-JUN-FLOYDS FORK	SCAPCREDIT		662
	12/30/2014	SC1082519	MAINTENANCE WORK FY15 JUL-DEC-FLOYDS FORK	SCAPCREDIT		1,318
	2/18/2015	13LE1062	SPEEDWAY #9451	LAT EXT	540	-1,175
	6/30/2015	SC1003809	BERRY TOWN WQTC I/I REMEDIATION FY14	SCAPCREDIT		116,834
		SC1082520	MAINTENANCE WORK FY15 JAN-JUN-FLOYDS FORK	SCAPCREDIT		661
	11/6/2015	SC1003723	MIDDLETOWN SSR P2S2 I/I REMEDIATION	SCAPCREDIT		102
	12/30/2015	SC1082521	MAINTENANCE WORK FY16 JUL-DEC-FLOYDS FORK	SCAPCREDIT		659
	1/7/2016	LE941673	Locust Creek Section 8B	LAT EXT	2,000	-4,350
	6/30/2016	SC1082523	MAINTENANCE WORK FY16 JAN-JUN-FLOYDS FORK	SCAPCREDIT		3,578
	7/7/2016	SC1003331	CONTRACTED WORK FY16 - FLOYDS FORK	SCAPCREDIT		35
	9/20/2016	LE932677	Shakes Run Sec 9	LAT EXT	12,000	-26,100
	12/30/2016	SC1082524	MAINTENANCE WORK FY17 JUL-DEC-FLOYDS FORK	SCAPCREDIT		1,804
	1/4/2017	LE945783	Urton Woods, Section 2B	LAT EXT	17,200	-37,410
	1/6/2017	LE983784	Catalpa Farms Subdivision	LAT EXT	16,000	-34,800
	2/27/2017	LE971261	Notting Hills Section 4 and Clubhouse	LAT EXT	10,400	-22,620

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	6/30/2017	SC1082525	MAINTENANCE WORK FY17 JAN-JUN-FLOYDS FORK	SCAPCREDIT		1,320
	12/30/2017	SC1082526	MAINTENANCE WORK FY18 JUL-DEC-FLOYDS FORK	SCAPCREDIT		6,158
	1/7/2019	LE1039193	Glen Lakes Section 4 - Phase 3	LAT EXT	16,400	-35,670
	10/21/2019	LE1050932	Courtyard at Curry Farms Section 1	LAT EXT	17,000	-36,975
Floyds Fork Total						94,712
Hite Creek	5/15/2006	SC1006307	CONTRACTED WORK FY06 - HITE CREEK	SCAPCREDIT		656
	11/1/2008	235561	MAINTENANCE WORK FY06 AUG-FY09 NOV - HITE CREEK	SCAPCREDIT		6,404
	12/31/2008	362641	MAINTENANCE WORK FY09A - HITE CREEK	SCAPCREDIT		2
	6/1/2009	SC1006214	CONTRACTED WORK FY09 - HITE CREEK	SCAPCREDIT		328
	6/30/2009	362648	MAINTENANCE WORK FY09B - HITE CREEK	SCAPCREDIT		7
	12/31/2009	362652	MAINTENANCE WORK FY10A - HITE CREEK	SCAPCREDIT		10
	6/30/2010	362657	MAINTENANCE WORK FY10B - HITE CREEK	SCAPCREDIT		332
	12/17/2010	320906	FLOYDSBURG ROAD I/I REHABILITA	SCAPCREDIT		28,437
	12/31/2010	362662	MAINTENANCE WORK FY11A - HITE CREEK	SCAPCREDIT		9
	6/30/2011	362670	MAINTENANCE WORK FY11B - HITE CREEK	SCAPCREDIT		9
	9/7/2011	SC1011058	Meadow Stream Pump Station & Force Main Expansion	SCAPCREDIT		2,304,000
	9/28/2011	246638	CHAPMAN COURT S/S	LAT EXT	800	-1,740
	12/31/2011	362675	MAINTENANCE WORK FY12A - HITE CREEK	SCAPCREDIT		340
	6/30/2012	362679	MAINTENANCE WORK FY12B - HITE CREEK	SCAPCREDIT		5,007
	8/31/2012	290181	CAMDEN WOOD APARTMENTS	LAT EXT	12,400	-26,970
	12/1/2012	304536	MAGNOLIA SPRINGS EAST PRIV P/S	LAT EXT	9,500	-20,663
	12/7/2012	335610	ROCK SPRINGS FARM SEC 4B	LAT EXT	6,400	-13,920
	12/31/2012	362684	MAINTENANCE WORK FY13A - HITE CREEK	SCAPCREDIT		7
	4/11/2013	SC1005530	CONTRACTED WORK FY13 - HITE CREEK	SCAPCREDIT		1,442
	6/30/2013	SC1082527	MAINTENANCE WORK FY13 JAN-JUN-HITE CREEK	SCAPCREDIT		967
	12/30/2013	SC1082528	MAINTENANCE WORK FY14 JUL-DEC-HITE CREEK	SCAPCREDIT		3,211
	6/30/2014	SC1082529	MAINTENANCE WORK FY14 JAN-JUNE-HITE CREEK	SCAPCREDIT		2,207
	12/30/2014	SC1082530	MAINTENANCE WORK FY15 JUL-DEC-HITE CREEK	SCAPCREDIT		360
	1/27/2015	SC1006178	CONTRACTED WORK FY14 - HITE CREEK	SCAPCREDIT		77,660
	3/13/2015	SC983697	MEADOWSTREAM REHABILITATION - FY13	SCAPCREDIT		448,447
	6/30/2015	SC1082531	MAINTENANCE WORK FY15 JAN-JUN-HITE CREEK	SCAPCREDIT		124
	12/30/2015	SC1082532	MAINTENANCE WORK FY16 JUL-DEC-HITE CREEK	SCAPCREDIT		1,191
	6/30/2016	SC1082533	MAINTENANCE WORK FY16 JAN-JUN-HITE CREEK	SCAPCREDIT		336
	9/13/2016	LE943178	Rock Springs Farm Section 5A	LAT EXT	6,800	-14,790
	10/26/2016	SC1006192	CONTRACTED WORK FY15 - HITE CREEK	SCAPCREDIT		1
	12/30/2016	SC1082534	MAINTENANCE WORK FY17 JUL-DEC-HITE CREEK	SCAPCREDIT		3,599
	3/17/2017	LE971406	Old Henry Business Park	LAT EXT	930	-2,023
	6/30/2017	SC1082535	MAINTENANCE WORK FY17 JAN-JUN-HITE CREEK	SCAPCREDIT		4,109
	12/30/2017	SC1082536	MAINTENANCE WORK FY18 JUL-DEC-HITE CREEK	SCAPCREDIT		6,823
Hite Creek Total						2,815,919
J'Town	11/1/2008	235563	MAINTENANCE WORK FY06 AUG-FY09 NOV - JEFFERSONTOWN	SCAPCREDIT		6,203
	12/31/2008	359323	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000

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	8/10/2010	254871	LAKESIDE BAPT CHURCH PRIV PS	LAT EXT	2,500	-5,438
	8/11/2011	340213	JEFFERSONTOWN ENG REHAB	SCAPCREDIT		997,448
	12/31/2011	359324	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		4,000
	12/31/2012	14SC1002	MAINTENANCE WORK FY13A - JEFFERSONTOWN	SCAPCREDIT		3,490
	5/28/2013	337261	SINGLE FAMILY 2909 PELHAM CT	LAT EXT	400	-870
	6/28/2013	13LE1010	SWOPE HR & TRAINING BLDG	LAT EXT	400	-870
	10/25/2013	13LE1092	BALE EQUIPMENT	LAT EXT	450	-979
	2/27/2014	13LE1098	UNIPAK	LAT EXT	720	-1,566
	12/31/2014	13LE1067	PARK COMMUNITY	LAT EXT	2200	-4,785
	2/1/2016	14LE1149	Grand Lakes Section 3	LAT EXT	5,600	-12,180
	3/10/2016	LE924049	Blankenbaker Road S/S	LAT EXT	9,010	-19,597
	5/4/2016	326360	WATTERSON TRAIL CENTER	LAT EXT	2,745	-5,970
	6/21/2016	LE930127	Vantage Point Sec 3B	LAT EXT	7,200	-15,660
	7/28/2016	13LE1158	GOODWILL INDUSTRIES OF KENTUCKY	LAT EXT	400	-870
	11/8/2016	14LE1148	Grand Lakes Section 2	LAT EXT	4,400	-9,570
	3/23/2017	LE926081	Monticello Manors Sec 2	LAT EXT	0	0
	3/31/2017	LE967619	Louis F. Zoeller, Jr Minor Plat	LAT EXT	400	-870
J'Town Total						935,916
Mill Creek	12/31/2005	359380	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
	12/31/2007	359381	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		24,000
	11/1/2008	235568	MAINTENANCE WORK FY06 AUG-FY09 NOV - MILL CREEK	SCAPCREDIT		51,530
	12/31/2008	359382	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		362642	MAINTENANCE WORK FY09A - MILL CREEK	SCAPCREDIT		93
	6/30/2009	362649	MAINTENANCE WORK FY09B - MILL CREEK	SCAPCREDIT		1,507
	9/9/2009	236614	DEVEROES	LAT EXT	960	-2,088
	12/31/2009	359383	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		32,000
		362653	MAINTENANCE WORK FY10A - MILL CREEK	SCAPCREDIT		25,272
	1/6/2010	253586	KINGSFORD RETAIL CENTER	LAT EXT	480	-1,044
	4/28/2010	238421	6840 DIXIE HWY OUTLOT	LAT EXT	2,100	-4,568
	6/30/2010	362658	MAINTENANCE WORK FY10B - MILL CREEK	SCAPCREDIT		6,216
	7/2/2010	259408	FAMILY DOLLAR 5105 DIXIE	LAT EXT	1,200	-2,610
	7/23/2010	264294	SAINT PETER THE APOSTLE CATHOL	LAT EXT	2,000	-4,350
	10/12/2010	276215	FAMILY DOLLAR - KRISTIN WAY	LAT EXT	400	-870
	12/31/2010	359325	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		359384	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		362664	MAINTENANCE WORK FY11A - MILL CREEK	SCAPCREDIT		22,745
	6/30/2011	320916	SONNE AVE PS REHABILITATION -	SCAPCREDIT		120,800
		362671	MAINTENANCE WORK FY11B - MILL CREEK	SCAPCREDIT		11,745
	10/4/2011	299399	FAMILY DOLLAR - GREENWOOD RD	LAT EXT	800	-1,740
	11/9/2011	309018	PRP PERFORMING ARTS ADDITION	LAT EXT	1,134	-2,466
	12/31/2011	359326	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359385	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		362676	MAINTENANCE WORK FY12A - MILL CREEK	SCAPCREDIT		4,800
	1/19/2012	318096	CRACKER BARREL OLD COUNTRY	LAT EXT	6,000	-13,050
	3/16/2012	SC1005678	CONTRACTED WORK FY12 - MILL CREEK	SCAPCREDIT		22
	5/21/2012	262545	DIXIE MANOR SHOPPING CENTER	LAT EXT	965	-2,099
	6/26/2012	300374	FORT KNOX FEDERAL CREDIT UNION	LAT EXT	400	-870

