



**Louisville and Jefferson County
Metropolitan Sewer District
Second Amended Consent Decree
Annual Report FY24**

Louisville & Jefferson County Metropolitan Sewer District
Second Amended Consent Decree Annual Report

Reporting Period:

July 1, 2023 through June 30, 2024

Submitted To:

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

Submitted By:

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Submittal Date:

September 30, 2024





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September 27, 2024

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Subject: Annual Report
July 1, 2023 through June 30, 2024
Civil Action No. 3:05-cv-236-S
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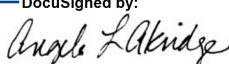
Attention Director and Chiefs:

Please find attached our Annual Report, prepared in accordance with Paragraph 42 of our Second Amended Consent Decree. This report is for the period July 1, 2023, through June 30, 2024.

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,

DocuSigned by:

88ECDC692890410...

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INTRODUCTION

The Louisville and Jefferson County Metropolitan Sewer District (MSD) has entered into a Second Amended Consent Decree (2ACD) with the Kentucky Energy & Environment Cabinet (KEEC) and the United States Environmental Protection Agency (EPA). The Second Amended Consent Decree was signed by United States District Judge and entered in United States District Court, Western Division of Kentucky, Louisville Division on September 15, 2022.

Annual Reporting Period

This fourth Annual Report is submitted in accordance with Paragraph 42 of the 2ACD. This report covers the time period from July 1, 2023, through June 30, 2024. The performance metrics used for 2ACD reporting represent service areas subject to the 2ACD, which include Jefferson County and Crestwood, Kentucky. MSD's full regional service area has grown beyond these service areas. The structure for this report is outlined as follows:

Section 1: Project Waterway Improvements Now (WIN) Performance Overview – This section provides an accounting of the current reporting period and the cumulative reductions in volume and in number of occurrences of Unauthorized Discharges from the Sanitary Sewer System (SSS), Combined Sewer System (CSS), and Water Quality Treatment Centers (WQTCs), and discharges from MSD's Combined Sewer Overflow (CSO) locations identified in MSD's Morris Forman Water Quality Treatment Center (WQTC) Kentucky Pollutant Discharge Elimination System (KPDES) permit. This section also provides an accounting of bypasses at MSD's WQTCs that occurred during the current reporting period.

Section 2: Program Activities for Discharge Abatement Plans – This section provides documentation of projects and activities conducted during the current reporting period to implement requirements of the 2ACD, including the Final Long Term Control Plan (LTCP), Final Sanitary Sewer Discharge Plan (SSDP), and Additional Early Action Projects (AEAPs).

Section 3: Program Activities for Nine Minimum Controls – This section provides documentation of projects and activities conducted during the current reporting period to continue implementation of this program for compliance with the 2ACD.

Section 4: Program Activities for Capacity Management, Operations and Maintenance – This section provides documentation of projects and activities conducted during the current reporting period to continue implementation of this program for compliance with the 2ACD.

Section 5: Program Activities for Sewer Overflow Response Protocol – This section provides documentation of projects and activities conducted during the current reporting period to continue implementation of this program for compliance with the 2ACD.

Section 6: Program Activities for Public Outreach, Education, Notification and Participation – This section provides documentation of projects and activities conducted during the current reporting period to support MSD's Nine Minimum Controls and Capacity Management, Operations and Maintenance Programs.

Section 7: Program Activities for Asset Management (AM) – This section describes the scope, schedule and status for activities that were active during the current reporting period for continued compliance with the 2ACD.

For this report, activities listed as "Recurring Programmatic Activities" are performed on a recurring or as-needed basis for every reporting period, while specific or unique activities are listed within the reporting period where they have or will occur.

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

1.1. RAINFALL

The number and the volume of wet weather overflows is directly related to the amount of rain that has fallen during the reporting period. No new rain gauges have been installed by MSD during the reporting period, two rain gauges were removed during the reporting period due to property changes, and the total network currently has 44 rain gauges, as shown in Figure 1.1. MSD maintained seven gauges within Indiana, eight within adjacent Kentucky counties, and twenty-nine within Jefferson County. Figure 1.2 shows the Jefferson County average daily rainfall amounts by month for the current reporting period, based on the monthly average of all MSD rain gauges, compared with the average daily rainfall of the previous four (4) years.

1.2. AUTHORIZED DISCHARGES — WET WEATHER CSOs

At the end of the reporting period, MSD maintained 98 CSOs in operation. Discharges at permitted CSO locations that are observed during rain events by telemetry only are recorded with MSD’s flow monitoring data.

1.2.1. CURRENT REPORTING PERIOD

Table 1.1 includes a summary of wet weather CSO discharges that occurred during the current reporting period. Refer to Appendix A for a detailed listing of discharges that occurred during the current reporting period.

Table 1.1. Wet Weather CSO Discharge Summary - Current Reporting Period

DUE TO	DISCHARGES	VOLUME (MG)
LACK OF SYSTEM CAPACITY	1,026	3,924.56

1.2.2. CUMULATIVE DISCHARGE REDUCTIONS

MSD is required to achieve 85 percent or greater capture throughout the combined sewer system (CSS). When fully implemented and operational, MSD’s suite of wet weather CSO control projects are modeled to achieve up to 95 percent capture of the wet weather combined sewage generated in the service area during the Typical Year, which greatly exceeds the EPA’s Presumption Approach requirement of 85 percent. Compliance with the 85 percent capture was achieved with completion of the Waterway Protection Tunnel in 2022. MSD expects to achieve up to 95 percent modeled performance by December 31, 2026, upon completion of the Morris Forman WQTC Sedimentation Basin Rehabilitation Project per the State Agreed Order Number 150220 Corrective Action Plan. The final phase of the Middle Fork Relief Interceptor, Wet Weather Storage, & Diversion Project, scheduled for completion in 2030, is also expected to provide additional combined system overflow benefits.

Figure 1.3 shows the modeled reduction in volume of CSOs and Figure 1.4 shows the modeled reduction in occurrence of CSOs for the Typical Year. Values are based on model simulations of the 2001 Typical Year with the "baseline" projects implemented (Sanitary Sewer Discharge Plan and other existing Combined Sewer System facility improvements) and the most recently compiled Long Term Control Plan project model. Changes over time are approximated. Modeling results assume the Morris Forman WQTC is operating at full capacity. This data is provided for information only. The modeling results do not reflect a specific commitment to a set number of activations, cumulative volume or total minutes of overflow at each CSO, nor do they represent a cumulative commitment to residual Annual Average Overflow Volume (AAOV). There are no target commitments for number of activations at each individual CSO. The target commitment for the system is based on an 85% capture, resulting in a total residual AAOV of 2,955 MG per Typical Year. The AAOV, derived from the InfoWorks CSO hydraulic model, includes the modeled AAOV for the permitted CSOs as currently constructed, and is included in this report as Appendix B.

Figure 1.1. MSD Rain Gauge Network

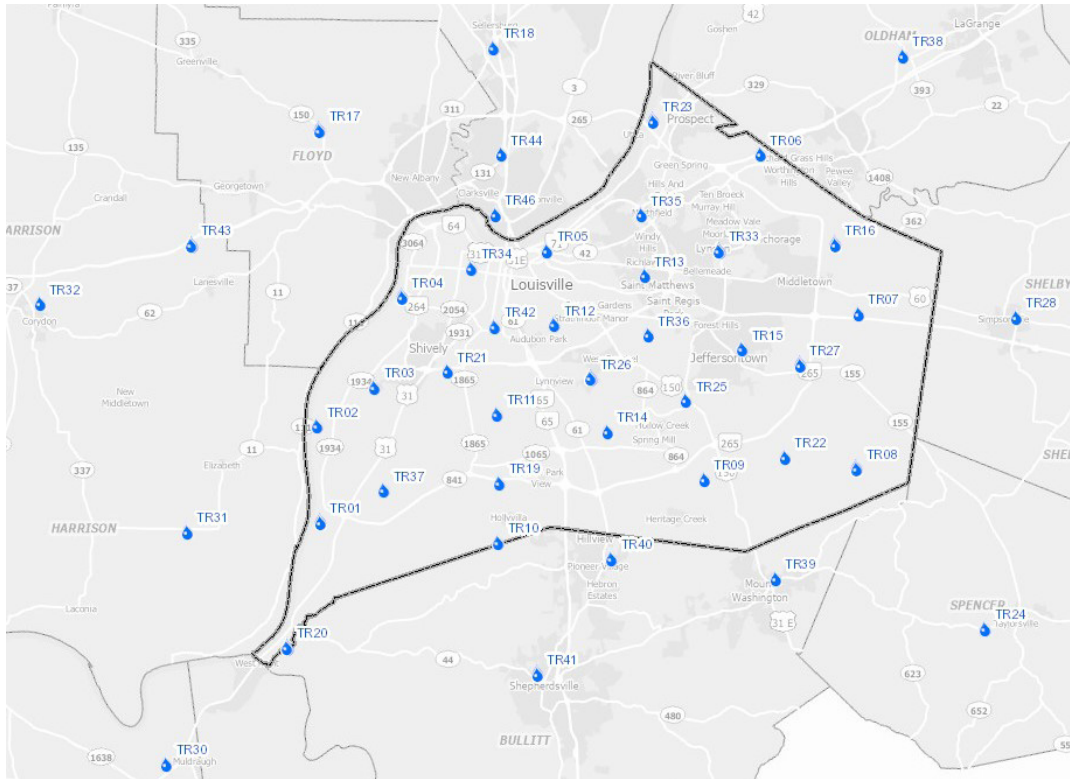


Figure 1.2. Daily Average Rainfall by Month

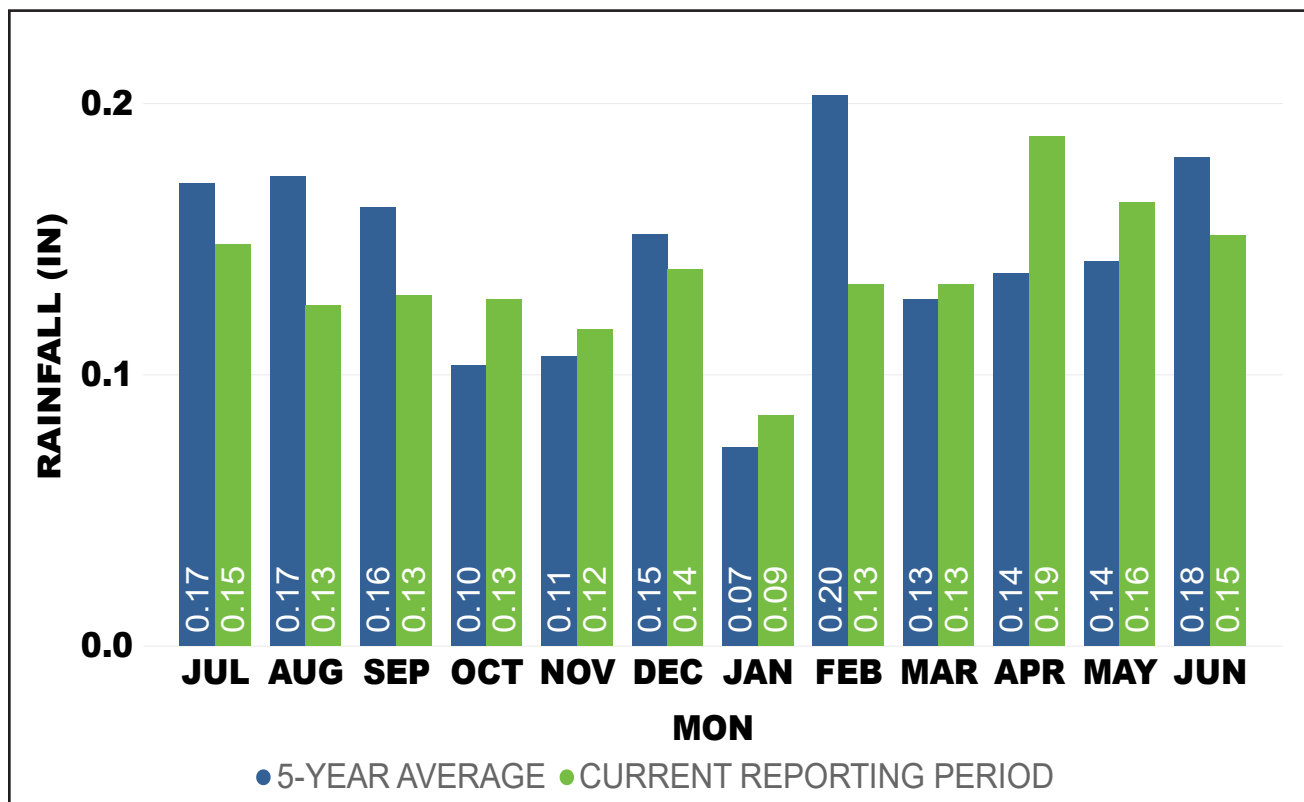


Figure 1.3. Wet Weather CSO Cumulative Reduction Modeled Projection - Volume

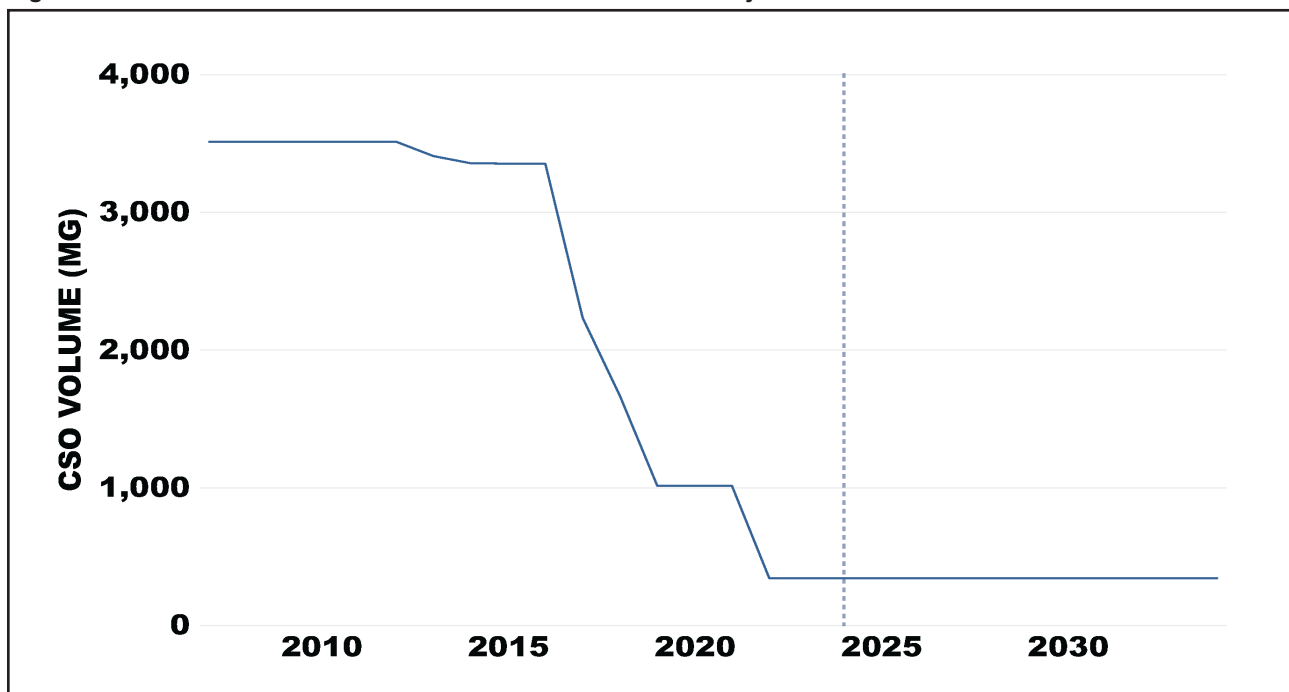
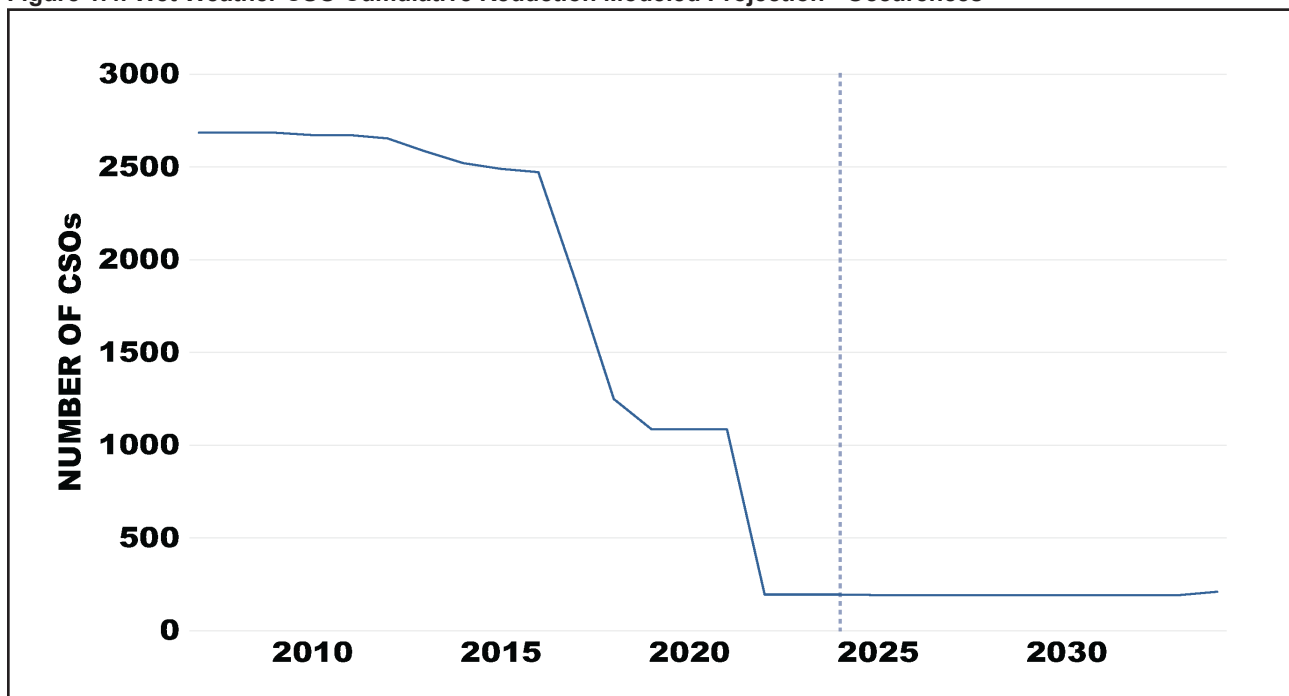


Figure 1.4. Wet Weather CSO Cumulative Reduction Modeled Projection - Occurrences



1.3. UNAUTHORIZED DISCHARGES — WET WEATHER SSOs

1.3.1. CURRENT REPORTING PERIOD

Table 1.3 includes volumes and Table 1.4 includes occurrences of wet weather SSO discharges by cause and fiscal year for the current reporting period along with four (4) years prior. Refer to Appendix C for a detailed listing of discharges that occurred during the current reporting period. When reviewing against rainfall data, capacity-related SSOs for the current reporting period are in line with expected results.

1.3.2. CUMULATIVE DISCHARGE REDUCTIONS

In 2007, MSD had an estimated 218 modeled SSO occurrences for the 10-year storm event. MSD is required to eliminate all 197 modeled SSOs for the 2-year storm event and mitigate the remaining SSOs. Modeled SSO occurrences are required to be reduced to a level of control (LOC) for the 5-year and 10-year storm events. The modeled reduction is based on projections using current proposed solutions (as of June 30, 2024). Actual projections are subject to change as future projects are designed in detail and constructed. Table 1.2 shows the modeled baseline and reduction in number and volume of SSOs. Figure 1.5 shows the modeled reduction in volume of SSOs for the 2-, 5-, and 10-year storm events and Figure 1.6 shows the modeled reduction in occurrences.

