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April 30, 2021

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Subject: Quarterly Report 62
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 January 1, 2021 – March 31, 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 #62



Reporting Period:

January 1, 2021 through March 31, 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-Second Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from January 1, 2021, through March 31, 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

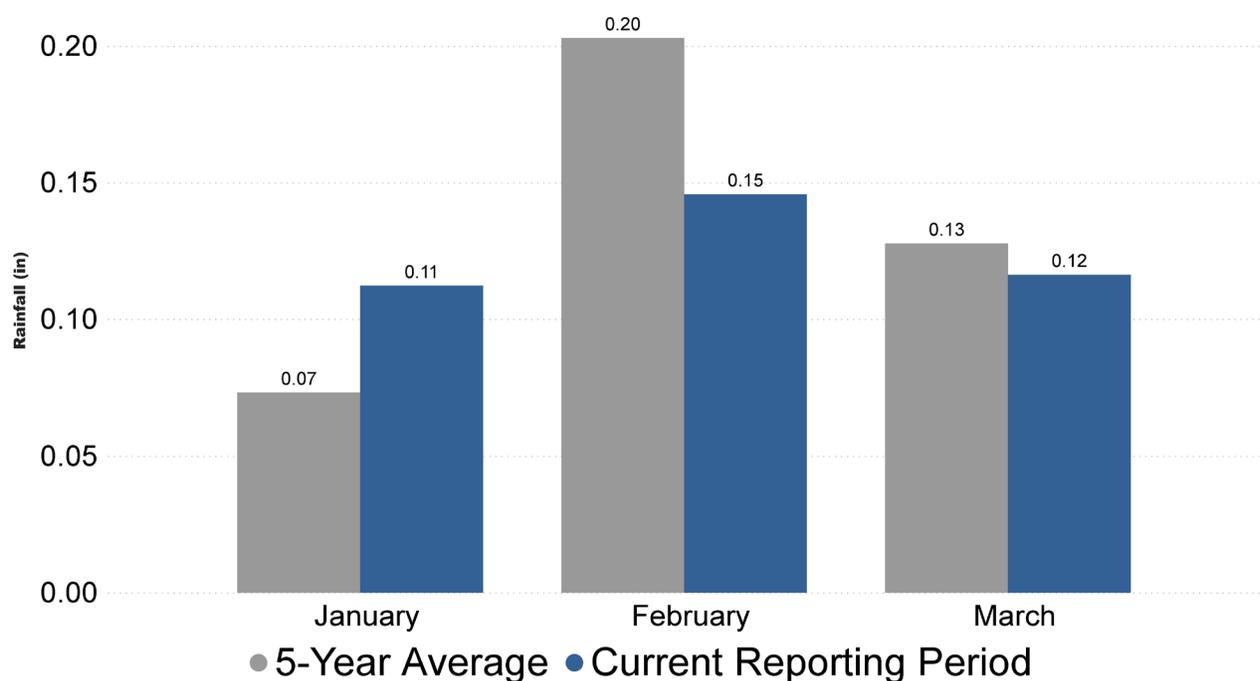
Refer to Section 4.4.2 for CSO LTCP project updates.

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 above average for January and below average for February and March 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 was one 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, 109 unauthorized discharges to WUS were reported, as summarized in Table 1.1.

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.

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	103
OBSTRUCTION-NOT GREASE / ROOTS	2	1
UTILITY DAMAGED MSD ASSET	1	0
MECHANICAL FAILURE	1	0
PUMPED DUE TO COE MANUAL	0	1

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 1.4 through Figure 1.4.

Targets, indicated by a blue line on the gauges in Figure 1.4 and Figure 1.2 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. CSO Inspections and Cleaning



Figure 1.3. Gravity Main Cleaning

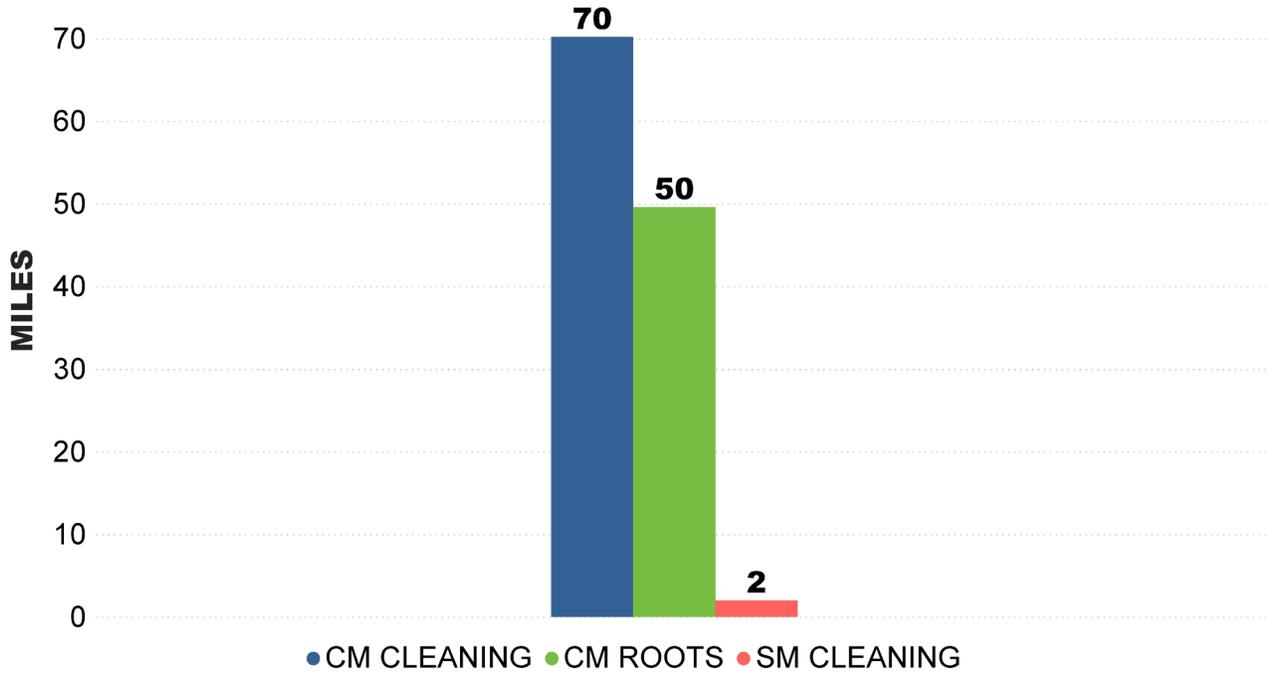
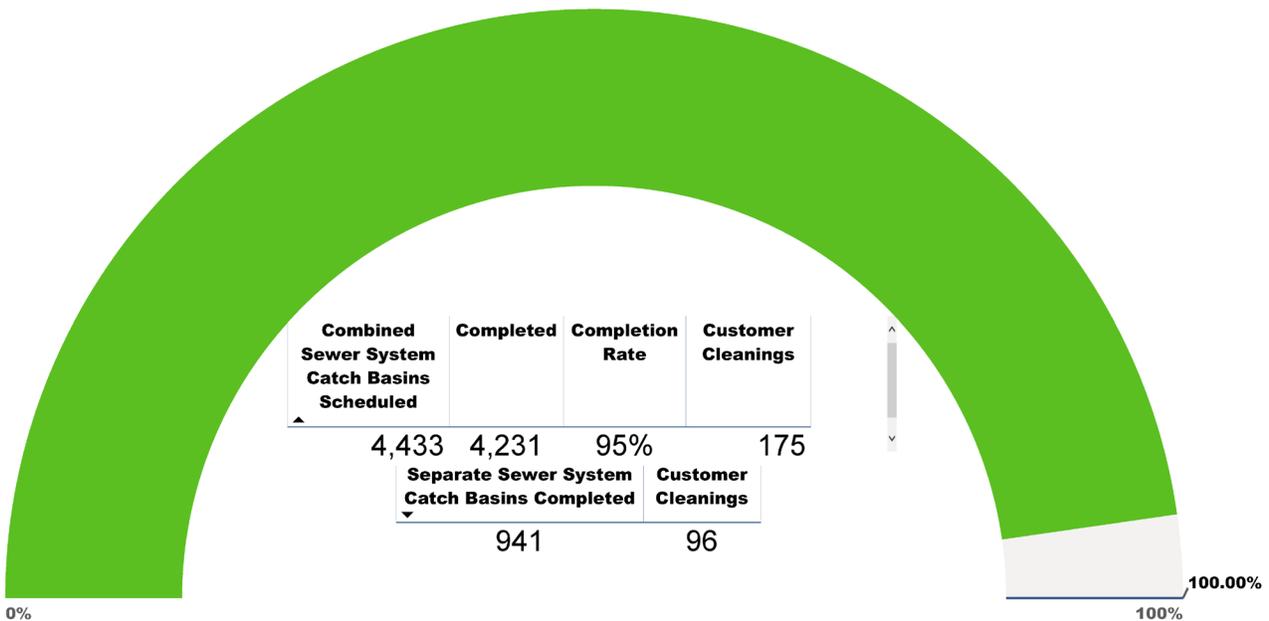


Figure 1.4. Catch Basin Cleaning



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.msprojectwin.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 2,167 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 Csoft 4.
- Continued preparing a master programming guide for RTC facilities to document 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.
- Completed integration of the Portland CSO Basin into the RTC system.
- Reviewed tags for the Logan CSO Interceptor and began updating Csoft configurations to integrate the instruments into RTC.
- Continued developing the master programming guide for RTC facilities to document existing programming and parameters at each facility as a reference to ensure long term continuity of the RTC system.

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 developing the master programming guide.
- Begin development of 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.

- Identified instances when the Southwestern Parkway CSO Basin failed to switch from dewatering mode to fill mode. MSD investigated and adjusted a timer in the PLC programming to address the issue.
- Adjusted the time delay between dewatering and flush modes at the Southwestern Parkway CSO Basin to prevent the basin becoming stuck in the flush mode.
- Began 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
- Began 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 evaluating means to provide redundant flow rate data for Gate 3 and 7 at the Southwestern Parkway CSO Basin to allow dewatering to occur when flow meters are out of service or invalid.
- Began 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.
- Identified programming inconsistencies that cause a critical alarm associated with a regulator disfunction at Logan CSO basin and the Southwestern Parkway CSO Basin due to interceptor surcharging and identified adjustments to eliminate the false alarms.
- Identified undesirable oscillation of Gate 4 and Gate 87 at the Southwestern Parkway CSO Basin and began the process of tuning the control loops to improve gate response.

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 means to provide redundant flow rate data for Gate 3 and 7 at the Southwestern Parkway CSO Basin to allow dewatering 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.
- Program revised control loop parameters to improve Southwestern Parkway CSO Basin Gate 4 and Gate 87 operations.

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

- MFWQTC Biosolids Management Solutions – Closed on WIFIA loan. The request for proposals is expected to be released during the next reporting period.
- MFWQTC Cake Pump, Phase II – Demonstration testing and training was completed during the reporting period with only punch list items remaining. Substantial completion was granted on March 3, 2021.
- MFWQTC Sedimentation Basin Rehabilitation – Design on the project is underway. Design is expected to be complete during the next reporting period.
- MFWQTC Groundwater Study – The study was completed during this reporting period.
- MFWQTC Hypochlorite Building Relocation – The project was in design during the reporting period.
- MFWQTC Dryer Demolition - Installation of new equipment will be ongoing during the next reporting period.
- MFWQTC Chiller Replacement – Construction is underway.
- MFWQTC Headworks and Dumpster Building Structural and Blower Building Stairs – Construction is underway.
- MFWQTC Sewer and Manhole Condition Assessment – The project was bid and awarded during the reporting period. Construction is anticipated to start in during the next reporting period.
- MFWQTC Radio Repeater – The project is currently in the design phase. Design is anticipated to be completed next reporting period.
- SWPS Gas Monitoring and Odor Control - The project is currently in the design phase.
- SWPS Influent Gate Seal Replacement - The project was bid and will start construction during the next reporting period.
- SWPS Site Security - The project is in design.
- Bells Lane Disinfection System - The project to feed Peracetic Acid (PAA) is in design.

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. On January 8, a planned outage occurred to activate switchgear S3, causing a temporary failure of the monitoring equipment.

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.

2.3. 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. Morris Forman WQTC Permit Compliance

PARAMETER	JANUARY	FEBRUARY	MARCH
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
Chlorine, Residual	©	©	©
Dissolved Oxygen	©	©	©
Fecal Coliform, 30 Day Geomean	©	©	©
Fecal Coliform, 7 Day Geomean	©	©	©
pH	©	©	©
TSS, 30 Day Secondary Effluent	X	X	X
TSS, 7 Day Effluent	X	X	X
TSS, Percent Removal	X	X	X

Table 2.2. 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	CLIFTON (6.9 MG)	LOGAN (17.0 MG)	SNEADS BRANCH (2.5 MG)	NGPS (8.0 MG)	NDV (MG)	HIGH RIVER LEVELS	DESCRIPTION
2020-092	2020-12-30 11:40 AM	2021-01-01 03:05 AM	39:25	1	1	TR11	222	94	12	2		1	1	6	1	1	0	0	0	0	0	88	No	Large wet weather event homogeneously distributed across the collection system. Clifton, Logan and Sneads Branch dewatered after this event ending.
2021-001	2021-01-01 03:05 AM	2021-01-08 02:30 PM	179:25	1	1	TR15	369	60	13	1		1	1	14	13	0	2	9	16	1	2	221	Yes	Large wet weather event heterogeneously distributed across the collection system.
2021-002	2021-01-08 02:30 PM	2021-01-12 03:50 PM	97:20	0	0	TR04	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	No	DELETE from interface and no need to consider through the Quarterly report. Saved event due to MDS-ORI wrong calculation (MDS-L7-LVL)
2021-008	2021-01-25 06:35 AM	2021-01-28 09:15 PM	86:40	2	2	TR11	322	88	18	3	19	1	2	10	20	0	2	7	15	2	1	134	No	Large wet weather event homogeneously distributed across the collection system.
2021-011	2021-01-30 12:35 PM	2021-02-01 04:50 AM	40:15	1	1	TR13	64	22	3	1	3	0	0	3	0	0	0	0	0	0	0	33	No	Moderate wet weather event homogeneously distributed across the collection system. MDS-ORI saved volume wrong calculation, due to MDS-L7-LVL that should have been invalid.
2021-013	2021-02-04 02:15 PM	2021-02-05 09:30 AM	19:15	0	0	TR04	30	5	0	1	2	0	1	0	0	0	0	0	0	0	0	21	No	Small wet weather event homogeneously distributed across the collection system.
2021-019	2021-02-27 10:05 PM	2021-03-10 05:40 AM	247:35	3	3	TR15	555	199	15	3	22	0	3	5	18	0	1	7	14	0	8	260	Yes	Very large wet weather event homogeneously distributed across the collection system.