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	6/30/2012	361693	FY12 MILL CREEK REHAB	SCAPCREDIT		81,675
		362680	MAINTENANCE WORK FY12B - MILL CREEK	SCAPCREDIT		4,133
	7/24/2012	231800	PIONEER MOBILE HOME PARK	LAT EXT	11,200	-24,360
	9/18/2012	237457	WAVERLY HILLS	LAT EXT	400	-870
	10/19/2012	341883	NHK SPRING PRECISION	LAT EXT	17,800	-38,715
	12/5/2012	334997	BEECHLAND BAPTIST CHURCH	LAT EXT	2,715	-5,905
	12/31/2012	359327	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		148,000
		359386	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		362685	MAINTENANCE WORK FY13A - MILL CREEK	SCAPCREDIT		22,996
	1/18/2013	343763	SOUTHEAST CHRISTIAN CHURCH SW	LAT EXT	6,000	-13,050
	3/20/2013	224875	ASHBY GREEN APARTMENT HOMES	LAT EXT	36,400	-79,170
	6/6/2013	265944	RIVERPORT PHASE 4A - MICHELIN	LAT EXT	400	-870
	6/30/2013	SC1082559	MAINTENANCE WORK FY13 JAN-JUN-MILL CREEK	SCAPCREDIT		32,425
	9/10/2013	314887	DAYTON FREIGHT	LAT EXT	1,200	-2,610
	9/26/2013	13LE1014	LOUISVILLE FREE PUBLIC LIBRARY SOUTHWEST	LAT EXT	2400	-5,220
	10/3/2013	357140	FAMILY DOLLAR CANE RUN ROAD	LAT EXT	832	-1,810
	12/30/2013	SC1082560	MAINTENANCE WORK FY14 JUL-DEC-MILL CREEK	SCAPCREDIT		11,451
	1/29/2014	13LE1171	SINGLE FAMILY HOME 3700 ROMANIA DR	LAT EXT	400	-870
	6/30/2014	SC1082562	MAINTENANCE WORK FY14 JAN-JUN-MILL CREEK	SCAPCREDIT		7,753
	12/30/2014	SC1082563	MAINTENANCE WORK FY15 JUL-DEC-MILL CREEK	SCAPCREDIT		4,491
	3/10/2015	SC1005536	ROSA TERRACE I/I REHABILITATION FY13	SCAPCREDIT		156,635
	6/30/2015	SC1082564	MAINTENANCE WORK FY15 JAN-JUN-MILL CREEK	SCAPCREDIT		4,861
	7/31/2015	SC1003690	CONTRACTED WORK FY15 - MILL CREEK	SCAPCREDIT		58
	12/30/2015	SC1082565	MAINTENANCE WORK FY16 JUL-DEC-MILL CREEK	SCAPCREDIT		6,692
	6/30/2016	SC1082566	MAINTENANCE WORK FY16 JAN-JUN-MILL CREEK	SCAPCREDIT		3,523
	7/28/2016	LE944727	Britz Deer Hollow Lane	LAT EXT	800	-1,740
	12/30/2016	SC1082567	MAINTENANCE WORK FY17 JUL-DEC-MILL CREEK	SCAPCREDIT		12,857
	6/30/2017	SC1082568	MAINTENANCE WORK FY17 JAN-JUN-MILL CREEK	SCAPCREDIT		5,103
	12/30/2017	SC1082569	MAINTENANCE WORK FY18 JUL-DEC-MILL CREEK	SCAPCREDIT		27,293
	4/10/2019	LE995375	1105 Dorsey lane	LAT EXT	10,300	-22,403
	10/31/2019	LE1039415	Delcour Multi-Family Apartments	LAT EXT	60,400	-131,370
Mill Creek Total						533,958
Middle Fork	12/31/2007	359328	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		20,000
		359400	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		84,000
	11/1/2008	235566	MAINTENANCE WORK FY06 AUG-FY09 NOV - MOIDDLE FORK	SCAPCREDIT		43,779
	12/31/2008	359329	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		SC1011287	MAINTENANCE WORK FY09A - MIDDLE FORK	SCAPCREDIT		13
	1/16/2009	236517	ANCHOR ESTATES MH REHAB	SCAPCREDIT		15,552
	3/30/2009	217235	SINKING FORK ICA PHASE I REHAB	SCAPCREDIT		437,967
	5/15/2009	235376	MIDDLE FORK INT REHAB PH1	SCAPCREDIT		487,744
	5/26/2009	179246	SHADY GLEN OF LYNDON PERSONAL	LAT EXT	(500)	1,088
	6/30/2009	SC1011288	MAINTENANCE WORK FY09B - MIDDLE FORK	SCAPCREDIT		4,208
	11/4/2009	250572	1316 WITAWANGA AVE	LAT EXT	400	-870
	12/31/2009	359331	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		359401	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		SC1011290	MAINTENANCE WORK FY10A - MIDDLE FORK	SCAPCREDIT		50
	3/16/2010	197432	ALMOST HOME KENNELS - ALL PET	LAT EXT	3,700	-8,048

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	4/15/2010	260064	OXMOOR GOLF FRONT 9	LAT EXT	400	-870
		260065	OXMOOR GOLF BACK 9	LAT EXT	400	-870
	4/27/2010	229834	THE BROOK HOS- DUPONT ADDITION	LAT EXT	1,763	-3,835
	6/30/2010	SC1011292	MAINTENANCE WORK FY10B - MIDDLE FORK	SCAPCREDIT		1,113
	7/2/2010	265723	Z-XPRESS CAR WASH	LAT EXT	5,449	-11,852
	7/14/2010	255792	HERR LANE APARTMENTS - 8 PLEX	LAT EXT	2,400	-5,220
		255793	HERR LANE APARTMENTS - 4 PLEX	LAT EXT	1,200	-2,610
	9/9/2010	274303	FARM CREDIT SERVICES	LAT EXT	525	-1,142
	12/15/2010	278015	METROPOLITAN UROLOGY	LAT EXT	400	-870
	12/31/2010	359333	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359402	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011293	MAINTENANCE WORK FY11A - MIDDLE FORK	SCAPCREDIT		1,205
	1/20/2011	285637	SHELBYHURST OFFICE BUILDING 1	LAT EXT	6,600	-14,355
	1/27/2011	313465	DORSEY POINTE/CODOMINIUMS 8-13	LAT EXT	2,400	-5,220
	4/14/2011	291263	BROWNS LANE BUILDING	LAT EXT	400	-870
	6/14/2011	293400	FOUR PLEX APARTMENTS	LAT EXT	1,200	-2,610
	6/30/2011	SC1011294	MAINTENANCE WORK FY11B - MIDDLE FORK	SCAPCREDIT		7,183
	8/11/2011	330019	FY11 ANCHOR ESTATES REHAB	SCAPCREDIT		1,359
	10/31/2011	310046	EL NAPEL - MCMAHAN CENTER	LAT EXT	3,100	-6,743
	11/29/2011	314591	CHOCOLATE MARTINI BAR/REST	LAT EXT	3,275	-7,123
	12/27/2011	320983	HURSTBOURNE I/I INVESTIGATION	SCAPCREDIT		1,408,279
	12/31/2011	359335	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		16,000
		SC1011295	MAINTENANCE WORK FY12A - MIDDLE FORK	SCAPCREDIT		919
	2/15/2012	321228	SINGLE FAMILY UNIT	LAT EXT	400	-870
	3/16/2012	SC1005671	CONTRACTED WORK FY12 - MIDDLE FORK	SCAPCREDIT		7,305
	3/27/2012	321647	SINGLE FAMILY	LAT EXT	400	-870
	6/22/2012	328074	SINGLE FAMILY-703 FOUNTAIN AVE	LAT EXT	400	-870
	6/30/2012	SC1011297	MAINTENANCE WORK FY12B - MIDDLE FORK	SCAPCREDIT		949
	8/20/2012	193195	CEDAR LAKE LODGE WASHBURN	LAT EXT	1,900	-4,133
	8/23/2012	320923	ST MATTHEWS I/I REHABILITATION	SCAPCREDIT		20,841
	9/5/2012	337796	CHAMPPS	LAT EXT	635	-1,381
	12/28/2012	347126	ADVANCE PRODUCTION SYSTEMS	LAT EXT	400	-870
	12/31/2012	14SC1003	MAINTENANCE WORK FY13A - MIDDLE FORK	SCAPCREDIT		3,309
		359336	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		92,000
	1/4/2013	339367	BAPTIST RADIATION ONCOLOGY	LAT EXT	1,500	-3,263
	1/16/2013	340778	PANDA RESTAURANT	LAT EXT	1,725	-3,752
	2/4/2013	328659	SINGLE FAMILY HOME - 6911 AMBR	LAT EXT	400	-870
	2/20/2013	352805	POOL HOUSE 9213 REIGATE COURT	LAT EXT	200	-435
	3/19/2013	14LE1001	MIRANDA LAGRANGE RD	LAT EXT	400	-870
	3/20/2013	350246	SINGLE FAMILY - 218 BLISS AVE	LAT EXT	400	-870
	3/26/2013	349974	SINGLE FAMILY 205 N WATTERSON	LAT EXT	400	-870
	4/15/2013	342433	SHELBYHURST 700 OFFICE BLDG	LAT EXT	7,500	-16,313
	4/16/2013	350340	JARED THE GALLERY OF JEWELRY	LAT EXT	770	-1,675
	5/30/2013	SC1005532	CONTRACTED WORK FY13 - MIDDLE FORK	SCAPCREDIT		6,480
	6/7/2013	13LE1009	Single family 11716 Wetherby Ave	LAT EXT	400	-870
	6/30/2013	SC1082545	MAINTENANCE WORK FY13 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6,989
	8/28/2013	13LE1001	Single Family 835 Fountain Ave	LAT EXT	400	-870