Table 1.2. Wet Weather SSO Cumulative Reduction Modeled Projection - Summary

CALENDAR YEAR END	2-YEAR MODELED OCCURRENCES	2-YEAR MODELED VOLUME (MG)	5-YEAR MODELED OCCURRENCES	5-YEAR MODELED VOLUME (MG)	10-YEAR MODELED OCCURRENCES	10-YEAR MODELED VOLUME (MG)
2007	197	20.82	211	47.69	218	75.39
2024	58	3.64	166	13.29	192	34.31
2034	0	0	137	4.65	178	21.03

Figure 1.5. Wet Weather SSO Cumulative Reduction Modeled Projection - Volume

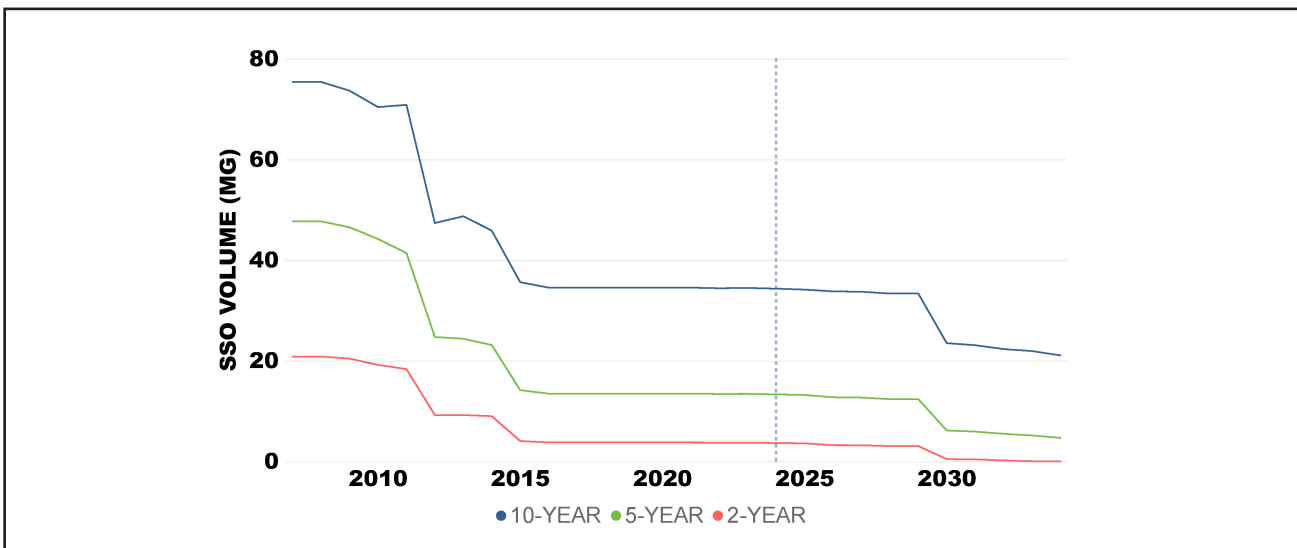
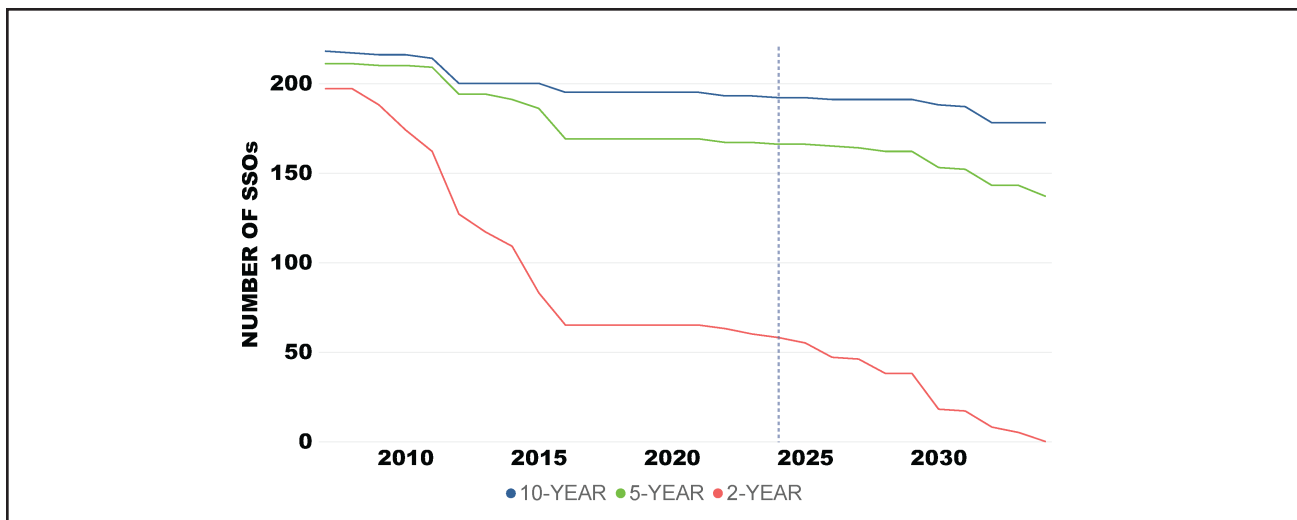


Figure 1.6. Wet Weather SSO Cumulative Reduction Modeled Projection - Occurrences



1.4. UNAUTHORIZED DISCHARGES — DRY WEATHER CSOs

Two (2) dry weather CSOs occurred during the reporting period, as reflected in Table 1.5, Table 1.6, and Appendix D. Table 1.5 includes volumes and Table 1.6 includes occurrences of dry weather CSO discharges by cause and fiscal year for the current reporting period along with four (4) years prior. Refer to Appendix D for a detailed listing of discharges that occurred during the current reporting period.

1.5. UNAUTHORIZED DISCHARGES — DRY WEATHER SSOs

Table 1.7 includes volumes and Table 1.8 includes occurrences of dry weather SSO discharges by cause and fiscal year for the current reporting period along with four (4) years prior. Refer to Appendix E for a detailed listing of discharges that occurred during the current reporting period.

1.6. BYPASSES AT WATER QUALITY TREATMENT CENTERS

Project WIN Quarterly Report 18 included a memorandum, provided as Appendix K in that report, which described the analysis of 44 bypass events that occurred between July 1, 2008, and December 31, 2009. This analysis delineated bypasses into four categories, which were Capacity, External Power Failures, Equipment Failure (Mechanical, Electrical, or Structural), and Human Error. An assessment of bypasses is performed to determine the root cause of each bypass, the failure category, corrective actions to be taken, possible programmatic solutions, and a corrective action completion date.

Table 1.9 includes volumes and Table 1.10 includes occurrences of bypasses by cause and fiscal year for the current reporting period along with four (4) years prior. Refer to Appendix F for a detailed listing of bypasses that occurred at Water Quality Treatment Centers during the current reporting period.

1.7. OVERFLOWS

1.7.1. WET INTERIOR OVERFLOWS

Table 1.11 includes occurrences of wet interior overflows by cause and fiscal year for the current reporting period along with four (4) years prior. Refer to Appendix G for a detailed listing of overflows that occurred during the current reporting period.

1.7.2. DRY INTERIOR OVERFLOWS

Table 1.12 includes occurrences of dry interior overflows by cause and fiscal year for the current reporting period along with four (4) years prior. Refer to Appendix G for a detailed listing of overflows that occurred during the current reporting period.

1.7.3. WET EXTERIOR OVERFLOWS

Table 1.13 includes occurrences of wet exterior overflows by cause and fiscal year for the current reporting period along with four (4) years prior. Refer to Appendix H for a detailed listing of overflows that occurred during the current reporting period.

1.7.4. DRY EXTERIOR OVERFLOWS

Table 1.14 includes occurrences of dry exterior overflows by cause and fiscal year for the current reporting period along with four (4) years prior. Refer to Appendix H for a detailed listing of overflows that occurred during the current reporting period.

Table 1.3. Wet Weather SSO Discharge Volume (gal) - Historic and Current Reporting Periods

DUE TO	ELECTRICAL PROBLEMS AT MSD	LACK OF SYSTEM CAPACITY	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	POWER OUTAGE (LG&E)	PUMPED OVERFLOW	ROOTS	STRUCTURAL FAILURE	SYSTEM UNDERWATER	UTILITY DAMAGED MSD ASSET
FY20	0	64,061,104	468,080	0	0	2,000	0	316,505	9,999	50,000
FY21	0	69,028,830	0	537,600	0	156,000	0	57,705	0	0
FY22	0	77,052,713	33,750	283,000	8,950	0	24,612	0	0	0
FY23	300	48,516,203	261,750	0	32,950	222,000	1,100	1,000	0	0
FY24	2,250	15,386,167	0	3,000	200	0	35,001	3,000	0	0

Table 1.4. Wet Weather SSO Discharge Occurrence - Historic and Current Reporting Periods

DUE TO	ELECTRICAL PROBLEMS AT MSD	LACK OF SYSTEM CAPACITY	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	POWER OUTAGE (LG&E)	PUMPED OVERFLOW	ROOTS	STRUCTURAL FAILURE	SYSTEM UNDERWATER	UTILITY DAMAGED MSD ASSET
FY20	0	114	5	0	0	1	0	3	1	1
FY21	0	155	0	3	0	1	0	2	0	0
FY22	0	235	1	4	2	0	5	0	0	0
FY23	1	176	6	0	5	1	2	1	0	0
FY24	1	93	0	1	1	0	2	1	0	0

Table 1.5. Dry Weather CSO Discharge Volume (gal) - Historic and Current Reporting Periods

DUE TO	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	STRUCTURAL FAILURE	SYSTEM UNDERWATER	UTILITY DAMAGED MSD ASSET	POWER OUTAGE (LG&E)
FY20	0	15,430	0	0	0	0
FY21	0	100,000	2,657	0	25,028	1,200,000
FY22	0	0	0	0	384,658	0
FY23	0	0	0	0	0	0
FY24	10,000	1,200	0	0	0	0

Table 1.6. Dry Weather CSO Discharge Occurrence - Historic and Current Reporting Periods

DUE TO	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET	POWER OUTAGE (LG&E)
FY20	0	1	0	0	0
FY21	0	1	1	2	1
FY22	0	0	0	2	0
FY23	0	0	0	0	0
FY24	1	1	0	0	0



Table 1.7. Dry Weather SSO Discharge Volume (gal) - Historic and Current Reporting Periods

DUE TO	ELECTRICAL PROBLEMS AT MSD	GREASE BLOCKAGE	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE /ROOTS	ROOTS	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET
FY20	500	0	350	408	0	1,228,790	1,440
FY21	35	200	300	1,895	0	12,250	24,000
FY22	0	3,051	1,625	37,100	1,000	154,207	0
FY23	0	1,875	12,000	86	2,320	1,800	330
FY24	500	625	7,500	2,610	1	98,725	1

Table 1.8. Dry Weather SSO Discharge Occurrence - Historic and Current Reporting Periods

DUE TO	ELECTRICAL PROBLEMS AT MSD	GREASE BLOCKAGE	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE /ROOTS	ROOTS	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET
FY20	1	0	1	2	0	12	1
FY21	1	1	1	9	0	3	1
FY22	0	3	1	3	1	4	0
FY23	0	3	1	5	2	2	2
FY24	1	1	4	5	1	6	1

Table 1.9. Bypass Volume (gal) - Historic and Current Reporting Periods

DUE TO	OVERFLOW - CAPACITY	OVERFLOW - EQ FAIL MECHANICAL	OVERFLOW - EQ FAIL STRUCTURAL	OVERFLOW - HUMAN ERROR	OVERFLOW - POWER FAILURE LG&E
FY20	0	1,150	92,040	6,975	0
FY21	0	200	0	0	0
FY22	500,000	326	12,743,000	896,500	0
FY23	0	150	45,000,000	903,000	0
FY24	0	0	21,500	0	110,330,000

Table 1.10. Bypass Occurrence - Historic and Current Reporting Periods

DUE TO	OVERFLOW - CAPACITY	OVERFLOW - EQ FAIL MECHANICAL	OVERFLOW - EQ FAIL STRUCTURAL	OVERFLOW - HUMAN ERROR	OVERFLOW - POWER FAILURE LG&E
FY20	0	2	1	1	0
FY21	0	1	0	0	0
FY22	1	1	2	3	0
FY23	0	1	1	2	0
FY24	0	0	2	0	3

Table 1.11. Wet Overflow to the Interior Occurrence - Historic and Current Reporting Periods

DUE TO	GREASE BLOCKAGE	OBSTRUCTION-NOT GREASE / ROOTS	ROOTS	LACK OF SYSTEM CAPACITY	STRUCTURAL FAILURE
FY20	2	3	3	0	0
FY21	2	5	6	10	0
FY22	2	3	5	6	1
FY23	1	4	7	25	0
FY24	0	5	2	2	0

Table 1.12. Dry Overflow to the Interior Occurrence - Historic and Current Reporting Periods

DUE TO	GREASE BLOCKAGE	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	ROOTS
FY20	5	1	18	8
FY21	2	0	17	2
FY22	4	0	5	12
FY23	4	0	7	18
FY24	1	0	9	3

Table 1.13. Wet Overflow to the Exterior Occurrence - Historic and Current Reporting Periods

DUE TO	GREASE BLOCKAGE	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	ROOTS	LACK OF SYSTEM CAPACITY	STRUCTURAL FAILURE
FY20	1	1	1	2	2	1
FY21	0	0	4	0	2	2
FY22	0	0	0	1	1	1
FY23	0	2	0	0	9	0
FY24	0	2	0	0	3	1

Table 1.14. Dry Overflow to the Exterior Occurrence - Historic and Current Reporting Periods

DUE TO	GREASE BLOCKAGE	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	ROOTS	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET	ELECTRICAL PROBLEMS AT MSD	PUMPED OVERFLOW
FY20	1	3	3	3	7	0	0	0
FY21	2	4	15	1	4	0	1	1
FY22	5	12	15	6	1	0	2	0
FY23	5	7	3	7	4	2	0	0
FY24	5	4	13	5	7	1	1	0

SECTION 2: PROGRAM ACTIVITIES FOR DISCHARGE ABATEMENT PLANS

2.1. INTEGRATED OVERFLOW ABATEMENT PLAN (IOAP)

As a requirement of the original Consent Decree (CD) and the Amended Consent Decree (ACD), MSD prepared and submitted, for EPA/KEEC review and joint approval, Sanitary Sewer Discharge Plans (SSDP) designed to eliminate Unauthorized Discharges. MSD also prepared and submitted Long Term Control Plans (LTCP), for EPA/KEEC review and joint approval, pursuant to the CSO Control Policy. These plans were submitted under the title of the Integrated Overflow Abatement Plan (IOAP).

MSD developed these Discharge Abatement Plans (DAPs) for the elimination of Unauthorized Discharges, the reduction and control of discharges from CSO locations identified in the Morris Forman WQTC Kentucky Pollutant Discharge Elimination System (KPDES) permit, and the improvement of water quality in the receiving waters. MSD prepared conventional and innovative or alternative designs as part of each plan, including but not limited to: sewer rehabilitation, sewer replacement, sewer separation, relief sewers, above ground or below ground storage, high rate Secondary Treatment, illicit connection removal, remote wet weather Secondary Treatment facilities, and other appropriate alternatives. Designs were based on sound engineering judgment and in accordance with generally accepted engineering design criteria and may include interim remedial measures to reduce pollutant loading and improve water quality in the short term while alternatives for final remedial measures are being developed, evaluated and implemented.

In 2021, MSD, KEEC and EPA completed negotiation of the Second Amended Consent Decree (2ACD) to amend, reprioritize and expand upon some of the provisions set forth in the ACD. MSD had completed many of the requirements of the ACD, including construction of 47 of the 63 SSDP projects and construction of 24 of the 25 LTCP projects required under the ACD. The completed projects resulted in preliminary finding of bacterial reductions in the Ohio River and Beargrass Creek watersheds based on water quality monitoring and system hydraulic modeling. However, MSD had spent approximately \$1B on CD and ACD implementation, and was experiencing changed circumstances for other assets. KEEC and EPA agreed that additional system work was required as well as a reprioritization of the work required under the ACD. The 2ACD requires Additional Early Action Plan (AEAP) projects to remediate the Paddy's Run Flood Pump Station (FPS), Morris Forman WQTC, and nine critical interceptors. Because these specific projects were in addition to the projects required under the SSDP and LTCP, the 2ACD also modified schedules for the completion of the few remaining projects under the approved SSDP and LTCP plans, as discussed in the following subsections. The 2ACD also requires the inclusion of an Asset Management Plan, which is discussed in Section 7.

2.1.1. IOAP PROGRAMMATIC CONDITIONS

MSD manages wet weather performance through a dynamic system influenced by the spatial distribution of rainfall and real-time system capacity for collection and treatment during any given rain event. Capacity to store and treat are each vital to meeting programmatic objectives of the LTCP. Conditions impacting MSD's wet weather performance for the current reporting period are described below and will be removed from future reports as limiting factors are resolved. Greater detail regarding related activities can be found elsewhere in Section 2 and in Section 3

The Morris Forman Flow capacity calculator determines the available capacity at the Morris Forman WQTC in real-time based on available equipment and other conditions at the plant. MSD operations staff strives to minimize CSOs by maximizing flow through the Morris Forman WQTC, considering flow that can be processed through Bells Lane High-Rate Treatment, diverted to the Derek R Guthrie WQTC via Northern Ditch Pump Station, and detained at Real Time Control storage facilities (Waterway Protection Tunnel, offline storage basins, and inline system storage), as discussed in Section 3.2. Equipment outages, construction projects, and unique operating conditions contribute layered effects that operations staff must evaluate and adapt to in an effort to continuously improve.

Capital Project construction at Morris Forman WQTC and within the collection system can inherently impact performance. The current limiting factor for plant capacity is the Sedimentation Basin Rehabilitation Project. Although future capital projects may impact capacity to a lesser degree, completion of the Sedimentation Basin Rehabilitation Project is expected to improve Morris Forman WQTC's ability to consistently process flow at its firm capacity in order to meet the required system capture of 85% by volume. The project, and reduced plant capacity, has also limited MSD's ability to operate in global automated mode for Real Time Control during this reporting period.

As LTCP projects were implemented, wrapping up with the Waterway Protection Tunnel in 2022, facility commissioning has included Real Time Control programming to maximize storage and dewater storage facilities as downstream system capacity allows. Once the Sedimentation Basins are back online, MSD will be able to review opportunities for refining and optimizing its dewatering strategy.

Grit, solids, and floatables present a complex suite of operational challenges that will be important to navigate in order to meet LTCP objectives. Grit build-up in storage facilities reduces MSD's ability to operate the RTC system during rain events in the most efficient manner. For example, Southwestern Parkway Basin was out of service for cleaning during the reporting period from January 31st to March 28th, 2024 and again from July 22nd through July 26th, 2024. The initial grit and debris build-up was caused by diverting dry weather flow to the basin during a planned outage at Morris Forman WQTC. Physical and operational improvements already in place are intended to prevent further issues. Integrating these lessons-learned into facility asset management planning, like shorter-duration but more frequent outages will decrease severity of build-up and aid in preventing future issues.

Additionally, solids and floatables screens can limit flow—to storage facilities or to Morris Forman WQTC for treatment—during rain events when screens are blinded, unintentionally exacerbating CSOs or causing artificial over reporting due to high monitoring depths. While MSD maintains weekly CSO inspections and cleans screens as needed, as described in Section 3.6, during a recently installed CSO camera pilot blinding due to solids and floatables was observed very early in each rain event, raising concerns about constraining flow to capture and treat. In some cases, this issue has caused flooding and acute safety issues which must be addressed. To successfully navigate complex conditions for these new LTCP assets, site-specific factors as well as interdependencies between CSOs must be considered when shaping best practices, operational strategies, and/or potential additional capital project needs. In the next reporting period, MSD will initiate a solids and floatables efficacy review to begin determining the extent of the issue(s), prioritize areas based on objective concerns, and assess recommended alternatives.

2.2. SANITARY SEWER DISCHARGE PLAN (SSDP)

The Sanitary Sewer Discharge Plan (SSDP) addresses the overflows and unauthorized discharges from the Separate Sewer System (SSS). Multiple plans have been submitted under this program: the Updated Sanitary Sewer Overflow Plan (SSOP), submitted February 10, 2006; the Interim Sanitary Sewer Discharge Plan (ISSDP), approved July 24, 2008; the Final SSDP, approved February 12, 2010; a revised SSDP, approved June 19, 2014; and the most recent revision of the SSDP, approved May 19, 2021. The approved documents can be viewed on the MSD 2ACD website, available at msdprojectwin.org. Discharge locations associated with SSDP Projects can be found in Appendix I.

The ACD required SSDP projects to be completed by December 31, 2024. Per Paragraph 38.a.(3) of the 2ACD, schedules for any SSDP project cannot extend beyond December 31, 2035. MSD has completed construction of 50 of the 62 SSDP projects required under the 2ACD, as shown in Table 2.1. A Gantt chart including progress of SSDP projects during the reporting period, along with anticipated progress for the upcoming reporting period, can be found in Figure 2.1.

The Idlewood Inline Storage project was certified as complete on August 18, 2023. The Monticello Pump Station Elimination was certified as complete on September 7, 2023.