Table 2.2. 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	CLIFTON (6.9 MG)	LOGAN (17.0 MG)	SNEADS BRANCH (2.5 MG)	NGPS (8.0 MG)	NDDV (MG)	HIGH RIVER LEVELS	DESCRIPTION
2021-020	2021-03-11 06:30 PM	2021-03-15 12:40 PM	89:10	1	2	TR11	348	118	14	2	16	1	2	10	0	0	0	6	16	2	3	159	No	Large wet weather event homogeneously distributed across the collection system. SOBA : SOBA_NWI_FIT830_SUR sensor malfunction made the site to switch to degraded operating mode which prevented the basin from normal dewatering.
2021-021	2021-03-15 12:40 PM	2021-03-16 10:50 PM	34:10	0	0	TR04	60	6	1	1	2	0	2	1	8	0	0	0	1	0	0	39	No	Small wet weather event homogeneously distributed across the collection system. SOBA : SOBA_NWI_FIT830_SUR sensor malfunction made the site to switch to degraded operating mode which prevented the basin from filling normally.
2021-022	2021-03-16 10:50 PM	2021-03-20 01:35 AM	74:45	1	1	TR04	60	19	6	2	5	0	3	4	0	0	0	1	4	1	0	15	No	Moderate wet weather event heterogeneously distributed across the collection system. SOBA : SOBA_NWI_FIT830_SUR sensor malfunction made the site to switch to degraded operating mode which prevented the basin from filling normally.
2021-023	2021-03-25 10:05 AM	2021-03-26 07:10 AM	21:05	1	1	TR11	69	23	9	1	8	1	2	8	2	0	0	1	6	1	0	6	No	Small wet weather event homogeneously distributed across the collection system.
Total							2167	634	91	17	108	5	17	62	62	1	5	31	72	6	15	1043		11

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 2.1. Morris Forman WQTC - Plant Flows and Associated CSO Activations - January

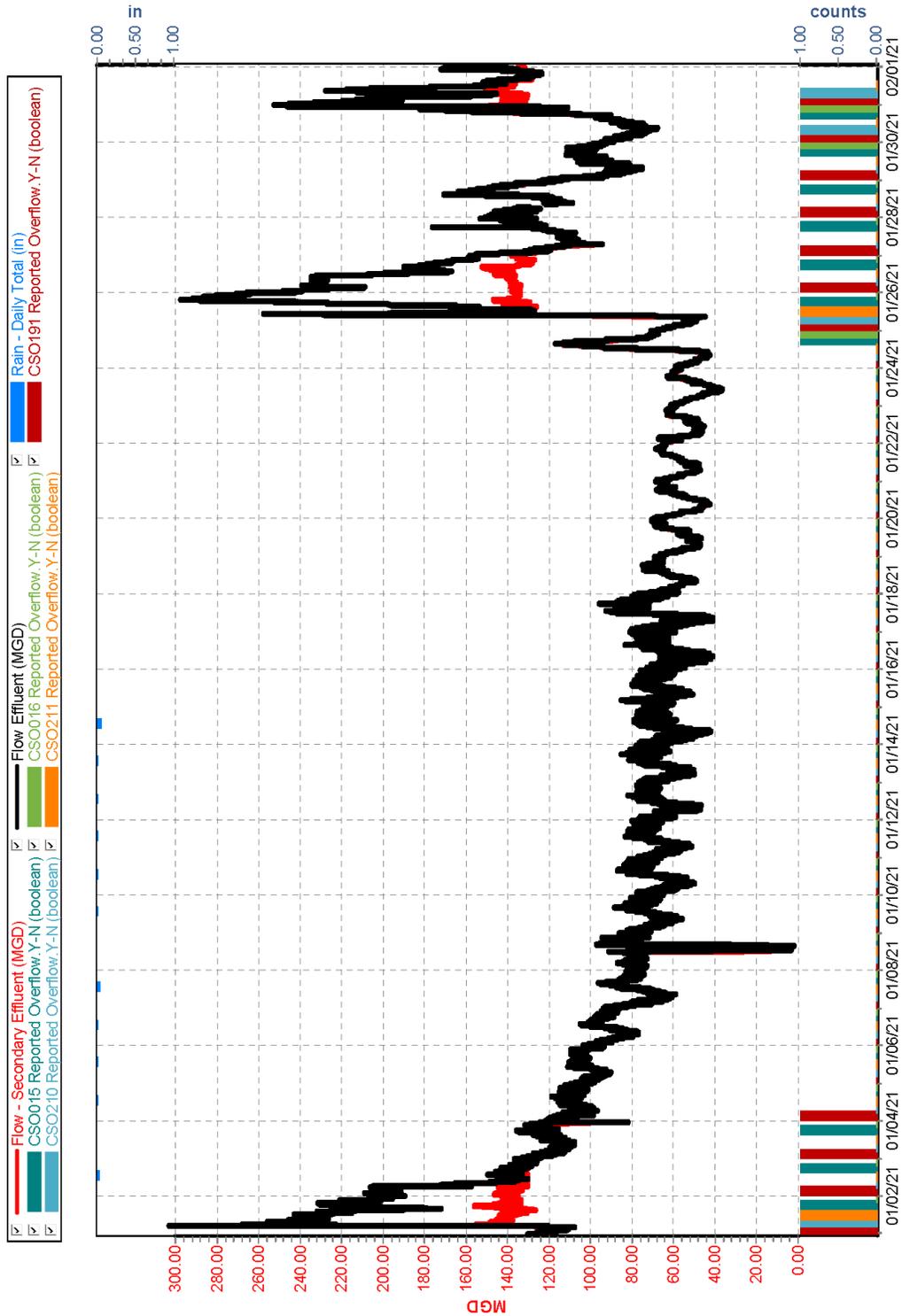


Figure 2.2. Morris Forman WQTC - Plant Flows and Associated CSO Activations - February

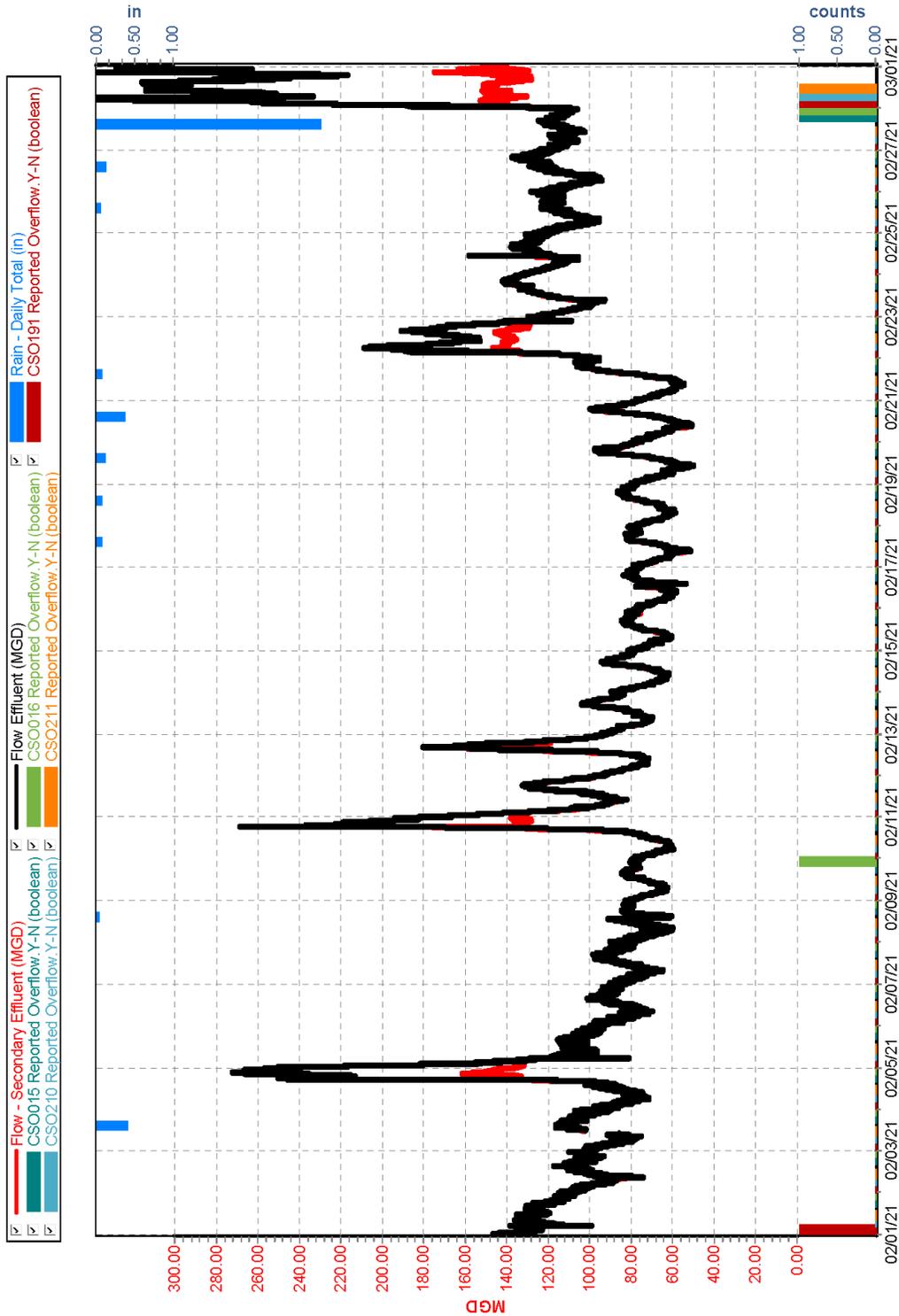


Figure 2.3. Morris Forman WQTC - Plant Flows and Associated CSO Activations - March