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	9/10/2013	355162	PROPOSED RESTAURANT	LAT EXT	7,540	-16,400
	9/30/2013	13LE1045	SINGLE FAMILY 8325 WHIPPS MILL RD	LAT EXT	400	-870
	10/22/2013	319292	WATERMARK ON HURSTBOURNE	LAT EXT	71,600	-155,730
	10/28/2013	331542	DENTAL/MEDICAL OFFICE BLDG	LAT EXT	400	-870
	11/5/2013	13LE1128	SINGLE FAMILY HOME 1327 ETAWAH AVE	LAT EXT	400	-870
		13LE1144	SINGLE FAMILY 1329 ETAWAH AVE	LAT EXT	400	-870
	11/25/2013	13LE1165	SINGLE FAMILY 8504 LORE LANE	LAT EXT	400	-870
	11/26/2013	13LE1146	CITY OF ST MATTHEWS COMMUNITY CTR PARK RESTROOM	LAT EXT	1,500	-3,263
	12/11/2013	13LE1099	NICKLIES - ST MATTHEWS	LAT EXT	1,920	-4,176
	12/18/2013	353963	DORSEY COMMONS TRACTS 1,2,3	LAT EXT	1960	-4,263
	12/30/2013	SC1082546	MAINTENANCE WORK FY14 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		91,183
	12/31/2013	352026	MCMAHAN PLAZA PHASE II BLDG B	LAT EXT	766	-1,666
	4/10/2014	13LE1117	THE VININGS	LAT EXT	850	-1,849
	6/30/2014	14LE1128	WALDORF SCHOOL OF LOUISVILLE	LAT EXT	400	-870
		SC1082547	MAINTENANCE WORK FY14 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		4,404
	12/30/2014	SC1082548	MAINTENANCE WORK FY15 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,664
	2/10/2015	SC1006201	GOOSE CREEK PLANTATION I/I REHABILITATION FY14	SCAPCREDIT		163,919
	2/11/2015	SC1006179	CONTRACTED WORK FY14 - MIDDLE FORK	SCAPCREDIT		15,043
	6/30/2015	SC1082549	MAINTENANCE WORK FY15 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		2,568
	12/30/2015	SC1082550	MAINTENANCE WORK FY16 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		15,216
	6/8/2016	LE939199	Westport Road Apartments	LAT EXT	62,800	-136,590
	6/30/2016	SC1082552	MAINTENANCE WORK FY16 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,573
	8/30/2016	LE971405	Lyndon Lane Office Condos	LAT EXT	2,652	-5,768
	10/18/2016	SC1003387	CONTRACTED WORK FY16 - MIDDLE FORK	SCAPCREDIT		91,264
	10/24/2016	SC1006194	CONTRACTED WORK FY15 - MIDDLE FORK	SCAPCREDIT		3
	12/20/2016	LE938563	The Paddock at Sawyer Park	LAT EXT	99,800	-217,065
	12/30/2016	SC1082554	MAINTENANCE WORK FY17 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		2,385
	5/9/2017	LE1005641	City of Anchorage Sewer Extension	LAT EXT	800	-1,740
	6/30/2017	SC1082555	MAINTENANCE WORK FY17 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,799
	12/30/2017	SC1082557	MAINTENANCE WORK FY18 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		5,851
	2/19/2018	LE1017531	526 & 528 Fountain Ave	LAT EXT	800	-1,740
	9/7/2018	166053	616 & 618 FOUNTAIN AVE S/S	LAT EXT	400	-870
	7/26/2019	LE1020250	LFPL - Northeast Regional Library	LAT EXT	800	-1,740
		LE1024084	Morat Avenue Apartments	LAT EXT	62250	-135,394
	11/4/2019	LE1083952	1700 Cold Spring Rd & 12004 Osage Rd	LAT EXT	800	-1,740
	4/24/2020	LE1059259	904 Browns Lane	LAT EXT	1600	-3,480
	8/28/2020	LE1010450	Ormsby Lane Senior Apartments	LAT EXT	11900	-25,883
	10/5/2020	LE1090567	4229 Taylorsville Road	LAT EXT	11200	-24,360
Middle Fork Total						2,265,507

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Northern Ditch	12/31/2007	359404	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		28,000
	11/1/2008	235569	MAINTENANCE WORK FY06 AUG-FY09 NOV - NORTHERN DIT	SCAPCREDIT		11,147
	11/25/2008	236363	NORTHERN DITCH INT REHAB PH1	SCAPCREDIT		108,760
	12/31/2008	SC1011338	MAINTENANCE WORK FY09A - NORTHERN DITCH	SCAPCREDIT		11
	6/30/2009	SC1011339	MAINTENANCE WORK FY09B - NORTHERN DITCH	SCAPCREDIT		1,884
	12/31/2009	359339	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		SC1011340	MAINTENANCE WORK FY10A - NORTHERN DITCH	SCAPCREDIT		1,177
	3/5/2010	234678	THE LIGHTHOUSE PROMISE COMPLEX	LAT EXT	2,825	-6,144
	6/30/2010	SC1011343	MAINTENANCE WORK FY10B - NORTHERN DITCH	SCAPCREDIT		2,532
	12/21/2010	284728	SUBWAY - NEW CUT RD	LAT EXT	1,314	-2,858
	12/31/2010	359340	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		SC1011344	MAINTENANCE WORK FY11A - NORTHERN DITCH	SCAPCREDIT		2,456
	6/28/2011	320908	PARKVIEW ESTATES REHABILITATIO	SCAPCREDIT		36
	6/30/2011	SC1011345	MAINTENANCE WORK FY11B - NORTHERN DITCH	SCAPCREDIT		1,989
	11/11/2011	312810	WILLOW PLACE APT COMMUNITY CEN	LAT EXT	400	-870
	12/31/2011	359341	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		359405	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		SC1011346	MAINTENANCE WORK FY12A - NORTHERN DITCH	SCAPCREDIT		911
	1/26/2012	315723	JCPS EARLY CHILDHOOD DEVELOP	LAT EXT	6,000	-13,050
	3/21/2012	312057	DOLLAR GENERAL - MEDALLION CT	LAT EXT	400	-870
	6/30/2012	SC1011336	MAINTENANCE WORK FY12B - NORTHERN DITCH	SCAPCREDIT		7,893
	8/20/2012	312659	KROGER L-350 FUEL STATION	LAT EXT	400	-870
	12/31/2012	14SC1004	MAINTENANCE WORK FY13A - NORTHERN DITCH	SCAPCREDIT		4,239
		359343	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		24,000
	6/30/2013	SC1082570	MAINTENANCE WORK FY13 JAN-JUN-NORTH DITCH	SCAPCREDIT		6,459
	12/5/2013	13LE1147	CARLON ROOFING	LAT EXT	992	-2,158
	12/12/2013	13LE1126	JENNINGS CROSSING TRACT 3	LAT EXT	2,100	-4,568
	12/30/2013	SC1082571	MAINTENANCE WORK FY14 JUL-DEC-NORTH DITCH	SCAPCREDIT		2,707
	6/30/2014	SC1082572	MAINTENANCE WORK FY14 JAN-JUN-NORTH DITCH	SCAPCREDIT		9,044
	10/21/2014	SC1006180	CONTRACTED WORK FY14 - NORTHERN DITCH	SCAPCREDIT		5
	12/30/2014	SC1082573	MAINTENANCE WORK FY15 JUL-DEC-NORTH DITCH	SCAPCREDIT		8,330
	6/30/2015	SC1082575	MAINTENANCE WORK FY15 JAN-JUN-NORTH DITCH	SCAPCREDIT		5,564
	12/30/2015	SC1082576	MAINTENANCE WORK FY16 JUL-DEC-NORTH DITCH	SCAPCREDIT		6,074
	6/30/2016	SC1082577	MAINTENANCE WORK FY16 JAN-JUN-NORTH DITCH	SCAPCREDIT		5,519
	12/30/2016	SC1082578	MAINTENANCE WORK FY17 JUL-DEC-NORTH DITCH	SCAPCREDIT		9,266
	6/30/2017	SC1082579	MAINTENANCE WORK FY17 JAN-JUN-NORTH DITCH	SCAPCREDIT		6,441
	12/30/2017	SC1082580	MAINTENANCE WORK FY18 JUL-DEC-NORTH DITCH	SCAPCREDIT		7,810
Northern Ditch Total						274,866

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ORFM	12/31/2007	359344	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359433	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		56,000
	11/1/2008	235572	MAINTENANCE WORK FY06 AUG-FY09 NOV - ORFM	SCAPCREDIT		19,826
	12/31/2008	362643	MAINTENANCE WORK FY09A - ORFM	SCAPCREDIT		2
	6/30/2009	362650	MAINTENANCE WORK FY09B - ORFM	SCAPCREDIT		3,835
	12/31/2009	362654	MAINTENANCE WORK FY10A - ORFM	SCAPCREDIT		7,330
	5/18/2010	263548	SINGLE FAMILY CONNECTION	LAT EXT	400	-870
	6/28/2010	213488	NORTHEAST CHRISTIAN CHURCH	LAT EXT	10,000	-21,750
	6/30/2010	362660	MAINTENANCE WORK FY10B - ORFM	SCAPCREDIT		6,773
	8/30/2010	254919	TRILOGY HEALTH SERVICES, LLC	LAT EXT	8,200	-17,835
	12/31/2010	362665	MAINTENANCE WORK FY11A - ORFM	SCAPCREDIT		181
	6/30/2011	362672	MAINTENANCE WORK FY11B - ORFM	SCAPCREDIT		4,139
	9/20/2011	280837	SPRINGHURST TOWNE CTR LOT C	LAT EXT	400	-870
	9/30/2011	320920	SHADOW WOOD I/I REHABILITATION	SCAPCREDIT		14,279
	10/14/2011	311412	SPRINGHURST CHEVROLET	LAT EXT	855	-1,860
	12/31/2011	359345	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		16,000
		359434	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		362677	MAINTENANCE WORK FY12A - ORFM	SCAPCREDIT		7,268
	3/1/2012	320921	DERINGTON COURT I/I REHABILITA	SCAPCREDIT		56,208
	3/5/2012	187028	GLENVIEW PARK SUBD SECTION 1	LAT EXT	4,400	-9,570
		213450	GLENVIEW PARK SUB, SEC 2	LAT EXT	5,600	-12,180
	3/12/2012	322455	FIRST LADY NAILS	LAT EXT	400	-870
	6/30/2012	362681	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		19,941
		SC1011315	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		19,941
	7/5/2012	292239	SPRINGHURST RESTAURANT/ RETAIL	LAT EXT	3,440	-7,482
	12/11/2012	323821	TIRE DISCOUNTERS WESTPORT RD	LAT EXT	400	-870
	12/18/2012	341319	RAISING CANES RETAIL CENTER	LAT EXT	1,225	-2,664
		363238	FY13 PROSPECT MANHOLE REHAB	SCAPCREDIT		72,703
	12/31/2012	359346	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		362686	MAINTENANCE WORK FY13A - ORFM	SCAPCREDIT		1,161
		363235	FY13 MUDDY FORK MH REHAB	SCAPCREDIT		41,653
	3/12/2013	322458	KROGER L-707 STORE EXPANSION	LAT EXT	400	-870
	5/13/2013	360262	SINGLE FAMILY 3419 HILLVALE RD	LAT EXT	400	-870
	6/21/2013	343729	RETAIL & RESTAURANT	LAT EXT	3,500	-7,613
	6/30/2013	SC1082581	MAINTENANCE WORK FY13 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		279
	11/7/2013	334154	GLENVIEW PARK SUBD SEC 4	LAT EXT	3,600	-7,830
	12/30/2013	SC1082582	MAINTENANCE WORK FY14 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		1,302
	12/31/2013	13LE1024	Overlook at Beech Spring Farm Sec 4	LAT EXT	5,600	-12,180
	3/11/2014	199896	SPRINGDALE OFFICE BUILDING	LAT EXT	4,210	-9,157
	5/16/2014	225863	SPRING FARM LAKES SEC 1	LAT EXT	4,800	-10,440
	6/30/2014	SC1082583	MAINTENANCE WORK FY14 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		1,293
	9/22/2014	177756	SUMMIT GARDENS PHASE 1	LAT EXT	32,000	-69,600
	11/10/2014	14LE1121	Riverside Sewer Extension	LAT EXT	1,200	-2,610
	12/30/2014	SC1082584	MAINTENANCE WORK FY15 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		4,394