Table 2.1. SSDP Project Status

PROJECT NAME	REQUIRED COMPLETION DATE	ACTUAL COMPLETION DATE
Avanti PS Elimination	7/28/2009	7/28/2009
Sinking Fork Relief Sewer	12/23/2009	12/23/2009
Ashburton PS Improvements and Diversion	12/31/2021	1/22/2010
Woodland Hills PS Diversion	6/30/2011	4/1/2010
Running Fox PS Elimination	12/31/2010	4/5/2010
Beechwood Village Sanitary Sewer Replacement	4/27/2011	9/29/2010
Beargrass Interceptor Rehabilitation Phase 2	12/31/2010	12/14/2010
Floydsburg Rd SSES, Rehabilitation and PS Upgrade	12/31/2010	12/17/2010
Northern Ditch Diversion Interceptor	7/31/2011	2/16/2011
Government Center PS Elimination	12/31/2024	4/1/2011
Parkview Estates I/I Investigation & Rehabilitation	6/30/2011	6/28/2011
Hazelwood PS I/I Investigation & Rehabilitation	6/30/2011	6/30/2011
Sonne PS I/I Investigation	6/30/2011	6/30/2011
Camp Taylor System Improvements, Phase 1: SSES	12/31/2011	7/8/2011
Edsel PS I/I Investigation & Rehabilitation	9/30/2011	9/27/2011
Anchor Estates PS Elimination Phase 2: Vannah Way PS Elim.	12/31/2013	10/15/2011
Hurstbourne I/I Investigation & Rehabilitation	12/31/2011	12/27/2011
Lantana PS I/I Investigation & Rehabilitation	12/31/2011	12/29/2011
Derington Ct PS I/I Investigation & Rehabilitation	3/31/2012	3/30/2012
East Rockford PS Relocation	12/31/2021	3/30/2012
Shively Interceptor	12/31/2014	4/13/2012
Southeastern Diversion Structure & Interceptor	5/12/2012	4/19/2012
Fairmount Rd PS Improvements	12/31/2023	4/24/2012
Hikes Lane Interceptor and Highgate Springs	11/27/2012	11/2/2012
Lake Forest PS SSO Investigation	12/31/2012	12/18/2012
Meadow Stream PS & Force Main Upgrade	12/31/2012	12/18/2012
Mellwood System Improvements, PS Eliminations, Phase 1: Mellwood PS	12/31/2012	12/27/2012
Eden Care PS SSO Investigation	12/31/2012	12/31/2012
Leland Road SSO Investigation	12/31/2012	12/31/2012
Camp Taylor System Improvements, Phase 2: Replace & Rehabilitate Sewers	12/31/2013	12/20/2013
Middle Fork Relief Interceptor, Wet Weather Storage, Upper Middle Fork LS Diversion Phase 1: Buechel Basin	12/31/2013	12/27/2013
Klondike Interceptor	12/31/2015	7/17/2014
St Rene Rd PS Inline Storage	12/31/2021	9/19/2014
Chenoweth Hills WQTC Elimination and PS Improvements	12/31/2015	9/22/2014
Riding Ridge PS Improvements	12/31/2014	11/15/2014
Fairway View PS Improvements	12/31/2014	12/30/2014

Table 2.1 SSDP Project Status

PROJECT NAME	REQUIRED COMPLETION DATE	ACTUAL COMPLETION DATE
Charleswood Interceptor Extension	12/31/2022	8/1/2015
Prospect WQTC Elimination, Harrods Creek PS, ORFM System Improvements Phase 2: HCPS & Force Main	12/31/2015	11/13/2015
Lea Ann Way System Improvements	12/31/2015	12/4/2015
Prospect WQTC Elimination, Harrods Creek PS, ORFM System Improvements Phase 1: WQTC Eliminations	12/31/2015	12/15/2015
Jeffersontown WQTC Elimination	12/31/2015	12/23/2015
Fairmount Rd PS Off-Line Storage	3/31/2016	3/30/2016
Goose Creek PS Improvements and Wet Weather Storage Phase 1: Devondale PS	12/31/2024	4/15/2016
Caven Ave PS Elimination	12/31/2016	9/26/2016
Anchor Estates PS Elimination Phase 1: Anchor PS Elimination	12/31/2016	9/30/2016
Prospect WQTC Elimination, Harrods Creek PS, ORFM System Improvements Phase 3: ORFM System Improvements	12/31/2016	12/19/2016
Camp Taylor System Improvements, Phase 3: Replace & Rehabilitate Sewers	12/31/2017	12/15/2017
Raintree and Marian Court PS Eliminations Phase 1	12/31/2025	10/15/2021
Idlewood Inline Storage	12/31/2025	8/18/2023
Monticello PS Elimination	12/31/2025	9/7/2023
Cinderella PS Elimination	12/31/2025	
Gunpowder PS Elimination	12/31/2025	
Kavanaugh Rd PS Elimination	12/31/2025	
Leven PS Elimination	12/31/2025	
Bardstown Rd PS Improvements	12/31/2030	
Dell Rd & Charlane Pkwy Interceptor	12/31/2030	
Mellwood System Improvements, PS Eliminations, Phase 2: Mockingbird Valley & Winton PS	12/31/2030	
Middle Fork Relief Interceptor, Wet Weather Storage, Upper Middle Fork LS Diversion Phase 2: UMFLS & Relief Interceptor	12/31/2030	
Raintree and Marian PS Elimination, Phase 2	12/31/2030	
Sutherland Rd Interceptor	12/31/2030	
Camp Taylor System Improvements, Phase 4: Offline Storage	12/31/2035	
Goose Creek PS Improvements and Wet Weather Storage Phase 2: Goose Creek PS Improvement	12/31/2035	

2.3. 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). Multiple plans have been submitted under this program: the Interim CSO LTCP (approved February 22, 2007); the Final CSO LTCP (approved February 12, 2010); and the most recent revision of the LTCP, submitted May 19, 2021. The approved documents can be viewed on the MSD Project WIN website, available at msdprojectwin.org. Discharge locations associated with LTCP Projects can be found in Appendix I.

The ACD required LTCP projects to be completed by December 31, 2020. Per Paragraph 38.b.(3) of the 2ACD, schedules for any LTCP project could not extend beyond December 31, 2022. The final LTCP project of the 23 LTCP projects required under the 2ACD, which is the Waterway Protection Tunnel, was certified as complete on June 27, 2022. Evaluation of the system will continue through hydraulic modeling.

2.4. ADDITIONAL EARLY ACTION PLAN (AEAP) PROJECTS

Since entry of the ACD, MSD determined that the conditions and circumstances regarding its assets have changed, thus necessitating the implementation of additional work in order to meet the objectives of the ACD and to achieve the levels of control for CSOs and SSOs set forth in the approved IOAP. These projects are known as Additional Early Action Plan (AEAP) projects and are described in the 2021 IOAP Modification, which can be viewed on the MSD Project WIN website, msdprojectwin.org. Per paragraph 39 of the 2ACD, MSD is required to implement new AEAP projects as listed in Table 2.2.

A Gantt chart including progress of AEAP projects during the reporting period, along with anticipated progress for the upcoming reporting period, can be found in Figure 2.1.

Table 2.2. AEAP Project Estimated Costs

AEAP PROJECT	REQUIRED COMPLETION DATE	IOAP INITIAL ESTIMATE (2021)	CURRENT ESTIMATE OR COST AT COMPLETION	OVERAGE
Nine Critical Interceptors	December 31, 2026	\$70.0M	\$90.9M	\$20.9M¹
<i>Broadway Interceptor Infrastructure Rehabilitation - A19208</i>	<i>June 30, 2021²</i>	<i>\$10.0M</i>	<i>\$24.9M</i>	<i>\$14.9M</i>
<i>Nightingale Rehabilitation - H16074</i>	<i>November 1, 2021²</i>	<i>\$3.0M</i>	<i>\$2.9M</i>	<i>-\$0.1M</i>
<i>Harrods Creek Force Main Repair - A20280</i>	<i>June 30, 2022²</i>	<i>\$8.4M</i>	<i>\$8.8M</i>	<i>\$0.4M</i>
<i>I-64 & Grinstead Infrastructure Rehabilitation - H18503</i>	<i>September 8, 2023²</i>	<i>\$16.0M</i>	<i>\$12.6M</i>	<i>-\$3.4M</i>
<i>Rudd Ave Sewer Infrastructure Rehabilitation - H21019</i>	<i>September 8, 2023²</i>	<i>\$2.3M</i>	<i>\$11.6M</i>	<i>\$9.3M</i>
<i>Prospect Phase II Area Sewers Rehabilitation - H16075</i>	<i>September 11, 2023²</i>	<i>\$3.0M</i>	<i>\$2.0M</i>	<i>-\$1.0M</i>
<i>Buechel Trunk Sewer Rehabilitation - E17053</i>		<i>\$3.0M</i>	<i>\$3.8M</i>	<i>\$0.8M</i>
<i>Large Diameter Sewer Rehabilitation - A20244</i>		<i>\$8.3M</i>	<i>\$6.9M</i>	<i>-\$1.4M</i>
<i>Western Outfall Infrastructure Rehabilitation - H20147</i>	<i>May 10, 2024²</i>	<i>\$16.0M</i>	<i>\$17.4M</i>	<i>\$1.4M</i>
Paddy's Run Pump Station Replacement	December 31, 2027	\$115M	\$241M	\$126M
Morris Forman WQTC Biosolids Facility	December 31, 2030	\$198M	\$315M	\$117M

1 The total overage for the nine critical interceptors is eligible to count towards Asset Management Commitments and will be evaluated upon completion of all projects.

2 Actual certification date for completed project(s)

The I-64 & Grinstead Infrastructure Rehabilitation and Rudd Avenue Sewer Infrastructure Rehabilitation projects were certified as complete on September 8, 2023. The Prospect Phase II Area Sewers Rehabilitation project was certified as complete on September 11, 2023. The Western Outfall Infrastructure Rehabilitation (Maple Street) project was certified as complete on May 10, 2024. The Large Diameter Sewer Rehabilitation project is anticipated to be completed during the upcoming reporting period.

2.5. POST-CONSTRUCTION COMPLIANCE MONITORING (PCCM)

Within the IOAP, monitoring efforts that support the impact evaluation of both project and plan implementation are discussed in Volume 1, Section 6.3. These efforts are incorporated into MSD's overall environmental data monitoring and management planning and activities, which support various MSD initiatives including operational support, the Municipal Separate Storm Sewer System (MS4) program, hydraulic and water quality modeling, and a range of regulatory reporting and trending requirements. Under the IOAP, the primary compliance assessment objectives will be to certify project completion to the selected overflow control level, both for CSOs and SSOs, to confirm that the CSS performs at a minimum level on a system wide evaluation, and to confirm that SSOs continue to perform at the minimum level of control for each SSO. As such, post-construction compliance monitoring (PCCM) supports impact analysis and the validation of various objectives of IOAP project initiatives, and the overall abatement plan.

2.5.1. PCCM FOR SSDP PROJECTS

Due to the nature of SSDP projects having varying levels of control (associated with 2-, 5-, and 10-year cloud-burst storms), ensuring effective post-construction performance is important at the project level. It is the intent that performance analyses will be conducted for constructed projects as monitoring data becomes available. To complete this effort and independently assess projects that have been certified to date, MSD has historically partnered with the University of Louisville Center for Infrastructure Research (UofL) for the majority of the project PCCM evaluations.

MSD begins reporting PCCM results on SSDP projects after one year of data is available for analysis, and continues monitoring until three years are documented with no reported overflows. If an overflow occurs that does not meet level of control for the project, an investigation is performed to determine what additional action may be needed. After the remedial measure is completed, MSD monitors for an additional three-year period.

The FY20 2ACD Annual Report included a detailed listing of completed SSDP project post-compliance performance status for projects completed through June 30, 2019, with data through June 30, 2020. Since that time, no projects have been completed that would impact PCCM evaluation.

The status of SSDP projects that have not completed the three-year PCCM monitoring period are listed in Table 2.3, including anticipated remedial measures to achieve compliance as needed.

Table 2.3. SSDP PCCM Project Status

DESCRIPTION	CERTIFICATION DATE	STATUS / REMEDIAL MEASURES
Floydsburg Road I/I Investigation and Rehabilitation	December 17, 2010	Although this project initially passed PCCM review with remediation (8/9/2018), additional remedial measures are underway to address more recent overflow occurrences. Groundwater sources were identified and a project is underway to eliminate the overflow.
Lantana #1 PS I/I Investigation & Rehabilitation	December 29, 2011	A revised solution is underway to eliminate the pump station and address private property I/I.
Mellwood System Improvements and PS Eliminations 1 - Mellwood PS & FM Improvements	December 27, 2012	Phased project - will be analyzed after completion of the Mellwood System Improvements and PS Eliminations 2 - Winton Avenue and Mockingbird Valley PS Eliminations Project, which will be complete by December 31, 2030.
Beargrass Interceptor Rehabilitation Ph 2	December 14, 2010	This project is hydraulically impacted by, and therefore will be analyzed after the completion of, the Middle Fork Relief Interceptor, Wet Weather Storage, and UMFPS 2 - PS and Interceptor Project, which will be complete by December 31, 2030.
Middle Fork Relief Interceptor, Wet Weather Storage And UMFPS Diversion 1 - Buechel Basin	December 27, 2013	Phased project - will be analyzed after completion of the Middle Fork Relief Interceptor, Wet Weather Storage, and UMFPS 2 - PS and Interceptor Project, which will be complete by December 31, 2030.
Southeastern Diversion Structure & Interceptor	April 19, 2012	This project is hydraulically impacted by, and therefore will be analyzed after the completion of, the Middle Fork Relief Interceptor, Wet Weather Storage, and UMFPS 2 - PS and Interceptor Project, which will be complete by December 31, 2030.
Raintree Court and Marian Court Pump Station Eliminations - Phase 1	October 15, 2021	Phased Project - will be analyzed after the completion of the Raintree and Marian Court Pump Station Eliminations - Phase 2 Project, which will be complete by December 31, 2030.
Goose Creek PS Improvements & Wet Weather Storage 2 - Devondale Wet Weather Storage	April 15, 2016	Phased project - will be analyzed after completion of the Goose Creek PS Improvements & Wet Weather Storage 2 - PS & FM Upgrade Project, which will be complete by December 31, 2035.

2.5.2. PCCM FOR LTCP PROJECTS

Because of the interconnectivity of the combined sewer system, a system-wide methodology is necessary for evaluating PCCM within the combined system. It requires a model-based approach to ensure that the certified projects are effective at capturing for treatment or removing 85% of wet weather flows during the typical year when compared to pre-IOAP conditions. Consistent with the CSO Policy, the PCCM program will involve flow metering of the collection system and updated hydraulic modeling to confirm achievement of the target percent capture values. Once system performance has been validated, KDOW will coordinate with MSD to transition to a post-LTCP permit that requires continued operation and maintenance of controls necessary to maintain compliance. LTCP projects will be evaluated holistically according to this PCCM methodology when compared to the 85% compliance target. The IOAP projects, when fully implemented, are projected to eliminate or capture for treatment 95% of the wet weather combined sewage generated in the service area during the typical year, which greatly exceeds the requirement of 85%.

2.5.3. STREAM FLOW AND WATER QUALITY MONITORING

MSD publishes a synthesis report, called “State of the Streams”, that summarizes water quality trends based on data MSD collects through its Long-Term Monitoring Network. The latest report is available at louisvillemad.org/WaterQuality. MSD continues to synthesize and trend water quality data in a report as required by the MS4 permit.

2.6. IOAP ACTIVITY SCHEDULE

A Gantt chart including progress of the remaining IOAP projects during the current reporting period and anticipated during the upcoming reporting period can be found in Figure 2.1.



Figure 2.1. IOAP Activity Schedule

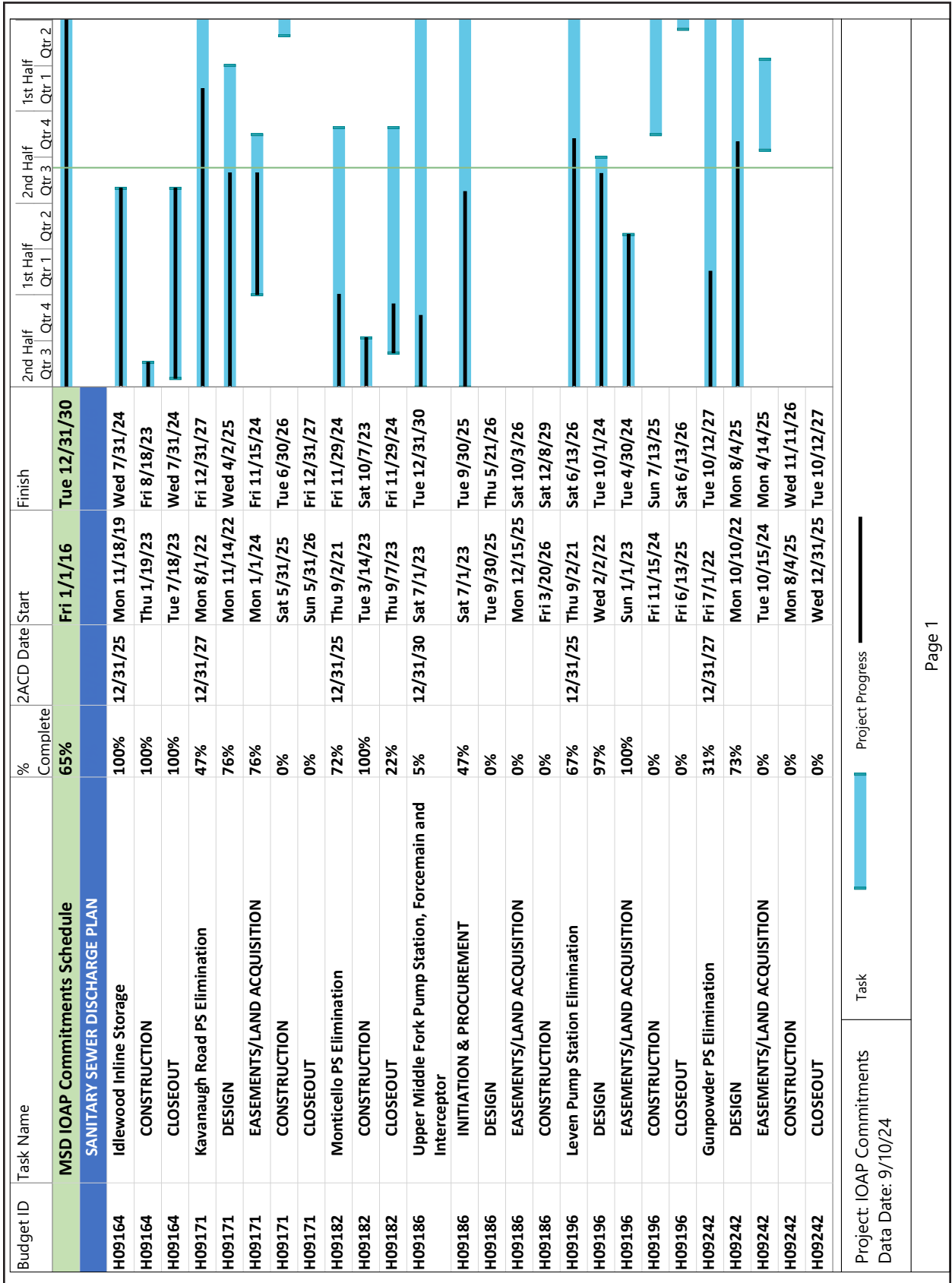


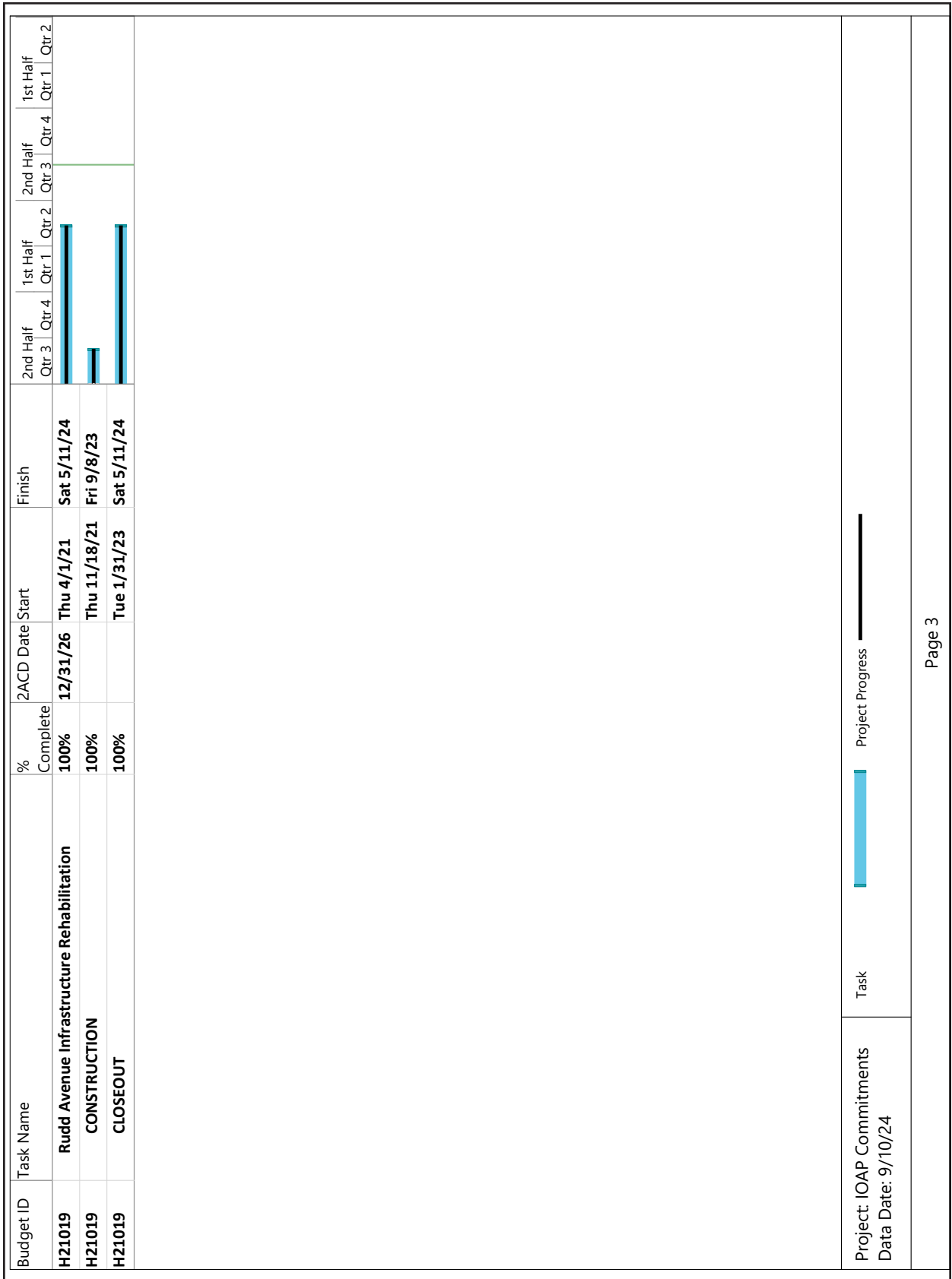
Figure 2.1. IOAP Activity Schedule

Budget ID	Task Name	2ACD Date Start	Finish	Timeline							
				2nd Half Qtr. 3	1st Half Qtr. 1	2nd Half Qtr. 3	1st Half Qtr. 1	2nd Half Qtr. 3	1st Half Qtr. 1	2nd Half Qtr. 3	1st Half Qtr. 1
ADDITIONAL EARLY ACTION PLAN (SRP)											
D22100	Morris Forman WQTC New Biosolids Facility	12/31/30	Fri 10/15/21								
D22100	DESIGN		Wed 12/1/21								
D22100	CONSTRUCTION		Mon 1/1/24								
D22100	CLOSEOUT		Thu 12/9/27								
F18515	Paddys Run Pump Station Capacity Improvements	12/31/27	Mon 7/1/19								
F18515	DESIGN		Tue 11/2/21								
F18515	CONSTRUCTION		Tue 5/2/23								
F18515	CLOSEOUT		Thu 12/31/26								
ADDITIONAL EARLY ACTION PLAN (CRITICAL SEWERS)											
A20244	Large Diameter Sewer Rehabilitation	12/31/26	Mon 9/16/19								
A20244	DESIGN		Wed 8/19/20								
A20244	CONSTRUCTION		Fri 5/10/24								
A20244	CLOSEOUT		Sun 6/30/24								
E17053	Buechel Trunk Sewer Rehab	12/31/26	Sat 7/1/23								
E17053	INITIATION & PROCUREMENT		Sat 7/1/23								
E17053	DESIGN		Mon 1/29/24								
E17053	CONSTRUCTION		Mon 4/29/24								
E17053	CLOSEOUT		Tue 4/29/25								
H16075	Prospect Phase II Area Sewers Rehabilitation	12/31/26	Thu 7/1/21								
H16075	CONSTRUCTION		Mon 6/13/22								
H16075	CLOSEOUT		Wed 6/14/23								
H18503	I-64 and Grinstead Infrastructure Rehabilitation	12/31/26	Mon 4/12/21								
H18503	CLOSEOUT		Tue 1/31/23								
H20147	Western Outfall Infrastructure Rehabilitation	12/31/26	Fri 4/2/21								
H20147	CONSTRUCTION		Thu 7/1/21								
H20147	CLOSEOUT		Wed 3/20/24								

Project: IOAP Commitments
Data Date: 9/10/24

Page 2

Figure 2.1. IOAP Activity Schedule



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SECTION 3: PROGRAM ACTIVITIES FOR NINE MINIMUM CONTROLS

Per Paragraph 37.a. of the 2ACD, the Nine Minimum Controls (NMC) Compliance Report was approved by the EPA/KEEC on February 22, 2007. The approved document can be viewed on the MSD Project WIN website, msdprojectwin.org. Highlights of NMC program implementation are outlined below.