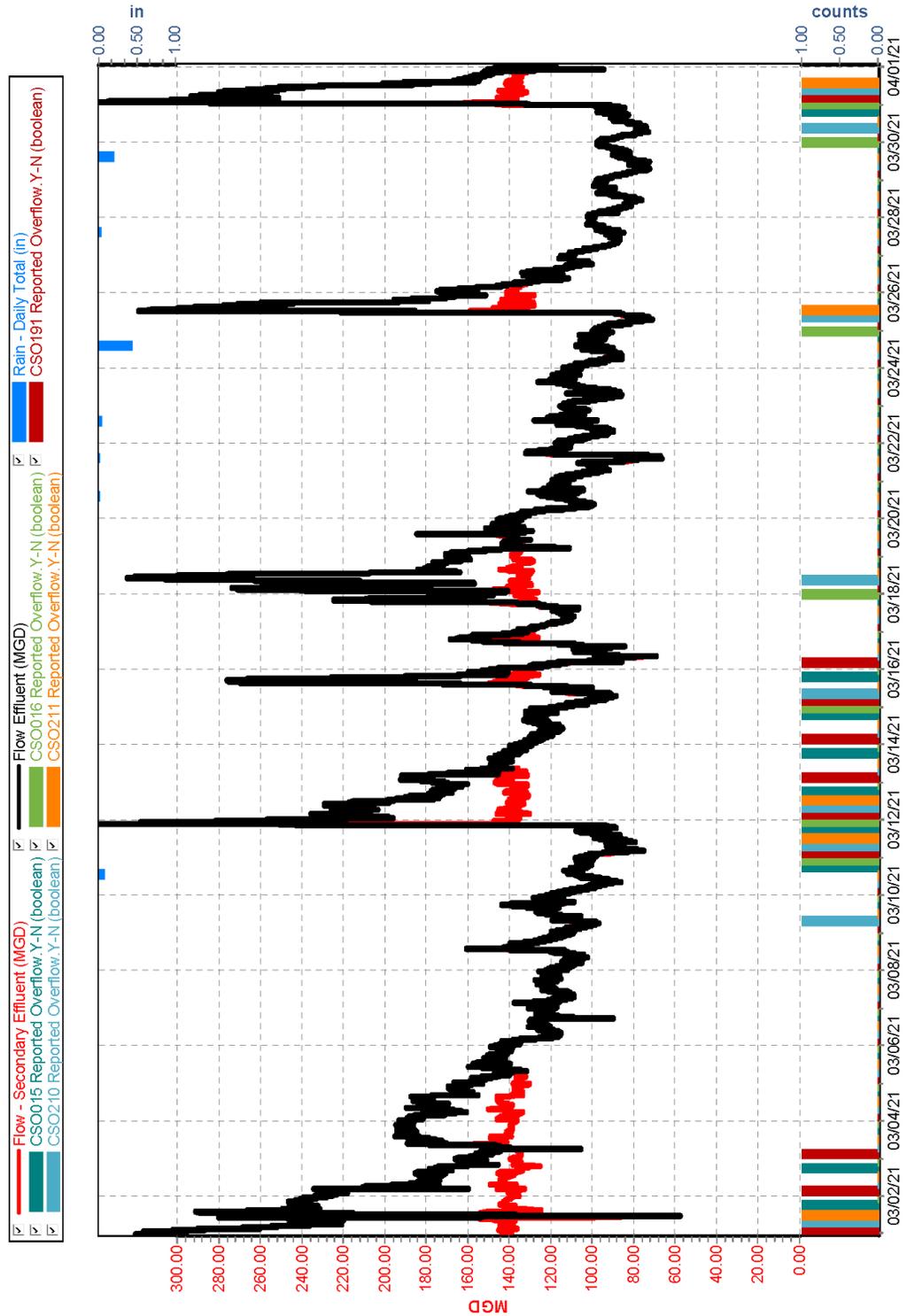


Figure 2.4. NMC Quarterly Commitments Schedule

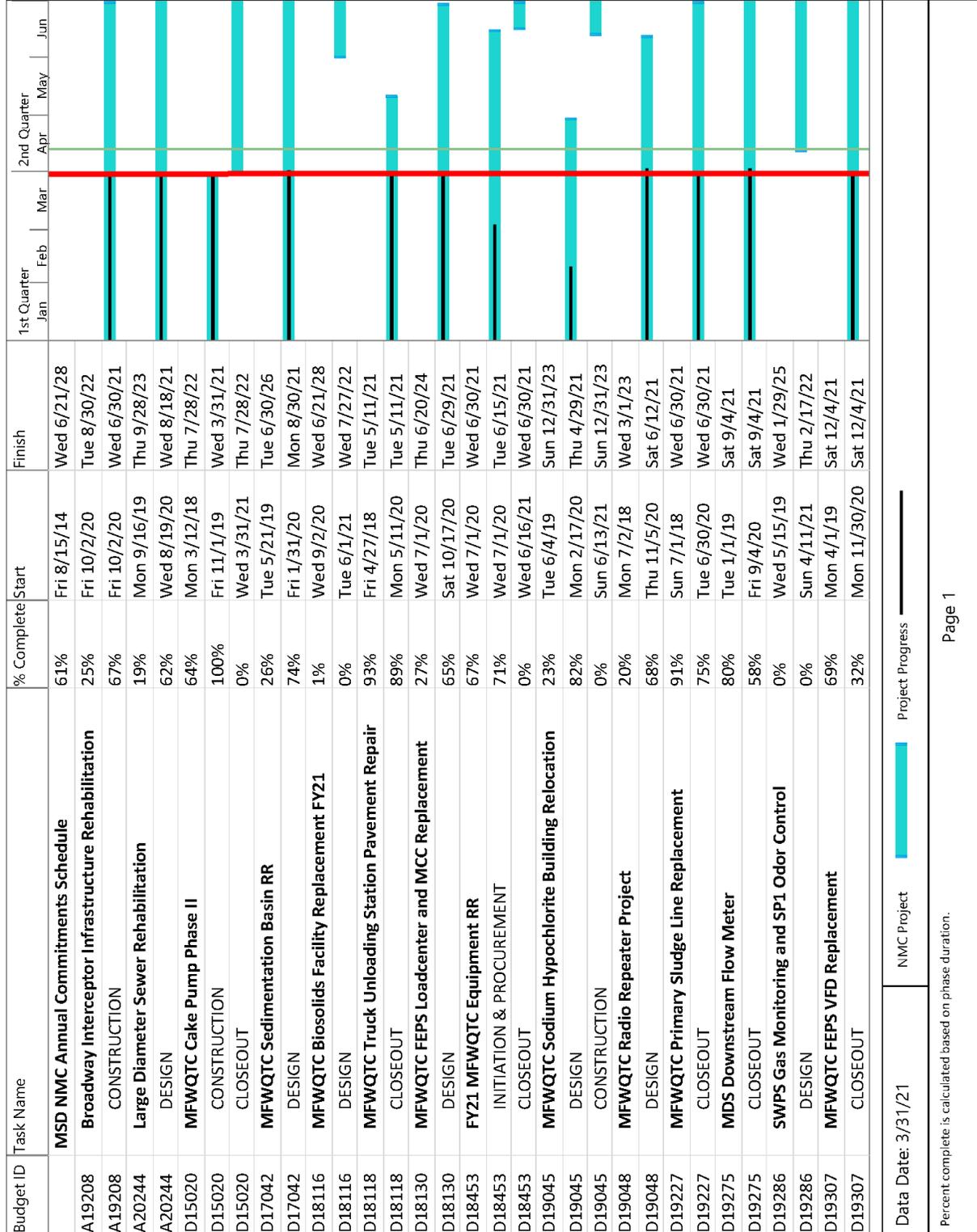


Figure 2.4. NMC Quarterly Commitments Schedule

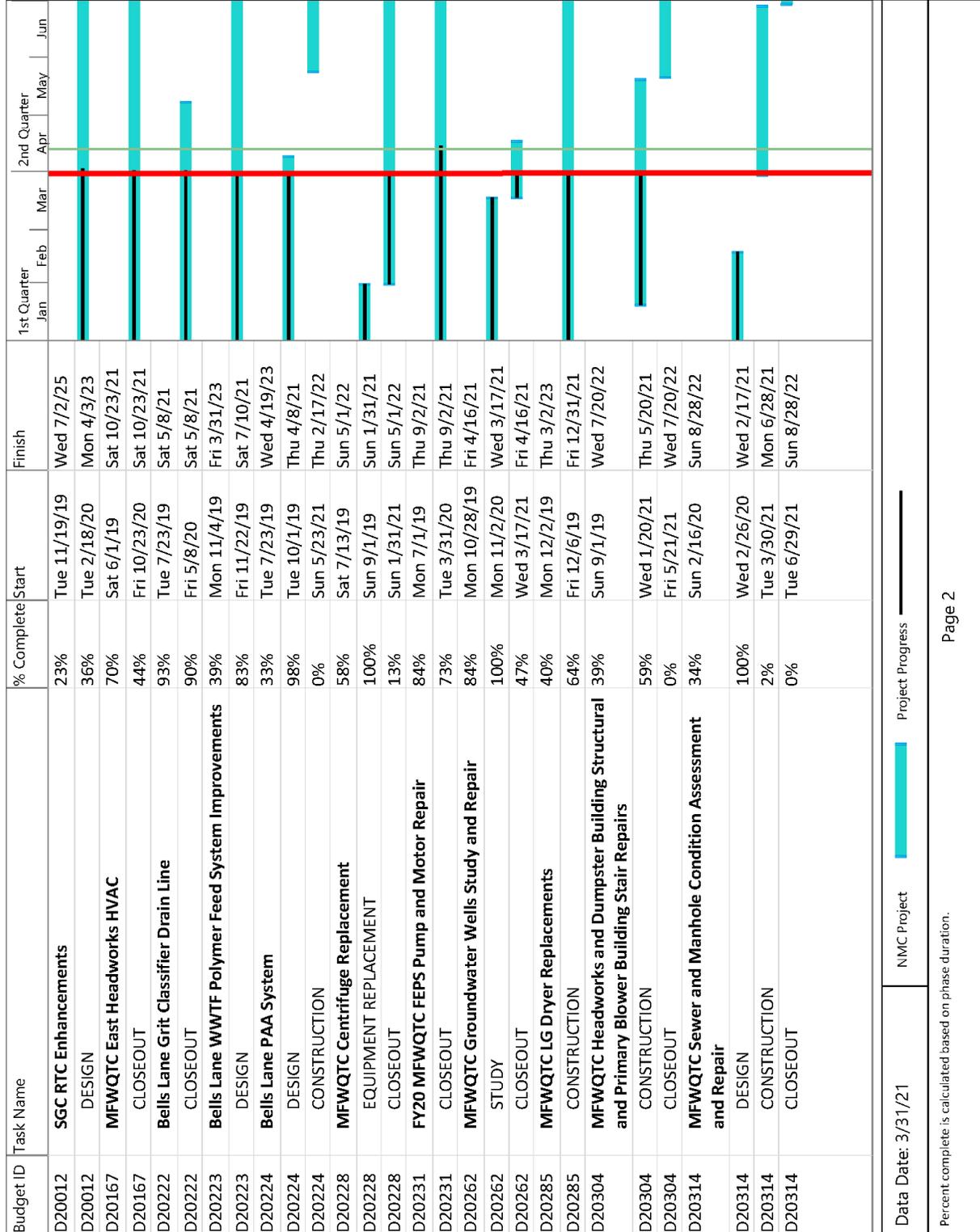
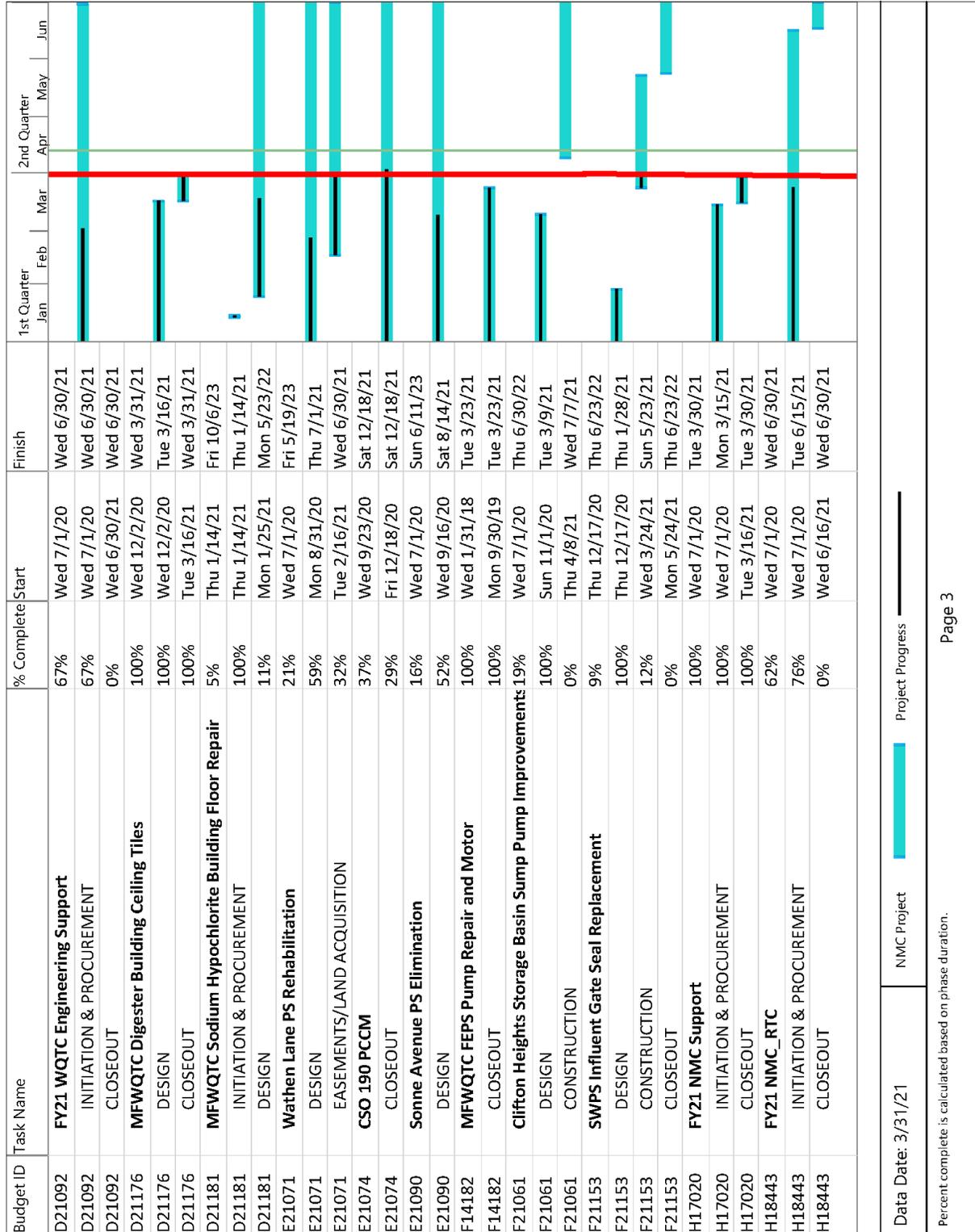


Figure 2.4. NMC Quarterly Commitments Schedule



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.msprojectwin.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, 107 unauthorized discharges were identified through route reconnaissance. During this period, 13 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 131,100 gallons due to capacity-related issues during this reporting period. Hauling was also initiated due to other issues as indicated in Table 3.1.

Table 3.1. Hauled Volumes in Gallons

PROBLEM	JAN	FEB	MAR
LACK OF SYSTEM CAPACITY	48,500	82,600	0
STRUCTURAL 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.

First quarter training utilizes the online format, and included modules under Preparing for Overflows, Monitoring & Mobilization:

- SORP Overview
- SORP Process
- Monitoring and Mobilization
- Updates

The quarterly training was delivered to 270 staff in Operations and Engineering plus annual training of an additional 381 employees.

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

- Assessment & Minimum Documentation
- Mitigation
- 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.msdpjwin.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.msdpjwin.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.msdpjwin.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, three 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.

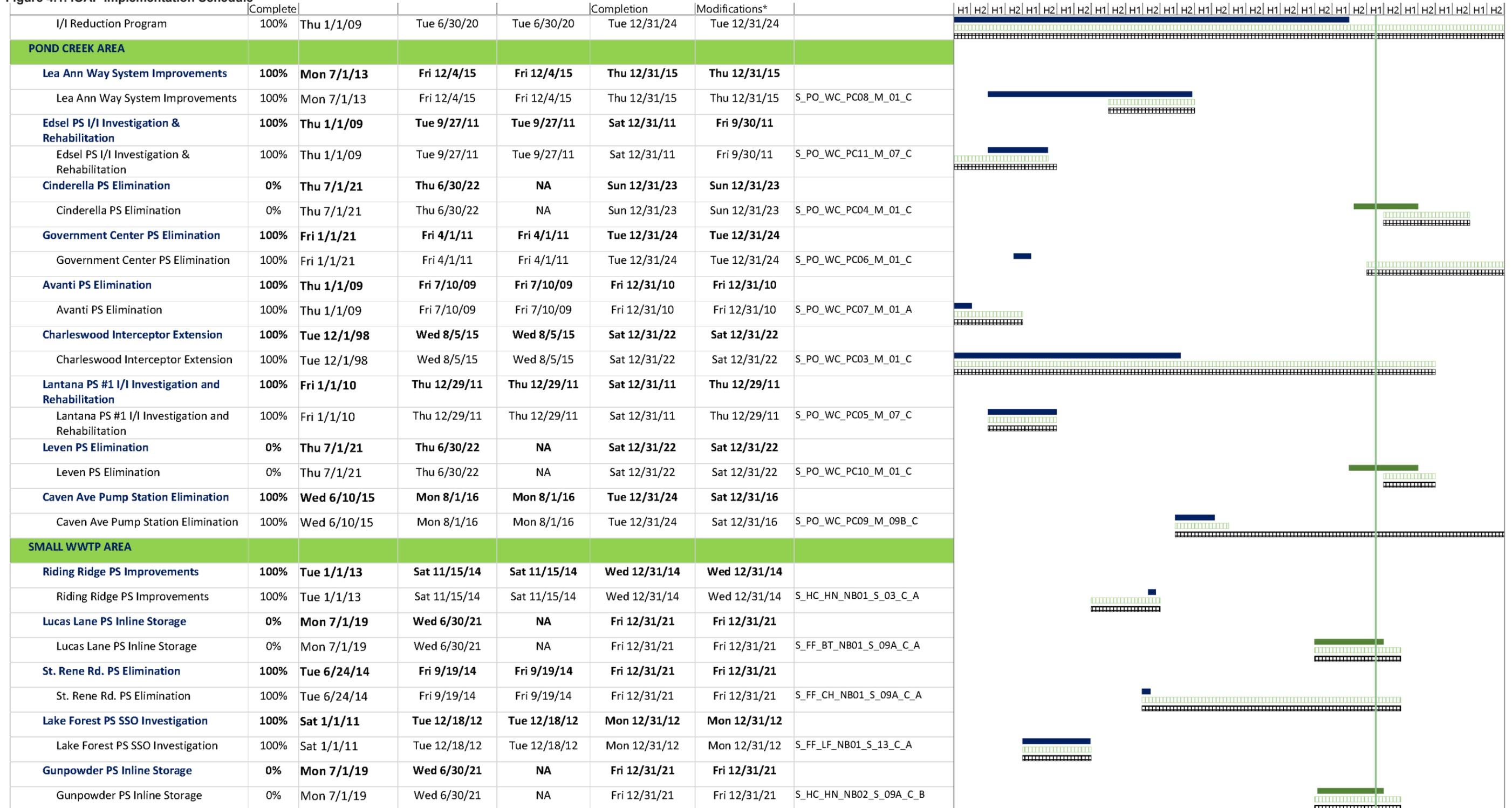
Table 4.1. IOAP Project Required Completion Dates - CSO LTCP

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



Approved 2009 IOAP [hatched] IOAP Modifications [green] Remaining Work [dark blue] Completed Work [light blue]

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

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, stormwater 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.msprojectwin.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
1/2/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
1/4/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
1/6/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
1/9/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
1/10/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
1/11/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
1/12/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
1/18/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
1/19/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
1/25/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
1/28/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
1/30/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/1/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
2/3/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/7/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/8/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/9/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/10/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
2/14/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
2/15/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
2/16/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
2/17/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/19/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/20/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
2/22/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/23/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
2/25/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
2/26/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
3/1/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
3/2/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
3/6/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
3/8/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
3/9/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
3/10/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
3/13/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
3/15/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
3/16/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
3/20/2021	Ohio River Tunnel: Construction Meeting	1/10/2018

DATE	PROGRAM TITLE	ORIGINAL MEETING DATE
3/23/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
3/24/2021	Ohio River Tunnel: Construction Meeting	1/10/2018
3/25/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
3/28/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
3/29/2021	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
3/31/2021	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017



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.msprojectwin.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.msprojectwin.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. Startup of the dewatering system completed this reporting period. Biological nutrient removal and aeration tanks are expected to be completed next reporting period.

6.3.2. FLOYDS FORK WATER QUALITY TREATMENT CENTER

No major project occurred during the reporting period.

6.3.3. DEREK R. GUTHRIE WATER QUALITY TREATMENT CENTER

The Dewatering Project is underway. Construction of the Phase 2 system is used for dewatering. The Phase 3 system will come online during the next reporting period.

The Clarifier Grout Repair and Gate Replacement project continued in construction during this reporting period. The project will continue into FY22.

The Admin Building and RAS Building HVAC project was in construction during the reporting period.

The RAS Electrical Modifications project is currently under warranty.

A Paving project was in construction during the reporting period.

A flow meter and isolation valve was added to the pipe header under the Return Activated Sludge Pump Station project.

6.3.4. CEDAR CREEK WATER QUALITY TREATMENT CENTER

The Sodium Aluminate Building project is under construction.

The Effluent Parshall Flume Upgrades project started construction in this reporting period and will continue into FY22.

The Influent PS MCC Upgrades project was completed in this quarter.