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	12/31/2014	SC1006181	CONTRACTED WORK FY14 - ORFM	SCAPCREDIT		1,654
	1/16/2015	13LE1071	SPRING FARM LAKE SEC 2	LAT EXT	6,000	-13,050
	2/12/2015	352634	BAUER PROPERTY	LAT EXT	2,920	-6,351
	6/30/2015	SC1082585	MAINTENANCE WORK FY15 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		2,547
	7/12/2015	SC983704	PROSPECT I&I REHABILITATION - FY13 PHASE IA	SCAPCREDIT		1,034,758
	8/5/2015	SC1003730	RIVER ROAD I/I REMEDIATION	SCAPCREDIT		120,418
	10/21/2015	LE929244	Summit Gardens Phase 2	LAT EXT	18,000	-39,150
	11/19/2015	SC1006195	CONTRACTED WORK FY15 - ORFM	SCAPCREDIT		1
	12/14/2015	LE938166	Spring Farm Lake Section 3	LAT EXT	3,200	-6,960
	12/30/2015	SC1082586	MAINTENANCE WORK FY16 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		1,478
	6/30/2016	SC1082587	MAINTENANCE WORK FY16 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		460
		SC1082589	MAINTENANCE WORK FY17 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		3,171
	8/10/2016	SC1003696	CONTRACTED WORK FY16 - ORFM	SCAPCREDIT		17,566
	10/6/2016	SC1003728	PROSPECT I&I REHABILITATION - FY16 PHASE IB	SCAPCREDIT		199,036
	11/16/2016	LE923204	Indian Springs Hotel	LAT EXT	13,000	-28,275
	6/30/2017	SC1082590	MAINTENANCE WORK FY17 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		1,630
	12/30/2017	SC1082592	MAINTENANCE WORK FY18 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		3,330
	12/6/2019	LE971285	Cityscape - Simcoe Lane	LAT EXT	66,700	-145,073
	6/16/2020	LE937450	Poplar Hill Place	LAT EXT	4000	-8,700
ORFM Total						1,339,007
Pond Creek	11/1/2008	235574	MAINTENANCE WORK FY06 AUG-FY09 NOV - POND CREEK	SCAPCREDIT		71,782
	12/31/2008	359347	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359438	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		SC1011298	MAINTENANCE WORK FY09A - POND CREEK	SCAPCREDIT		1,913
	6/30/2009	SC1011299	MAINTENANCE WORK FY09B - POND CREEK	SCAPCREDIT		6,403
	12/31/2009	359348	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359439	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		SC1011305	MAINTENANCE WORK FY10A - POND CREEK	SCAPCREDIT		22,337
	2/17/2010	192513	BANNON CROSSINGS SECTION 3A-1	LAT EXT	800	-1,740
	3/26/2010	219734	DSL LIFE LONG LEARNING CENTER	LAT EXT	900	-1,958
	4/27/2010	261115	EMERGENCY RESTORATION	LAT EXT	400	-870
	6/30/2010	SC1011307	MAINTENANCE WORK FY10B - POND CREEK	SCAPCREDIT		11,060
	10/13/2010	276977	DADISMAN BUILDERS-POPLAR TREE	LAT EXT	400	-870
	12/1/2010	266833	THORNTONS @ PRESTON HWY	LAT EXT	400	-870
	12/29/2010	280751	NOTTINGTON HILLS SEC 1	LAT EXT	4,400	-9,570
	12/31/2010	359350	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		SC1011308	MAINTENANCE WORK FY11A - POND CREEK	SCAPCREDIT		19,773
	1/13/2011	187739	GLENGARRY INDUSTRIAL PARK	LAT EXT	4,300	-9,353
	3/21/2011	277777	TIRE DISCOUNTERS - BOERSTE WAY	LAT EXT	2,960	-6,438
	6/30/2011	SC1011309	MAINTENANCE WORK FY11B - POND CREEK	SCAPCREDIT		10,562
	9/14/2011	304408	UPS SUPPLY CHAIN SOLUTIONS #7	LAT EXT	2,250	-4,894
	9/27/2011	320918	EDSEL I/I REHABILITATION - FY1	SCAPCREDIT		106,700
	11/4/2011	313444	PLANET FITNESS - JEFF BLVD	LAT EXT	1,600	-3,480

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	11/29/2011	312391	LONGHORN STEAKHOUSE RESTAURANT	LAT EXT	4,840	-10,527
	12/29/2011	320919	LANTANA I/I REHABILITATION - F	SCAPCREDIT		5,000
	12/31/2011	359351	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		20,000
		SC1011310	MAINTENANCE WORK FY12A - POND CREEK	SCAPCREDIT		5,380
	2/28/2012	310845	ZAXBY'S RESTAURANT	LAT EXT	3,750	-8,156
	3/13/2012	255044	ISA-RECYCLING CENTER	LAT EXT	400	-870
	3/19/2012	312814	MILLER TRANSPORTATION	LAT EXT	1,800	-3,915
	4/16/2012	324554	NORTONS TEMPORARY OFFICE	LAT EXT	900	-1,958
	6/19/2012	234102	ETHOS AT VALLEY FARM SR LIVING	LAT EXT	7,050	-15,334
	6/21/2012	322367	SHEPHERDS CARE MEMORY HOME	LAT EXT	2,000	-4,350
	6/30/2012	SC1011313	MAINTENANCE WORK FY12B - POND CREEK	SCAPCREDIT		3,877
	8/6/2012	307332	LOUISVILLE INDUSTRIAL BLDG B	LAT EXT	2,520	-5,481
	8/10/2012	279860	BANNON CROSSINGS SEC 3B-2	LAT EXT	9,600	-20,880
		SC1005684	CONTRACTED WORK FY12 - POND CREEK	SCAPCREDIT		3,812
	8/13/2012	312053	DOLLAR GENERAL - CLEARWATER FA	LAT EXT	400	-870
	10/12/2012	343455	SINGLE FAMILY 1812 GREYLING DR	LAT EXT	400	-870
	11/9/2012	243109	OVERBROOK APARTMENTS	LAT EXT	41,200	-89,610
	12/31/2012	14SC1005	MAINTENANCE WORK FY13A - POND CREEK	SCAPCREDIT		25,984
		359354	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		56,000
	2/20/2013	329624	COPART	LAT EXT	400	-870
	5/2/2013	346082	ZAXBYS	LAT EXT	2,065	-4,491
	6/30/2013	320924	LEA ANN WAY INTERCEPTOR I&I RE	SCAPCREDIT		1,017,423
		SC1082593	MAINTENANCE WORK FY13 JAN-JUN-POND CREEK	SCAPCREDIT		41,995
	7/2/2013	335385	HARRISON LOW PRESSURE S/S	LAT EXT	1,600	-3,480
	7/12/2013	SC1005534	PICADILLY I/I REHABILITATION FY13	SCAPCREDIT		187,564
	8/16/2013	320940	4 RESIDENCE SFU 7821 MANSCLICK	LAT EXT	400	-870
	8/27/2013	SC1005538	CONTRACTED WORK FY13 - POND CREEK	SCAPCREDIT		18,958
	9/6/2013	324886	PNC BANK	LAT EXT	400	-870
		361336	RENAISSANCE SOUTH BUSINESS	LAT EXT	540	-1,175
	9/26/2013	13LE1083	SINGLE FAMILY HOME 5402 (H) E MANSCLICK RD	LAT EXT	400	-870
	11/12/2013	SC1005319	FEGENBUSH I/I REHABILITATION FY13	SCAPCREDIT		226,201
	12/9/2013	353125	PEGASUS TRANSPORTATION	LAT EXT	250	-544
	12/10/2013	308206	APPLGATE FARMS	LAT EXT	57,200	-124,410
		341439	PRESTON GARDENS APTS	LAT EXT	22,200	-48,285
	12/30/2013	SC1082594	MAINTENANCE WORK FY14 JUL-DEC-POND CREEK	SCAPCREDIT		19,491
	2/14/2014	13LE1179	TIMBERBEND SUBDIVISION SEC 5B	LAT EXT	6,400	-13,920
	4/10/2014	13LE1035	RENAISSANCE SOUTH BUSINESS PARK TRACT 4	LAT EXT	5,415	-11,778
	4/24/2014	348014	ASHTON PARK TOWN HOMES	LAT EXT	9,000	-19,575
	5/16/2014	280180	LOUISVILLE INDUSTRIAL CTR F	LAT EXT	2,480	-5,394
	5/28/2014	14LE1085	Williams Properties - Self Storage Facility	LAT EXT	400	-870
	6/9/2014	13LE1034	6300 GEIL LANE WAREHOUSE	LAT EXT	720	-1,566
	6/30/2014	SC1082595	MAINTENANCE WORK FY14 JAN-JUN-POND CREEK	SCAPCREDIT		14,457
	7/7/2014	284215	HURSTBOURNE POINTE APTS	LAT EXT	9,600	-20,880
	8/25/2014	344230	AUSTIN PARK APARTMENTS PH6	LAT EXT	27,600	-60,030
	11/13/2014	13LE1105	JEFFERSON COMMONS	LAT EXT	17,075	-37,138
	11/18/2014	SC1005323	FERN CREEK I/I REHABILITATION FY13	SCAPCREDIT		551,108

CREDIT BASIN	RELEASE DATE	APPLICATION	APPLICATION NAME	TYPE	FLOW	SUM OF APPROVED CREDIT REQUIRED / FLOW REDUCTION
	12/30/2014	SC1082596	MAINTENANCE WORK FY15 JUL-DEC-POND CREEK	SCAPCREDIT		26,095
	1/13/2015	13LE1017	APEX ON PRESTON APT HOMES(Formerly CITYSCAPE APTS	LAT EXT	84,400	-183,570
	3/10/2015	SC1005541	STONY BROOK I/I REHABILITATION FY13	SCAPCREDIT		345,397
	3/11/2015	SC995942	CAVEN AVE I/I REMEDIATION - FY13	SCAPCREDIT		225,645
	4/29/2015	354207	COOPER FARMS SEC 11B	LAT EXT	12,400	-26,970
		354209	COOPER FARMS SEC 11A	LAT EXT	13,200	-28,710
	6/30/2015	SC1082597	MAINTENANCE WORK FY15 JAN-JUN-POND CREEK	SCAPCREDIT		10,279
	8/25/2015	13LE1086	WOODS OF PENN RUN OFFSITE SS	LAT EXT	1,000	-2,175
	10/2/2015	13LE1140	JEFFERSON POST APARTMENTS	LAT EXT	28,800	-62,640
	12/30/2015	14LE1116	CATALPA SPRINGS	LAT EXT	2,800	-6,090
		SC1082598	MAINTENANCE WORK FY16 JUL-DEC-POND CREEK	SCAPCREDIT		13,994
	12/31/2015	SC939830	Lea Ann Way West Quad 1 & 2 Rehabilitation Project	SCAPCREDIT		445,911
	2/4/2016	13LE1056	MORNING POINTE AT HURSTBOURNE	LAT EXT	13,000	-28,275
	2/12/2016	358356	WOODS OF PENN RUN Section 1	LAT EXT	18,800	-40,890
	5/17/2016	SC1003699	CONTRACTED WORK FY16 - POND CREEK	SCAPCREDIT		36,063
	6/6/2016	LE936598	Jefferson Commerce Center Tract 1A	LAT EXT	5,250	-11,419
	6/21/2016	14LE1170	Austin Park Phase 7 & 8	LAT EXT	26,400	-57,420
		LE918484	AUSTIN PARK SS PHASE 8	LAT EXT	16,800	-36,540
	6/30/2016	SC1082599	MAINTENANCE WORK FY16 JAN-JUN-POND CREEK	SCAPCREDIT		12,650
	8/5/2016	SC1003087	HILLRIDGE I/I REMEDIATION	SCAPCREDIT		308,184
	8/31/2016	SC1003292	LEA ANN WAY WEST (LAWW) QUAD 3 I/I REMEDIATION	SCAPCREDIT		311,526
	10/24/2016	SC1006197	CONTRACTED WORK FY15 - POND CREEK	SCAPCREDIT		310
	10/26/2016	SC1006182	CONTRACTED WORK FY14 - POND CREEK	SCAPCREDIT		8,390
	10/31/2016	SC1005631	LEA ANN WAY WEST (LAWW) QUAD 4 I/I REHABILITATION	SCAPCREDIT		692,905
		SC1005639	SILVER HEIGHTS SEWER REHAB	SCAPCREDIT		284,936
	12/30/2016	SC1082601	MAINTENANCE WORK FY17 JUL-DEC-POND CREEK	SCAPCREDIT		14,699
	1/17/2017	LE942402	Preston Crossing Apartments	LAT EXT	46,400	-100,920
	2/2/2017	LE954229	Jefferson Commerce Center Bldg.2	LAT EXT	3,150	-6,851
	6/30/2017	SC1082602	MAINTENANCE WORK FY17 JAN-JUN-POND CREEK	SCAPCREDIT		14,076
	7/6/2017	LE967615	Cooper Farms Section 12	LAT EXT	21,200	-46,110
	12/30/2017	SC1082603	MAINTENANCE WORK FY18 JUL-DEC-POND CREEK	SCAPCREDIT		10,803
	6/30/2018	SC1096902	Admiral PS I/I Rehab FY17 FY18	SCAPCREDIT		977,768
	6/10/2019	LE1047077	Orell Station 1C	LAT EXT	10,400	-22,620
	7/10/2019	LE1053368	Ferndale Place Subdivision	LAT EXT	9,600	-20,880
	1/13/2020	LE1092680	Hidden Forest Section 2	LAT EXT	10000	-21,750
	8/29/2014	14LE1177	Valley Farm Subd.	LAT EXT	0	0
Pond Creek Total						4,959,701
SE Diversion	12/31/2007	359355	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		359440	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		128,000