3.1. NMC 1: PROPER OPERATION AND MAINTENANCE PROGRAMS

Recurring Programmatic Activities

- Inspected, maintained and operated the CSS pump stations and the Morris Forman WQTC.
- Maintained performance measures as shown in Table 3.1
 - Catch basins within the CSS are scheduled to be inspected every 15 months. If it is found that cleaning is necessary during inspection, the catch basin is cleaned at that time. Cleaning totals have been annualized for reporting.
 - CSOs and flapgates are inspected weekly. Siphons are inspected monthly. Debris removal or repair work orders on CSO assets are required to be created the next business day after the inspection and completed within five business days.
- Performed scheduled cleaning and inspection on gravity mains within the CSS, shown in Table 3.2.

Table 3.1. NMC 1 Performance Measures

ACTIVITY	REQUIRED	COMPLETED	% COMPLETE	GOAL
CATCH BASIN INSPECTION/CLEANING	15,430	24,072	156.0%	84.0%
CSO INSPECTIONS	6,018	5,791	96.2%	84.0%
SIPHON INSPECTIONS	602	602	100.0%	84.0%
FLAPGATE INSPECTIONS	1,309	1,309	100.0%	84.0%
DEBRIS REMOVAL / REPAIR	439	432	98.4%	100.0%

Table 3.2. Other NMC 1 Activities Completed

ACTIVITY	LINEAR FEET
CLEANING ACTIVITIES	484
INSPECTION ACTIVITIES	79,509

- Reviewed catch basin areas against the CSS and explored re-alignment to confirm that the 15-month cleaning cycle is achieving regulatory commitments.
- Reviewed the CSO inventory schematics and revised as necessary.
- Scheduled and conducted the annual CSO Field Training with the MSD Operations Division CSO/NMC staff and Morris Forman WQTC personnel.
- Incorporated the results of the annual field investigation to adjust and enhance the annual CSO Field Training modules.
- Performed weekly inspection of diversion chambers from the Ohio River, Northwest, Hikes Lane, and Beargrass Interceptors.
- Maintained Continuous Deflection Separation (CDS) units at the 12th & Rowan Pump Station and CSO 108.

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

3.2.1. REAL TIME CONTROL (RTC) OPTIMIZATION

Recurring Programmatic Activities

- Maintained operation of Phase 1, 2, and 3 of the RTC system. Wet weather flow was diverted for treatment at Derek R Guthrie WQTC or Bells Lane High Rate Treatment Facility, or stored in the system during rain events and routed to the Morris Forman WQTC once the system was able to handle the flow, as summarized in Table 3.3. See Appendix J for a detailed report.
- Monitored and evaluated the performance of the RTC system against operational objectives and issued updates to configurations and site tuning as necessary to improve performance of the recently integrated facilities and Csoft 4.
- Reviewed and updated the master programming and modules guide for RTC facilities to document existing programming and parameters as a reference to ensure long term continuity of the RTC system.

Table 3.3. Wet Weather Storage and Diversion to Treatment via RTC

RTC METHOD	VOLUME (MG)
Waterway Protection Tunnel	388.48
LTCP CSO Basin Storage	502.30
Inline Storage	1,106.65
Storm Basin Storage	408.65
Diversion to Treatment	6,533.64
Total	8,939.72

FY24 Reporting Period

- Completed the integration of the Rowan PS, Ohio Waterway Protection Tunnel, and associated CSO interceptors into the RTC system and monitored to complete tuning of the control loops and control logics.
- Integrated Rowan PS to Csoft including configuration of the RTC system and hydraulic model and local facility automation.
- Continued review and development of a draft RTC flood mode for facilities along the Ohio River influenced by high river levels to ensure safe operations under RTC control during these conditions and reduce the need for manual operation of the storage basins.
- Completed updates to the master RTC SOP manual based on a survey of the Main Diversion Structure (MDS), information gathered while commissioning of the Rowan PS, and to reflect various improvements to the operation of RTC facilities.
- Identified and began automatic computation of metrics for Key Performance Indicators (KPIs) for development using the HydroWeb dashboard to assist in the evaluation of RTC performance.

FY25 Reporting Period

- Finalize the master programming, Modules guide, and the Master SOP.
- Finalize KPIs for the RTC using the HydroWeb dashboard.

3.2.2. STORAGE OPTIMIZATION

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.

Recurring Programmatic Activities

- Maintained the Hydroweb dashboard with key performance indicators designed to quantify RTC performance.

-
- Implemented hardware, software, and set-point changes as applicable on a site-by-site basis.
 - Refined the local site tuning of RTC facilities as needed based on performance during varying rain events.
 - Improved and automated operations of the facilities integrated into the system.

FY24 Reporting Period

- Updated the HydroWeb dashboard to improve production of CSO and storage-related tables.
- Performed an analysis of rainfall forecasts to determine reliability relative to actual rainfall.
- Identified and corrected various rain gauge data reporting errors.
- Implemented a validation routine for rain gauges to improve maintenance responsiveness.
- Implemented a new validation routine for level instrumentation based on artificial intelligence to improve data anomaly detection. The improved validation routine should increase maintenance efficiency and reliability of data.
- Implemented several improvements related to operating the Southwestern Parkway CSO Basin under RTC, including:
 - Developed an improved Flow Under the Gate (FUG) calculation for Gates 3 & 7.
 - Adapted control logics to allow dewatering under RTC control to occur when flow meters are out of service or invalid.
 - Completed evaluation of level instrument options to provide additional instrumentation at Gate 7 to allow for the development of a FUG equation when flow meters are out of service or invalid.
 - Replaced the FIT 830 flow meter immediately downstream of Gate 7 with a level sensor.
- Completed survey of the MDS and implemented additional routine maintenance procedures for instrumentation at the MDS and Southern Outfall Retention (SOR1) facilities to improve the reliability of RTC data.
- Continued monitoring the real time validation routine for level instrumentation at the MDS and SOR1 facilities and developed recommendations for additional sites for deployment of the routine.
- Performed a detailed analysis of programming and actuator settings for the SOR1 facility, then implemented controls and programming revisions to reduce gate cycling and improve storage control.
- Corrected programming inconsistencies that would cause a critical alarm associated with a regulator dysfunction at Logan CSO Basin and the Southwestern Parkway CSO Basin due to interceptor surcharging.
- Corrected programming at the Portland CSO Basin to ensure the site follows RTC setpoint inputs.
- Continued evaluating requirements for the installation of level sensors to improve monitoring of the Southwestern outfall and the Nightingale Pump Station Force Main discharge to the Manning Road sewer.
- Continued design of improvements to the Southwest Outfall Retention #1 (SWOR1) facility to enable increasing the maximum level setpoint.
- Continued work on an emergency project to replace SWOR1 gates to improve operational reliability and controls at the facility.
- Began construction of the Sneads Branch Pump Station Elimination Project to allow gravity dewatering to the Logan CSO Basin.

- Made temporary improvements to the bar screen rake control of the Portland Basin diversion structure to improve basin utilization and reduce related CSO volume.

FY25 Reporting Period

- Finalize the integration of the Rowan Pump Station into RTC and monitor to compete tuning of the control loops and control logics. Design permanent improvements to the bar screen rake system of the Portland Basin diversion structure.
- Modify gate controllers at the Southwestern Parkway CSO Basin for Gates 3 & 7 to use the improved FUG calculation, and replace FIT 820 downstream of Gate 3.
- Complete the installation of new gates at the SWOR1 facility.

3.3. NMC 3: REVIEW AND MODIFICATION OF PRETREATMENT REQUIREMENTS

Recurring Programmatic Activities

- Completed FY24 NMC 3 Trunk Sewer Water Quality Data Collection in September 2023. Finalized pollutants of concern (POCs) and trunkline sewer data (contributory to CSOs) for FY24 Dry Weather Sampling Result Report. Reviewed and evaluated FY24 trunk sewer data against prior trunk sewer data to determine if changes in pollutants warrant review of contributory Non-Domestic Dischargers (NDDs). Reviewed NDDs (based on historical data) to identify those that may be removed from the program, as well as any that may need to be added. Determined POCs and trunkline sewer (contributory to CSOs) dry weather sampling strategy for FY25. Prepared a report to document the findings and recommendations resulting from sampling efforts.
- Tracked performance measures to quantify the effectiveness of voluntary controls during wet weather events. The pollutant loading kept out of the CSS per typical rain event in previous fiscal years has been quantified with the data from the wet weather logs submitted by NDDs and is shown in Table 3.4. The typical results of pollutants kept out of the CSS when all NDDs participate are presented in Table 3.4, quantified based on the actual rain events when NDDs detained their flow or otherwise reduced their discharge. In Table 3.4, mass is based on typical concentrations for each industry and the reported volume kept out of CSS during each rain event.
- Sent wet weather alerts to NDDs of concern prior to rain events, reminding them of their commitment to implement voluntary controls during wet weather events. During this reporting period, the MSD service area experienced 58 measurable rain events and 32 events with only trace rainfall. MSD sent email notices to NDDs 31 times prior to precipitation events. The email notices contain information regarding precipitation expected for a seven-day period. There are currently nine NDDs that voluntarily implement controls during

Table 3.4. Voluntary Controls During Wet Weather Events

PERFORMANCE MEASURE	NUMBER OF NDDs PARTICIPATING	NUMBER OF WET WEATHER DAYS	VOLUME (GAL)	BOD (LBS)	TSS (LBS)
Typical Pollutants Kept Out of the CSS Per Rain Event	9	N/A	487,000	2,800	1,780
Total Quantity FY24	9	58	19,860,000	106,900	89,200

wet weather by alternating their cleaning schedule and/or by storing wastewater during a rain event.

- Included specific NMC 3-related language, as appropriate, in new and reissued wastewater discharge permits to facilities located in the CSS, as well as in all Unusual Discharge Requests (UDRs) approved for discharge to the CSS. MSD reissued 17 wastewater discharge permits to users discharging to or immediately

upstream of the CSS. There were 16 UDRs processed for discharges to Morris Forman WQTC in FY24. The UDRs included 11 locations in the CSS and 5 locations in the SSS, of which 5 locations in the SSS ultimately discharge to Morris Forman WQTC. To avoid the risk of an overflow occurring, UDR permits contain standard condition requirements which restrict discharges into the collection system when wet weather conditions are expected.

- Included hold and release requirements in permits for all new industrial users in the combined sewer system and for existing industrial customers that expand production in the combined sewer system. The volume and duration of each hold and release requirement were determined through use of MSD's hydraulic model. MSD applied hold and release requirements to five permits during the reporting period. MSD also documented which permitted industries have 'hold and release' permit requirements.
- Sought out green infrastructure opportunities at NDDs discharging to the CSS and documented the permitted industries that use green infrastructure to reduce flow contributions during wet weather.
- Documented which NDDs have ceased operation during the reporting period and quantify the impact/reduction on CSS operation.
- Conducted staff training on implementation of the NMC 3 program.
- Conducted two NMC 3 site inspections this reporting period at Industrial User facilities not currently in the formal NMC 3 program as part of the initial permitting or permit renewal process. These facilities were found to have little to no impact during rain events. MSD elected not to request implementation of voluntary controls by these facilities at this time because of the limited benefit to be gained. MSD heightened the understanding of the CSS operation during wet weather for these industries during the inspections.
- Conducted two NMC 3 site inspections this reporting period at NDD facilities as part of the permit renewal process.
- Discussed NMC 3 program participation at each annual site inspection for Industrial Users who are currently in the NMC 3 program.
- Reviewed improvements made to the combined sewer system infrastructure and their potential impact on the NMC 3 program. Considered updated flows from the most recent calibrated hydraulic model. Some CSS improvements may result in changes to the ongoing NMC 3 program. Documented the changes and impacts in a memo to the file.

3.4. NMC 4: MAXIMIZATION OF FLOW AT THE MORRIS FORMAN WATER QUALITY TREATMENT CENTER (WQTC)

3.4.1. CAPITAL PROJECTS

NMC capital project schedules for the current and upcoming reporting periods are provided in Figure 3.3.

3.4.2. MORRIS FORMAN WQTC PERFORMANCE

- Continued to maximize flow to the Morris Forman WQTC. Charts that compare plant flow at the Morris Forman WQTC with the occurrence of CSOs at the MDS and the Southwestern PS are included in Appendix K. As described in Appendix B, reporting for CSO015 and CSO191 have been merged to align with their combined outfall point. In Appendix K, overflows at CSO191 are included in the CSO occurrence reporting for CSO015. Refer to Figure 3.1 for the locations of the CSOs closest to Morris Forman WQTC.

- Morris Forman WQTC experienced plant violations throughout the reporting period due to work being performed to upgrade solids handling equipment and the limited availability of alternate solids disposal. Morris Forman WQTC compliance from FY19 through the current reporting period is included in Table 3.5. Permit compliance details for Morris Forman WQTC for the current reporting period are shown in Table 3.6, 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 and Hite Creek WQTC in an effort to meet permit requirements. The following in progress construction projects are critical to MSD working towards Morris Forman WQTC achieving permit compliance:

Figure 3.1. CSO Locations Relative to Morris Forman WQTC



- Two (2) replacement rotary drum dryers for solids handling (production of Louisville Green)
 - Rehabilitation of the Primary Sedimentation Basins. This project will improve control of flow through primary treatment to improve Total Suspended Solids (TSS) and BOD removal.
 - Thermal Hydrolysis Process (THP) has started. This will update MSD biosolids processing, minimizing the need to landfill solids, producing a Class A biosolid.
 - Design is almost complete for Dissolved Air Flotation Thickening (DAFT) upgrades. This will improve the waste activated sludge (WAS) process which will be integral to the success of Dryers and THP.
- The Final Effluent PS was in service 102 days during the reporting period.

3.4.3. WET WEATHER CAPTURE

Figure 3.2 graphs annual average flow, base flow and wet weather capture for treatment at Morris Forman WQTC. The wet weather capture is the difference between the annual average flow treated and the base wastewater flow (defined in state regulations as the lowest monthly average day flow during the calendar year). Overall, the long-term base flow trend is decreasing; however, CY2024 (through June 30) shows an increase



Table 3.5. Morris Forman WQTC Permit Compliance

FY	EXCEEDANCES	MONTHS COMPLIANT
FY20	69	0
FY21	60	1
FY22	77	0
FY23	88	0
FY24	92	0

in base flow compared to CY2020. Until the last couple of years, MSD had a trend of increasing wet weather capture for treatment. Recent system failures along with major capital construction projects at Morris Forman WQTC have impacted the maximum flow rate at Morris Forman WQTC, resulting in decreased wet weather capture during peak flow events. The overall increasing trend in wet weather capture is largely attributed to a combination of capital improvements within the Morris Forman WQTC service area, implementation of RTC facilities in the CSS, and construction and integration of CSO control basins into the RTC system.

This WQTC has experienced failures of major equipment or components resulting in a decrease in peak wet weather capacity over portions of the past several years. Although the instantaneous peak hydraulic capacity of the Morris Forman WQTC is 350 MGD, the sustained flow that can be treated on a daily basis is governed by a number of other factors, including the performance of the biological treatment processes. Numerous improvements and system replacements have occurred or are ongoing to restore the peak capacity and improve reliability. The most significant impact to peak flow is the ongoing Sedimentation Basin Rehabilitation Project which currently has two of the four Sedimentation Basins out of service. While individual years are highly vari-

Figure 3.2. Morris Forman WQTC Wet Weather Capture Trend

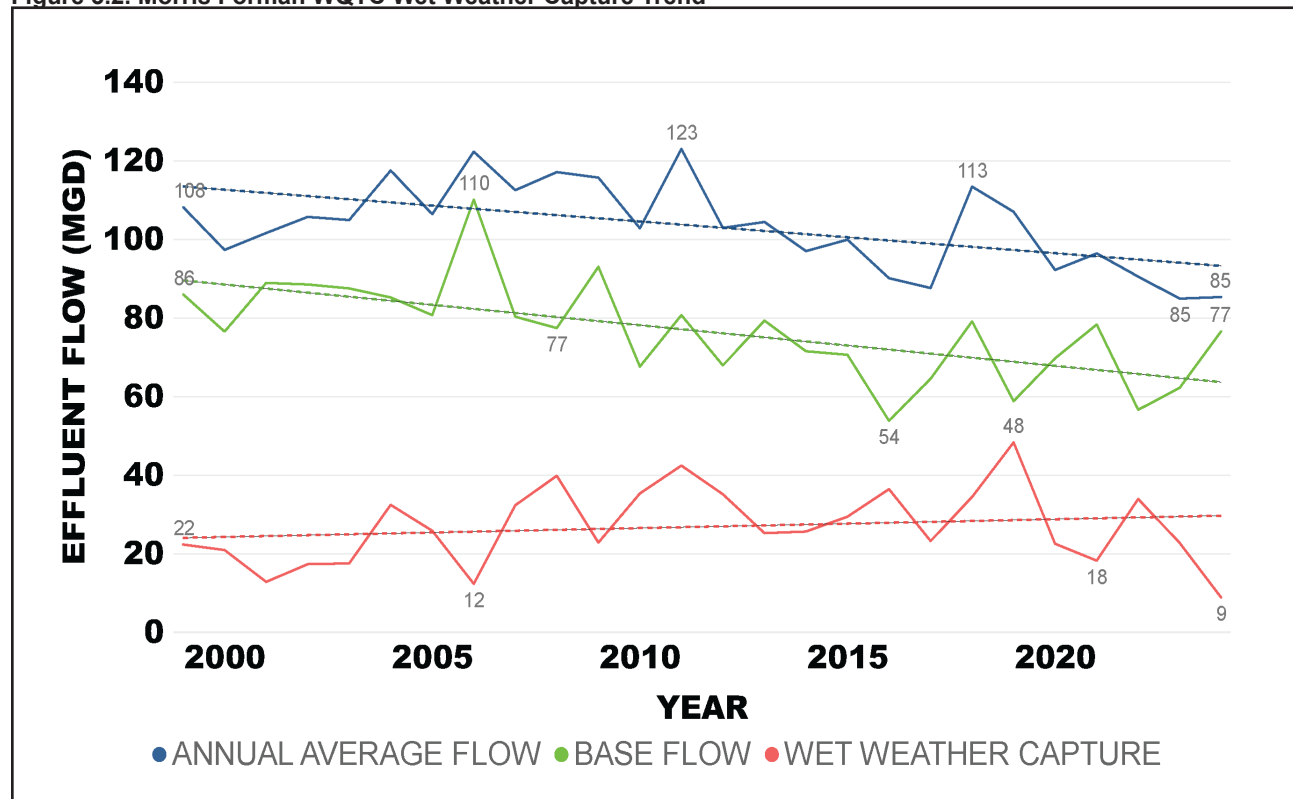




Table 3.6. Morris Forman WQTC Permit Compliance Details

PARAMETER	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APRIL	MAY	JUNE
Ammonia Nitrogen, 30 Day Secondary Effluent	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Ammonia Nitrogen, 7 Day Secondary Effluent	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
BOD, 30 Day Secondary Effluent	x	x	x	x	x	x	x	x	x	x	x	x
BOD, 7 Day Secondary Effluent	x	x	x	x	x	x	x	x	x	x	x	x
BOD, Percent Removal	x	x	x	x	x	x	x	x	x	x	x	x
Chlorine, Residual	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Dissolved Oxygen	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Fecal Coliform, 30 Day Geomean	⊙	x	x	x	x	x	⊙	x	x	⊙	x	x
Fecal Coliform, 7 Day Geomean	x	x	x	x	x	x	⊙	x	x	⊙	x	x
pH	⊙	⊙	x	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
TSS, 30 Day Secondary Effluent	x	x	x	x	x	x	x	x	x	x	x	x
TSS, 7 Day Effluent	x	x	x	x	x	x	x	x	x	x	x	x
TSS, Percent Removal	x	x	x	x	x	x	x	x	x	x	x	x

able due to weather impacts, significant performance improvements have been realized through implementation of the revised wet weather SOP and better wet weather process control at Morris Forman WQTC. These improvements will be enhanced with the Sedimentation Basin Rehabilitation Project.