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

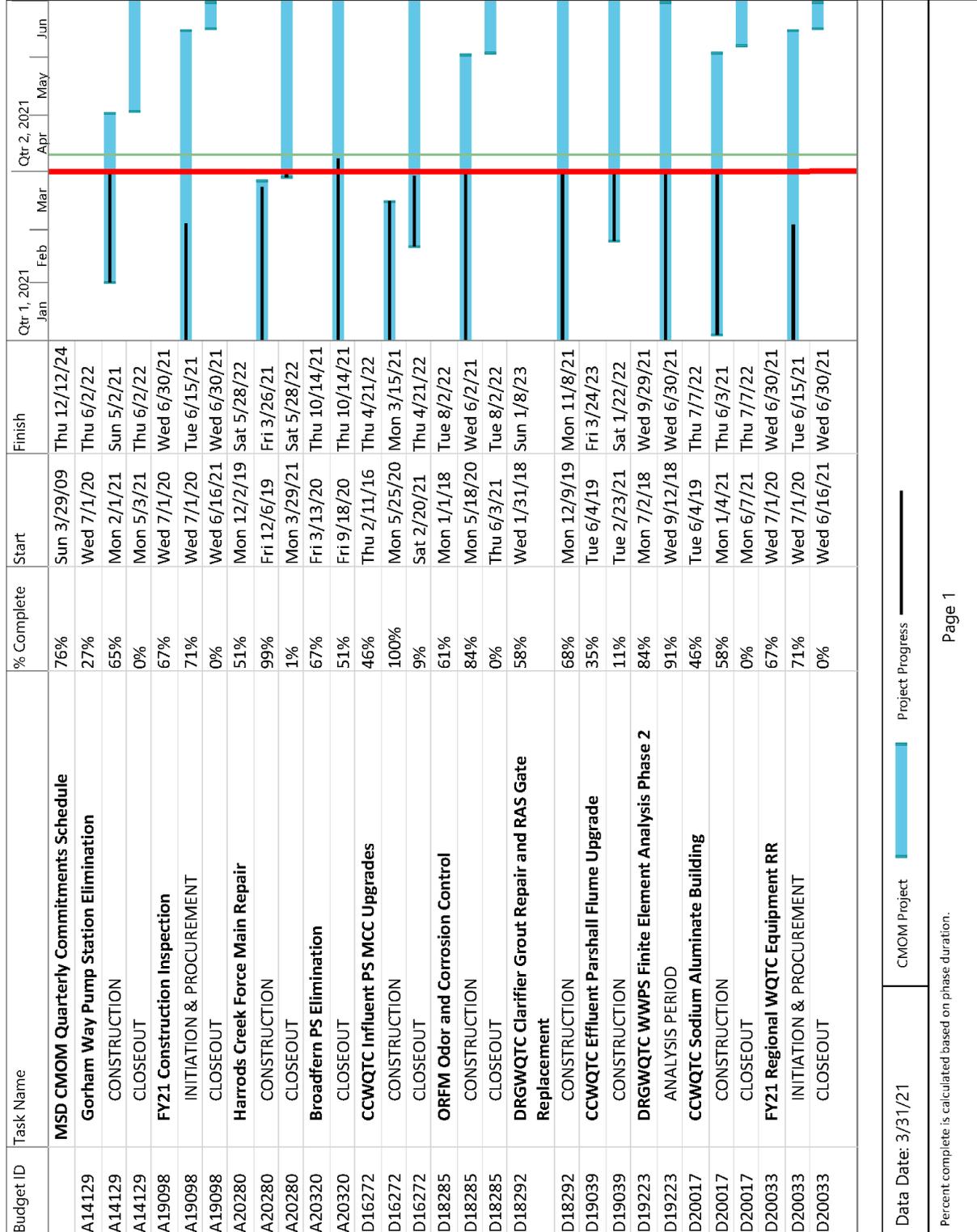
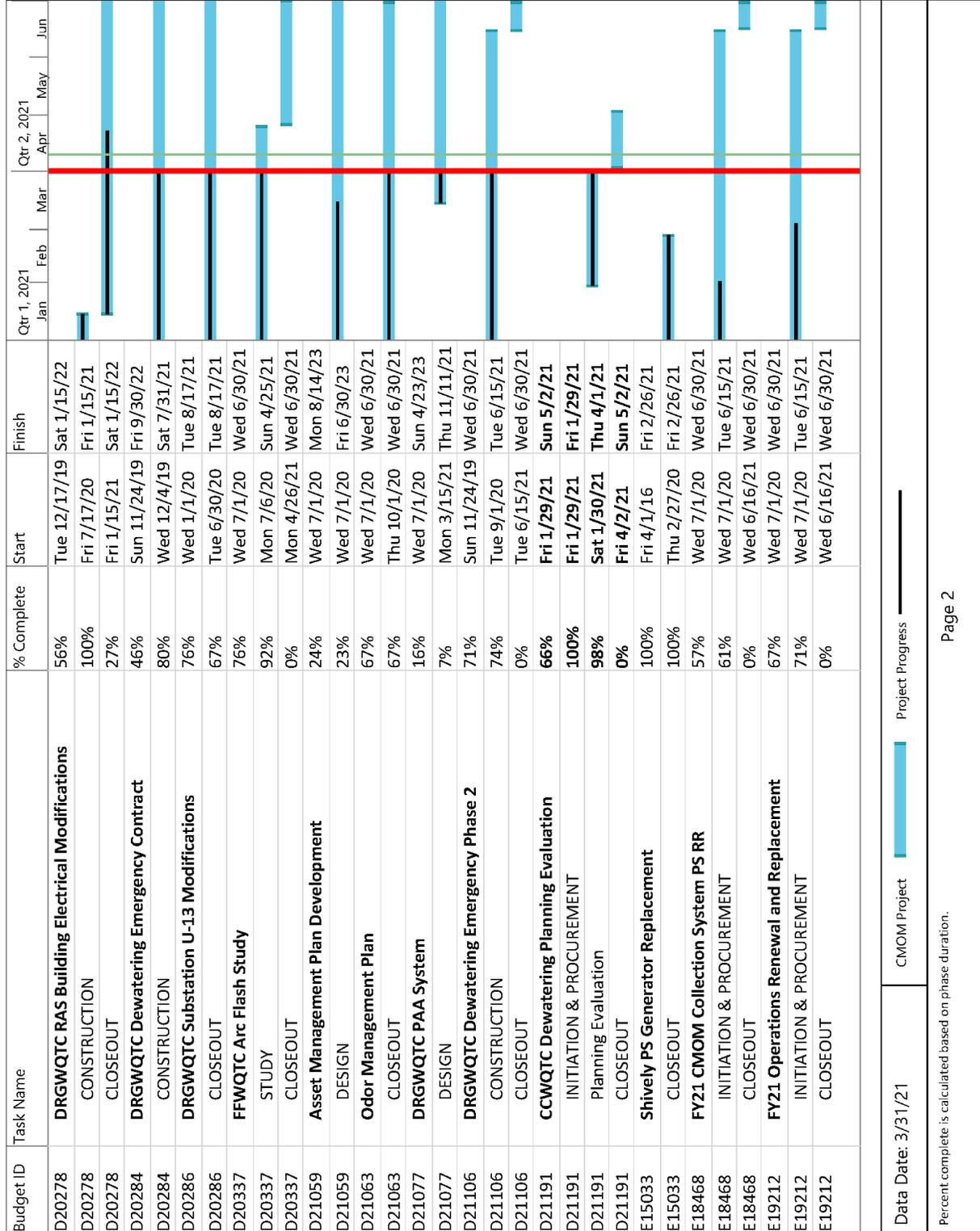




Figure 6.1. CMOM Quarterly Commitments Schedule



Data Date: 3/31/21

CMOM Project Project Progress

Percent complete is calculated based on phase duration.

Figure 6.1. CMOM Quarterly Commitments Schedule

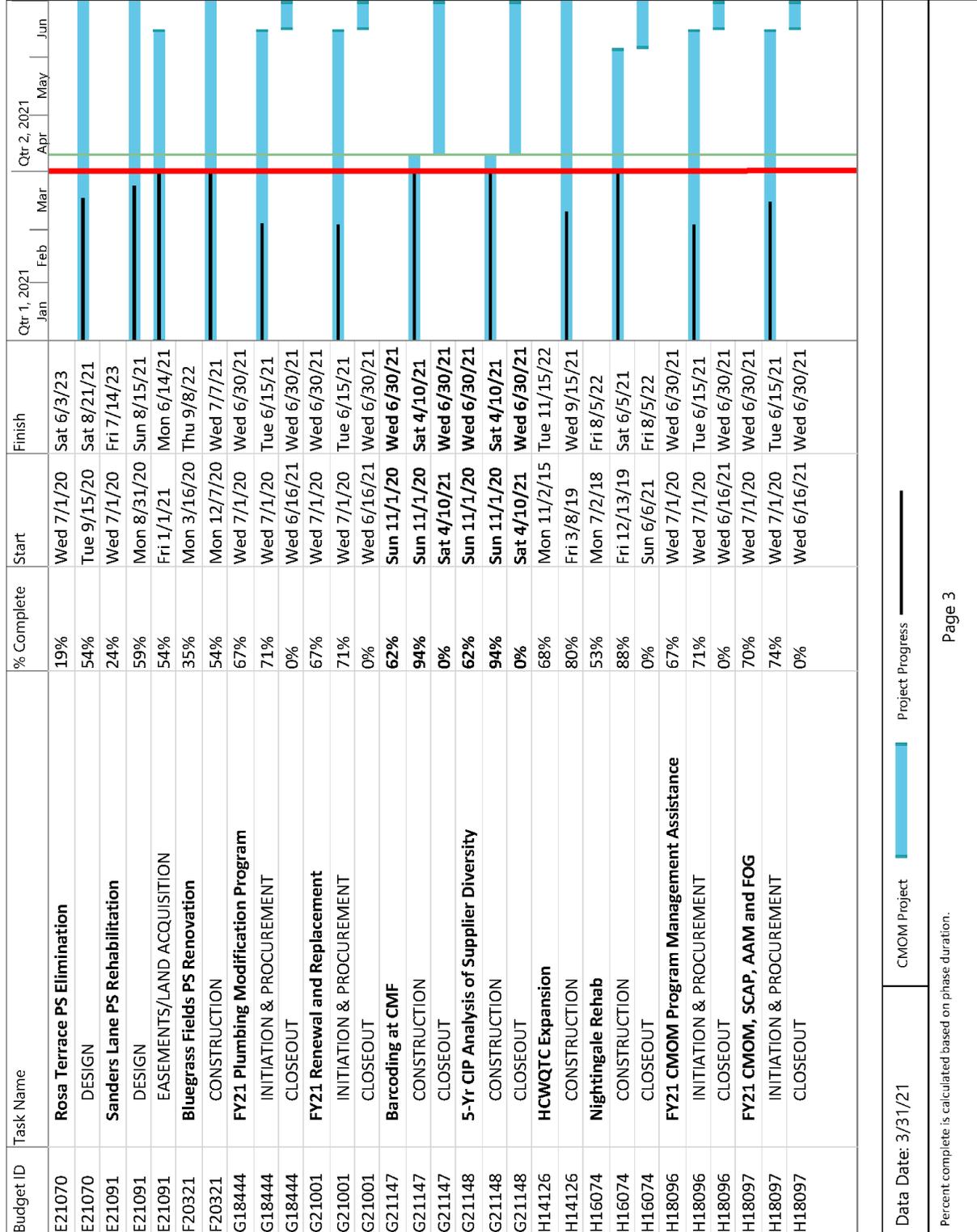
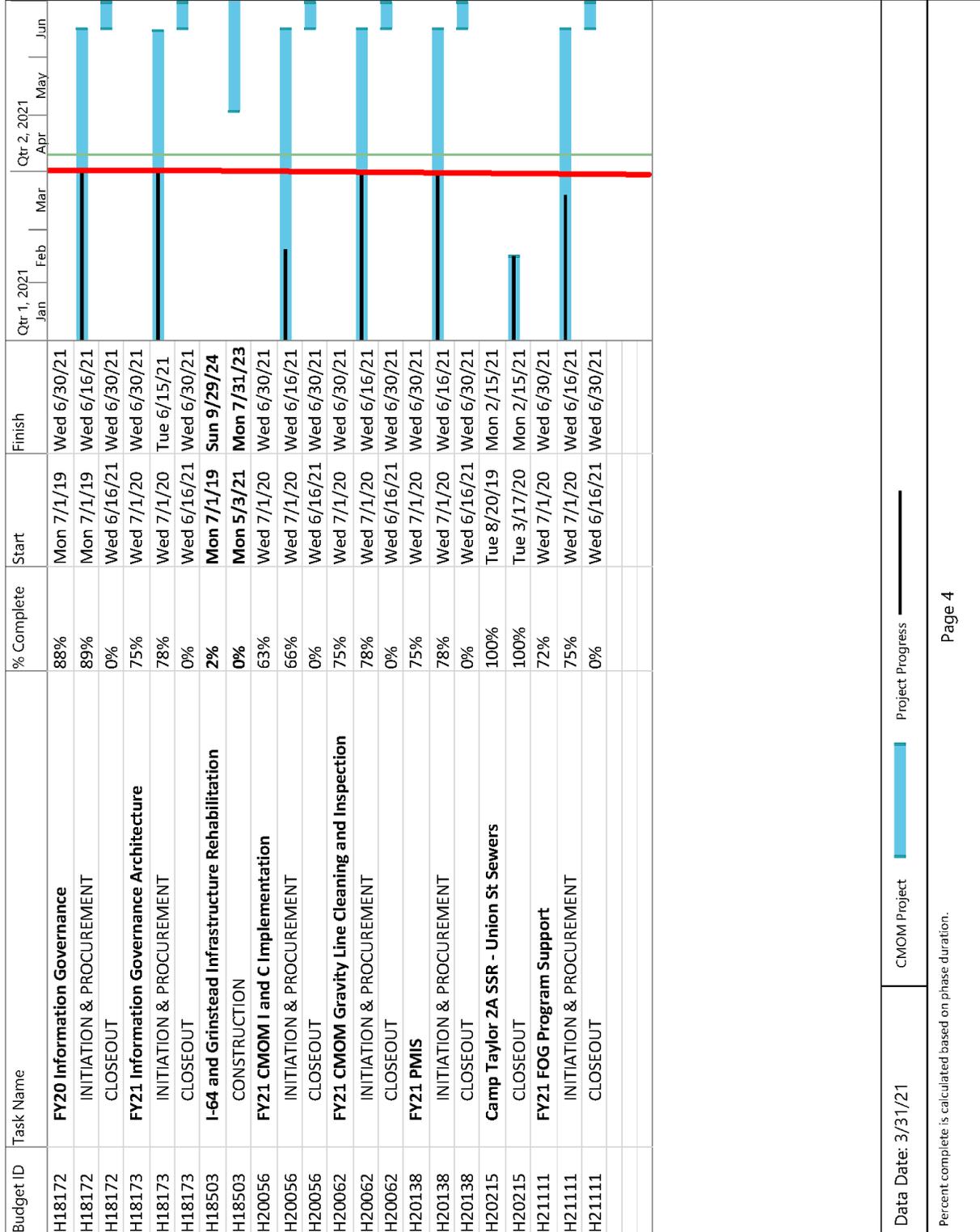


Figure 6.1. CMOM Quarterly Commitments Schedule





APPENDIX A

DISCHARGE WORK ORDERS



APPENDIX A-1

BYPASSES



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
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**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	147 BUCHANAN ST	3/21/2021 13:45	3/21/2021 15:21	1200000	Sewer Manhole	CSO020	STREAM	OHIO RIVER	FIRE AND POWER FAILURE AT TRANSFORMER.	POWER OUTAGE (LG&E)	DRY WEATHER DISCHARGE	3359754	MSD PERSONNEL WILL CLEAN AND SANITIZE IMPACTED AREAS IDENTIFIED.	POWER TRANSFERRED TO GENERATOR WHILE REPAIRS ARE MADE.