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CREDIT BASIN	RELEASE DATE	APPLICATION	APPLICATION NAME	TYPE	FLOW	SUM OF APPROVED CREDIT REQUIRED / FLOW REDUCTION
	11/1/2008	235575	MAINTENANCE WORK FY06 AUG-FY09 NOV - SE DIVERSION	SCAPCREDIT		71,472
	12/22/2008	236214	GOLDSMITH BUECHB ICA PHI REHAB	SCAPCREDIT		314,808
		236296	BEARGRASS INT REHAB PH1 SEDIV	SCAPCREDIT		122,688
	12/31/2008	359356	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359441	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		SC1011317	MAINTENANCE WORK FY09A - SE DIVERSION	SCAPCREDIT		1,555
	6/30/2009	SC1011318	MAINTENANCE WORK FY09B - SE DIVERSION	SCAPCREDIT		2,929
	10/20/2009	229854	TINY HANDS DAYCARE	LAT EXT	1,225	-2,664
	12/31/2009	359357	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359443	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011322	MAINTENANCE WORK FY10A - SE DIVERSION	SCAPCREDIT		16,974
	2/11/2010	235291	SULLIVAN COLLEGE OF TECHNOLOGY	LAT EXT	900	-1,958
	3/1/2010	238328	LOUISVILLE COLLEGIATE SPORTS	LAT EXT	400	-870
	3/5/2010	241759	FRISCHS BIG BOY RESTAURANT	LAT EXT	2,400	-5,220
	4/16/2010	257275	LOUISVILLE JUNIOR ACADEMY	LAT EXT	520	-1,131
	6/30/2010	SC1011326	MAINTENANCE WORK FY10B - SE DIVERSION	SCAPCREDIT		10,739
	12/14/2010	320993	BEARGRASS CREEK PHASE II - FY1	SCAPCREDIT		10,368
	12/31/2010	359358	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359444	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		24,000
		SC1011328	MAINTENANCE WORK FY11A - SE DIVERSION	SCAPCREDIT		11,090
	2/16/2011	286513	GARDINER POINT RESIDENCE HALL	LAT EXT	10,800	-23,490
	5/6/2011	276378	TIRE DISCOUNTERS - BARDSTOWN	LAT EXT	1,500	-3,263
	5/30/2011	287888	BEVERAGE WAREHOUSE	LAT EXT	1,180	-2,567
	6/30/2011	SC1011330	MAINTENANCE WORK FY11B - SE DIVERSION	SCAPCREDIT		3,661
	7/1/2011	296295	KEN TOWERY -3800 S HURSTBOURNE	LAT EXT	400	-870
	12/31/2011	359359	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		64,000
		359445	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011331	MAINTENANCE WORK FY12A - SE DIVERSION	SCAPCREDIT		5,071
	6/30/2012	SC1011316	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		24,202
		SC1011333	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		6,141
	8/10/2012	307018	HOOK PROPERTY FAMILY DOLLAR	LAT EXT	400	-870
	12/31/2012	14SC1006	MAINTENANCE WORK FY13A - SE DIVERSION	SCAPCREDIT		24,202
		359361	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		68,000
		359446	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
	3/11/2013	187741	BROOKSTONE SENIOR APARTMENTS	LAT EXT	16,800	-36,540
	6/14/2013	232601	RAINTREE/MARIAN CT P/S ELIM	LAT EXT	105,800	-230,115
	6/30/2013	SC1082605	MAINTENANCE WORK FY13 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		21,761
	9/18/2013	SC1005539	CONTRACTED WORK FY13 - SOUTHEAST DIVERSION	SCAPCREDIT		25,344
	11/26/2013	330437	COLLEGIATE ATHLETIC FIELD	LAT EXT	800	-1,740
	12/30/2013	SC1082606	MAINTENANCE WORK FY14 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		19,491
	6/30/2014	SC1082607	MAINTENANCE WORK FY14 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		9,087
	12/30/2014	SC1082608	MAINTENANCE WORK FY15 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		15,321
	2/11/2015	SC1006185	CONTRACTED WORK FY14 - SOUTHEAST DIVERSION	SCAPCREDIT		187,478

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	6/30/2015	SC1082610	MAINTENANCE WORK FY15 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		10,273
	10/20/2015	SC1006199	CONTRACTED WORK FY15 - SOUTHEAST DIVERSION	SCAPCREDIT		1
	12/22/2015	LE919560	Todd's Place Express Car Wash	LAT EXT	4,830	-10,505
	12/30/2015	SC1082611	MAINTENANCE WORK FY16 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		7,052
	2/16/2016	SC1003718	SOUTHEAST DIVERSION AREA G (SEDG) I/I REMEDIATION	SCAPCREDIT		75,998
	5/24/2016	SC1003704	CONTRACTED WORK FY16 - SOUTHEAST DIVERSION	SCAPCREDIT		66
	6/30/2016	SC1082612	MAINTENANCE WORK FY16 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		19,904
	7/28/2016	LE943171	Costco Wholesale and Fuel Facility	LAT EXT	8,000	-17,400
	12/30/2016	SC1082613	MAINTENANCE WORK FY17 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		5,812
	6/30/2017	SC1082614	MAINTENANCE WORK FY17 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6,961
	12/30/2017	SC1082615	MAINTENANCE WORK FY18 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		14,909
SE Diversion Total						1,054,155
Grand Total						14,721,404

APPENDIX E

IOAP PROJECT CROSSWALK

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PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
17TH ST FPS DWO ELIMINATION	LTCP	MSD0306-FP	L_OR_MF_190_S_03_A_A
27TH STREET FPS DWO ELIM	LTCP	MSD0307-FP	L_OR_MF_019_S_03_A_A
34TH ST FPS DWO ELIMINATION	LTCP	MSD0308-FP	L_OR_MF_019_S_03_A_B
4TH STREET FPS DWO ELIMINATION	LTCP	MSD0303-FP	L_OR_MF_022_M_03_A_A
ADAMS STREET SEWER SEPARATION (FORMERLY STORAGE BASIN)	LTCP	CSO172	L_OR_MF_172_S_09B_B_A_0
ANCHOR ESTATES PS ELIMINATIONS 1 - VANNAH PUMP STATION ELIMINATION	SSDP	01106	S_MI_MF_NB06_M_01_A_A-2
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	00056-W	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	0057-W	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	00746	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	00817	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	MSD0057-LS	S_MI_MF_NB06_M_01_A_A - 1
ASHBURTON PS IMPROVEMENTS & DIVERSION	SSDP	MSD0165-PS	S_FF_FF_NB03_M_01_C_A
ASHBURTON PS IMPROVEMENTS & DIVERSION	SSDP	MSD0166-PS	S_FF_FF_NB03_M_01_C_A
AVANTI PS ELIMINATION	SSDP	21229	S_PO_WC_PC07_M_01_A
BARDSTOWN RD PS IMPROVEMENTS	SSDP	88545	S_CC_CC_MSD1025_S_03_B
BEARGRASS INTERCEPTOR REHABILITATION PH 2	SSDP	51594	S_SD_MF_NB06_S_13_C
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21061	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21089	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21089A	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21101	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21153	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21156	BEECHWOOD VILLAGE SEWER REPL
BELLS LANE (FORMERLY PADDY'S RUN) WET WEATHER TREATMENT FACILITY	LTCP	CSO015	L_OR_MF_015_M_13_B_B_8
BELLS LANE (FORMERLY PADDY'S RUN) WET WEATHER TREATMENT FACILITY	LTCP	CSO191	L_OR_MF_015_M_13_B_B_8
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	08717	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	104223	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	104224	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	104231	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	13931	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	13943	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	13946	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	34093542	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	36763	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	44396	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	44397	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	51301	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	66349	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	99259	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	KK14815019	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	KK14855239	S_SF_MF_30917_M_09_A
CAVEN AVENUE PS ELIMINATION	SSDP	17724	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	27116	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	61667	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	61687	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	70212	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	MSD0133-PS	S_PO_WC_PC09_M_09B_C

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CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO028	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO029	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO034	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO036	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO178	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO181	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO193	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO195	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO196	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO197	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO199	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO200X	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO202	L_OR_MF_155_M_09B_B_B_4-1
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP	25477	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP	25479	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP	25480	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP	MSD0130-PS	S_PO_WC_PC03_M_01_C
CINDERELLA PS ELIMINATION	SSDP	102339	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP	35309	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP	60679	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP	MSD1013-PS	S_PO_WC_PC04_M_01_C
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO083	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO088	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO131	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO132	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO154	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO167	L_MU_MF_154_M_09B_B_A_8
CSO058 IN-LINE STORAGE & GREEN INFRASTRUCTURE	LTCP	CSO058	L_OR_MF_058_S_08_A_A_0
CSO093 STRUCTURAL MODIFICATIONS & GREEN INFRASTRUCTURE	LTCP	CSO093	L_SO_MF_093_S_08_A_A_0
CSO108 DAM MODIFICATION	LTCP	CSO108	L_SO_MF_108_S_09A_B_A_4
CSO140 IN-LINE STORAGE & GREEN INFRASTRUCTURE	LTCP	CSO140	L_MI_MF_140_S_08_A_A_0
CSO160 SEWER SEPARATION	LTCP	CSO160	L_OR_MF_160_S_08_A_A_0
CSO190 GREEN INFRASTRUCTURE (FORMERLY 18TH & NORTHWESTERN PKWY STORAGE BASIN)	LTCP	CSO190	L_OR_MF_190_S_09B_B_A_8
CSO206 SEWER SEPARATION	LTCP	CSO206	L_MI_MF_206_S_08_A_A_0
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	104289	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28249	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28250	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28336	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28340	S_JT_JT_NB02_M_01_C