3.5. NMC 5: ELIMINATION OF COMBINED SEWER OVERFLOWS DURING DRY WEATHER

Recurring Programmatic Activities

- Maintained the U.S. Army Corps of Engineers (USACE) Flood Operations and Maintenance Manual, updating as needed to reflect changes in operations that have occurred with the IOAP projects and operational SOP improvements. Implemented additional operational modifications at Flood Pump Stations (FPS) within the CSS to prevent dry weather overflows. Discussions with the USACE are ongoing regarding proposed modifications to these pumping stations that will minimize dry weather CSOs due to high river levels. This will be an ongoing annual task until all the projects in the IOAP are completed and an ongoing task as NMC programmatic activities are completed.
- Performed quarterly evaluations of dry weather unauthorized discharges to the Waters of the United States (WUS), with emphasis on the CSS, to determine causes and to determine if there is a need for corrective activities, when and where applicable.
- Performed inspection and cleaning of fats, oils and grease (FOG) Focus Areas within the CSS, in accordance with Capacity Management, Operations and Maintenance (CMOM) commitments. Refer to Section 4.1.2.4 for further information regarding MSD's FOG program
- Maintained SOPs for the FPSs, updating as needed to reflect ongoing operational changes that occur as capital projects and NMC programmatic activities are completed.
- Maintained weir heights, diversion structures, and gates at levels necessary to divert potential dry weather flow to structures such as the Waterway Protection Tunnel and CSO basins. From these structures, dry weather flow is able to be pumped back into the combined sewer system for treatment. FPS, flood gates, and SCADA are inspected, and all SORP guidelines and reporting requirements are followed in the case of a dry weather discharge.

3.6. NMC 6: CONTROL OF SOLIDS AND FLOATABLE MATERIALS IN COMBINED SEWER OVERFLOWS

Recurring Programmatic Activities

- Refer to Section 3.1 for information regarding inspection and maintenance procedures for the S&F structures as part of the weekly CSO inspections and PM cleaning routines.
- Administered S&F control operations and maintenance training to appropriate staff.
- Performed hydraulic assessment of S&F controls to determine where the current S&F system can be updated. This will be an ongoing activity until S&F controls at each CSO have been evaluated.
- Worked with staff to determine the quantity of debris and floatables captured by catch basin cleaning, at the Headworks of the Morris Forman WQTC, and at the end of line S&F controls. Reports have been developed to capture the amount of material removed through catch basin cleaning and at the end of the line S&F controls. Results for the reporting period are shown in Table 3.7.

FY24 Reporting Period

- Developed a revised process to track S&F removal at CSO basins.

3.7. NMC 7: POLLUTION PREVENTION PROGRAMS TO REDUCE CONTAMINANTS IN COMBINED SEWER OVERFLOWS

Recurring Programmatic Activities

Table 3.7. Debris Removed from System

SOURCE	DEBRIS REMOVED (TONS)
Catch Basin & Sewer Cleaning	19,417.3
Morris Forman WQTC Headworks	1,437.2

- Administered the Erosion Prevention and Sediment Control (EPSC) Ordinance. Utilized a tracking system for EPSC Notices of Violation (NOVs) and Field Correction Notices (FCNs) within the CSS.
- Administered the Hazardous Materials Ordinance, which requires users with hazardous materials on site to submit a spill prevention and control plan. Responded to spills of hazardous materials and incidents involving discharges to the sewer system and provided spill mitigation kits to the Louisville Metro Fire Department to use to absorb vehicle fluids rather than flushing to the sewer.
- Issued Wastewater Discharge Permits under the Industrial Pretreatment Program.
- Distributed literature and an annual newsletter to significant industrial users (SIUs) on best management practices for prevention of pollution.
- Promoted and provided guidance on Green Infrastructure initiatives within Jefferson County, such as down-spout disconnection and rain garden installation.
- Prepared and distributed informational pieces, targeted to inform customers and residents on activities that can be practiced within their homes to assist in the reduction of overflows within the collections system.
- Maintained post-construction Best Management Practice (BMP) tracking in IPS.
- Discussed water quality topics with students, including what impacts the CSS can have on receiving waterways, and how they can improve water quality through behavior change.
- Hosted summer works students at MSD facilities where they received a water quality certification for Post Construction and Green Infrastructure training they received.
- Distributed the Industrial Waste Department newsletter to all 235 industrial contacts which included MSD's Board approval for the Enforcement Response Plan, HMPC inspections, CROMERR submittal to the EPA, PFAS/PFOA update and implementation of Unusual Discharge Request fees.
- Trained on Stormwater Pollution Prevention Plans (SWPPPs) for the WQTCs and the Central Maintenance Facility (CMF).
- Conducted watershed planning efforts for Jefferson County.
- Coordinated, planned, and hosted trash pick-up, tree planting, outreach, and rain garden events as described in Table 6.1, Table 6.3, Table 6.4, and Table 6.5.

FY25 Reporting Period

- Complete updates to the EPSC Plan Review Training and convert the course to an online format. This certification is available for all plan preparers but is required for EPSC plan preparers who are not licensed professional engineers. The certification is also required for MSD Engineering Technicians, Associate Engineers, and Engineer Is.

3.8. NMC 8: PUBLIC NOTIFICATION

Refer to Section 6: Program Activities for Public Outreach, Education, Notification and Participation for information regarding public notification.

3.9. NMC 9: MONITORING TO CHARACTERIZE COMBINED SEWER OVERFLOW IMPACTS AND THE EFFICACY OF COMBINED SEWER OVERFLOW CONTROLS

Refer to Section 2.5 for information regarding system monitoring.

3.10. NMC ACTIVITY SCHEDULE

A Gantt chart including progress of NMC projects during the reporting period can be found in Figure 3.3.



Figure 3.3. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	Timeline							
					2nd Half Qtr 3	1st Half Qtr 1	2nd Half Qtr 2	1st Half Qtr 4	2nd Half Qtr 3	1st Half Qtr 1	2nd Half Qtr 2	1st Half Qtr 4
	MSD NMC Commitments Schedule	71%	Wed 11/12/14	Thu 5/30/30								
A22183	15th St Emergency Sewer Repair	100%	Thu 3/3/22	Tue 7/30/24								
A22183	CONSTRUCTION	100%	Tue 3/8/22	Sun 6/30/24								
A22183	CLOSEOUT	100%	Sun 6/30/24	Tue 7/30/24								
A24060	Campbell St Lining Emergency Projects	70%	Sat 7/15/23	Sat 12/14/24								
A24060	INITIATION & PROCUREMENT	100%	Sat 7/15/23	Sat 7/15/23								
A24060	DESIGN PERIOD	100%	Sat 7/15/23	Sat 7/15/23								
A24060	CONSTRUCTION	100%	Sat 7/15/23	Fri 12/15/23								
A24060	CLOSEOUT	58%	Fri 12/15/23	Sat 12/14/24								
A24069	Jackson St Sewer Repl Em Cont 2024-001	57%	Thu 3/3/22	Wed 4/2/25								
A24069	INITIATION & PROCUREMENT	100%	Thu 3/3/22	Tue 3/8/22								
A24069	CONSTRUCTION	100%	Thu 7/6/23	Tue 4/2/24								
A24069	CLOSEOUT	39%	Tue 4/2/24	Wed 4/2/25								
A24132	Southwestern CSO Basin Bar Screen Replacement	13%	Wed 11/1/23	Sun 10/12/25								
A24132	INITIATION & PROCUREMENT	100%	Wed 11/1/23	Tue 11/7/23								
A24132	DESIGN	100%	Mon 3/11/24	Tue 3/26/24								
A24132	CONSTRUCTION	46%	Mon 6/10/24	Fri 9/27/24								
A24132	CLOSEOUT	0%	Fri 9/27/24	Sun 10/12/25								
A24176	Hancock St Sewer Emergency Repair	9%	Mon 5/1/23	Sun 1/11/26								
A24176	DESIGN	100%	Fri 3/8/24	Fri 3/8/24								
A24176	CONSTRUCTION	32%	Mon 7/15/24	Thu 12/12/24								
A24176	CLOSEOUT	0%	Thu 12/12/24	Sun 1/11/26								
C24014	Park DuVall Catch Basin Rehab Project Phase 2	100%	Sat 7/1/23	Sat 5/31/25								
C24014	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
C24014	DESIGN	100%	Sat 7/1/23	Tue 9/19/23								
C24014	CONSTRUCTION	100%	Wed 11/1/23	Fri 5/31/24								
C24014	CLOSEOUT	100%	Fri 5/31/24	Sat 5/31/25								
C24100	Executive Inn Basin Enhancements	100%	Tue 8/1/23	Wed 11/1/23								
C24100	INITIATION & PROCUREMENT	100%	Tue 8/1/23	Tue 8/1/23								
C24100	ENHANCEMENT PERIOD	100%	Mon 8/28/23	Tue 10/17/23								
C24100	CLOSEOUT	100%	Mon 10/2/23	Wed 11/1/23								

Data Date: 9/17/24

NMC Project

Project Progress

Percent complete is calculated based on phase duration.

Figure 3.3. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		2nd Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
D19286	SWPS Gas Monitoring and SP1 Odor Control	73%	Wed 5/15/19	Wed 10/22/25								
D19286	CONSTRUCTION	100%	Mon 6/27/22	Thu 4/4/24								
D19286	CLOSEOUT	25%	Fri 4/5/24	Wed 10/22/25								
D20007	Peabody Gate Structure Rehabilitation	52%	Mon 7/4/22	Wed 12/31/25								
D20007	ASSESSMENT PERIOD	100%	Sat 10/1/22	Tue 10/24/23								
D20007	CONSTRUCTION	70%	Tue 11/21/23	Tue 12/31/24								
D20007	CLOSEOUT	0%	Tue 12/31/24	Wed 12/31/25								
D20012	SGC RTC Enhancements	52%	Tue 11/19/19	Sun 12/26/27								
D20012	DESIGN	76%	Tue 2/18/20	Sat 6/14/25								
D20223	Bells Lane WWTF Polymer Dosing System Updates	100%	Mon 11/4/19	Wed 5/1/24								
D20223	CLOSEOUT	100%	Tue 11/1/22	Wed 5/1/24								
D20224	Bells Lane Disinfection System Upgrades	100%	Tue 7/23/19	Mon 4/29/24								
D20224	CLOSEOUT	100%	Wed 11/16/22	Mon 4/29/24								
D20285	MFWQTC LG Dryer Replacements	88%	Mon 12/2/19	Sat 4/12/25								
D20285	CONSTRUCTION	100%	Fri 12/6/19	Fri 4/12/24								
D20285	CLOSEOUT	59%	Mon 6/27/22	Sat 4/12/25								
D21021	FY24 MFWQTC Equipment RR	100%	Sat 7/1/23	Sun 6/30/24								
D21021	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
D21021	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
D21021	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
D21041	FY25 MFWQTC Equipment RR	23%	Mon 7/1/24	Wed 7/30/25								
D21041	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
D21041	SERVICE PERIOD	25%	Mon 7/1/24	Mon 6/30/25								
D21041	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25								
D21063	Odor Management Plan	63%	Wed 7/1/20	Mon 6/30/25								
D21063	CLOSEOUT	63%	Wed 6/16/21	Mon 6/30/25								
D21239	MFWQTC Groundwater Wells Assistance	100%	Tue 5/18/21	Sun 7/30/23								
D21239	CLOSEOUT	100%	Fri 6/30/23	Sun 7/30/23								
D21247	MFWQTC MEB HVAC Replacement	64%	Tue 6/15/21	Tue 3/31/26								
D21247	CONSTRUCTION	73%	Wed 11/16/22	Mon 3/31/25								
D21247	CLOSEOUT	0%	Mon 3/31/25	Tue 3/31/26								

Data Date: 9/17/24

NMC Project

Project Progress

Percent complete is calculated based on phase duration.

Figure 3.3. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half					
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2		
D24169	Collection System Foul Air Extraction Study	75%	Mon 3/4/24	Wed 10/30/24										
D24169	INITIATION & PROCUREMENT	100%	Mon 3/4/24	Mon 3/4/24										
D24169	DESIGN	100%	Mon 3/4/24	Mon 3/4/24										
D24169	STUDY PERIOD	86%	Tue 3/5/24	Mon 9/30/24										
D24169	CLOSEOUT	0%	Mon 9/30/24	Wed 10/30/24										
D24170	Clay Street Emergency Sewer Repair	44%	Fri 3/15/24	Thu 5/15/25										
D24170	INITIATION & PROCUREMENT	100%	Fri 3/15/24	Fri 3/15/24										
D24170	DESIGN	100%	Fri 3/15/24	Fri 3/15/24										
D24170	CONSTRUCTION	100%	Sat 3/16/24	Wed 5/15/24										
D24170	CLOSEOUT	35%	Wed 5/15/24	Thu 5/15/25										
D24187	North Gait Avenue Sewer Replacement	7%	Mon 7/1/24	Sun 8/23/26										
D24187	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24										
D24187	DESIGN	32%	Wed 7/10/24	Tue 1/21/25										
D24187	CONSTRUCTION	0%	Sat 3/22/25	Sat 8/23/25										
D25051	MFWQTC Renewable Natural Gas	0%	Mon 7/1/24	Mon 7/14/25										
D25051	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sat 9/28/24										
D25051	DESIGN	0%	Mon 7/1/24	Mon 7/14/25										
D25051	CLOSEOUT	0%	Sat 9/28/24	Mon 7/14/25										
E21049	FY25 NMC RTC	23%	Fri 5/16/25	Mon 6/30/25										
E21049	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Wed 7/30/25										
E21049	SERVICE PERIOD	25%	Mon 7/1/24	Mon 7/1/24										
E21049	CLOSEOUT	0%	Mon 6/30/25	Mon 6/30/25										
E22116	South Shelby St. Sanitary Sewer Improvements	63%	Mon 11/8/21	Wed 7/30/25										
E22116	DESIGN	97%	Thu 9/8/22	Sat 8/15/26										
E22116	EASEMENTS/LAND ACQUISITION	100%	Mon 3/20/23	Tue 9/24/24										
E22116	CONSTRUCTION	0%	Mon 11/18/24	Fri 5/3/24										
E22116	CLOSEOUT	0%	Sat 5/17/25	Sat 5/17/25										
E23172	Liberty Street Emergency Sewer Repair	100%	Thu 1/26/23	Sat 8/15/26										
E23172	CONSTRUCTION	100%	Fri 1/27/23	Sat 9/14/24										
E23172	CLOSEOUT	100%	Fri 9/15/23	Fri 9/15/23										

Data Date: 9/17/24

NMC Project

Project Progress

Percent complete is calculated based on phase duration.

Figure 3.3. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		2nd Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
E24066	Taylor Boulevard RTC Vault Decommissioning	100%	Mon 7/31/23	Wed 8/28/24								
E24066	INITIATION & PROCUREMENT	100%	Mon 7/31/23	Fri 8/4/23								
E24066	DESIGN	100%	Mon 8/7/23	Mon 8/21/23								
E24066	CONSTRUCTION	100%	Fri 8/25/23	Tue 8/29/23								
E24066	CLOSEOUT	100%	Tue 8/29/23	Wed 8/28/24								
E24190	Brown School Sewer Repair	23%	Mon 6/3/24	Sun 8/3/25								
E24190	INITIATION & PROCUREMENT	100%	Mon 6/3/24	Mon 6/3/24								
E24190	DESIGN	100%	Mon 6/3/24	Mon 6/3/24								
E24190	CONSTRUCTION	100%	Tue 6/4/24	Sat 8/3/24								
E24190	CLOSEOUT	12%	Sat 8/3/24	Sun 8/3/25								
E25065	Inflatable Dam Replacement - SWOR2, MDS, Sneads Br	0%	Mon 7/1/24	Sun 5/16/27								
E25065	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sat 9/28/24								
E25065	DESIGN	0%	Sun 6/1/25	Sun 12/14/25								
E25116	Belle of Louisville Force Main Replacement	3%	Mon 7/1/24	Mon 11/3/25								
E25116	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 8/5/24								
E25116	DESIGN	100%	Mon 8/5/24	Tue 8/20/24								
E25116	CONSTRUCTION	0%	Fri 10/4/24	Sun 11/3/24								
E25116	CLOSEOUT	0%	Sun 11/3/24	Mon 11/3/25								
F15010	Gate 102 Replacement	92%	Fri 1/8/16	Wed 12/18/24								
F15010	CONSTRUCTION	100%	Fri 3/19/21	Sat 11/18/23								
F15010	CLOSEOUT	73%	Sun 11/19/23	Wed 12/18/24								
F22210	Gate 30 Replacement	81%	Fri 7/1/22	Fri 2/28/25								
F22210	CONSTRUCTION	100%	Sun 11/6/22	Tue 1/30/24								
F22210	CLOSEOUT	57%	Tue 1/30/24	Fri 2/28/25								
F23052	Flood Gate 114 Replacement	49%	Mon 10/3/22	Thu 8/13/26								
F23052	DESIGN	99%	Fri 6/30/23	Wed 8/14/24								
F23052	CONSTRUCTION	0%	Sun 10/13/24	Wed 8/13/25								
F24062	Starkey PS Hydraulic Actuator Replacement	40%	Sat 7/15/23	Tue 12/2/25								
F24062	DESIGN	100%	Sat 7/15/23	Thu 11/2/23								
F24062	CONSTRUCTION	72%	Tue 1/2/24	Mon 12/2/24								
F24062	CLOSEOUT	0%	Mon 12/2/24	Tue 12/2/25								

Data Date: 9/17/24

NMC Project

Project Progress

Percent complete is calculated based on phase duration.



Figure 3.3. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half					
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2		
H23016	California Neighborhood Trap Catch Basin Rehab	100%	Fri 7/1/22	Thu 11/28/24										
H23016	CONSTRUCTION	100%	Mon 1/16/23	Thu 8/31/23										
H23016	CLOSEOUT	100%	Thu 8/31/23	Thu 11/28/24										
H23147	MFWQTC Planning Assistance	58%	Thu 1/26/23	Mon 6/30/25										
H23147	SERVICE PERIOD	59%	Wed 2/1/23	Mon 6/30/25										
H23147	CLOSEOUT	0%	Sun 6/15/25	Mon 6/30/25										
H23175	California Maple St Trap Catch Basin Rehab	40%	Tue 2/7/23	Tue 8/18/26										
H23175	INITIATION & PROCUREMENT	100%	Tue 2/7/23	Thu 7/11/24										
H23175	DESIGN	0%	Sun 9/1/24	Thu 10/17/24										
H23175	CONSTRUCTION	0%	Sat 11/16/24	Mon 8/18/25										
H23179	CSO 140 Outfall Reconstruction	61%	Wed 3/1/23	Fri 7/25/25										
H23179	DESIGN	100%	Wed 3/1/23	Mon 10/16/23										
H23179	CONSTRUCTION	100%	Mon 12/11/23	Fri 8/16/24										
H23179	CLOSEOUT	22%	Sat 6/8/24	Fri 7/25/25										
H24120	Rowan Pump Station – Air Scour System	34%	Mon 10/2/23	Tue 11/4/25										
H24120	INITIATION & PROCUREMENT	100%	Mon 10/2/23	Fri 12/1/23										
H24120	DESIGN	100%	Sat 12/2/23	Tue 12/19/23										
H24120	CONSTRUCTION	77%	Mon 1/15/24	Mon 11/4/24										
H24120	CLOSEOUT	0%	Mon 11/4/24	Tue 11/4/25										
H25031	Neighborhood Odor Control Catch Basin Inspections	0%	Mon 7/1/24	Mon 6/30/25										
H25031	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24										
H25031	SERVICE PERIOD	0%	Mon 7/1/24	Sat 5/31/25										
H25031	CLOSEOUT	0%	Sat 5/31/25	Mon 6/30/25										
H25032	Chickasaw Trap Catch Basin Rehab	4%	Mon 7/1/24	Mon 8/3/26										
H25032	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24										
H25032	DESIGN	50%	Mon 7/1/24	Sun 12/1/24										
H25032	CONSTRUCTION	0%	Sun 12/15/24	Sun 8/3/25										
H25039	ORFM Odor Mitigation Study	0%	Mon 7/1/24	Mon 6/30/25										
H25039	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sat 9/28/24										
H25039	DESIGN (Study Phase)	0%	Sat 9/28/24	Fri 5/30/25										
H25039	CLOSEOUT	0%	Fri 5/30/25	Mon 6/30/25										

Data Date: 9/17/24

NMC Project

Project Progress

Percent complete is calculated based on phase duration.

SECTION 4: PROGRAM ACTIVITIES FOR CAPACITY MANAGEMENT, OPERATIONS AND MAINTENANCE

Per Paragraph 37.b. of the 2ACD, the CMOM Self-Assessment Report was approved by the KDEP/EPA on August 21, 2006. The approved document can be viewed on the MSD 2ACD website, msdprojectwin.org. Highlights of CMOM program implementation are outlined below.

4.1. CAPACITY MANAGEMENT OPERATIONS AND MAINTENANCE PROGRAM ACTIVITIES

4.1.1. MANAGEMENT PROGRAMS

4.1.1.1. TABLE OF ORGANIZATION

M-A-1 Organizational Chart

The Louisville MSD Organizational Chart is updated every quarter. See Appendix L for the latest version.

M-A-2 Relationship to Other Departments

Recurring Programmatic Activities

- Hired qualified staff to fill vacant positions, including specialty and senior/mid/upper management positions critical to the success of the 2ACD.
- Carried 801.5 approved positions at the beginning of the reporting period and 864 approved positions at the end of the reporting period. This is an increase of 62.5 positions. 0.5 represents a part-time position.
- Carried 107 vacant positions at the beginning of the reporting period and 111 vacant positions at the end of the reporting period.

4.1.1.2. TRAINING PROGRAMS

This section describes MSD's Training Programs. The goal of this program is to ensure employee growth and workplace safety through mandatory training (both initial and ongoing), conference and seminar attendance, certification, accurate record keeping of employee training, and incentives such as pay, promotions and ability to work. All training programs promote MSD's fundamental mission, goals, and policies.