APPENDIX A-3

UNAUTHORIZED DISCHARGES



PROJECT WIN QUARTERLY REPORT #62
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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
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	1/1/2021 11:00	1/1/2021 12:57	2925	Sewer Manhole	60679	DITCH	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333756	AREA DISINFECTED WITH LIME.	SITE FOUND DURING RAIN EVENT RECON. MSD HAULED SEWAGE.
MORRIS FORMAN	KY0022411	4315 PRUITT CT	1/1/2021 13:30	1/2/2021 9:04	3522	Sewer Manhole	08426	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333834	WO#3333929	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4313 PRUITT CT	1/1/2021 13:32	1/2/2021 9:02	175500	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333835	WO#3333930	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4315 PRUITT CT	1/1/2021 13:35	1/2/2021 9:00	2330	Sewer Manhole	49647	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333836	WO#3333934	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4341 PRUITT CT	1/1/2021 13:40	1/2/2021 9:15	1175	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333837	WO#3333931	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4341 PRUITT CT	1/1/2021 13:42	1/2/2021 9:13	2342	Sewer Service Line	85097	GROUND	PADDY RUN	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333838	WO#3333932	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4332 PRUITT CT	1/1/2021 13:45	1/2/2021 9:08	29075	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333839	WO#3333933	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	1/1/2021 15:57	1/2/2021 9:12	306000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333841	WO#3333943	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	1/1/2021 16:30	1/2/2021 9:00	80000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333840	WO#3333941	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	1/1/2021 16:55	1/2/2021 9:45	306000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333842	WO#3333944	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	201 BULLITT LN	1/1/2021 16:55	1/2/2021 9:35	119000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333843	WO#3333945	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3400 DELL RD	1/1/2021 17:00	1/2/2021 7:45	22125	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333852	WO#3333937	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2409 PLANTSIDE DR	1/6/2021 12:57	1/6/2021 13:33	250	Sewer Manhole	29341	STREAM	CHENOWETH RUN	OBSTRUCTION.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3334378	MSD CLEANED AREA.	MANHOLE REPAIR AND CLEANED.
CEDAR CREEK	KY0098540	3100 TUCKER STATION RD	1/11/2021 11:55	1/11/2021 19:55	24000	Sewer Main	103399-V	GROUND	CHENOWETH RUN	CONTRACTOR DAMAGED MSD ASSET/FORCEMAIN.	UTILITY DAMAGED MSD ASSET	DRY WEATHER DISCHARGE	3334945	MSD DISINFECTED AREA WITH LIME.	CALLED TRC TO REPAIR BREAK, HAULING DOMINION WAY AND TUCKERS LAKE PS.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/25/2021 13:15	1/26/2021 2:00	1100000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338435	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	1/25/2021 13:45	1/26/2021 6:36	25275	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338439	WO#3338636	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3400 DELL RD	1/25/2021 13:50	1/26/2021 6:45	25375	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338440	WO#3338637	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/25/2021 14:00	1/26/2021 6:22	49100	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338444	WO#3338639	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	1/25/2021 14:10	1/26/2021 6:28	24450	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338445	WO#3338445	LOCATION INCLUDED IN IOAP.

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	3620 CHARLANE PKY	1/25/2021 14:25	1/26/2021 6:30	24125	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338442	WO#3338638	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	9707 WILLOWWOOD WAY	1/25/2021 14:30	1/26/2021 6:18	23700	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338438	WO#3338634	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	1/25/2021 15:45	1/26/2021 6:10	84000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338449	WO#3338643	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	1/25/2021 15:57	1/26/2021 6:57	45000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338448	WO#3338641	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	1/25/2021 16:05	1/26/2021 6:30	210000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338452	WO#3338644	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	1/25/2021 16:15	1/26/2021 20:00	4500000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338437	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BULLITT LN	1/25/2021 17:10	1/26/2021 6:55	97500	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338454	WO#3338647	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	1/25/2021 17:15	1/26/2021 6:55	156000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338453	WO#3338646	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4315 PRUITT CT	1/25/2021 17:30	1/26/2021 7:15	20625	Sewer Manhole	49647	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338455	WO#3338648	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4315 PRUITT CT	1/25/2021 17:33	1/26/2021 7:18	20625	Sewer Manhole	08426	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338457	WO#3338649	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4337 PRUITT CT	1/25/2021 17:35	1/26/2021 7:18	20625	Sewer Manhole	08429	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338673	WO#3338650	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4332 PRUITT CT	1/25/2021 17:36	1/26/2021 7:20	20625	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338459	WO#3338653	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4912 DELAWARE DR	1/25/2021 17:40	1/26/2021 7:22	20625	Sewer Manhole	18654	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338460	WO#3338652	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	1/25/2021 18:35	1/25/2021 20:00	2125	Sewer Lift Station	MSD1013-PS	DITCH	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3338490	MAGNITUDE OF STORM RESULTED IN NO DEBRIS REMAINING.	HAULED STATION WO #3338468.
CEDAR CREEK	KY0098540	11301 ELECTRON DR	2/5/2021 13:09	2/5/2021 11:40	300	Sewer Manhole	28506	DITCH	CHENOWETH RUN	DAMAGE IN MAIN.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3342474	MSD WILL CLEAN AREA.	PLACED TVI INSPECTION ON THE MAIN POSSIBLE FIBER OPTIC DAMAGE BORED THROUGH MAIN, FLUSHED MAIN AND MANHOLE
MORRIS FORMAN	KY0022411	1726 FRASER DR	2/28/2021 6:48	3/1/2021 18:00	200000	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349842	CLEAN UP NOT REQUIRED, UNDER GROUND PIPE IS DISCHARGING TO CREEK.	LOCATION INCLUDED IN THE IOAP.
DEREK R. GUTHRIE	KY0078956	8800 ADMIRAL DR	2/28/2021 7:00	3/1/2021 3:55	13375	Sewer Manhole	93705	STREAM	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY DUE TO EXCESSIVE RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349796	AREA DISINFECTED WITH LIME.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	4313 PRUITT CT	2/28/2021 7:24	3/2/2021 10:24	459000	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349912	WO#3350515	LOCATION INCLUDED IN IOAP.

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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	4332 PRUITT CT	2/28/2021 7:26	3/1/2021 12:13	86350	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349908	WO#3350520	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4345 PRUITT CT	2/28/2021 7:28	3/1/2021 9:10	38550	Sewer Service Line	85055	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349909	WO#3350516	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	2/28/2021 7:31	3/2/2021 14:30	12800000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349846	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4315 PRUITT CT	2/28/2021 7:33	3/1/2021 9:12	1539	Sewer Manhole	49647	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349910	WO#3350515	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3302 TROUT CREEK DR	2/28/2021 7:42	3/2/2021 10:15	606600	Sewer Manhole	23211	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349906	WO#3350780	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3305 BENT CREEK CT	2/28/2021 7:45	3/1/2021 12:20	17150	Sewer Service Line	BU05074039	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349907	WO#3350517	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	2/28/2021 7:45	3/1/2021 3:40	239000	Sewer Manhole	102339	GROUND	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY DUE TO EXCESSIVE RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349798	AREA DISINFECTED WITH LIME.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	3305 INDIAN CREEK CT	2/28/2021 7:47	3/2/2021 10:09	906600	Sewer Manhole	51160	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349898	WO#3350779	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	2/28/2021 7:50	3/3/2021 16:00	1000000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349848	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN THE IOAP.
DEREK R. GUTHRIE	KY0078956	9715 EL PRADO ST	2/28/2021 8:40	2/28/2021 11:40	18000	Sewer Manhole	09730	GROUND	PONDER CREEK	LACK OF SYSTEM CAPACIT DUE TO EXCESSIVE RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349809	AREA DISINFECTED WITH LIME.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
HITE CREEK	KY0022420	7250 FLOYDSBURG RD	2/28/2021 8:50	3/1/2021 3:00	18500	Sewer Manhole	90776	DITCH	FLOYDS FORK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349812	AREA DISINFECTED WITH LIME.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	1552 CHEROKEE RD	2/28/2021 9:53	3/2/2021 8:38	414000	Sewer Manhole	40471	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349995	WO#3350749	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	2/28/2021 10:05	3/2/2021 8:25	920000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349997	WO#3350785	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1700 SULGRAVE RD	2/28/2021 10:10	3/2/2021 10:57	432000	Sewer Manhole	72289	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349996	WO#3350791	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4802 HAZELWOOD AVE	2/28/2021 10:10	2/28/2021 16:10	3600	Sewer Manhole	55665	DITCH	UPPER MILL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349823	AREA DISINFECTED WITH LIME.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	2/28/2021 10:35	3/2/2021 9:04	920000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349999	WO#3350786	LOCATION INCLUDED IN IOAP.

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	201 BULLITT LN	2/28/2021 10:35	3/2/2021 9:04	460000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350003	WO#3350787	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7900 SHELBYVILLE RD	2/28/2021 10:37	3/2/2021 9:15	55200	Sewer Manhole	02935	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350006	WO#3350788	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 BROWNSBORO RD	2/28/2021 10:37	3/1/2021 11:40	30060	Sewer Manhole	26752	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349893	NO CLEAN UP NOT PERFORMED NO PUBLIC ACCESS TO THE DISCHARGE SITE.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3400 DELL RD	2/28/2021 10:40	3/2/2021 9:58	70950	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350026	WO#3350758	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7900 SHELBYVILLE RD	2/28/2021 10:41	3/2/2021 9:15	414000	Sewer Manhole	02933	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350005	WO#3350789	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	2/28/2021 10:47	3/1/2021 10:30	36000	Sewer Manhole	90700	CATCH BASIN	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349914	WO#3349914	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2105 INDIAN HILLS TRL	2/28/2021 10:48	3/2/2021 9:23	28800	Sewer Manhole	40872	GROUND	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349991	CLEAN UP NOT NEEDED, NO SOLID OR DEBRIS OBSERVED.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2120 INDIAN HILLS TRL	2/28/2021 10:50	3/2/2021 9:24	57600	Sewer Manhole	40871	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349992	WO#3350771	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	2/28/2021 10:53	3/1/2021 10:35	70350	Sewer Manhole	47593	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350001	WO#3350565	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	2/28/2021 10:55	3/2/2021 9:55	98700	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350027	WO#3350759	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	4739 DIXIE HWY	2/28/2021 11:00	2/28/2021 16:19	63000	Sewer Manhole	90380	CATCH BASIN	MILL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349878	CLEANED AND SANITIZED THE IMPACTED AREA.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/28/2021 11:02	3/1/2021 17:35	46275	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350039	WO#3350567	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	2/28/2021 11:10	3/1/2021 9:47	46275	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350040	WO#3350568	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	8117 COPPERCREEK DR	2/28/2021 11:17	3/1/2021 10:38	34500	Sewer Manhole	65070	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350002	WO#3350566	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	9707 WILLOWWOOD WAY	2/28/2021 11:18	3/1/2021 6:30	28800	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350041	WO#3350569	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7713 WESTPORT RD	2/28/2021 11:19	3/1/2021 16:00	218625	Sewer Manhole	105936	GROUND	GOOSE CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349883	IMPACTED AREA DISINFECTED WITH LIME.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	2/28/2021 11:25	3/1/2021 6:33	28875	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350042	WO#335070	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7913 SHELBYVILLE RD	2/28/2021 11:35	3/2/2021 9:32	528000	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349918	WO#3350747	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	208 BRUNSWICK RD	2/28/2021 12:08	3/1/2021 12:10	28800	Sewer Manhole	115183	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350008	RESET MANHOLE. CLEAN UP NOT NEEDED, NO SOLID OR DEBRIS OBSERVED.	LOCATION INCLUDED IN IOAP.

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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	1804 ROUND RIDGE RD	2/28/2021 12:36	3/2/2021 10:05	54000	Sewer Manhole	65623	STREAM	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350000	NO CLEAN UP NOT PERFORMED NO PUBLIC ACCESS TO THE DISCHARGE SITE.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4801 CASSIA CT	2/28/2021 12:36	3/2/2021 10:05	315000	Sewer Manhole	46623	STREAM	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350007	WO#3350774	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4339 PRUITT CT	2/28/2021 12:45	3/1/2021 9:06	30525	Sewer Manhole	08431	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350009	WO#3350514	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4337 PRUITT CT	2/28/2021 12:45	3/1/2021 9:06	30525	Sewer Manhole	08429	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350010	WO#3350513	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2216 FAIRLAND AVE	2/28/2021 13:00	3/1/2021 9:24	15300	Sewer Manhole	49445	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350012	WO#3350510	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3501 MARLIN DR	2/28/2021 13:00	3/1/2021 6:39	26475	Sewer Manhole	28416	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350028	WO#3350572	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2219 RICHLAND AVE	2/28/2021 13:00	3/1/2021 9:24	244800	Sewer Manhole	49446	STREAM	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350015	WO#3350015	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 DELL RD	2/28/2021 13:15	3/1/2021 6:39	26100	Sewer Manhole	28417	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350030	WO#3350572	LOCATION INCLUDED IN IOAP.
CEDAR CREEK	KY0098540	9719 COLLIER LN	2/28/2021 13:24	3/1/2021 6:00	149400	Sewer Manhole	98022	STREAM	CEDAR CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350038	CLEAN UP ACTIVITY CONSISTED OF RAKING IMPACTED AREA AND THE SPREADING OF LIME.	SYSTEM CAPACITY CAUGHT UP WITH FLOW.
MORRIS FORMAN	KY0022411	24 SOUTHWIND RD	2/28/2021 13:30	3/1/2021 11:24	26400	Sewer Manhole	89790	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350016	WO#3350558	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	37 ARROWHEAD RD	2/28/2021 13:30	3/1/2021 11:24	26400	Sewer Manhole	89791	GROUND	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350017	WO#3350559	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4019 LELAND RD	2/28/2021 13:56	3/1/2021 12:31	26400	Sewer Manhole	96019	GROUND	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350018	WO#3350560	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4640 BARBOUR LN	2/28/2021 14:00	3/1/2021 1:50	213000	Sewer Manhole	65633	STREAM	LITTLE GOOSE CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3349969	AREA DISINFECTED WITH LIME.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	974 BRECKENRIDGE LN	2/28/2021 14:10	3/1/2021 12:31	26400	Sewer Manhole	74520	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350019	WO#3350562	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3920 DUTCHMANS LN	2/28/2021 14:16	3/1/2021 12:30	26400	Sewer Manhole	96673	STREAM	WEICHER CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350020	WO#3350563	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1108 DUPONT CIR	2/28/2021 14:20	3/1/2021 12:40	33000	Sewer Manhole	43726	GROUND	WEICHER CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350021	WO#3350564	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3928 DUTCHMANS LN	2/28/2021 14:30	3/1/2021 12:40	26400	Sewer Service Line	Z18284029	GROUND	WEICHER CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350023	WO#3350561	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	3/1/2021 9:00	3/2/2021 8:14	120000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY -- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350303	WO#3350810	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	3/1/2021 9:11	3/2/2021 8:15	120000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350302	WO#3350810	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1544 CHEROKEE RD	3/1/2021 9:40	3/2/2021 8:38	120000	Sewer Manhole	40475	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350305	WO#3350814	LOCATION INCLUDED IN IOAP.
HITE CREEK	KY0022420	6100 MAYFAIR AVE	3/3/2021 9:08	3/9/2021 13:30	9999	Sewer Lift Station	MSD1206-PS	GROUND	OHIO RIVER	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3350905	NO CLEAN UP PERFORMED -- PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.