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DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28413	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28414	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28415	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28416	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28417	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28451	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28452	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28453	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28711	S_JT_JT_NB02_M_01_C
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	1256312700A	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22307	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22370	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22385	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	32682	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	32688	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	59169	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	MSD0277	DEREK R GUTHRIE WQTC UPGRADES
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP	20154-W	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP	20155	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP	MSD0095-PS	S_OR_MF_NB03_S_07_C
EAST ROCKFORD PS RELOCATION	SSDP	04699-W	S_MC_WC_NB02_S_03_C
EDEN CARE PS SSO INVESTIGATION	SSDP	MSD1105-PS	S_FF_FF_NB02_S_13_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP	92098	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP	92099	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP	94009	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP	MSD1048-PS	S_PO_WC_PC11_M_07_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	64096	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	86052	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	92061	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	MSD0196-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	MSD0263	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	MSD0263A-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	MSD1043-PS	S_JT_JT_NB01A_M_03_C
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	116106	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	81316	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	97362	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	97363	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	97365	S_FF_CC_81316_M_03_C_A
FAIRWAY VIEW PS IMPROVEMENTS	SSDP	MSD1065-PS	S_HC_HS_NB01_S_03_C_A
FLOYDSBURG RD I&I INVEST	SSDP	108953	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP	108956	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP	108957	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP	108958	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP	90776	S_HC_HC_MSD1086_M_07_C_A

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FLOYDSBURG RD I&I INVEST	SSDP	MSD1086-PS	S_HC_HC_MSD1086_M_07_C_A
FOX HARBOR IN-LINE STORAGE	SSDP	62769	S_HC_HN_NB03_S_09A_A_A
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	105936	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	117721	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	43472	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	46891	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	62418	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	62420	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	91629	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	91630	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	MSD0040-PS	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	MSD1024-PS	S_MI_MF_NB04_M_03_B-1
GOVERNMENT CENTER PS ELIMINATION	SSDP	94541	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	SSDP	94542	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	SSDP	MSD0180-PS	S_PO_WC_PC06_M_01_C
GUNPOWDER PS IN-LINE STORAGE	SSDP	MSD1055-LS	S_HC_HN_NB02_S_09A_C_B
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	SSDP	55665	S_MC_MF_55665_S_07_C
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	SSDP	55667	S_MC_MF_55665_S_07_C
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	17571	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18134	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18297	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18298	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18299	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18302	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18318-W	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18370	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18434	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18471	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18483	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18505	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18595	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	47960A	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	48885	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	48886	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	48888	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49224	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49236	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49672	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49673	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	73111	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	MSD0012-PS	HIKES LN INTER & HIGHGATE SPR
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP	01793	S_MI_MF_NB07_S_07_C

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HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP	47650	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP	47656	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP	67535	S_MI_MF_NB07_S_07_C
IDLEWOOD IN-LINE STORAGE	SSDP	28984	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	28985	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	28998	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	63094	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	63095	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	70158	S_CC_CC_70158_M_09A_C
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28173	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28390	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28391	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28392	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28395	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28551	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	31733	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	64505	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	IS028-SI	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	MSD0255	S_JT_JT_NB01_M_01_C_A
KAVANAUGH RD PS IMPROVEMENTS	SSDP	MSD1085-PS	S_HC_HC_MSD1085_S_03_A
KLONDIKE INTERCEPTOR	SSDP	20644	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	25676	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	26650	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	26651	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	49513	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	66232	S_SD_MF_NB04_S_01_B_A
LAKE FOREST PS SSO INVESTIGATION	SSDP	MSD1169-LS	S_FF_LF_NB01_S_13_C_A
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	SSDP	25484	S_PO_WC_PC05_M_07_C
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	SSDP	93719	S_PO_WC_PC05_M_07_C
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	SSDP	MSD101-PS	S_PO_WC_PC05_M_07_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	19360	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	19369	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	29933	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	29943	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	29948	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	29949	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	31073	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	31074	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	31083	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	31084	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	57874	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	61266	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	79076	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	MSD1010-PS	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	MSD1200-PS	S_PO_WC_PC08_M_01_C
LELAND RD SSO INVESTIGATION	SSDP	96020	S_OR_MF_NB02_S_13_C
LEVEN PS ELIMINATION	SSDP	36419	S_PO_WC_PC10_M_01_C
LEVEN PS ELIMINATION	SSDP	MSD1019-PS	S_PO_WC_PC10_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	67997	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	67999	S_CC_CC_67997_M_01_C

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LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	86423	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	86424	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	89196	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	89197	S_CC_CC_67997_M_01_C
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO091	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO097	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO106	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO110	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO111	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO113	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO137	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO146	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO148	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO149	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO151	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO152	L_SO_MF_092_M_09B_B_D_8
LUCAS LANE PS IN-LINE STORAGE	SSDP	MSD0199-LS	S_FF_BT_NB01_S_09A_C_A
MEADOW STREAM PS & FM UPGRADE	SSDP	91087	S_HC_HC_MSD1082_S_09A_C
MEADOW STREAM PS & FM UPGRADE	SSDP	MSD1082-PS	S_HC_HC_MSD1082_S_09A_C
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	24152-W	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	24472	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	26752	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	41374	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	41416	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0006-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0007-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0010-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0023-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0024-PS	S_OR_MF_NB01_M_01_B-1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	02932	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	02933	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	02935	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	08537	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	08935-SM	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	115183	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	115184	S_MISF_MF_NB01_M_01_C_A1

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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	115185	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	15194	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	15195	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	17618	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	23211	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	23212	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	24553	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	27005	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	27007	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	27008	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	30376	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	40471	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	40559	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	43726	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	45796	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	45829	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	45835	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	45900	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47034	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47582	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47583	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47593	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47596	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47603	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47604	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	48864	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	51160	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	51161	S_MISF_MF_NB01_M_01_C_A1

PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	51180	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	51221	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	65070	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	72288	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	72289	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	74512	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	74513	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	74520	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	84155	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	90700	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	96672	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	96673	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	IS021A-SI	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP	27012	S_MISF_MF_NB01_M_01_C_A1-2
MONTICELLO PS ELIMINATION	SSDP	27969	S_JT_JT_NB04_M_01_A
MONTICELLO PS ELIMINATION	SSDP	MSD0151-PS	S_JT_JT_NB04_M_01_A
MORRIS FORMAN WQTC HEADWORKS (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LTCP	CSO211	L_OR_MF_211_M_13_B_A_8
NIGHTINGALE PS REPLACEMENT & STORAGE	LTCP	CSO018	L_SO_MF_018_S_03_A_A
NORTHERN DITCH DIVERSION INTERCEPTOR	ISSDP	MSD0271	NORTHERN DITCH DIVERSION INTER
PARKVIEW ESTATES I&I INVESTIGATION	SSDP	47250	S_SD_MF_NB03_S_07_C
PORTLAND CSO STORAGE BASIN	LTCP	CSO019	L_OR_MF_019_S_13_B_A_8
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	16455	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	22436	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40870	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40871	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40872	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40879	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40880	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	42675	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	42680	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	46621	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	46623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	46627	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65606	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65610	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65633	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65635	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	89646	S_OR_MF_NB04_M_03_B_B-1

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PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	89791	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0123-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0183-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0186-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0192-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0193-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0291	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0292	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD1044-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD1063-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP	89641	S_OR_MF_NB04_M_03_B_B-3
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP	89790	S_OR_MF_NB04_M_03_B_B-3
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	SSDP	28729-W	S_JT_JT_NB03_M_01_C-1
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	SSDP	MSD0149-PS	S_JT_JT_NB03_M_01_C-1
RIDING RIDGE PS IMPROVEMENTS	SSDP	MSD1060-LS	S_HC_HN_NB01_S_03_C_A
RUNNING FOX PS ELIMINATION	SSDP	MSD1080-LS	S_CC_CC_MSD1080_S_01_C
SHAWNEE FPS DWO ELIMINATION	LTCP	MSD0309-FP	L_OR_MF_189_M_03_A_A
SHIVELY INTERCEPTOR	SSDP	04498	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	04542	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	81814-W	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0016-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0043-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0044-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0047-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0049-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0050-PS	S_MC_WC_NB01_M_01_A
SINKING FORK INTERCEPTOR	SSDP	21103	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	SSDP	25012	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	SSDP	63319	SINKING FORK RELIEF SEWER
SONNE PS I&I INVESTIGATION & REHABILITATION	SSDP	MSD0042-PS	S_OR_MF_42007_S_07_C
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08426	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08427	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08429	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08430	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08431	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	18654	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30680	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30681	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30701	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30702	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30704	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	49647	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	63779	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	72571-X	SOUTHEASTERN DIVERSION STRUCT
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LTCP	CSO016	L_OR_MF_211_M_13_B_A_8__
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LTCP	CSO210	L_OR_MF_211_M_13_B_A_8__
SOUTHWESTERN PKWY CSO BASIN	LTCP	CSO104	L_OR_MF_105_M_13_B_A_0

PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
SOUTHWESTERN PKWY CSO BASIN	LTCP	CSO105	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	LTCP	CSO189X	L_OR_MF_105_M_13_B_A_0
ST RENE RD PS IN-LINE STORAGE	SSDP	94187	S_FF_CH_NB01_S_09A_C_A
SUTHERLAND INTERCEPTOR	SSDP	16649	S_SD_MF_NB05_M_01_A
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO022	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO023	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO050	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO051	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO052	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO053	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO054	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO055	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO056	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO150	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO155	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	LTCP	CSO125	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	LTCP	CSO126	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	LTCP	CSO127	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	LTCP	CSO166	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO082	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO084	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO118	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO119	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO120	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO121	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO141	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO153	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY STORY & MAIN ST STORAGE BASIN)	LTCP	CSO020	L_OR_MF_020_S_09B_B_A_8
WOODLAND HILLS PS DIVERSION	SSDP	33003	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	SSDP	65516	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	SSDP	65531	S_FF_FF_NB01_S_01_C_A

APPENDIX F

CSO108 SEMI-ANNUAL REPORT



July 30, 2021

Josh Lillpop
Natural Areas Branch Manager
Office of Kentucky Nature Preserves
Kentucky Energy and Environment Cabinet
300 Sower Boulevard, 4th Floor
Frankfort, KY 40601

Subject: CSO108 Semi-Annual Report #26

Dear Mr. Lillpop,

As required in Paragraph #2 of the document titled "Memorandum of Understanding by and between the Commonwealth of Kentucky, Office of Kentucky Nature Preserves and the Louisville and Jefferson County Metropolitan Sewer District", MSD submits to you the MOU Semi-Annual Report #26. This report summarizes activities at the CSO108 CDS Site during the reporting period of January 1, 2021 to June 30, 2021.

Should you have any questions or comments, please feel free to contact me via email at heather.dodds@louisvillemsd.org or phone at (502) 540-6961.

Sincerely,



Heather Dodds, PE
Regulatory Compliance & Asset Management Administrator

MOU SEMI-ANNUAL REPORT 26
JANUARY 1, 2021 - JUNE 30, 2021



INTRODUCTION

The Louisville and Jefferson County Metropolitan Sewer District (MSD) has entered into a Memorandum of Understanding (MOU) with the Kentucky State Nature Preserve Commission (Commission). The MOU was signed by MSD on July 31, 2018, and by the Commission on August 10, 2018. This MOU is effective for the period starting August 1, 2018, and ending on August 1, 2028.

This is the 26th Semi-Annual Report submitted in accordance with Paragraph 2 of the MOU. This report covers the time period of January 1, 2021 to June 30, 2021.

This Semi-Annual Report will address only those requirements considered ongoing. The initial Semi-Annual Report, MOU Semi-Annual Report #1, was comprehensive and included a response to each requirement addressed within the MOU. Please refer to the initial Semi-Annual Report for additional information not found within this document.

Work and activities undertaken by MSD and relating to the MOU are outlined in the paragraphs below.