M-B-1 Technical Training

M-B-2 Skills Training

M-B-3 Safety Training

Recurring Programmatic Activities

- Developed competent and capable employees through technical and skills training related to job duties.
- Conducted training for the current reporting period as summarized in Table 4.1, where the session column totals the occurrences of training sessions, and the hours column sums the amount of time for the sessions.
 - Conducted Administrative Training sessions including such topics as New Employee Orientation, Leadership, Records Retention, Crew Management, Supplier Diversity Procurement Procedures, and Ethics.
 - Conducted Collections System Training sessions including such topics as Sewer Overflow Response Protocol, Erosion Prevention & Sedimentation Control, Stormwater Pollution Prevention Plans (SWPPP) Training, Combined Sewer Overflow (CSO) & Siphon Preventative Maintenance, Sewer Cleaning, and Construction Blueprints.

- Conducted Equipment Training primarily including heavy equipment that enables employees to maintain and operate the collections system, pump stations and treatment plants. Examples include training on mini-excavators, sewer cleaners, cranes, forklifts and backhoes.
- Conducted Reporting Training sessions including such topics as PowerBI, Telog, Budget Software and eB basics.
- Conducted Safety Training in such areas as Traffic Control, Hearing Protection, Confined Space Entry, Blood Borne Pathogens, Hazmat, Lock Out/Tag Out, and Competent Person training for trenching and excavation. Further information about Safety Training activities can be found in Section 4.1.1.3.
- Conducted Wastewater Operations Training focusing on knowledge and skills related to wastewater treatment process and control, including sampling, Louisville Green Management System training, and Wastewater Lab Certification Preparation.

Table 4.1. Training Program

TRAINING TYPE	SESSIONS CONDUCTED	TRAINING HOURS CONDUCTED
Administrative	1423	1328
Collections System	426	436
Equipment	505	1542
Reporting	86	90
Safety	787	749
Wastewater Operations	338	384

- Implemented employee performance-based goals as a part of the annual appraisal process and utilized performance results to identify additional training needs.
- Maintained eLearning modules.
- Maintained the Utility Program, updating as needed to reflect current equipment and practices.

FY24 Reporting Period

- Established an apprenticeship program for maintenance mechanics and maintenance electricians. There are currently 10 mechanics and 5 electrician apprentices participating in this multi-year program.
- Established a Management Development Program with workshops including Emotional Intelligence, Communication, Accountability, and Coaching.
- Reestablished the Commercial Driver’s License (CDL) program in house, where previously it had been administered through Jefferson Community and Technical College. The program was streamlined and enhanced to meet the needs of employees and improve the success rate.
- Developed eLearning modules related to drum dryers, open records retention, and the new VARC policy.

FY25 Reporting Period

- Expand the electrician apprenticeship program to include an additional class.
- Expand the Management Development Program to include additional workshops and topics.
- Maintain the CDL Program.

4.1.1.3. SAFETY PROGRAMS

This section describes MSD's Safety Programs. The goal of this program is to eliminate on-the-job injuries. MSD's Safety Programs include safety committees, confined space entry procedures, district wide safety policies, traffic management, lock out/tag out procedures, and proper use of safety equipment.

M-C-1 Safety Committee

Recurring Programmatic Activities

- Conducted meetings with Safety Committees to perform inspections, review policies and incidents, and address safety concerns presented by safety committee members as needed. Safety Committees include representatives from across the Operations Division, including Treatment, Collections System, and Drainage and Flood Protection representatives. The Floodwall/Collections and Morris Forman WQTC Safety Committees meet monthly and the CMF/Main Office Safety Committee meets quarterly.
- Performed random job site inspections on Drainage/Sanitary crews and at Morris Forman WQTC. Inspected quarterly the operations of WQTCs and flood & viaduct pump stations.

FY24 Reporting Period

- Updated CMF and Main Office Safety Committee membership due to retirements and employee transfers.
- Implemented updated safety trainings in quarterly CMF/Main Office Safety Committee meetings.

FY25 Reporting Period

- Explore options for growing safety committee participation in operations.
- Update the monthly inspection checklist for safety committees and incorporate into Preventative Maintenance (PM).

M-C-2 Confined Space Entry

Recurring Programmatic Activities

- Utilized the Confined Space trainer to train employees on confined space entries under controllable conditions. This training occurs initially upon hire and annually for staff whose job requires confined space entry, or who work around confined spaces. Health and Safety personnel spot-check operations staff on confined space entries to maintain compliance with 29 CFR 1910.146..
- Maintained entry equipment and personal protective equipment to provide for safe entry conditions and to maintain compliance with 29 CFR 1910.146.
- Advised personnel on the purchase of multi-gas monitors to replace older models that will no longer be maintained or manufactured.
- Assessed confined space monitor calibration status and purchased calibration gas for the six calibration stations.
- Ensured that "Permit Required Confined Spaces" are properly labeled.
- Contracted with a vendor to conduct annual inspections on confined space entry equipment such as tripods, wenchers, and harnesses.

FY25 Reporting Period

- Perform district wide inspections on confined space equipment to ensure all equipment is being documented and inspected properly.
- Update confined space training to focus on the use of MX4 multi-gas monitors.

M-C-3 General Safety Procedures

Recurring Programmatic Activities

- Maintained safety procedures.
- Conducted annual Emergency Response Team (ERT) fire drills and tornado drills for employees at the Main Office, CMF and Morris Forman WQTC.
- Conducted annual fire extinguisher training for ERT members and union employees.
- Conducted annual audiograms pre-employment and annually for employees who are exposed to an 8-hour time weighted average of 85 decibels.
- Conducted annual training on the OSHA Hazardous Communications Standard with employees who have the potential to work with hazardous materials.
- Conducted annual 8-hour refresher training on hazardous materials for ERT members and employees who have the potential to respond to a hazmat spill or operation.
- Conducted Monthly Safety Day Training for union employees and staff with safety training requirements.
- Scheduled and conducted 40-hour HAZ-MAT Technician Level training for newly hired employees in the Treatment, Floodwall, Collections, Sampling and Monitoring, and Industrial Waste Discharge (IWD) departments.
- Required safety orientations with contractors to ensure compliance with MSD & KYOSHA regulations and promote a strong safety culture.
- Maintained the MSD Confined Space, Trenching, lock out/tag out (LOTO) and Fall Protection Safety Programs.
- Replaced current Safety Data Sheets in the MSDS Pro database with updated safety data sheets compliant with the Globally Harmonized System (GHS) standard. This occurs on an annual basis and as new chemicals are brought on site.

M-C-4 Traffic Management

Recurring Programmatic Activities

- Conducted traffic control training for employees in departments that work in or near traffic ways, including the Fleet, Collections, Treatment, Floodwall, IWD, Sampling and Monitoring, and Construction Inspectors Departments, to ensure continued compliance with MSD standards.
- Inspected traffic control equipment before use, and replaced as needed to ensure compliance with safety standards
- Conducted random traffic control audits of job sites in streets and roadways.

FY24 Reporting Period

- Researched and budgeted to purchase new traffic control signage to be used for traffic control on roadways.

FY25 Reporting Period

- Purchase and implement new traffic control equipment and signage to help with visibility when performing traffic control.
- Implement additional trainings related to the new traffic control equipment and signage for employees who conduct traffic control.

M-C-5 Lock Out/Tag Out

Recurring Programmatic Activities

- Maintained and communicated lock out/tag out (LOTO) procedures to Maintenance staff, Process Technicians, Electricians, and their supervisors/managers as required by the OSHA Control of Hazardous Energy standard.
- Maintained machine specific procedures. The SOPs are available to staff through IPS and eB for improved accessibility.

FY24 Reporting Period

- Updated LOTO procedures to ensure uniformity of locks/tags, address color coding of locks, include procedures for filling out tags, include lockbox procedures, and address when to use out of service locks instead of LOTO locks.
- Ordered new LOTO equipment to coordinate with the procedure changes.
- Trained staff at Morris Forman WQTC on new machine specific LOTO procedures.

FY25 Reporting Period

- Continue to train appropriate staff on new LOTO procedures .

M-C-6 Safety Equipment

Recurring Programmatic Activities

- Reviewed and provided required personal protective equipment to employees.
- Conducted NFPA 1852 required annual testing and maintenance for self-contained breathing apparatus respirators.
- Maintained safety related equipment, replacing equipment per governing policies or as the need arises.

FY24 Reporting Period

- Explored options for more comfortable safety equipment to maintain employee adherence to safety policies and procedures.
- Looked into making equipment purchases based on recommendations from the FY23 safety equipment exploration.
- Purchased 60 air monitoring devices.

FY25 Reporting Period

- Recommend the purchase of new Self-Contained Breathing Apparatus (SCBA) equipment due to life expectancy of old equipment.
- Implement new cut resistant gloves to prevent injuries to employees based on injury data

M-C-7 Performance Measures

Recurring Programmatic Activities

- Maintained compliance with OSHA standards.
- Conducted mandatory annual training for union employees on trench excavation safety, confined space, first aid, hazmat response and fire extinguisher usage.
- Maintained field inspections as discussed under M-C-1 Safety Committee to reduce the number of incidents.
- Improved compliance with NFPA 70E and the GHS standard as discussed under M-C-3 General Safety Procedures.
- Fostered a strong culture of workplace safety.
- Maintained safety / worker compensation performance measures for MSD employees during the current reporting period, as detailed in Table 4.2.
- Investigated injuries to ensure similar injuries can be prevented from reoccurring by PPE, administrative tactics, or engineering the hazard out to lower OSHA recordable injuries and Lost Time injuries.

Table 4.2. Safety Incidents and Worker Compensation Claims

PERFORMANCE MEASURE	RESULT
Days Worked (8 Hours)	167,019
Safety Incidents	83
Incidents per Days Worked	0.0005
Worker Comp Claims	35
Worker Comp Claims per Days Worked	0.0002
Days Off due to Work-Related Issues	75
Days Off due to Work-Related Issues per Days Worked	0.0004

4.1.1.4. UTILITY INFORMATION MANAGEMENT SYSTEMS

This section describes MSD’s Utility Information Management System. The goal of this program is to produce quality information regarding sewer system performance. MSD’s Utility Information Management System supports the following programs: management, operations, maintenance, complaint management, and performance indicators.

M-D-1 Management Information Management Systems

M-D-2 Operations Information Management Systems

M-D-3 Maintenance Information Management Systems

M-D-4 Complaint Management and Tracking Information Management Systems

M-D-5 Performance Indicators

Recurring Programmatic Activities

- Utilized a wide variety of software to operate the day-to-day business activities associated with wastewater collections, conveyance and treatments. The major Utility Information Management applications are shown in Table 4.3.
- Supported existing custom applications and 3rd party applications.
- Identified online submission opportunities for permitting and licensing processes in IPS.
- Maintained PowerBI dashboards, including performance metrics dashboards, for use across the organization.



FY24 Reporting Period

- Developed and deployed Power BI dashboards for use by Operations, Engineering, Human Resources, Finance, Records, and Safety.
- Completed LOJIC planimetric/topographic map updates for Jefferson, Oldham, Bullitt Counties.
- Deployed Project Activity Tracking, Enforcement Log, Erosion Prevention and Sediment Control (EPSC), and Bonds (PEEB) application as a SQL Server Reporting Services (SSRS) report, which allows users to filter the report data based on selection criteria.
- Completed digitization of Morris Forman WQTC daily equipment status tracking and reporting.
- Implemented a Single-Sign-On tied to employee’s network login information for the ALIM/eB systems.
- Migrated legacy SAP environment to S/4HANA which was a multi-year, enterprise-wide effort.
- Expanded use of IPS Field Inspector Mobile to regional treatment facilities, water quality monitoring, and routine sanitary and drainage cleaning activities.
- Completed a workforce upgrade of the employee time tracking system.
- Implemented mobile and web applications for recording, managing, and tracking vehicle accidents. As part of the digitization of this process, an integration was developed to automatically feed management PowerBI dashboards.
- Completed process development for Smell My City data to provide more visibility to odor complaints.
- Continued conversion and migration of existing applications to a single platform with backend as SQL server.
- Developed condition assessment asset inspection data collection method in IPS.
- Developed and implemented a formula in IPS to auto-generate recreational sampling work orders.
- Updated budget numbers on assets in IPS to aid profit center accounting.
- Added customizations to IPS assets to track consequence and likelihood of failure.
- Migrated GraniteNet Advanced to the cloud, enabling Artificial Intelligence (AI) coding capability for closed-circuit television (CCTV) inspections.

Table 4.3. Utility Information Management Applications

UTILITY INFORMATION MANAGEMENT (UIM) APPLICATIONS
AssetWorks
CC&B
Csoft 4
eB/Alim
EGIS
GIS
GPS
GraniteNet
InfoWorks
InfoWorks ICM
IPS
LabWorks
LINKO
Optimatics
PowerBI
SAP
SCADA
Sharepoint
Telog

FY25 Reporting Period

- Continue migrating custom applications from Oracle to an SQL Server. Upgrade to a new development platform.
- Upgrade eB/ALIM, which is MSD’s document and records management system.
- Upgrade time clocks throughout MSD facilities to continue with compliance for the new version of Workforce.

-
- Deploy Profit Center Account and Document Splitting in SAP to improve cost center reporting, with input from the Finance department.
 - Migrate capital budget management and tracking system from on-premise to a cloud-based solution.
 - Automate the capital program available funds report to improve the speed and accuracy of the report.
 - Work towards digitizing, automating, and improving the efficiency of the capital spares inventory management.
 - Create a pilot web application to allow the public to request and pay for purchases of custom maps and data from the Geographic Information System (GIS).
 - Create an interface to update/sync Active Directory with MSD employees and contractors' information.
 - Continue expansion of IPS Field Inspector Mobile within Operations.
 - Complete development of a condition assessment asset inspection in IPS.

4.1.1.5. ENGINEERING PROGRAMS

This section describes MSD's Engineering CMOM activities. The goal of this program is to maintain accurate plans of current sewer system infrastructure, oversee construction quality of new infrastructure, and conduct assessments to maximize the efficiency of current WQTCs. MSD's engineering programs include the following: collections and transmission system plans, system inventory, mapping, sewer system design, sewer construction, construction inspection, acquisition considerations, continuing sewer system assessment (CSSA), infrastructure rehabilitation, and a system capacity assurance plan (SCAP).

M-E-1 Collection and Transmission System Plans

M-E-2 System Inventory

M-E-3 Mapping

MSD has an extensive collection of record drawings of the sewer facilities dating back to 1874. In addition to the original record drawings, scanned images are stored in eB/Alim, MSD's records management system. Plans are scanned twice during a project life cycle – once when the project is approved for construction and a second time when the plans are made "as-built" after construction completion. After a set of plans has been constructed, the facilities are created in GIS and the attributes of the facilities are stored in a corresponding asset record in the IPS database. Map corrections are also obtained during asset inspection activities.

Recurring Programmatic Activities

- Scanned 403 proposed and as-built construction plan sets into the eB Imaging System this reporting period.
- Added and updated data in the GIS and asset management software programs based on new construction drawings and feedback from MSD field personnel. This reporting period, added 928 property service connection records and 12.26 miles of sewer assets.
- Updated the GIS sewershed layer as projects are completed to support SCAP implementation.
- Maintained routine audits and QA/QC methods to ensure data accuracy. Corrected 19 sewer errata during the current reporting period.

M-E-4 Sewer System Design

Recurring Programmatic Activities

- Maintained the MSD Design Manual, Standard Specifications, and Drawings.

-
- Provided AutoCAD templates, including AutoCAD 3D templates, on the MSD public website, for use by private firms as well as in-house design.

FY24 Reporting Period

- Developed a gap analysis as part of Phase I to update the MSD Design Manual, Standard Specifications, and Drawings.

FY25 Reporting Period

- Start Phase II of the revisions to the MSD Design Manual, Standard Specifications, and Drawings.

M-E-5 Sewer Construction

M-E-6 Construction Inspection

Recurring Programmatic Activities

- Utilized the design engineer as the engineer of record or resident project representative (RPR) on significant capital projects.
- Performed construction inspection activities in-house and supplemented with contract inspection as needed.
- Maintained the Construction Inspector Field Handbook.
- Held the Qualified Post-Construction Inspector (QPCI) training course, which includes a 4-hour training course and qualifying exam. All green infrastructure projects are required to submit an annual inspection by a QPCI to verify continued on-site stormwater management.

FY24 Reporting Period

- Reviewed and proposed revisions to the Construction Inspector Field Handbook in accordance with updates to the MSD Design Manual, Standard Specifications, and Drawings.

FY25 Reporting Period

- Continue review and revisions of the Construction Inspector Field Handbook.

M-E-7 Acquisition Considerations

Recurring Programmatic Activities

- Monitored expenditures related to professional services and construction.

FY24 Reporting Period

- Financed capital expenditures of \$246,721,239.
- Committed professional services funds of \$18,239,012.66.
- Committed construction funds of \$290,006,857.74.

FY25 Reporting Period

- Budget for capital expenditures up to \$298,831,000.

M-E-8 Continuing Sewer System Assessment

Recurring Programmatic Activities

- Performed acoustic inspections as a prescreening for gravity pipe under 15 inches in diameter before referral for CCTV inspection.
- Completed cleaning and inspection in the SSS as scheduled in IPS, as shown in Table 4.4.

Table 4.4. Continuing Sewer System Assessment Activities

ACTIVITY	LINEAR FEET
CHEMICAL ROOT CONTROL	138,721
CLEANING ACTIVITIES	64,752
INSPECTION ACTIVITIES	760,267

M-E-9 Infrastructure Rehabilitation

Refer to Section 2: Program Activities for Discharge Abatement Plans for more details on infrastructure rehabilitation projects identified in the IOAP. Refer to Section 7: Program Activities for Asset Management (AM) for rehabilitation projects not specifically identified in the IOAP.

M-E-10 System Capacity Assurance Program

MSD's System Capacity Assurance Plan (SCAP) was approved February 5, 2015. A copy of the approved SCAP can be viewed on the MSD Project WIN website, msdprojectwin.org.

Recurring Programmatic Activities

- Collected formula-based defect inspection of sewer lines in various sewersheds across the county. This information is being used to prioritize cleaning and rehabilitation efforts that will remove inflow and infiltration from the system and create capacity credits.
- Tracked pump station capacities, reviewed drawdown testing results and identified action items pertaining to deficiencies. Critical results of this effort are being documented on each asset within the IPS system.
- Submitted credit catchment ledgers to the Kentucky Division of Water (KDOW) and EPA as part of 2ACD reports.
- Reviewed wastewater capacity requests from private development as shown in Table 4.5. A running SCAP Balance by sewershed can be found in Appendix M.
- Generated inflow and infiltration reduction projects and calculated related capacity credits.
- Updated WQTC capacities and tracked new development flows.
- Maintained credit calculation protocols and tracking in IPS.
- Maintained the procedures for documentation of rehabilitation and the calculation of SCAP credits

Table 4.5. SCAP Wastewater Capacity Request Reviews

RESULT	REVIEWS	FLOW (GAL/DAY)
CONDITIONALLY APPROVED	396	8,728,548
DENIED	5	238,400
APPROVED	44	22,291

-
- Updated SCAP areas as needed based on pump station elimination projects that have been completed.
 - Monitored capacity request reporting for opportunities to improve.

FY24 Reporting Period

- Continued credit projects to address the negative balance identified in Floyds Fork sewershed.
- Completed modifications to the credit calculation tool for updated reporting.

FY25 Reporting Period

- Continue credit projects to address the negative balance identified in Floyds Fork sewershed.

4.1.1.6. SANITARY SEWER OVERFLOW REPORTING AND NOTIFICATION PROGRAM

This section describes MSD's SSO Reporting and Notification Program. The goal of this program is to maintain accurate, up to date records of SSOs and to ensure proper, timely notification of the agencies and organizations through unpermitted discharge reporting, SSO notification and tracking.

M-F-1 Unauthorized Discharge Reporting

Refer to Section 1: Project Waterway Improvements Now (WIN) Performance Overview for detailed information.

M-F-2 Sanitary Sewer Overflow Notification

M-F-3 Tracking Sanitary Sewer Overflows

Refer to Section 5: Program Activities for Sewer Overflow Response Protocol for detailed information.

4.1.1.7. FINANCING AND COST ANALYSIS PROGRAM

This section describes MSD's Financing and Cost Analysis Program. The goal of this program is to provide a detailed cost analysis for both the capital and operational costs of MSD for use in future budgeting and decision making.

M-G-1 Operations Cost

M-G-2 Maintenance Cost

M-G-3 Capital Improvement Funding

M-G-4 Management Programs Cost

M-G-5 Life Cycle Cost

M-G-6 Budget and Customer Rate Setting

FY24 Reporting Period

Budget performance is shown in Table 4.6. Reported amounts for the program are estimated, unaudited financial results.

FY25 Reporting Period

- Set the operating budget at \$202,610,190 and the capital budget at \$298,831,000.

Table 4.6. Financing and Cost Analysis Program Performance

PERFORMANCE MEASURE	BUDGET	ACTUAL
Operating Revenue Growth	7.00%	12.00%
Operating Revenue	\$406,859,000	\$426,274,380
Wastewater / Stormwater Revenue	\$402,359,000	\$414,191,904
Investment Income	\$13,692,000	\$25,027,279
Senior Debt Service Coverage Ratio	205.00%	225.00%
Total Operating Expenses	\$185,017,872	\$177,187,965
Total Capital Expenses	\$260,617,175	\$246,721,239

4.1.1.8. EQUIPMENT AND TOOLS MANAGEMENT AND MAINTENANCE PROGRAM

This section describes MSD’s Equipment and Tools Management Programs. The goal of this program is to facilitate efficient repair and support of MSD’s sewer systems through an accurate spare parts inventory, a timely equipment maintenance schedule, vehicle repair, and needed tools and supplies.

M-H-1 Spare Parts Inventory Management

M-H-2 Equipment and Tools Repair Management

Recurring Programmatic Activities

- Maintained SOPs describing tooling inspection processes.

FY24 Reporting Period

- Created a new emailing and filing process for tools that improves transparency and accountability, while including input from the Safety & Security departments.
- Established a new group email inbox to provide seamless communication between responsible departments for scheduling tool returns, communicating tool issues, and requests for equipment.
- Expanded previous inventory to include more tools, providing a quicker turnaround time of needed tools and equipment.
- Initiated development of a capital spare parts process with MSD Engineering and Operations Divisions.