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	1473 FRANKFORT AVE	3/4/2021 11:44	3/9/2021 13:41	156000	Sewer Manhole	100756A-X	GROUND	SOUTH FORK BEARGRASS CREEK	FLOODING AND LACK OF SYSTEM CAPACITY.	PUMPED DUE TO COE MANUAL	RAIN EVENT DISCHARGE	3351196	PICK UP TRASH AND SPREAD LIME.	NONE.
CEDAR CREEK	KY0098540	6810 ARBOR MANOR WAY	3/8/2021 23:30	3/9/2021 0:00	300	Sewer Lift Station	MSD1185-PS	DITCH	CEDAR CREEK	FAILURE IN ARV.	MECHANICAL FAILURE	DRY WEATHER DISCHARGE	3351847	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	VALVE WAS SHUT OFF.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	3/11/2021 23:45	3/13/2021 2:15	3100000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352604	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	3/11/2021 23:45	3/12/2021 19:45	800000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352603	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	3/12/2021 5:38	3/13/2021 9:16	66320	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352612	WO#3352844	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	3/12/2021 5:40	3/13/2021 9:19	3318	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352613	WO#3352843	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	3/12/2021 6:07	3/12/2021 11:56	7200	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352616	WO#3352842	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	3/12/2021 6:10	3/13/2021 10:33	33600	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352617	WO#352840	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3400 DELL RD	3/12/2021 7:58	3/12/2021 13:00	600	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352614	WO#3352847	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	3/12/2021 8:00	3/12/2021 13:10	610	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352615	WO#3352848	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	3/12/2021 8:57	3/12/2021 11:55	13500	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352643	WO#3352841	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1544 CHEROKEE RD	3/12/2021 9:22	3/12/2021 12:15	3600	Sewer Manhole	40475	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352662	WO#3352837	LOCATION INCLUDED IN IOAP
MORRIS FORMAN	KY0022411	3317 DELL RD	3/12/2021 9:44	3/12/2021 13:18	488	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352647	WO#3352845	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	3/12/2021 10:06	3/13/2021 10:16	288000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY – HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3352660	WO#3352891	LOCATION INCLUDED IN IOAP.
HITE CREEK	KY0022420	7215 FOX HARBOR RD	3/15/2021 21:41	3/15/2021 19:23	1	Sewer Service Line	111227215	GROUND	HARRODS CREEK	PRIVATE PROPERTY ISSUE.	OBSTRUCTION-NOT GREASE / ROOTS	RAIN EVENT DISCHARGE	3353121	CUSTOMER RESPONSIBLE FOR CLEANUP.	ADVISED THE CUSTOMER TO CONTACT A PLUMBER - PRIVATE PORTION OF THE PROPERTY SERVICE CONNECTION NEEDS TO BE HOOKED BACK UP.

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	1201 OLD CANNONS LN	3/31/2021 3:15	3/31/2021 20:30	6000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3361348	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM	LOCATION INCLUDED IN IOAP

APPENDIX B

CSO FLOW MONITORING DATA



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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
CSO015	1/1/2021 7:30	1/4/2021 11:45	4575	0	49178694					47,211,546	1
	1/25/2021 13:45	2/1/2021 8:00	9735	2	16979038					26,826,880	1
	2/28/2021 5:15	3/3/2021 9:30	4575	3	98321119					285,131,246	1
CSO015 Total										359,169,672	3
CSO016	1/1/2021 7:45	1/1/2021 14:45	420	1	8809272					8,809,272	1
	1/25/2021 10:30	1/25/2021 23:45	795	2	16301253					25,429,955	1
	1/30/2021 22:45	1/31/2021 2:00	195	0	4098171					3,278,537	1
	2/10/2021 18:30	2/10/2021 18:30	0	0	79945					17,588	1
	2/28/2021 2:45	3/1/2021 2:15	1410	3	8033129					22,332,098	1
	3/11/2021 20:30	3/12/2021 12:00	930	1	21369598					28,207,870	1
	3/15/2021 14:15	3/15/2021 16:30	135	0	8724324					1,483,135	1
	3/18/2021 7:45	3/18/2021 11:00	195	1	2527706					2,755,199	1
	3/25/2021 11:00	3/25/2021 15:00	240	0	13755347					4,951,925	1
	3/30/2021 23:45	3/31/2021 6:30	405	0	10082843					7,562,132	1
CSO016 Total										104,827,711	10
CSO019	1/25/2021 9:00	2/1/2021 7:00	9960	2	103209					169,263	1
	2/4/2021 16:30	2/5/2021 6:45	855	0	401398					160,559	1
	2/10/2021 17:30	3/22/2021 17:30	57600	0	25301100					5,313,231	1
	3/25/2021 10:15	4/5/2021 0:00	15225	0	448203					134,461	1
CSO019 Total										5,777,514	4
CSO022	2/28/2021 5:15	2/28/2021 5:45	30	2	156295	0	12	Atlas		339,160	1
	2/28/2021 20:30	2/28/2021 20:30	0	2	42427	5	12	Cloudburst		92,066	1
	3/18/2021 1:30	3/18/2021 1:30	0	0	148515	35	24	Atlas		69,802	1
	3/25/2021 11:15	3/25/2021 11:15	0	0	74096	4	12	Cloudburst		17,783	1
CSO022 Total										518,811	4
CSO023	2/28/2021 5:15	2/28/2021 5:15	0	2	41201	32	12	Atlas		89,407	1
CSO023 Total										89,407	1
CSO028	2/28/2021 5:30	2/28/2021 5:30	0	2	4223	1	1	Atlas		9,925	1
	2/28/2021 20:30	2/28/2021 20:30	0	2	3737	0	12	Atlas		8,782	1
	3/18/2021 0:30	3/18/2021 0:30	0	0	9185	331	24	Cloudburst		5,052	1
CSO028 Total										23,759	3
CSO031	2/28/2021 5:30	2/28/2021 5:45	15	2	940	0	3	Atlas		2,208	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
	2/28/2021 20:45	2/28/2021 20:45	0	2	137	3	24	Cloudburst		321	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	2816	0	3	Atlas		1,549	1
	3/25/2021 10:30	3/25/2021 10:30	0	0	1533	2	6	Cloudburst		506	1
CSO031 Total										4,584	4
CSO034	2/28/2021 5:15	2/28/2021 5:30	15	2	11572	0	12	Atlas		27,194	1
	2/28/2021 20:30	2/28/2021 20:30	0	2	4946	0	12	Atlas		11,623	1
	3/18/2021 0:30	3/18/2021 0:30	0	0	7938	0	12	Atlas		4,366	1
	3/25/2021 10:15	3/25/2021 10:15	0	0	63779	0	3	Atlas		21,047	1
CSO034 Total										64,230	4
CSO035	2/28/2021 5:30	2/28/2021 5:45	15	2	24040	8	24	Cloudburst		52,167	1
	2/28/2021 20:30	2/28/2021 20:30	0	2	13325	8	24	Cloudburst		28,916	1
	3/18/2021 0:30	3/18/2021 0:30	0	0	3661	0	24	Atlas		1,684	1
	3/25/2021 10:15	3/25/2021 10:15	0	0	14819	0	1	Atlas		5,483	1
CSO035 Total										88,250	4
CSO036	2/28/2021 5:30	2/28/2021 6:00	30	2	43233	8	24	Cloudburst		93,815	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	25691	513	24	Cloudburst		55,750	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	97135	513	24	Cloudburst		44,682	1
	3/25/2021 10:30	3/25/2021 10:30	0	0	130865	354	24	Cloudburst		48,420	1
CSO036 Total										242,667	4
CSO038	2/28/2021 5:45	2/28/2021 5:45	0	2	177					417	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	142	513	24	Cloudburst		333	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	1753	513	24	Cloudburst		964	1
CSO038 Total										1,714	3
CSO050	1/1/2021 4:45	1/1/2021 11:30	405	0	369025	500	1	Atlas		298,910	1
	1/25/2021 8:30	1/25/2021 20:30	720	1	827006	513	24	Cloudburst		1,050,297	1
	1/30/2021 21:45	1/30/2021 23:00	75	0	130202	513	24	Cloudburst		62,497	1
	2/4/2021 16:15	2/4/2021 16:30	15	0	3473	354	24	Cloudburst		1,285	1
	2/10/2021 17:00	2/10/2021 17:15	15	0	29900	500	1	Atlas		7,475	1
	2/28/2021 2:00	3/1/2021 0:30	1350	3	1263189	68	24	Cloudburst		3,233,764	1
	3/17/2021 17:00	3/18/2021 8:00	900	0	81020	68	24	Cloudburst		44,561	1
	3/25/2021 10:15	3/25/2021 11:45	90	0	1359657	0	24	Atlas		285,528	1
	3/30/2021 22:45	3/31/2021 2:00	195	0	633891	0	1	Atlas		519,873	1

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CSO050 Total										5,504,190	9
CSO051	1/1/2021 7:30	1/1/2021 7:30	0	0	937	68	24	Cloudburst		759	1
	1/25/2021 10:30	1/25/2021 14:30	240	1	16342	68	24	Cloudburst		20,764	1
	2/28/2021 4:45	2/28/2021 11:00	375	3	61455	0	24	Atlas		157,325	1
	2/28/2021 20:15	2/28/2021 22:00	105	3	18197	0	1	Atlas		46,585	1
	3/11/2021 19:45	3/12/2021 0:00	255	1	23179	513	24	Cloudburst		25,033	1
	3/18/2021 0:30	3/18/2021 0:30	0	0	5531	513	24	Cloudburst		3,042	1
	3/25/2021 10:15	3/25/2021 10:30	15	0	29595	354	24	Cloudburst		6,215	1
	3/30/2021 23:30	3/31/2021 1:15	105	0	11541	5	12	Cloudburst		9,464	1
CSO051 Total										269,177	8
CSO052	2/28/2021 5:30	2/28/2021 8:00	150	2	1546	48	12	Atlas		3,663	1
	3/11/2021 19:45	3/11/2021 20:00	15	1	2794	0	1	Atlas		2,906	1
	3/25/2021 10:15	3/25/2021 11:00	45	0	16914	0	12	Atlas		3,721	1
CSO052 Total										10,290	3
CSO054	1/25/2021 13:15	1/25/2021 14:15	60	1	60031	0	12	Atlas		70,836	1
	2/28/2021 4:45	2/28/2021 11:15	390	2	257479	500	24	Cloudburst		610,225	1
	2/28/2021 20:30	2/28/2021 22:00	90	2	78024	0	1	Atlas		184,917	1
	3/11/2021 23:15	3/12/2021 0:00	45	1	42874	0	3	Atlas		44,589	1
	3/31/2021 1:15	3/31/2021 1:15	0	0	2651	13	6	Cloudburst		2,200	1
CSO054 Total										912,767	5
CSO055	1/1/2021 7:30	1/1/2021 7:30	0	0	2203	5	12	Cloudburst		1,608	1
	1/25/2021 10:30	1/25/2021 15:30	300	1	13175	48	12	Atlas		15,547	1
	2/28/2021 4:30	2/28/2021 12:15	465	2	106751	500	24	Cloudburst		253,001	1
	2/28/2021 20:30	2/28/2021 23:45	195	2	171335	500	24	Cloudburst		406,065	1
	3/11/2021 20:00	3/12/2021 5:00	540	1	200323	12	12	Atlas		208,336	1
	3/15/2021 13:45	3/15/2021 13:45	0	0	464	0	1	Atlas		65	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	75066	0	3	Atlas		37,533	1
	3/25/2021 10:15	3/25/2021 11:00	45	0	1309	13	6	Cloudburst		288	1
	3/30/2021 23:45	3/31/2021 1:45	120	0	134010	504	24	Cloudburst		111,228	1
CSO055 Total										1,033,671	9
CSO056	1/25/2021 13:30	1/25/2021 13:45	15	1	8797	330	12	Cloudburst		10,381	1
	2/28/2021 5:00	2/28/2021 9:30	270	2	172483	1	3	Atlas		408,785	1
	2/28/2021 20:45	2/28/2021 21:30	45	2	45549	500	12	Cloudburst		107,951	1

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	3/11/2021 23:30	3/11/2021 23:45	15	1	13248	504	24	Cloudburst		13,778	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	100262	504	24	Cloudburst		50,131	1
	3/25/2021 10:30	3/25/2021 10:30	0	0	232114	330	12	Cloudburst		51,065	1
CSO056 Total										642,091	6
CSO082	12/30/2020 15:30	1/2/2021 0:30	3420	1	173261575	422	6	Cloudburst		174,994,191	1
	1/25/2021 10:30	1/25/2021 18:45	495	1	17590290	55	12	Atlas		18,469,804	1
	2/28/2021 4:30	3/2/2021 3:30	2820	2	82177161	500	12	Cloudburst		160,245,463	1
	3/11/2021 23:30	3/11/2021 23:45	15	0	1416470	504	24	Cloudburst		1,218,164	1
CSO082 Total										354,927,622	4
CSO082	1/25/2021 10:00	1/25/2021 19:15	555	1	753960	330	12	Cloudburst		806,737	1
	2/28/2021 5:00	3/2/2021 3:30	2790	2	3234096	0	3	Atlas		6,435,851	1
	3/11/2021 22:45	3/12/2021 9:15	630	0	187456	5	3	Atlas		163,087	1
	3/31/2021 0:30	3/31/2021 1:30	60	0	18971	1	3	Atlas		12,521	1
CSO082 Total										7,418,196	4
CSO083	2/28/2021 5:30	2/28/2021 6:00	30	2	14475	422	6	Cloudburst		30,688	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	19178	500	12	Cloudburst		40,658	1
	3/11/2021 20:15	3/11/2021 20:15	0	0	74	504	24	Cloudburst		66	1
CSO083 Total										71,412	3
CSO092	2/28/2021 4:15	2/28/2021 8:00	225	2	12063	504	24	Cloudburst		26,417	1
	2/28/2021 20:30	2/28/2021 20:30	0	2	1338	330	12	Cloudburst		2,931	1
	3/11/2021 20:00	3/11/2021 23:15	195	0	2267	5	3	Atlas		2,222	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	149	1	3	Atlas		58	1
	3/25/2021 10:00	3/25/2021 10:15	15	0	1487	2	12	Cloudburst		565	1
	3/31/2021 0:00	3/31/2021 21:45	1305	0	52674	5	12	Cloudburst		36,345	1
CSO092 Total										68,538	6
CSO097	1/1/2021 5:00	1/1/2021 13:00	480	0	484704	1	12	Cloudburst		441,081	1
	1/25/2021 9:15	1/25/2021 19:15	600	1	411418	69	12	Atlas		497,816	1
	1/30/2021 22:30	1/30/2021 23:30	60	0	33359	500	24	Cloudburst		13,010	1
	2/28/2021 4:00	3/1/2021 13:30	2010	3	1782673	14	12	Atlas		4,456,682	1
	3/11/2021 20:00	3/12/2021 9:15	795	1	355246	13	6	Cloudburst		387,218	1
	3/15/2021 13:30	3/15/2021 14:30	60	0	96633	501	24	Cloudburst		11,596	1
	3/18/2021 1:00	3/18/2021 8:15	435	0	68200	501	24	Cloudburst		27,804	1
	3/25/2021 10:15	3/25/2021 11:15	60	0	67471	17	12	Atlas		27,663	1