1. PARAGRAPH #2 OF THE MOU

MSD shall be diligent of this ten-year period in supplying the Commission with timely semi-annual reports on the efficacy of the CDS unit, water quality monitoring data, and any other such pertinent information. Said reports shall be provided to the Commission by January 30 and July 30 of each year.

2. MSD RESPONSE

This document is the 26th semi-annual report to the Commission since the completion of the Project. Appendix A shows photos of the area around the CDS unit and South Fork Beargrass Creek during the reporting period.

2.1. CLEANING & INSPECTION ACTIVITIES

The CSO108 CDS unit is inspected weekly and cleaned on an as-needed basis. During the reporting period, MSD cleaned the CDS Unit bar racks 1 time. The information, shown in Table 1, is generated from work orders initiated whenever the CDS Unit is inspected and needs to be cleaned. Cleaning consists of either washing debris off the bar racks or hauling the solids and floatables from the site. Both operations result in removing debris that would otherwise overflow into Beargrass Creek. When cleaning the bar racks, the debris is reintroduced into the sewer system, and as a result, is difficult to accurately estimate the amount removed during the maintenance process. The report often indicates the quantity removed as "unknown".

Table 1. CSO108 CDS Unit Debris Removal

ACTIVITY	QUANTITY	COMMENTS	COMPLETED DATE
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS OFF RACK BARS NORTHINGTON BRITTLE	6/15/2021

2.2. MAINTENANCE ACTIVITIES

In addition to the weekly inspections, MSD has initiated a preventative maintenance program to insure that the CDS unit and respective pumps are performing optimally. During these quarterly preventative maintenance activities, MSD staff also cleans the CDS unit and rack bars, washing the debris into the interceptor. The CDS Unit's pumps are removed from the facility twice yearly to more closely inspect and to perform any needed maintenance.

2.3. CAPTURED FLOW

The CDS unit was placed along the Trevillian Way Twin Trunk Sewer to capture solids and floatables from a 485-acre drainage area. The unit uses a vortex action created by the hydraulic energy of incoming flow to separate solids and floatable from the flow. The treated flow is then discharged through the outlet pipe to Beargrass Creek and the debris that is captured is pumped to the Morris Forman Water Quality Treatment Center (WQTC).

In an effort to estimate the volume of debris captured by the CDS unit and kept within the sewer system, a study of the efficiency of the unit was performed in the early 2002. The results of the study indicated that the concentration of solids kept within the sewer system was approximately 1ml/l. Using pump run times and knowing the efficiency of the pumps, MSD was able to determine a volume of solids captured by the CDS technology. MSD estimates that the CDS unit captured 71.1 tons of solids during the reporting period. Appendix B lists the pump run times and Appendix C shows the calculations MSD used to determine the amount of debris captured by the CDS Unit and sent to the Morris Forman WQTC for treatment.

**PROJECT WIN QUARTERLY REPORT #63
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**MOU SEMI-ANNUAL REPORT 26
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APPENDIX A

**PHOTOS OF AREA ADJACENT TO CSO108 AND THE
CDS UNIT (DATED JULY 14, 2021)**

Figure 1. Entrance to CDS Unit



Figure 2. Entrance to CDS Unit



Figure 3. Area Adjacent to CDS Unit



Figure 4. Area Adjacent to CDS Unit



Figure 5. Area Adjacent to Creek



Figure 6. Area Adjacent to Creek



APPENDIX B

CDS UNIT PUMP RUN TIMES

DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
January 1, 2021	0.00	0.00	0.08
January 2, 2021	0.00	0.00	0.37
January 3, 2021	0.00	0.00	0.77
January 4, 2021	0.00	0.00	0.27
January 5, 2021	0.00	0.00	0.17
January 6, 2021	0.00	0.00	0.17
January 7, 2021	0.00	0.00	0.10
January 8, 2021	0.00	0.00	0.08
January 9, 2021	0.00	0.00	0.03
January 10, 2021	0.00	0.00	0.05
January 11, 2021	0.00	0.00	0.00
January 12, 2021	0.00	0.00	0.05
January 13, 2021	0.00	0.00	0.00
January 14, 2021	0.00	0.00	0.03
January 15, 2021	0.00	0.00	0.00
January 16, 2021	0.00	0.00	0.00
January 17, 2021	0.00	0.00	0.05
January 18, 2021	0.00	0.00	0.00
January 19, 2021	0.00	0.00	0.00
January 20, 2021	0.00	0.00	0.03
January 21, 2021	0.00	0.00	0.00
January 22, 2021	0.00	0.00	0.00
January 23, 2021	0.00	0.00	0.00
January 24, 2021	0.00	0.00	0.05
January 25, 2021	0.00	0.00	0.00
January 26, 2021	0.00	0.00	0.00
January 27, 2021	0.00	0.00	0.73
January 28, 2021	0.00	0.00	0.23
January 29, 2021	0.00	0.00	0.22
January 30, 2021	0.00	0.00	0.10
January 31, 2021	0.00	0.00	0.08
February 1, 2021	0.00	0.00	0.13
February 2, 2021	0.00	0.00	0.12
February 3, 2021	0.00	0.00	0.18
February 4, 2021	0.00	0.00	0.13
February 5, 2021	0.00	0.00	0.08
February 6, 2021	0.00	0.00	0.13
February 7, 2021	0.00	0.00	0.08
February 8, 2021	0.00	0.00	0.13
February 9, 2021	0.00	0.00	0.03

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
February 10, 2021	0.00	0.00	0.05
February 11, 2021	0.00	0.00	0.03
February 12, 2021	0.00	0.00	0.05
February 13, 2021	0.00	0.00	0.13
February 14, 2021	0.00	0.00	0.08
February 15, 2021	0.00	0.00	0.08
February 16, 2021	0.00	0.00	0.10
February 17, 2021	0.00	0.00	0.03
February 18, 2021	0.00	0.00	0.00
February 19, 2021	0.00	0.00	0.05
February 20, 2021	0.00	0.00	0.00
February 21, 2021	0.00	0.00	0.03
February 22, 2021	0.00	0.00	0.00
February 23, 2021	0.00	0.00	0.00
February 24, 2021	0.00	0.00	0.08
February 25, 2021	0.00	0.00	0.13
February 26, 2021	0.00	0.00	0.10
February 27, 2021	0.00	0.00	0.08
February 28, 2021	0.00	0.00	0.08
March 1, 2021	0.00	0.00	0.05
March 2, 2021	0.00	0.00	19.13
March 3, 2021	0.00	0.00	3.83
March 4, 2021	0.00	0.00	0.30
March 5, 2021	0.00	0.00	0.17
March 6, 2021	0.00	0.00	0.18
March 7, 2021	0.00	0.00	0.13
March 8, 2021	0.00	0.00	0.12
March 9, 2021	0.00	0.00	0.10
March 10, 2021	0.00	0.00	0.03
March 11, 2021	0.00	0.00	0.05
March 12, 2021	0.00	0.00	0.00
March 13, 2021	0.00	0.00	0.75
March 14, 2021	0.00	0.00	0.35
March 15, 2021	0.00	0.00	0.22
March 16, 2021	0.00	0.00	0.18
March 17, 2021	0.00	0.00	0.13
March 18, 2021	0.00	0.00	0.17
March 19, 2021	0.00	0.00	0.13
March 20, 2021	0.00	0.00	0.17
March 21, 2021	0.00	0.00	0.13

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
March 22, 2021	0.00	0.00	0.13
March 23, 2021	0.00	0.00	0.13
March 24, 2021	0.00	0.00	0.08
March 25, 2021	0.00	0.00	0.08
March 26, 2021	0.00	0.00	0.05
March 27, 2021	0.00	0.00	0.12
March 28, 2021	0.00	0.00	0.13
March 29, 2021	0.00	0.00	0.13
March 30, 2021	0.00	0.00	0.05
March 31, 2021	0.00	0.00	0.03
April 1, 2021	0.00	0.00	0.05
April 2, 2021	0.00	0.00	0.22
April 3, 2021	0.00	0.00	0.17
April 4, 2021	0.00	0.00	0.10
April 5, 2021	0.00	0.00	0.08
April 6, 2021	0.00	0.00	0.08
April 7, 2021	0.00	0.00	0.05
April 8, 2021	0.00	0.00	0.12
April 9, 2021	0.00	0.00	0.05
April 10, 2021	0.00	0.00	0.00
April 11, 2021	0.00	0.00	0.05
April 12, 2021	0.00	0.00	0.13
April 13, 2021	0.00	0.00	0.08
April 14, 2021	0.00	0.00	0.08
April 15, 2021	0.00	0.00	0.08
April 16, 2021	0.00	0.00	0.10
April 17, 2021	0.00	0.00	0.03
April 18, 2021	0.00	0.00	0.05
April 19, 2021	0.00	0.00	0.03
April 20, 2021	0.00	0.00	0.05
April 21, 2021	0.00	0.00	0.00
April 22, 2021	0.00	0.00	0.03
April 23, 2021	0.00	0.00	0.05
April 24, 2021	0.00	0.00	0.00
April 25, 2021	0.00	0.00	0.05
April 26, 2021	0.00	0.00	0.00
April 27, 2021	0.00	0.00	0.03
April 28, 2021	0.00	0.00	0.05
April 29, 2021	0.00	0.00	0.00
April 30, 2021	0.00	0.00	1.52

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
May 1, 2021	0.00	0.00	0.33
May 2, 2021	0.00	0.00	0.27
May 3, 2021	0.00	0.00	0.22
May 4, 2021	0.00	0.00	0.17
May 5, 2021	0.00	0.00	0.22
May 6, 2021	0.00	0.00	0.18
May 7, 2021	0.00	0.00	0.35
May 8, 2021	0.00	0.00	0.25
May 9, 2021	0.00	0.00	0.18
May 10, 2021	0.00	0.00	0.17
May 11, 2021	0.00	0.00	0.18
May 12, 2021	0.00	0.00	0.13
May 13, 2021	0.00	0.00	0.12
May 14, 2021	0.00	0.00	0.10
May 15, 2021	0.00	0.00	0.08
May 16, 2021	0.00	0.00	0.08
May 17, 2021	0.00	0.00	0.08
May 18, 2021	0.00	0.00	0.05
May 19, 2021	0.00	0.00	0.03
May 20, 2021	0.00	0.00	0.05
May 21, 2021	0.00	0.00	0.00
May 22, 2021	0.00	0.00	0.05
May 23, 2021	0.00	0.00	0.00
May 24, 2021	0.00	0.00	0.03
May 25, 2021	0.00	0.00	0.00
May 26, 2021	0.00	0.10	0.00
May 27, 2021	0.00	0.00	0.00
May 28, 2021	0.00	0.00	0.08
May 29, 2021	0.00	0.00	0.05
May 30, 2021	0.00	0.00	0.00
May 31, 2021	0.00	0.00	0.03
June 1, 2021	0.00	0.00	0.00
June 2, 2021	0.00	0.00	0.00
June 3, 2021	0.00	0.00	0.05
June 4, 2021	0.00	0.00	0.08
June 5, 2021	0.00	0.25	0.90
June 6, 2021	0.00	0.00	0.18
June 7, 2021	0.00	0.00	0.03
June 8, 2021	0.00	0.00	0.08
June 9, 2021	0.00	0.00	0.10