FY25 Reporting Period

- Evaluate the development of an organizational program to track all MSD tools and equipment across all departments and facilities.
- Continue development of a capital spare parts process with MSD Engineering and Operations Divisions.

M-H-3 Vehicle Repair

MSD’s vehicle repair maintenance program addresses over 805 pieces of rolling stock, including automobiles, trucks, trailers, construction equipment (backhoes, mobile cranes, etc.), and specialty sewer maintenance equipment. 2ACD reports specifically address maintenance issues related to the grouping of Mission Critical Equipment (MCEs) that were identified as being essential to meeting commitments related to NMC and CMOM activities, including catch basin cleaners (mechanical clamshell type), high-pressure sewer flusher / jetter trucks, teleinspection vehicles, and combination vacuum sewer / catch basin cleaner trucks.

Recurring Programmatic Activities

- Monitored equipment and work order data using the AssetWorks Fleet Management Information System Reports to analyze and target areas where improvement is needed and to plan future replacements.
- Monitored preventive maintenance (PM) schedules to ensure they remain within industry standards, specifically addressing the operating environment of all MCE increasing the frequency of PM performed to improve availability to the operating division.
- Continued efforts associated with the One Water Initiative with Louisville Water Company (LWC) to capitalize on fleet services opportunities to realize cost savings while better serving our customers and increasing levels of service to the community. Remained in conversations with both MSD and LWC union leadership regarding opportunities to capitalize on shared resources.
- Monitored and reported availability and turnaround time of MCE and fleet targeting each equipment type's overall average goals. Metrics include measures for availability and shop turnaround time as shown in Table 4.7.
- Analyzed capital purchasing needs, including the evaluation of MCE for replacement.

Table 4.7. Mission Critical Equipment and Fleet Performance Measures

PERFORMANCE MEASURE	GOAL	RESULT
MCE Availability	80%	93%
Fleet Availability	95%	96%

FY24 Reporting Period

- Evaluated all MCE for replacement with the following actions taken:
 - Tele-Inspection Vehicles: Received two (2) replacement units and placed in service in July 2023.
 - Catch Basin Cleaner: Received one (1) replacement unit and placed in service in September 2023.
- Scheduled and completed Phase I of factory training on Cummins engines for technicians. This training is invaluable in troubleshooting diesel engines on MCE.
- Updated diagnostics laptops as a tool for technicians in troubleshooting engines and drive trains on MCEs.

FY25 Reporting Period

- Evaluate all MCE for replacement with the following actions to be taken:
 - Heavy Duty Vacuum Sewer / Catch Basin Cleaner Truck: Upon competitive bid and contract award, order and place in service one new unit to replace aging equipment and improve availability. Coordinate operator and fleet technician training upon receipt.
- Schedule and complete Phase II of factory training on Cummins engines for technicians.

M-H-4 Supplies Management

Recurring Programmatic Activities

- Conducted weekly meetings with departments for improved customer service, inventory management of critical spare parts, reorganization of new storeroom locations, and PPE/safety upgrades.
- Maintained SOPS related to storeroom and supply management.
- Maintained supplies inventory.

FY24 Reporting Period

- Completed upgrade of Cedar Creek Storeroom security with camera surveillance.

FY25 Reporting Period

- Evaluate and propose security measures such as cameras, monitors, etc. at warehouse locations to ensure resources are properly accounted for.
- Implement and extend the barcode program to include barcodes on badges.
- Complete Phase I of the Radio Frequency Identification (RFID) pilot program, which includes full inventory of capital spares and installation of RFID hardware at the Morris Forman Oxygen Generation Area (OGA) building.
- Explore utilization of IPS for cradle-to-grave tracking of repairs, usage, and refurbished and capital assets that belong to major fixed assets.
- Create an Obsolete Parts Procedure to monitor, document, and track usage of unused or discontinued parts for proper disposal aligned with the Asset Disposal Procedures.
- Create a Refurbished Parts Procedure to track refurbished goods for repair, usage, and on-hand needs.
- Create a Critical Parts Procedure to identify and maintain critical assets needed for operational sustainment.

4.1.1.9. CUSTOMER SERVICE PROGRAMS

This section describes MSD's Customer Service Programs. The goal of this program is to strengthen and maintain a healthy relationship between MSD and the public through service programs which include complaint management, public information and public education.

M-I-1 Customer Service

M-I-2 Public Information

M-I-3 Public Education

Recurring Programmatic Activities

- Mailed out 305 Project WIN and Plumbing Modification Program packets of information or applications.
- Maintained usage of a customer service portal for customers to submit service requests online, eservice.louisvillemisd.org. This reporting period, received 146 chats from customers, many of which require a service request.
- Received 6,001 service requests through email and 60 service requests through community meetings during the current reporting period.
- Table 4.8 illustrates the number of calls accepted and answered by MSD Customer Relations Specialists. The monthly average number of calls accepted and answered for FY24 was 3,564 and 3,309 respectively.

FY24 Reporting Period

- Implemented a multi-language call line in November of 2023 and received 74 calls using this service in the first six months. This service provides translation services in over 240 languages, 24 hours, 7 days a week.

Table 4.8. Customer Service Call Data

PERFORMANCE MEASURE	GOAL	RESULT
Calls Received		42,762
Calls Abandoned*		3,055
Abandoned Call Rate	5%	7%
*This includes 1,028 system calls that were disconnected before reaching a customer relations agent.		

4.1.1.10. LEGAL SUPPORT PROGRAMS

The following support programs are included in this section: inter-jurisdictional agreement, ordinances, pre-treatment legal support, grease control legal support, service laterals legal support, septic tank haulers legal support, and “Call Before You Dig” legal support.

M-J-1 Inter-Jurisdictional Agreement

M-J-2 Ordinances

M-J-3 Pretreatment

M-J-4 Grease Control

M-J-5 Service Laterals

M-J-6 Septic Tank Haulers Legal Support

M-J-7 “Call Before You Dig”

Recurring Programmatic Activities

The MSD legal department provides a variety of legal services designed to support MSD in its efforts to implement programs to abate sanitary sewer overflows. The services most directly related to this effort include:

- Participated in and/or provided legal advice and other functions pertaining to the procurement of construction and professional service contractors to provide services and/or perform work in furtherance of IOAP-related projects.
- Participated in the acquisition of properties and/or property interests (easements and/or fee simple ownership) critical to the completion of IOAP-related sewer construction projects. The department’s participation has included assisting in the negotiation and structuring of purchase and sale agreements, drafting acquisition related documents, drafting easements, title research, and performing or providing oversight of the closing of acquisition transactions, as well as initiating legal proceedings to acquire property through eminent domain.
- Provided support and assistance to the Development & Stormwater Services department in the negotiation and preparation of green infrastructure and long-term maintenance agreements.
- Provided support, assistance and counsel to regulatory programs and enforcement actions brought under the Wastewater Stormwater Discharge Regulations, Hazardous Materials Ordinance, and Erosion Prevention and Sediment Control Ordinance.

4.1.1.11. WATER QUALITY MONITORING PROGRAMS

This section describes MSD's Water Quality Monitoring Program. The goal of this program is to maintain an accurate, consistent record of water quality in receiving bodies of water. Monitoring results are used to determine the effect of effluent discharge and/or spills through the following monitoring programs: routine water quality, investigative water quality, and water quality monitoring for spill impact. Water Quality monitoring data is also assessed and provided in the Water Quality Synthesis Report.

M-K-1 Routine Water Quality Monitoring Programs

M-K-2 Investigative Water Quality Monitoring

M-K-3 Water Quality Monitoring for Spill Impact

Recurring Programmatic Activities

MSD has aggressively pursued a watershed management approach that relies heavily on an established water quality monitoring program. The program has an extensive in-stream monitoring effort for tributary streams and for emergency spill responses, including the following activities:

- Maintained ambient monitoring at Long Term Monitoring Network (LTMN) locations across Jefferson County to monitor multiple physical and biological indicator parameters in accordance with the MS4 permit.
 - Monitoring for pH, conductivity, temperature, dissolved oxygen, and stream flow are collected continuously. Two locations, Lexington Road and Brown Park, also continuously collect turbidity.
 - Biological sampling and/or evaluation for algae, fish, habitat, and benthic macroinvertebrates is currently conducted every two years.
 - Sampling for Total Suspended Solids (TSS), E. coli, total nitrogen, oil and grease, copper, and pH is currently conducted on a quarterly basis.
 - Recreational contact monitoring for E. coli is conducted seasonally from May through October.
 - Wet weather monitoring is conducted over the course of the MS4 permit term for three storm events at the ambient locations and an additional 15 locations.
- Conducted Combined Sewer Overflows (CSOs)/Significant Industrial Users (SIUs) point sampling, which monitors the risk of water quality impairment to discharges associated with SIUs and General Discharge Permits through the NMC 3 Pretreatment Program.
- Conducted CSO flow monitoring measures flow within the combined sewer system to provide improved data input into water quality models.

Additional information on these programs is provided in Section 2.5.3. Stream Flow and Water Quality Monitoring.

4.1.1.12. CONTINGENCY PLAN FOR SEWER AND TREATMENT PLANT

This section describes MSD's Contingency Plan for the wastewater collection and treatment system. The goal of this program is to provide a protocol for emergency response and notification. The following elements are included in this section: contingency planning process, response flow diagram, public notification plan, agency notification plan, emergency flow control plan, emergency operations and maintenance plan, preparedness training program, water quality monitoring plan, and Sewer Overflow Response Protocol (SORP). The SORP requires training for all MSD employees.

M-L-1 Contingency Planning Process

M-L-2 Response Flow Diagram

Recurring Programmatic Activities

- Maintained disaster response protocols, the Emergency Response Plan, and the Business Continuity Plan in alignment with organizational role changes.
- Updated the Incident Management Team (IMT) structure as needed. The IMT is the Chain of Operations structure that is initiated in preparation for or in response to an event which causes deviation from mission essential business functions.

FY24 Reporting Period

- Begun planning efforts to add redundant communication paths to provide improved network resiliency for key sites.
- Worked towards the development of a Catastrophic Urban Flood Plan in conjunction with the Department of Homeland Security, US Army Corps of Engineers, Kentucky Emergency Management, Louisville Emergency Management Agency and other partners.

FY25 Reporting Period

- Continue development of a Catastrophic Urban Flood Plan.
- Continued planning towards adding redundant communication paths for key sites.

M-L-3 Public Notification Plan

M-L-4 Agency Notification Plan

Refer to Section 5: Program Activities for Sewer Overflow Response Protocol for more details on public and agency notifications.

M-L-5 Emergency Flow Control Plan

M-L-6 Emergency Operations and Maintenance Plan

Recurring Programmatic Activities

- Maintained operational emergency response SOPs.
- Maintained the Unexpected Events Communication Plan.

M-L-7 Preparedness Training

Refer to 4.1.1.2. Training Programs for details on training for emergency response procedures.

M-L-8 Water Quality Monitoring Plan

Refer to 2.5. Post-Construction Compliance Monitoring (PCCM) and 4.1.1.11. Water Quality Monitoring Programs for more details on the MSD Water Quality Monitoring Plan.

M-L-9 Sewer Overflow Response Protocol

Refer to Section 5: Program Activities for Sewer Overflow Response Protocol for details on MSD's SORP program.

4.1.2. OPERATIONS PROGRAMS

4.1.2.1. PUMP STATION OPERATIONS PROGRAMS

This section describes MSD's Pump Station Operation Programs. The goal of this program is to maintain pump stations for optimal use during routine and emergency operations through well documented operating procedures.

O-A-1 Routine Operating Programs

Recurring Programmatic Activities

- Reviewed and updated, as needed, the U.S. Army Corps of Engineers (USACE) Flood Operations and Maintenance Manual based on USACE and staff review comments. The manual is continuously under review as MSD completes both LTCP and NMC programmatic activities.
- Determined capital project priorities and the budgetary needs related to flood protection system pump stations during regular meetings with MSD Operations and Engineering staff. These priorities are reflected in the project schedules in Figure 4.1.
- Replaced telemetry panels as needed at pump stations with outdated processors, at risk of submergence, or with multiple PLC or communications failures.
- Maintained backup power access at critical pump stations.

FY24 Reporting Period

- Replaced 31 sanitary pumps in the collections system. Repaired or rehabilitated an additional 25 pumps throughout the collections system.
- Began construction of a new Motor Control Center (MCC) rack and Variable Frequency Drive (VFD) at Winton PS. Also procured new pumps and bases.
- Procured new pumps and bases for station upgrades at Chamberlain Lane PS and Newburg Road PS.
- Received new pumps and bases for an upgrade project at Riverfront PS.
- Installed 26 replacement sanitary pumps for the collections system.
- Received a replacement spare grinder for Eastwood/Fisherville PS, to be installed if the current grinder were to fail.
- Began construction for a project at Treeline PS to replace a generator that has experienced catastrophic failure and replace the Automatic Transfer Switch (ATS) and Control Panel with modernized equipment.

FY25 Reporting Period

- Complete upgrades at Winton PS.
- Complete station upgrades at Chamberlain Lane PS and Newburg Road PS, including installation of new pumps and bases.
- Install new pumps and bases at Riverfront PS.
- Complete construction and generator replacement at Treeline PS.

O-A-2 Emergency Operating Programs

FY24 Reporting Period

- Reviewed and updated procedures for installation and hand off of backup power supply and mobile generator staging and operation.
- Placed 10 new portable generators in service to replace aging equipment.

4.1.2.2. PRETREATMENT PROGRAM

This section describes MSD's Pretreatment Programs. The goal of this program is to protect MSD's sewer system and treatment plants by requiring industrial users to pretreat their effluent to required levels through industrial user permitting, inspection, sampling and enforcement.

O-B-1 Industrial User Permit

O-B-2 Inspection

O-B-3 Sampling Enforcement

Additional information related to the MSD Pretreatment Program for the combined sewer system can be found in Section 3.3. NMC 3: Review and Modification of Pretreatment Requirements.

Recurring Programmatic Activities

- Administered pretreatment limitations at Hite Creek, Floyds Fork, Derek R. Guthrie and Morris Forman WQTCs.
- Administered the Dental Amalgam Program (DAP) for MSD service areas and identified new dental office(s) that can submit a one-time compliance dental amalgam report.
- Evaluated discharges in the collection system that have hold and release requirements in their permit to determine if such requirements are still applicable due to the underground storage tunnel and addition of other storage basins throughout the combined sewer system.

FY24 Reporting Period

- Added one (1) distillery participant to the NMC voluntary program.
- Eliminated one (1) participant in the NMC voluntary program, due to non-positive contribution.
- Awaiting approval of EPA's Cross-Media Electronic Reporting Rule to utilize third-party software and allow online submission of self-monitoring report data from permitted industries.
- Developed and implemented a PFAS Pretreatment Plan for the initial identification of sources and concepts for the reduction of PFAS.

4.1.2.3. CORROSION CONTROLS PROGRAM

This section describes MSD's Corrosion Controls Program. The goal of this program is to extend the life of MSD's sewer system by controlling the corrosive effects of hydrogen sulfide (H₂S) and other corrosive chemicals in the system through inspection, control measures, monitoring, and performance measures.

O-C-1 Inspection

O-C-2 Control Measures

O-C-3 Monitoring

O-C-4 Performance Measures

Hydrogen sulfide is a serious problem for the structural integrity of the collection system, as well as a nuisance to the public due to odor. In most instances, it is possible to mitigate odor complaints without addressing corrosion concerns.

Recurring Programmatic Activities

- Cleaned MSD facilities to minimize impact of corrosion and odors. Completed 220 cleaning work orders on the collection system this reporting period.
- Enhanced asset review and documentation by further defining service request responsibilities related to odor complaints.
- Contracted with professional engineering services to assist MSD with odor control for the collection system, regional WQTCs, and Ohio River Force Main (ORFM).
- Monitored and evaluated gravity lines within the collections system through the CSSA/Blockage Abatement Program using the corrosion indexes.
- Reviewed underground tank pump station sites, which may be susceptible to corrosion. Projects include application of epoxy coatings for corrosion control and calcium nitrate for H₂S elimination.

FY24 Reporting Period

- Maintained a Full Service Odor Control Contract.
- Partnered with a professional services provider to streamline and improve the Odor Control program as needed.
- Inspected and rehabilitated 150 air release valves (ARVs) in the Collection System.
- Replaced carbon media for vapor phase odor control at the Grand Avenue PS.

FY25 Reporting Period

- Maintain a Full Service Odor Control Contract.
- Partner with a professional services provider to streamline and improve the Odor Control program as needed.

4.1.2.4. GREASE TRAP INSPECTION AND ENFORCEMENT PROGRAM

This section describes MSD's Grease Trap Inspection and Enforcement Programs. The goal of this program is to reduce the amount of fats, oils and grease (FOG) that enter MSD's sewer system and treatment plants through permitting, inspection, enforcement, performance measures, and the FOG program.

O-D-1 Permitting

O-D-2 Inspection

O-D-3 Enforcement

O-D-4 Performance Measures

O-D-5 Fats, Oils and Grease Program

Recurring Programmatic Activities

- Conducted inspections at food service establishments (FSEs) and issued enforcement actions as appropriate for violations of the MSD Wastewater/Stormwater Discharge Regulations. Issued 940 enforcement actions to include Field Correction Notices (FCNs), Notices of Violation (NOVs) and Correction Notices (CNs) to FSEs requiring action(s) to prevent and/or eliminate grease blockages in MSD's collections system. The enforcement actions required FSEs to install and/or modify and service grease control equipment, with additional requirements to submit documentation of installations, service and/or modifications.
- Conducted 191 Plan Review Final Release inspections to ensure proper grease control equipment was installed at new and/or modified FSEs.
- Mailed FOG residential public service notifications as described in Section 6.1.3.
- Conducted three Certified Grease Waste Hauler (CGWH) training classes for haulers servicing grease control equipment within Jefferson County. Grease haulers from various MSD Certified Grease Waste Hauler facilities participated and received certification cards collectively. Classes were held on September 14, 2023; February 8, 2024; March 14, 2024. CGWHs as well as master and journeyman plumbers that service or repair grease traps or grease interceptors within MSD's service area are required to participate and receive approval to service grease control equipment. FSEs in MSD's service area must only utilize MSD's CGWHs or plumbers that have obtained the appropriate certification.
- Tracked FOG removal by CGWHs. Collectively, 2.76 gallons of FOG were removed from grease control equipment maintained by area FSEs during the reporting period. Collectively, CGWHs in Jefferson County serviced approximately 4,981 items of grease control equipment.
- Participated in public education and outreach programs to inform the public regarding MSD's FOG program.
- Tracked FOG program performance measures and develop reporting tools.

FY24 Reporting Period

- Optimized FOG food service establishment information by cleaning up the database system in which facility information is stored.
- Developed initiatives based on recommendations from the comprehensive FOG Program Assessment Report, including the following:
 - Developed a poster and a public announcement to better educate both residential and commercial customers on Best Management Practices to eliminate or reduce the amount of FOG entering the system.
 - Revitalized a FOG Focus Project with target areas identified to conduct further inspection and determine if further actions or enforcement measures are needed. Three locations were identified for further inspection based on the FOG Characterization Review and the number of related Incident Responses.

FY25 Reporting Period

- Increase work efficiency through the use of mobile device applications to document field inspections.
- Reconcile databases recording FOG plans for FSEs between the Heath Department and MSD, and update accordingly.

4.1.2.5. NEW CONNECTION TAP-IN PROGRAM

This section describes MSD's New Connection Tap-In Program. The goal of this program is to ensure that future connections do not compromise the capacity of the receiving treatment plant. The program is implemented using a new service tap approval process, inspection, enforcement, and performance measures for new connections to existing sewers and increased flow on existing service connection locations. All new service connections are installed by contractors and inspected by MSD representatives.

All new and changes to wastewater discharge volumes are reviewed through MSD's SCAP process. Developers are required to submit proposed flows to MSD's system and those flows are traced through MSD's infrastructure to identify lack of system capacity. Where capacity in the system exists, capacity requests are approved for 90 days. Where capacity does not exist, upgrades to infrastructure are undertaken or the capacity request is not approved.

O-E-1 Installation of New Service Taps

O-E-2 Inspection

O-E-3 Enforcement

O-E-4 Performance Measures

O-E-5 Other

Recurring Programmatic Activities

- Reviewed projects for available capacity through SCAP program. Refer to Table 4.5 for details regarding new flow approved through the SCAP process this reporting period.
- Inspected installation of new property service connections (PSCs) on existing MSD's sewers. During this reporting period, 95 PSCs were installed in Jefferson County and 1 PSC was installed in Crestwood, KY.

FY24 Reporting Period

- Implemented new property service connection workflow in IPS.

4.1.2.6. FLOW MONITORING FIELD OPERATION PROGRAMS

This section describes MSD's Flow Monitoring Field Operation Programs. The goal of this program is to provide accurate flow data for use in evaluating various aspects of MSD's sewer system. Flow is monitored at both permanent and temporary stations.

O-F-1 Permanent Stations

O-F-2 Temporary Stations

Refer to Section 2.5.3. Stream Flow and Water Quality Monitoring for details on water quality monitoring efforts.

4.1.2.7. SEPTIC TANK HAULERS PROGRAM

MSD does not accept septic tank waste. This is handled through private contractors in Jefferson County.



4.1.2.8. “CALL BEFORE YOU DIG” PROGRAM

This section describes MSD’s “Call Before You Dig” Program. The goal of this program is to prevent the damaging or cutting of sewer lines and other MSD assets and subsequent spills through permitting, inspection, enforcement, and performance measures.