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	3/30/2021 23:30	3/31/2021 2:15	165	0	204996	501	24	Cloudburst		161,947	1
CSO097 Total										6,024,817	9
CSO105	1/1/2021 7:00	1/1/2021 7:15	15	1	29523	501	24	Cloudburst		35,132	1
CSO105 Total										35,132	1
CSO108	2/28/2021 5:15	2/28/2021 5:30	15	3	391078	27	12	Atlas		1,271,002	1
	2/28/2021 20:30	2/28/2021 21:00	30	3	331817	0	24	Atlas		1,078,406	1
CSO108 Total										2,349,408	2
CSO109	1/1/2021 7:45	1/1/2021 7:45	0	0	51425	3	3	Atlas		47,825	1
	1/25/2021 13:30	1/25/2021 13:30	0	1	537	17	6	Cloudburst		773	1
	2/28/2021 4:45	3/1/2021 1:45	1260	3	404521	9	12	Cloudburst		1,302,558	1
	3/11/2021 20:15	3/11/2021 23:45	210	1	75137	40	12	Atlas		97,678	1
	3/18/2021 1:00	3/18/2021 1:00	0	0	103713	0	12	Atlas		40,448	1
	3/31/2021 0:30	3/31/2021 0:30	0	0	31430	500	24	Cloudburst		28,916	1
CSO109 Total										1,518,198	6
CSO111	1/1/2021 11:00	1/1/2021 11:30	30	0	22751	16	12	Atlas		19,338	1
	2/28/2021 5:45	2/28/2021 22:15	990	2	306128	0	3	Atlas		642,869	1
	3/11/2021 20:00	3/12/2021 0:00	240	1	13887	0	24	Atlas		14,859	1
	3/18/2021 1:00	3/18/2021 8:00	420	0	42347	2	1	Atlas		21,597	1
	3/25/2021 10:15	3/25/2021 10:45	30	0	42007	10	6	Cloudburst		17,223	1
	3/30/2021 23:30	3/31/2021 1:15	105	0	122855	8	12	Cloudburst		93,370	1
CSO111 Total										809,256	6
CSO113	1/1/2021 7:45	1/1/2021 8:00	15	0	51874	2	24	Cloudburst		40,462	1
	1/25/2021 13:30	1/25/2021 13:45	15	1	2728	2	24	Cloudburst		2,919	1
	2/28/2021 4:45	2/28/2021 8:30	225	2	253870	0	12	Atlas		555,976	1
	2/28/2021 20:45	2/28/2021 21:15	30	2	98058	3	12	Cloudburst		214,748	1
	3/11/2021 20:15	3/11/2021 23:45	210	0	78047	61	24	Cloudburst		76,486	1
	3/18/2021 8:00	3/18/2021 8:00	0	0	17487	2	12	Cloudburst		6,820	1
	3/25/2021 10:30	3/25/2021 10:30	0	0	46808	0	24	Atlas		17,787	1
	3/31/2021 0:30	3/31/2021 0:30	0	0	20136	1	6	Cloudburst		13,894	1
CSO113 Total										929,092	8
CSO117	1/1/2021 6:15	1/1/2021 12:00	345	0	5636128	0	12	Atlas		3,607,122	1
	1/25/2021 14:00	1/25/2021 19:15	315	1	1345445	7	24	Cloudburst		1,372,354	1

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	2/28/2021 5:15	3/1/2021 0:45	1170	2	6508268	0	12	Atlas		13,862,610	1
	3/11/2021 23:30	3/12/2021 8:45	555	0	1071465	0	24	Atlas		942,889	1
CSO117 Total										19,784,975	4
CSO118	1/1/2021 5:15	1/1/2021 15:00	585	0	6812160	0	6	Atlas		4,768,512	1
	1/25/2021 9:00	1/25/2021 19:15	615	1	4779039	14	12	Atlas		5,017,991	1
	1/30/2021 22:30	1/30/2021 23:30	60	0	676243	69	12	Atlas		250,210	1
	2/28/2021 2:15	3/1/2021 6:15	1680	2	9300138	501	24	Cloudburst		19,716,293	1
	3/11/2021 20:15	3/12/2021 9:00	765	0	3769015	501	24	Cloudburst		3,354,423	1
	3/15/2021 14:00	3/15/2021 14:30	30	0	2463300	27	12	Atlas		270,963	1
	3/18/2021 1:00	3/18/2021 8:45	465	0	2214128	0	24	Atlas		863,510	1
	3/25/2021 10:15	3/25/2021 12:00	105	0	4254895	3	3	Atlas		1,829,605	1
CSO118 Total										36,071,507	8
CSO119	1/1/2021 5:00	1/1/2021 12:15	435	0	1393654	0	12	Atlas		975,558	1
	1/25/2021 10:15	1/25/2021 19:00	525	1	723800	0	12	Atlas		759,780	1
	1/30/2021 22:45	1/30/2021 23:00	15	0	66949	0	24	Atlas		24,771	1
	2/28/2021 4:30	2/28/2021 23:30	1140	2	562845	0	12	Atlas		1,193,231	1
	3/11/2021 20:00	3/12/2021 4:45	525	0	324407	8	12	Cloudburst		288,722	1
	3/15/2021 13:45	3/15/2021 14:00	15	0	176091	62	12	Atlas		19,370	1
	3/18/2021 7:45	3/18/2021 8:00	15	0	70203	0	12	Atlas		27,379	1
	3/26/2021 7:30	3/26/2021 7:30	0	0	3301900	501	24	Cloudburst		33,019	1
	3/31/2021 0:15	3/31/2021 0:15	0	0	9853	17	12	Atlas		7,094	1
CSO119 Total										3,328,924	9
CSO120	1/1/2021 5:00	1/1/2021 11:00	360	0	203147	5	1	Atlas		134,077	1
	1/25/2021 8:45	1/25/2021 21:00	735	1	118909	0	12	Atlas		127,233	1
	1/30/2021 21:45	1/30/2021 21:45	0	0	3253	501	24	Cloudburst		1,236	1
	2/22/2021 4:45	2/26/2021 5:15	5790	0	12261440	0	3	Atlas		613,072	1
	2/28/2021 1:45	3/1/2021 4:30	1605	2	179705	0	24	Atlas		357,613	1
	3/11/2021 23:15	3/12/2021 3:00	225	0	42475	0	1	Atlas		36,953	1
	3/15/2021 14:15	3/15/2021 16:30	135	0	2387008	21	6	Cloudburst		286,441	1
	3/18/2021 1:00	3/18/2021 1:00	0	0	4449	6	12	Cloudburst		1,913	1
	3/31/2021 1:15	3/31/2021 1:15	0	0	8524	0				5,626	1
	3/31/2021 13:15	3/31/2021 15:00	105	1	370					481	1
CSO120 Total										1,564,645	10

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CSO125	1/1/2021 0:00	1/2/2021 5:45	1785	1	331741					464,437	1
	1/3/2021 17:30	1/6/2021 23:30	4680	1	68272	0	6	Atlas		95,581	1
	1/25/2021 11:00	1/25/2021 19:15	495	1	113396	500	24	Cloudburst		134,941	1
	1/30/2021 23:00	1/30/2021 23:15	15	0	24683	14	12	Atlas		10,367	1
	2/28/2021 2:15	3/1/2021 6:30	1695	2	4138625	0	3	Atlas		8,691,112	1
	3/11/2021 20:15	3/12/2021 8:45	750	0	203824	0	24	Atlas		201,786	1
	3/15/2021 14:00	3/15/2021 14:00	0	0	67177	13	6	Cloudburst		8,733	1
	3/18/2021 1:15	3/18/2021 1:30	15	0	610					238	1
CSO125 Total										9,607,195	8
CSO126	1/1/2021 5:45	1/1/2021 8:30	165	0	83454					77,612	1
	1/1/2021 17:15	1/1/2021 17:30	15	0	2191	1	12	Cloudburst		2,038	1
	1/25/2021 11:00	1/25/2021 21:00	600	1	48731	0	6	Atlas		57,990	1
	2/28/2021 4:45	2/28/2021 5:15	30	2	7685	7	24	Cloudburst		16,139	1
	3/11/2021 20:15	3/12/2021 9:30	795	0	51418	0	12	Atlas		50,904	1
	3/31/2021 0:00	3/31/2021 1:30	90	0	13100	0	3	Atlas		9,301	1
CSO126 Total										213,984	6
CSO127	1/1/2021 5:00	1/1/2021 17:45	765	0	52817	0	12	Atlas		51,761	1
	1/25/2021 8:30	1/25/2021 20:45	735	1	28006	0	12	Atlas		38,368	1
	1/30/2021 22:00	1/30/2021 23:15	75	0	37017	1	12	Cloudburst		17,768	1
	2/10/2021 17:30	2/10/2021 17:30	0	0	2718	7	24	Cloudburst		462	1
	2/28/2021 1:45	3/1/2021 4:30	1605	2	1896488	0	12	Atlas		4,494,676	1
	3/11/2021 20:00	3/12/2021 5:30	570	1	243870	0	6	Atlas		260,941	1
	3/15/2021 13:45	3/15/2021 14:30	45	0	122564	14	12	Atlas		17,159	1
	3/18/2021 1:00	3/18/2021 8:30	450	0	25086	74	12	Atlas		9,282	1
	3/25/2021 9:30	3/25/2021 11:45	135	0	214326	0	6	Atlas		90,017	1
	3/30/2021 22:45	3/31/2021 2:00	195	0	62996	0	12	Atlas		46,617	1
CSO127 Total										5,027,051	10
CSO130	2/28/2021 5:45	2/28/2021 5:45	0	2	6319	500	24	Cloudburst		11,311	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	973	13	12	Atlas		1,741	1
CSO130 Total										13,052	2
CSO131	1/1/2021 8:00	1/1/2021 8:00	0	0	44452	0	3	Atlas		28,005	1
	2/28/2021 5:30	2/28/2021 7:30	120	2	74577	0	24	Atlas		133,492	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	19003	2	3	Atlas		34,016	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
CSO131	3/11/2021 20:15	3/11/2021 20:15	0	0	24848	8	6	Cloudburst		22,363	1
CSO131 Total										217,876	4
CSO132	1/1/2021 7:15	1/3/2021 23:00	3825	0	31668044	501	24	Cloudburst		19,950,868	1
	1/25/2021 10:30	1/26/2021 23:00	2190	1	1923275	501	24	Cloudburst		2,057,904	1
	2/28/2021 4:15	3/9/2021 23:00	14085	2	131515663	12	6	Cloudburst		232,779,006	1
	3/11/2021 19:45	3/12/2021 23:00	1635	0	80913	501	24	Cloudburst		73,631	1
	3/18/2021 7:45	3/18/2021 23:00	915	0	11	501	24	Cloudburst		4	1
	3/25/2021 10:15	3/25/2021 23:00	765	0	20	42	12	Atlas		9	1
	3/30/2021 23:30	3/31/2021 23:00	1410	0	44915	0	6	Atlas		29,644	1
CSO132 Total										254,891,066	7
CSO140	1/1/2021 5:30	1/1/2021 11:45	375	0	1039981	21	24	Atlas		727,987	1
	1/25/2021 13:15	1/25/2021 14:15	60	1	164441	2	12	Cloudburst		177,596	1
	2/28/2021 5:30	2/28/2021 20:45	915	2	552502	0	12	Atlas		1,071,854	1
CSO140 Total										1,977,437	3
CSO141	2/28/2021 5:15	2/28/2021 11:45	390	2	4913	1	6	Cloudburst		9,777	1
	2/28/2021 20:30	2/28/2021 21:15	45	2	5062	3	12	Cloudburst		10,073	1
	3/11/2021 20:15	3/12/2021 8:15	720	0	3225	21	12	Atlas		2,806	1
	3/25/2021 10:45	3/25/2021 11:15	30	0	440	231	24	Cloudburst		154	1
CSO141 Total										22,810	4
CSO142	1/1/2021 7:45	1/1/2021 7:45	0	0	4556	500	24	Cloudburst		3,235	1
	2/28/2021 5:30	2/28/2021 8:15	165	2	17184	500	24	Cloudburst		35,915	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	4793	14	12	Atlas		10,017	1
	3/11/2021 20:15	3/11/2021 23:30	195	0	12211	2	3	Atlas		11,967	1
	3/25/2021 10:15	3/25/2021 10:30	15	0	14458	439	12	Cloudburst		5,205	1
	3/31/2021 0:30	3/31/2021 0:30	0	0	274	506	24	Cloudburst		181	1
CSO142 Total										66,520	6
CSO144	2/28/2021 11:00	2/28/2021 18:15	435	2	184	506	24	Cloudburst		367	1
CSO144 Total										367	1
CSO146	1/1/2021 7:45	1/1/2021 8:15	30	0	128697	501	12	Cloudburst		91,375	1
	2/28/2021 7:45	2/28/2021 8:30	45	2	29534	93	1	Atlas		61,726	1
CSO146 Total										153,101	2

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CSO148	1/1/2021 7:15	1/1/2021 8:30	75	0	69302	0	24	Atlas		63,065	1
	1/25/2021 10:30	1/25/2021 15:15	285	1	57630	439	12	Cloudburst		69,732	1
	1/30/2021 22:45	1/30/2021 22:45	0	0	3044	506	24	Cloudburst		1,187	1
	2/28/2021 1:45	2/28/2021 11:30	585	3	100197	9	12	Cloudburst		250,492	1
	2/28/2021 20:30	2/28/2021 21:15	45	3	13606	40	12	Atlas		34,016	1
	3/11/2021 20:00	3/12/2021 0:00	240	1	70663	0	12	Atlas		77,023	1
	3/15/2021 13:45	3/15/2021 13:45	0	0	5400	500	24	Cloudburst		648	1
	3/18/2021 1:00	3/18/2021 8:00	420	0	6969	500	24	Cloudburst		2,927	1
	3/25/2021 10:15	3/25/2021 10:30	15	0	28973	16	12	Atlas		11,879	1
	3/30/2021 23:30	3/31/2021 1:15	105	0	32810	0	3	Atlas		25,920	1
CSO148 Total										536,889	10
CSO149	1/1/2021 8:00	1/1/2021 12:15	255	0	5090225	0	24	Atlas		3,614,060	1
	2/28/2021 5:45	2/28/2021 22:45	1020	2	5162611	2	1	Atlas		10,789,857	1
CSO149 Total										14,403,917	2
CSO151	1/1/2021 5:15	1/1/2021 20:00	885	0	2898742	439	12	Cloudburst		2,579,880	1
	1/25/2021 9:00	1/25/2021 19:30	630	1	597375	506	24	Cloudburst		681,007	1
	1/30/2021 22:45	1/30/2021 23:45	60	0	139500	0	12	Atlas		57,195	1
	2/10/2021 17:45	2/10/2021 18:45	60	0	131094	0	12	Atlas		20,975	1
	2/28/2021 2:15	3/1/2021 10:15	1920	2	4200524	0	12	Atlas		10,039,252	1
	3/11/2021 20:15	3/12/2021 9:45	810	0	477304	0	24	Atlas		462,985	1
	3/15/2021 14:00	3/15/2021 15:00	60	0	512309	0	24	Atlas		56,354	1
	3/17/2021 17:15	3/18/2021 8:45	930	0	302128	0	12	Atlas		117,830	1
	3/25/2021 10:30	3/25/2021 12:00	90	0	260992	0	3	Atlas		101,787	1
	3/30/2021 23:45	3/31/2021 2:45	180	0	369918	0	24	Atlas		270,040	1
CSO151 Total										14,387,305	10
CSO153	1/1/2021 4:45	1/1/2021 9:00	255	0	884918	0	6	Atlas		584,046	1
	1/25/2021 8:30	1/25/2021 18:45	615	1	735415	6	12	Cloudburst		786,894	1
	1/30/2021 21:45	1/30/2021 23:15	90	0	112066	69	12	Atlas		42,585	1
	2/4/2021 16:30	2/4/2021 16:30	0	0	9443	0	12	Atlas		2,644	1
	2/28/2021 1:30	2/28/2021 10:45	555	2	370347	0	12	Atlas		736,991	1
	2/28/2021 19:45	2/28/2021 21:15	90	2	138821	500	24	Cloudburst		276,254	1
	3/11/2021 20:00	3/12/2021 9:00	780	0	604720	500	24	Cloudburst		526,106	1
	3/15/2021 13:30	3/15/2021 14:00	30	0	367050	14	12	Atlas		44,046	1
	3/18/2021 0:45	3/18/2021 8:00	435	0	234765	0	3	Atlas		100,949	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
	3/25/2021 10:00	3/25/2021 11:30	90	0	385171	0	24	Atlas		134,810	1
	3/30/2021 22:30	3/31/2021 1:45	195	0	480461	2	3	Atlas		317,104	1
CSO153 Total										3,552,429	11
CSO154	1/1/2021 7:45	1/1/2021 7:45	0	0	2792	13	6	Cloudburst		1,759	1
	1/25/2021 18:15	1/25/2021 18:30	15	1	2237	0	6	Atlas		2,394	1
	2/28/2021 7:00	2/28/2021 8:15	75	2	26733	5	12	Cloudburst		47,317	1
	2/28/2021 20:15	2/28/2021 21:00	45	2	37127	21	24	Atlas		65,714	1
CSO154 Total										117,184	4
CSO161	2/28/2021 4:45	2/28/2021 5:30	45	2	2443	21	24	Atlas		5,252	1
	2/28/2021 20:30	2/28/2021 20:30	0	2	1292	382	24	Cloudburst		2,778	1
CSO161 Total										8,030	2
CSO166	1/1/2021 5:15	1/1/2021 17:30	735	0	2256029	14	12	Atlas		2,210,908	1
	1/25/2021 10:30	1/25/2021 21:15	645	1	1717297	74	12	Atlas		2,352,697	1
	1/30/2021 23:00	1/30/2021 23:45	45	0	156050	0	6	Atlas		74,904	1
	2/28/2021 2:15	3/2/2021 0:15	2760	2	10896273	500	24	Cloudburst		25,824,167	1
	3/11/2021 20:15	3/12/2021 9:45	810	1	3080663	13	12	Atlas		3,296,309	1
	3/15/2021 14:00	3/15/2021 15:00	60	0	1457829	0	3	Atlas		204,096	1
	3/18/2021 1:30	3/18/2021 8:45	435	0	187073	0	24	Atlas		69,217	1
	3/25/2021 10:30	3/25/2021 12:00	90	0	1215283	2	3	Atlas		510,419	1
	3/30/2021 23:45	3/31/2021 3:00	195	0	2302012	8	6	Cloudburst		1,703,489	1
CSO166 Total										36,246,206	9
CSO167	1/1/2021 7:15	1/3/2021 23:00	3825	0	514927	0	6	Atlas		324,404	1
	1/25/2021 10:30	1/26/2021 23:00	2190	1	31273	5	12	Cloudburst		33,462	1
	2/28/2021 4:15	3/9/2021 23:00	14085	2	2138432	21	24	Atlas		3,785,025	1
	3/11/2021 19:45	3/12/2021 23:00	1635	0	1315	2	12	Cloudburst		1,197	1
	3/30/2021 23:45	3/31/2021 23:00	1395	0	730	1	6	Cloudburst		482	1
CSO167 Total										4,144,570	5
CSO174	1/25/2021 10:30	1/25/2021 14:15	225	1	640230	502	12	Cloudburst		691,448	1
	2/28/2021 4:30	2/28/2021 11:45	435	2	1430354	506	24	Cloudburst		2,989,439	1
	2/28/2021 20:30	2/28/2021 21:45	75	2	314009	506	24	Cloudburst		656,278	1
	3/11/2021 20:00	3/12/2021 0:00	240	0	495898	501	12	Cloudburst		485,980	1
	3/18/2021 7:45	3/18/2021 8:00	15	0	289456	11	24	Cloudburst		130,255	1
	3/25/2021 10:15	3/25/2021 10:45	30	0	488075	93	1	Atlas		175,707	1