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
June 10, 2021	0.00	0.00	0.12
June 11, 2021	0.00	0.00	0.10
June 12, 2021	0.00	0.00	0.20
June 13, 2021	0.00	0.00	0.00
June 14, 2021	0.00	0.00	0.00
June 15, 2021	0.00	0.00	0.03
June 16, 2021	0.00	0.00	0.00
June 17, 2021	0.00	0.00	0.05
June 18, 2021	0.00	0.00	0.00
June 19, 2021	0.00	0.00	0.03
June 20, 2021	0.00	0.00	0.00
June 21, 2021	0.00	0.00	0.00
June 22, 2021	0.00	0.00	0.05
June 23, 2021	0.00	0.00	0.15
June 24, 2021	0.00	0.00	0.00
June 25, 2021	0.00	0.00	0.00
June 26, 2021	0.00	0.00	0.00
June 27, 2021	0.00	0.00	0.00
June 28, 2021	0.00	0.00	0.00
June 29, 2021	0.00	0.00	0.00
June 30, 2021	0.00	0.00	0.05

APPENDIX C

CSO108 UNDERFLOW PUMP FLOW METER DATA

DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
January 1, 2021	0.07	8,725.46	65,271.00
January 2, 2021	0.10	13,207.32	98,797.60
January 3, 2021	0.06	8,084.45	60,475.86
January 4, 2021	0.05	6,870.59	51,395.56
January 5, 2021	0.05	6,874.80	51,427.08
January 6, 2021	0.05	6,019.00	45,025.25
January 7, 2021	0.04	5,964.60	44,618.28
January 8, 2021	0.04	5,392.43	40,338.19
January 9, 2021	0.04	5,301.58	39,658.60
January 10, 2021	0.04	4,955.51	37,069.78
January 11, 2021	0.04	5,513.18	41,241.42
January 12, 2021	0.04	4,952.52	37,047.39
January 13, 2021	0.04	5,533.24	41,391.51
January 14, 2021	0.04	4,907.32	36,709.28
January 15, 2021	0.04	4,864.40	36,388.23
January 16, 2021	0.04	5,440.48	40,697.64
January 17, 2021	0.04	4,895.35	36,619.77
January 18, 2021	0.04	4,895.40	36,620.16
January 19, 2021	0.04	5,442.90	40,715.70
January 20, 2021	0.04	4,845.90	36,249.84
January 21, 2021	0.04	4,877.10	36,483.27
January 22, 2021	0.04	4,827.85	36,114.85
January 23, 2021	0.04	5,486.62	41,042.75
January 24, 2021	0.04	4,947.80	37,012.10
January 25, 2021	0.04	4,893.19	36,603.59
January 26, 2021	0.08	11,329.04	84,747.09
January 27, 2021	0.06	7,908.29	59,158.09
January 28, 2021	0.06	7,783.11	58,221.73
January 29, 2021	0.05	6,107.63	45,688.26
January 30, 2021	0.05	6,098.54	45,620.26
January 31, 2021	0.05	6,120.46	45,784.21
February 1, 2021	0.05	6,567.35	49,127.22
February 2, 2021	0.05	7,193.41	53,810.48
February 3, 2021	0.05	6,513.43	48,723.87
February 4, 2021	0.05	6,045.20	45,221.22
February 5, 2021	0.04	6,005.91	44,927.35
February 6, 2021	0.04	5,948.97	44,501.36
February 7, 2021	0.05	6,554.43	49,030.58
February 8, 2021	0.04	5,578.34	41,728.91
February 9, 2021	0.04	5,552.53	41,535.84

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
February 10, 2021	0.04	5,475.04	40,956.18
February 11, 2021	0.04	5,512.29	41,234.83
February 12, 2021	0.05	6,712.81	50,215.33
February 13, 2021	0.05	6,164.95	46,117.01
February 14, 2021	0.04	5,903.11	44,158.30
February 15, 2021	0.04	5,965.60	44,625.78
February 16, 2021	0.04	5,451.66	40,781.27
February 17, 2021	0.04	5,081.96	38,015.69
February 18, 2021	0.04	5,594.59	41,850.45
February 19, 2021	0.04	4,984.52	37,286.81
February 20, 2021	0.04	5,440.99	40,701.45
February 21, 2021	0.04	4,991.54	37,339.33
February 22, 2021	0.04	4,924.26	36,836.00
February 23, 2021	0.04	5,876.06	43,955.99
February 24, 2021	0.05	6,366.88	47,627.57
February 25, 2021	0.04	5,890.10	44,060.99
February 26, 2021	0.04	5,841.72	43,699.09
February 27, 2021	0.04	5,957.04	44,561.76
February 28, 2021	0.04	5,342.24	39,962.71
March 1, 2021	0.34	44,786.67	335,027.61
March 2, 2021	0.21	27,949.89	209,079.70
March 3, 2021	0.06	8,222.39	61,507.77
March 4, 2021	0.05	6,728.56	50,333.11
March 5, 2021	0.05	7,051.24	52,746.98
March 6, 2021	0.05	6,544.02	48,952.71
March 7, 2021	0.05	6,427.65	48,082.17
March 8, 2021	0.04	5,902.32	44,152.39
March 9, 2021	0.04	5,344.03	39,976.15
March 10, 2021	0.04	5,148.23	38,511.46
March 11, 2021	0.04	4,799.50	35,902.77
March 12, 2021	0.04	5,875.68	43,953.11
March 13, 2021	0.06	8,456.64	63,260.04
March 14, 2021	0.05	7,345.79	54,950.36
March 15, 2021	0.05	6,789.33	50,787.75
March 16, 2021	0.05	6,204.03	46,409.36
March 17, 2021	0.05	6,347.88	47,485.47
March 18, 2021	0.04	5,687.27	42,543.71
March 19, 2021	0.05	6,184.67	46,264.58
March 20, 2021	0.05	6,322.40	47,294.86
March 21, 2021	0.05	6,212.79	46,474.93

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
March 22, 2021	0.05	6,299.50	47,123.57
March 23, 2021	0.04	5,773.63	43,189.72
March 24, 2021	0.04	5,551.06	41,524.79
March 25, 2021	0.04	5,140.00	38,449.90
March 26, 2021	0.05	6,214.79	46,489.89
March 27, 2021	0.05	6,272.46	46,921.26
March 28, 2021	0.05	6,269.07	46,895.90
March 29, 2021	0.04	5,155.99	38,569.49
March 30, 2021	0.04	5,221.85	39,062.15
March 31, 2021	0.04	5,172.85	38,695.64
April 1, 2021	0.06	7,520.40	56,256.51
April 2, 2021	0.05	6,339.35	47,421.66
April 3, 2021	0.04	5,689.89	42,563.32
April 4, 2021	0.04	5,695.68	42,606.63
April 5, 2021	0.04	5,771.63	43,174.79
April 6, 2021	0.04	5,176.94	38,726.22
April 7, 2021	0.05	6,180.12	46,230.54
April 8, 2021	0.04	5,239.98	39,197.81
April 9, 2021	0.03	4,572.35	34,203.56
April 10, 2021	0.04	5,077.54	37,982.67
April 11, 2021	0.04	5,704.44	42,672.16
April 12, 2021	0.04	5,469.87	40,917.44
April 13, 2021	0.04	5,690.65	42,569.02
April 14, 2021	0.04	5,753.23	43,037.17
April 15, 2021	0.04	5,680.62	42,493.97
April 16, 2021	0.04	4,890.19	36,581.15
April 17, 2021	0.04	5,144.80	38,485.77
April 18, 2021	0.04	5,140.31	38,452.16
April 19, 2021	0.04	5,212.29	38,990.66
April 20, 2021	0.03	4,583.16	34,284.38
April 21, 2021	0.04	5,194.62	38,858.46
April 22, 2021	0.04	5,237.76	39,181.14
April 23, 2021	0.03	4,621.53	34,571.46
April 24, 2021	0.04	5,193.16	38,847.52
April 25, 2021	0.03	4,597.59	34,392.37
April 26, 2021	0.04	5,147.23	38,503.99
April 27, 2021	0.04	5,210.33	38,976.01
April 28, 2021	0.03	4,568.91	34,177.86
April 29, 2021	0.10	13,189.46	98,664.02
April 30, 2021	0.07	8,734.86	65,341.33

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
May 1, 2021	0.06	7,902.30	59,113.28
May 2, 2021	0.06	7,431.70	55,592.96
May 3, 2021	0.05	6,275.56	46,944.48
May 4, 2021	0.05	6,826.71	51,067.33
May 5, 2021	0.05	6,909.52	51,686.83
May 6, 2021	0.07	9,291.81	69,507.55
May 7, 2021	0.06	7,617.33	56,981.62
May 8, 2021	0.05	7,130.51	53,339.94
May 9, 2021	0.05	7,002.45	52,382.00
May 10, 2021	0.05	6,962.23	52,081.10
May 11, 2021	0.05	6,136.60	45,904.96
May 12, 2021	0.05	6,415.89	47,994.22
May 13, 2021	0.04	5,734.05	42,893.69
May 14, 2021	0.04	5,766.10	43,133.46
May 15, 2021	0.04	5,805.23	43,426.14
May 16, 2021	0.04	5,822.10	43,552.31
May 17, 2021	0.04	5,142.47	38,468.34
May 18, 2021	0.04	5,174.40	38,707.18
May 19, 2021	0.04	5,083.65	38,028.31
May 20, 2021	0.03	4,563.19	34,135.04
May 21, 2021	0.04	5,177.48	38,730.23
May 22, 2021	0.03	4,567.57	34,167.78
May 23, 2021	0.04	5,105.05	38,188.45
May 24, 2021	0.03	4,567.27	34,165.58
May 25, 2021	0.04	5,144.30	38,482.06
May 26, 2021	0.00	0.00	0.00
May 27, 2021	0.01	1,155.96	8,647.21
May 28, 2021	0.01	1,920.23	14,364.32
May 29, 2021	0.01	1,920.23	14,364.32
May 30, 2021	0.02	2,521.99	18,865.79
May 31, 2021	0.02	2,523.10	18,874.11
June 1, 2021	0.02	2,523.10	18,874.11
June 2, 2021	0.02	3,187.44	23,843.69
June 3, 2021	0.03	4,408.33	32,976.63
June 4, 2021	0.13	17,753.77	132,807.40
June 5, 2021	0.15	20,313.15	151,952.94
June 6, 2021	0.16	20,943.68	156,669.63
June 7, 2021	0.17	22,270.52	166,595.04
June 8, 2021	0.18	23,557.99	176,226.03
June 9, 2021	0.19	25,493.02	190,701.02

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
June 10, 2021	0.20	26,803.05	200,500.77
June 11, 2021	0.22	29,292.35	219,122.04
June 12, 2021	0.22	29,292.35	219,122.04
June 13, 2021	0.22	29,292.35	219,122.04
June 14, 2021	0.22	29,963.70	224,144.04
June 15, 2021	0.22	29,963.70	224,144.04
June 16, 2021	0.23	30,621.48	229,064.60
June 17, 2021	0.23	30,621.48	229,064.60
June 18, 2021	0.23	31,287.09	234,043.70
June 19, 2021	0.23	31,287.09	234,043.70
June 20, 2021	0.23	31,287.09	234,043.70
June 21, 2021	0.24	31,918.10	238,763.97
June 22, 2021	0.25	33,851.65	253,227.92
June 23, 2021	0.25	33,851.65	253,227.92
June 24, 2021	0.25	33,851.65	253,227.92
June 25, 2021	0.25	33,851.65	253,227.92
June 26, 2021	0.25	33,851.65	253,227.92
June 27, 2021	0.25	33,851.65	253,227.92
June 28, 2021	0.25	33,851.65	253,227.92
June 29, 2021	0.26	34,516.80	258,203.63
June 30, 2021	0.26	34,516.80	258,203.63