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	3/30/2021 23:45	3/31/2021 1:30	105	0	369889	500	6	Cloudburst		243,995	1
CSO174 Total										5,373,102	7
CSO180	3/11/2021 20:15	3/11/2021 23:30	195	0	94137	501	12	Cloudburst		92,254	1
	3/30/2021 23:45	3/31/2021 1:15	90	0	89564	500	6	Cloudburst		59,112	1
CSO180 Total										151,366	2
CSO183	2/6/2021 23:15	2/6/2021 23:15	0	0	2167	0	3	Atlas		65	1
	2/28/2021 4:30	2/28/2021 6:00	90	2	8110	60	24	Cloudburst		17,436	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	916	60	24	Cloudburst		1,970	1
CSO183 Total										19,471	3
CSO184	1/1/2021 7:45	1/1/2021 7:45	0	0	8615	1	12	Cloudburst		6,461	1
	1/25/2021 10:45	1/25/2021 10:45	0	1	473	6	12	Cloudburst		534	1
	2/28/2021 5:30	2/28/2021 5:45	15	2	59484	60	24	Cloudburst		127,891	1
	3/11/2021 20:15	3/11/2021 20:15	0	1	3008	4	12	Cloudburst		3,219	1
	3/25/2021 10:30	3/25/2021 10:30	0	0	17708	0	1	Atlas		7,083	1
	3/31/2021 0:30	3/31/2021 0:30	0	0	1822	2	6	Cloudburst		1,348	1
CSO184 Total										146,536	6
CSO185	1/1/2021 8:00	1/1/2021 8:30	30	0	6603	1	12	Cloudburst		4,952	1
	1/25/2021 10:45	1/25/2021 14:00	195	1	45994	6	12	Cloudburst		51,973	1
	2/28/2021 4:30	2/28/2021 11:30	420	2	287855	60	24	Cloudburst		618,888	1
	2/28/2021 20:30	2/28/2021 21:30	60	2	114320	60	24	Cloudburst		245,787	1
	3/11/2021 20:15	3/12/2021 0:00	225	1	41078	4	12	Cloudburst		43,953	1
	3/18/2021 1:00	3/18/2021 8:00	420	0	14587	0	24	Atlas		7,877	1
	3/25/2021 10:15	3/25/2021 10:30	15	0	85705	0	1	Atlas		34,282	1
	3/30/2021 23:45	3/31/2021 1:15	90	0	37361	2	6	Cloudburst		27,647	1
CSO185 Total										1,035,359	8
CSO187	2/28/2021 5:15	2/28/2021 5:15	0	2	13888	506	24	Cloudburst		29,026	1
CSO187 Total										29,026	1
CSO188	2/28/2021 5:45	2/28/2021 5:45	0	2	717	506	24	Cloudburst		1,499	1
CSO188 Total										1,499	1
CSO189	2/28/2021 7:00	3/1/2021 4:15	1275	3	99202656	223	24	Cloudburst		255,942,853	1

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CSO189 Total										255,942,853	1
CSO190	1/1/2021 7:30	1/1/2021 7:45	15	0	1551	5	12	Cloudburst		1,256	1
	1/25/2021 10:45	1/25/2021 18:30	465	1	5680	48	12	Atlas		7,214	1
	2/28/2021 4:30	2/28/2021 10:45	375	3	119656	500	24	Cloudburst		306,319	1
	2/28/2021 20:15	2/28/2021 21:00	45	3	14362	500	24	Cloudburst		36,766	1
	3/11/2021 20:00	3/11/2021 23:30	210	1	10645	12	12	Atlas		11,497	1
	3/25/2021 10:15	3/25/2021 10:30	15	0	160414	0	3	Atlas		33,687	1
	3/31/2021 1:00	3/31/2021 1:15	15	0	1002	13	6	Cloudburst		822	1
CSO190 Total										397,561	7
CSO191	1/1/2021 7:30	1/4/2021 11:45	4575	0	2209700	5	12	Cloudburst		2,121,312	1
	1/25/2021 13:45	2/1/2021 8:00	9735	2	762906	35	24	Atlas		1,205,391	1
	2/28/2021 5:15	3/3/2021 9:30	4575	3	4417772	505	12	Cloudburst		12,811,540	1
CSO191 Total										16,138,243	3
CSO193	1/25/2021 18:30	1/25/2021 18:30	0	1	9	513	24	Cloudburst		10	1
	2/28/2021 4:45	2/28/2021 7:00	135	2	1039	502	12	Cloudburst		2,441	1
	2/28/2021 20:30	2/28/2021 20:30	0	2	1882	354	24	Cloudburst		4,422	1
	3/11/2021 23:15	3/11/2021 23:30	15	0	601	505	24	Cloudburst		547	1
	3/18/2021 0:30	3/18/2021 0:30	0	0	3898	505	24	Cloudburst		2,144	1
CSO193 Total										9,564	5
CSO195	2/28/2021 5:30	2/28/2021 5:45	15	2	36	505	24	Cloudburst		79	1
CSO195 Total										79	1
CSO196	2/28/2021 5:15	2/28/2021 5:45	30	2	27701	500	12	Cloudburst		60,666	1
	2/28/2021 20:30	2/28/2021 20:30	0	2	25416	19	24	Atlas		55,661	1
	3/11/2021 20:00	3/11/2021 20:00	0	0	954	19	1	Atlas		925	1
	3/18/2021 0:30	3/18/2021 0:30	0	0	15755	505	24	Cloudburst		8,823	1
	3/25/2021 10:15	3/25/2021 10:15	0	0	19594	505	24	Cloudburst		6,074	1
CSO196 Total										132,149	5
CSO197	2/28/2021 5:15	2/28/2021 5:30	15	2	613	19	1	Atlas		1,342	1
CSO197 Total										1,342	1
CSO198	2/28/2021 5:15	2/28/2021 5:30	15	2	7466	245	12	Cloudburst		16,351	1
	3/25/2021 10:15	3/25/2021 10:15	0	0	2045	505	24	Cloudburst		634	1

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CSO198 Total										16,985	2
CSO199	1/1/2021 7:45	1/1/2021 7:45	0	0	286	505	24	Cloudburst		200	1
	2/28/2021 4:45	2/28/2021 8:30	225	2	24765	500	12	Cloudburst		54,236	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	16044	19	24	Atlas		35,136	1
	3/11/2021 20:00	3/11/2021 23:45	225	0	2285	19	1	Atlas		2,216	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	289	513	24	Cloudburst		162	1
	3/25/2021 10:30	3/25/2021 10:30	0	0	3529	513	24	Cloudburst		1,094	1
CSO199 Total										93,044	6
CSO201	2/28/2021 5:30	2/28/2021 5:45	15	2	11007	502	12	Cloudburst		25,867	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	6986	354	24	Cloudburst		16,418	1
	3/11/2021 23:30	3/11/2021 23:30	0	0	1433	500	1	Atlas		1,304	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	22940	245	12	Cloudburst		12,617	1
	3/25/2021 10:30	3/25/2021 10:30	0	0	34673	501	12	Cloudburst		11,442	1
CSO201 Total										67,648	5
CSO202	1/1/2021 7:45	1/1/2021 7:45	0	0	854	505	24	Cloudburst		598	1
	1/25/2021 10:45	1/25/2021 13:45	180	1	1422	505	24	Cloudburst		1,593	1
	2/28/2021 4:30	2/28/2021 8:15	225	2	6992	500	12	Cloudburst		15,313	1
	2/28/2021 20:45	2/28/2021 20:45	0	2	654	19	24	Atlas		1,432	1
	3/11/2021 20:00	3/11/2021 23:45	225	0	4540	19	1	Atlas		4,404	1
	3/18/2021 0:45	3/18/2021 0:45	0	0	2955	500	6	Cloudburst		1,655	1
	3/25/2021 10:15	3/25/2021 10:30	15	0	10697	505	24	Cloudburst		3,316	1
	3/31/2021 0:15	3/31/2021 0:30	15	0	1262	19	1	Atlas		871	1
CSO202 Total										29,182	8
CSO203	2/28/2021 5:30	2/28/2021 7:15	105	2	1793	0	12	Atlas		3,927	1
	3/25/2021 10:30	3/25/2021 10:30	0	0	365	0	12	Atlas		113	1
CSO203 Total										4,040	2
CSO205	1/1/2021 7:15	1/1/2021 11:30	255	0	3975	0	1	Atlas		2,981	1
	1/25/2021 8:45	1/25/2021 15:45	420	1	1608	0	1	Atlas		1,753	1
	1/30/2021 21:45	1/30/2021 22:30	45	0	322	6	24	Cloudburst		116	1
	1/31/2021 7:30	1/31/2021 7:30	0	0	3	0	12	Atlas		1	1
	2/28/2021 4:15	3/1/2021 0:45	1230	2	5767	0	3	Atlas		11,879	1
	3/11/2021 20:15	3/12/2021 9:00	765	1	3548	0	24	Atlas		3,548	1
	3/15/2021 13:30	3/15/2021 14:15	45	0	6155	0	3	Atlas		677	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
	3/17/2021 17:00	3/18/2021 8:15	915	0	2575	0	6	Atlas		1,519	1
	3/25/2021 10:15	3/25/2021 11:30	75	0	4576	4	12	Cloudburst		1,510	1
	3/30/2021 22:30	3/31/2021 1:45	195	0	2889	32	12	Atlas		2,138	1
CSO205 Total										26,122	10
CSO210	1/1/2021 7:15	1/1/2021 14:30	435	1	318744	1	1	Atlas		318,744	1
	1/25/2021 10:15	1/25/2021 23:30	795	2	289118	331	24	Cloudburst		404,224	1
	1/30/2021 22:45	1/31/2021 2:00	195	0	87643					70,114	1
	2/28/2021 4:00	3/1/2021 13:30	2010	3	384394	8	12	Cloudburst		1,088,615	1
	3/11/2021 20:45	3/12/2021 11:45	900	1	481173	3	24	Cloudburst		635,148	1
	3/15/2021 14:15	3/15/2021 16:30	135	0	231524	0	3	Atlas		39,359	1
	3/18/2021 7:30	3/18/2021 10:45	195	1	101380	2	6	Cloudburst		110,504	1
	3/25/2021 11:00	3/25/2021 14:45	225	0	189325	4	12	Cloudburst		68,157	1
	3/30/2021 23:45	3/31/2021 5:00	315	0	285849	32	12	Atlas		214,387	1
CSO210 Total										2,929,252	9
CSO211	1/1/2021 7:30	1/1/2021 12:45	315	1	9195326	331	24	Cloudburst		9,195,326	1
	1/25/2021 10:45	1/25/2021 19:15	510	2	42886638	8	12	Cloudburst		66,903,196	1
	2/28/2021 4:30	3/1/2021 2:45	1335	3	81807180	0	3	Atlas		227,423,961	1
	3/11/2021 20:45	3/12/2021 7:30	645	1	16972462	2	6	Cloudburst		22,403,650	1
	3/25/2021 11:30	3/25/2021 13:15	105	0	2917661					1,050,358	1
	3/31/2021 0:15	3/31/2021 3:45	210	0	14411057					10,808,293	1
CSO211 Total										337,784,744	6
Grand Total										1,879,998,363	369

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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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	Bardstow 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
	2/19/2021	LE1105493	Heritage Creek East Lot 384 PSC	LAT EXT	400	-870
Cedar Creek Total						446,793
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	BERRYTOWN 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

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	2/27/2017	LE971261	Notting Hills Section 4 and Clubhouse	LAT EXT	10,400	-22,620
	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



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	12/31/2008	359323	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
	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	7,600	-16,530
	3/31/2017	LE967619	Louis F. Zoeller, Jr Minor Plat	LAT EXT	400	-870
J'Town Total						919,386
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

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	6/26/2012	300374	FORT KNOX FEDERAL CREDIT UNION	LAT EXT	400	-870
	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



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	3/16/2010	197432	ALMOST HOME KENNELS - ALL PET	LAT EXT	3,700	-8,048
	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

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	8/28/2013	13LE1001	Single Family 835 Fountain Ave	LAT EXT	400	-870
	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
	2/1/2021	LE1097560	Norht Hurstbourne Climate Controlled Storage	LAT EXT	400	-870



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Middle Fork Total						2,264,637
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

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Northern Ditch Total						274,866
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



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	12/30/2014	SC1082584	MAINTENANCE WORK FY15 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		4,394
	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

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	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
	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	APPLEGATE 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



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	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
	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

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		359440	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		128,000
	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



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	2/11/2015	SC1006185	CONTRACTED WORK FY14 - SOUTHEAST DIVERSION	SCAPCREDIT		187,478
	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 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						14,703,134



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	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



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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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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



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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