O-H-1 Permitting

O-H-2 Inspection

O-H-4 Performance Measures

Recurring Programmatic Activities

- Contracted with a locating company to locate requests within the MSD service area. The contract is set up to handle Louisville Water Company (LWC) requests as well (invoiced separately). Invoices totaled \$1,094,315.29 for 102,218 locate requests to identify MSD facilities during the reporting period.
- Contracted with the KY 811 (BUD Center) for underground utility information call center services. Invoices totaled \$153,313.50 for 102,209 requests to the BUD Center for the marking of other utilities during this reporting period.

O-H-3 Enforcement

Enforcement is handled by the Commonwealth of Kentucky.

4.1.3. MAINTENANCE PROGRAMS

4.1.3.1. PUMP STATION PREVENTIVE MAINTENANCE

This section describes MSD’s Pump Station Structured Maintenance program. The goal of this program is to prevent unanticipated repairs and subsequent down-time by providing scheduling, staff, and records to perform routine, preventive pump station maintenance. Electrical, mechanical, and physical maintenance are included in this section.

S-A-1 Electrical Maintenance

S-A-2 Mechanical Maintenance

S-A-3 Physical Maintenance

Recurring Programmatic Activities

- Ensured collaboration between Engineering and Operations staff, designers, and contractors to incorporate changes to the system with the elimination of non-regional WQTCs and the design and construction of CSO storage basins and their associated pump stations and diversion structures as required by the IOAP.
- Performed structured maintenance for sanitary pump stations as shown in Table 4.9. This measure also includes structured maintenance at flood pump stations in the CSS.
- Maintained SOPs, training, and reporting related to subsequent repairs.
- Trained Vertical Assets Maintenance staff annually to use the IPS asset management system to track pump station work orders as well as associated pump station assets.

Table 4.9. Sanitary PS Structured Maintenance

PERFORMANCE MEASURE	GOAL	RESULT
Sanitary PS Structured Maintenance Completion Rate	84.0%	97.4%

4.1.3.2. FORCE MAIN PREVENTIVE MAINTENANCE

This section describes MSD’s Force Main Preventive Maintenance program. The goal of this program is to prevent unanticipated repairs and subsequent down-time by providing scheduling, staff, and records to perform routine, preventive force main maintenance. The maintenance programs include walking the force main alignment to find cave-ins and air relief valve inspections.

S-B-1 Air Release Valves

S-B-2 Valve Exercise Program

Recurring Programmatic Activities

- Conducted the Annual Force Main Program evaluation and completed inspections on force mains listed in Table 4.10, covering 204,222 linear feet. Each inspection consisted of inspecting wet wells, valve vaults, air release valves, and discharge manholes; pumping out access vaults to lube, grease and exercise cross-connections; and observing the ground above the lines for evidence of pipe failure below ground.
- Initiated corrective work orders for defects found on other assets during inspections.

Table 4.10. Force Main Inspections

FORCE MAIN	INSPECTED LENGTH (FT)
BECKLEY STATION FM	7,291
BLUEGRASS STATION FM	1,074
EASTWOOD-FISHERVILLE FM	12,089
EDEN CARE FM	2,052
EDSEL FM	3,447
GLEN OAKS FM	4,372
GLENVIEW PLACE FM	1,785
GOOSE CREEK FM	9,136
GRAND AVENUE FM	26,967
HARRODS CREEK FM	27,370
HARRODS LANDING FM	315
HASBROOK FM	3,093
LAKE FOREST FM	1,428
MOUNT WASHINGTON FM	19
ORFM	79,180
PERWINKLE FM	2,195
PITCH PINE FM	3,893
RIVER CREEK FM	3,621
RUBBERTOWN FM	9,485
SIGNATURE POINT FM	1,387
VISTA CLUB FM	2,210
WAL-MART FM	1,813

4.1.3.3. GRAVITY LINE PREVENTIVE MAINTENANCE

This section describes MSD's Gravity Line Preventive Maintenance program. The goal of this program is to reduce infiltration and increase efficiency of the gravity line system through routine cleaning, root control, and manhole preventive maintenance.

S-C-1 Routine Hydraulic Cleaning

S-C-2 Routine Mechanical Cleaning

S-C-3 Root Control Program

S-C-4 Manhole Preventive Maintenance

Refer to 4.1.1.5. Engineering Programs for details on gravity line preventive maintenance efforts.

4.1.3.4. EQUIPMENT AND COLLECTIONS SYSTEM MAINTENANCE

S-D-1 Equipment Maintenance

Equipment and vehicle maintenance is discussed in detail in 4.1.1.8. Equipment and Tools Management and Maintenance Program.

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

Under the 2ACD, MSD implemented a Comprehensive Performance Evaluation (CPE) and Composite Correction Plan (CCP) program for MSD's Water Quality Treatment Centers (WQTCs). Per Paragraphs 12 and 13 of the 2ACD, MSD timely submitted all program submittals and eliminated required WQTCs by December 31, 2015, as required. Although the ACD CPE/CCP improvements are completed, MSD will continue to implement CPE/CCP activities as part of the MSD's CMOM program. This section will list performance measures established for the WQTCs and activities per WQTC as they occur each reporting period. Schedules for CPE/CCP related capital projects are provided in 4.3. CMOM Activity Schedule.

4.2.1. ALL WATER QUALITY TREATMENT CENTERS

MSD's policy is to operate WQTCs in full compliance with the permitted effluent water quality standards. However, circumstances sometimes arise that may cause WQTCs to exceed the permitted effluent limits. This reality is recognized by the National Association of Clean Water Agencies (NACWA), which gives awards at different levels based on the number of effluent parameter exceedances during the calendar year:

- Silver – Five or fewer exceedances per year
- Gold – Zero exceedances per year
- Platinum – Zero exceedances per year for five years

Based on past operating history, MSD has established the target for all treatment centers of receiving at least the NACWA Silver Award. All four operational regional WQTCs have achieved a minimum of the NACWA Silver Award goal since FY20 as shown in Table 4.11.

Table 4.11. Regional WQTC Permit Compliance

PLANT NAME	FY	EXCEEDANCES	MONTHS COMPLIANT
CEDAR CREEK	FY20	0	12
CEDAR CREEK	FY21	0	12
CEDAR CREEK	FY22	0	12
CEDAR CREEK	FY23	0	12
CEDAR CREEK	FY24	1	11
DEREK R. GUTHRIE	FY20	0	12
DEREK R. GUTHRIE	FY21	0	12
DEREK R. GUTHRIE	FY22	2	10
DEREK R. GUTHRIE	FY23	0	12
DEREK R. GUTHRIE	FY24	0	12
FLOYDS FORK	FY20	0	12
FLOYDS FORK	FY21	1	11
FLOYDS FORK	FY22	0	12
FLOYDS FORK	FY23	0	12
FLOYDS FORK	FY24	2	11
HITE CREEK	FY20	0	12
HITE CREEK	FY21	3	11
HITE CREEK	FY22	0	12
HITE CREEK	FY23	0	12
HITE CREEK	FY24	3	10

Recurring Programmatic Activities

- Performed structured maintenance for WQTCs as shown in Table 4.12. Additional emphasis and planning have been conducted to improve performance.
- Tracked exceedances at the regional WQTCs.

Table 4.12. WQTC Structured Maintenance

PERFORMANCE MEASURE	GOAL	RESULT
WQTC Structured Maintenance Completion Rate	84.0%	86.3%

4.3. CMOM ACTIVITY SCHEDULE

A Gantt chart including progress of CMOM projects during the reporting period can be found in Figure 4.1.



Figure 4.1. CMOM Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		2nd Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
	MSD CMOM Commitments Schedule	69%	Mon 8/3/09	Wed 3/2/33								
A23182	Campground Park Excess Cost Jefferson Co	100%	Wed 3/1/23	Sun 6/30/24								
A23182	SPENDING START	100%	Tue 3/7/23	Fri 5/31/24								
A23182	CLOSEOUT	100%	Fri 5/31/24	Sun 6/30/24								
A23211	Concrete Repairs at DRG Dewatering Bldg	57%	Thu 6/1/23	Mon 3/31/25								
A23211	INITIATION & PROCUREMENT	100%	Thu 6/1/23	Mon 7/3/23								
A23211	DESIGN	100%	Mon 7/24/23	Mon 7/24/23								
A23211	CONSTRUCTION	100%	Mon 8/7/23	Sun 3/31/24								
A23211	CLOSEOUT	31%	Sun 3/31/24	Mon 3/31/25								
A24044	Private Property I and I Program Design	100%	Sat 7/1/23	Sun 6/30/24								
A24044	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
A24044	DESIGN	100%	Sat 7/1/23	Fri 5/31/24								
A24044	CLOSEOUT	100%	Fri 5/31/24	Sun 6/30/24								
A24068	FY24 PSC Program Support	100%	Sat 7/1/23	Sun 6/30/24								
A24068	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
A24068	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
A24068	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
A24101	Villages of Heritage Creek Sanitary Excess Cost	100%	Tue 8/1/23	Tue 4/30/24								
A24101	INITIATION & PROCUREMENT	100%	Tue 8/1/23	Tue 8/1/23								
A24101	SERVICE PERIOD	100%	Mon 10/30/23	Mon 4/15/24								
A24101	CLOSEOUT	100%	Sun 3/31/24	Tue 4/30/24								
A24130	Echo Trail PS and FM Excess Cost	100%	Fri 12/1/23	Sun 6/30/24								
A24130	INITIATION & PROCUREMENT	100%	Fri 12/1/23	Mon 12/18/23								
A24130	SPENDING START	100%	Mon 12/18/23	Fri 5/31/24								
A24130	CLOSEOUT	100%	Fri 5/31/24	Sun 6/30/24								
A24133	West Goose Creek PS Rehabilitation	31%	Mon 11/27/23	Mon 4/6/26								
A24133	INITIATION & PROCUREMENT	100%	Mon 11/27/23	Thu 2/1/24								
A24133	DESIGN	100%	Thu 2/1/24	Thu 2/1/24								
A24133	CONSTRUCTION	49%	Thu 2/1/24	Sun 4/6/25								
A24133	CLOSEOUT	0%	Sun 4/6/25	Mon 4/6/26								

Data Date: 9/10/24

CMOM Project Project Progress

Percent complete is calculated based on phase duration.

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Figure 4.1. CMOM Activity Schedule

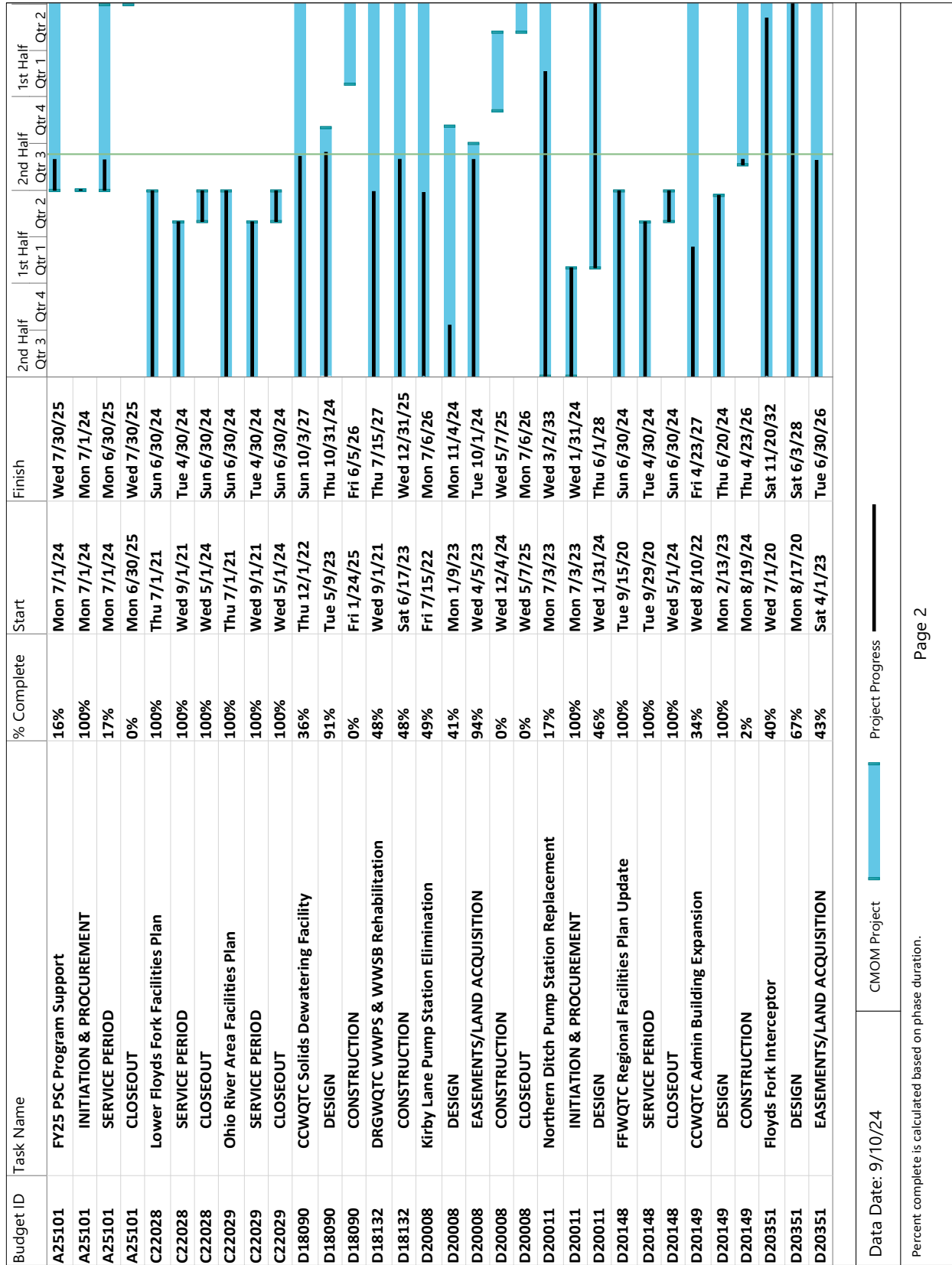




Figure 4.1. CMOM Activity Schedule

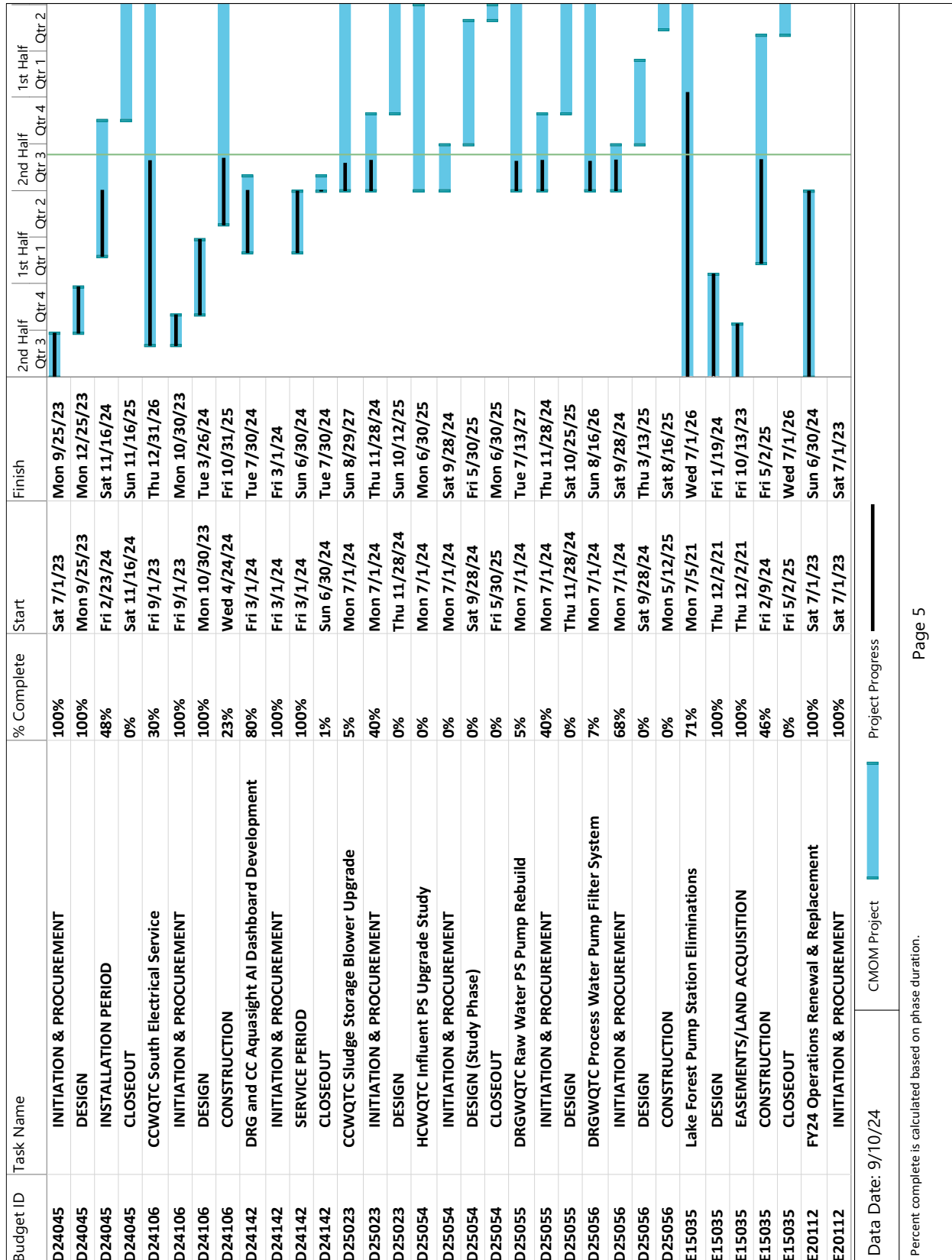




Figure 4.1. CMOM Activity Schedule

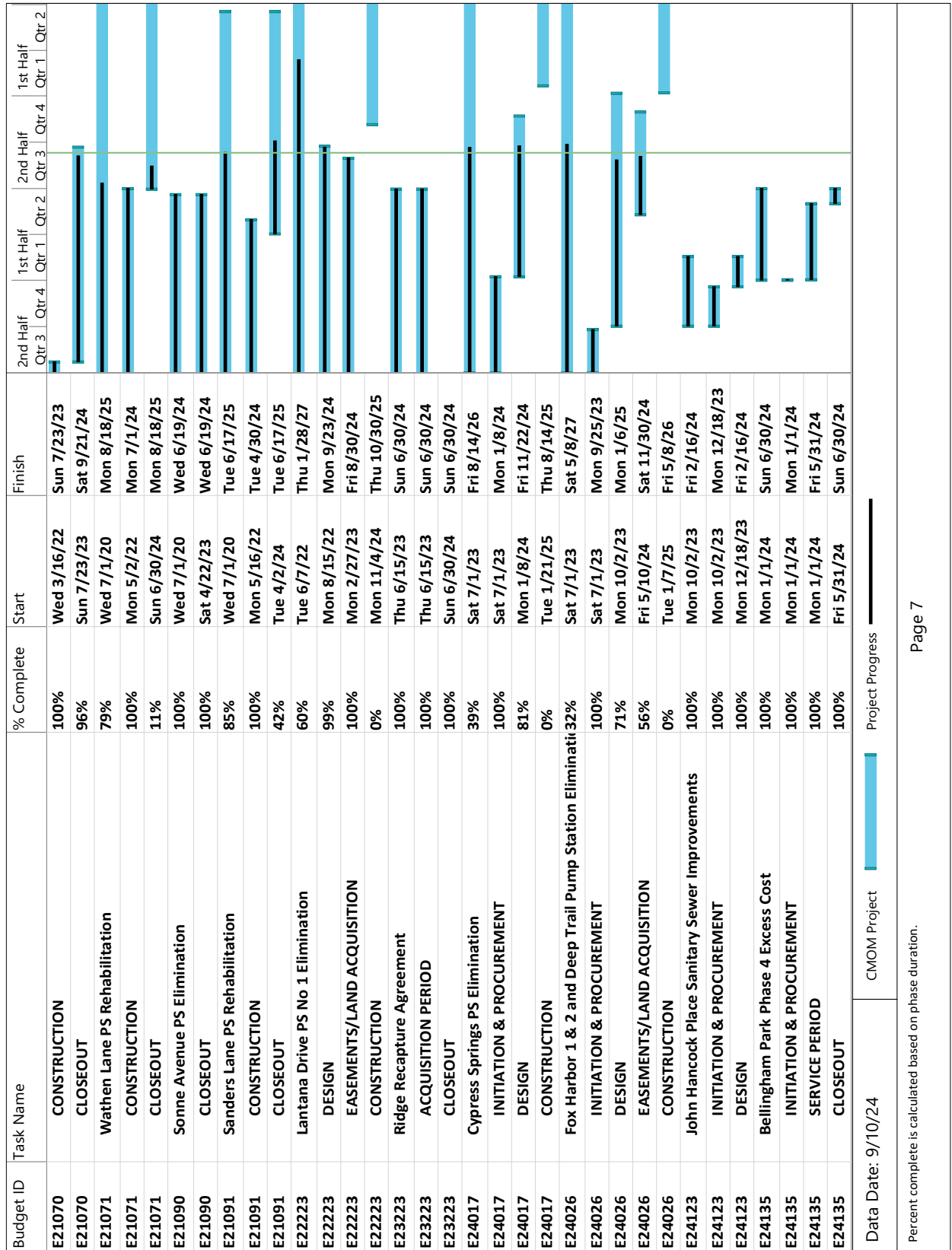


Figure 4.1. CMOM Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half			
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
H20053	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
H20053	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
H20058	FY23 CMOM I and C Implementation	100%	Fri 7/1/22	Sun 7/30/23								
H20058	CLOSEOUT	100%	Fri 6/30/23	Sun 7/30/23								
H20060	FY24 Linear Assets RR	100%	Sat 7/1/23	Thu 12/28/23								
H20060	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20060	SERVICE PERIOD	100%	Sat 7/1/23	Thu 12/28/23								
H20060	CLOSEOUT	100%	Thu 12/28/23	Thu 12/28/23								
H20064	FY23 CMOM Gravity Line Cleaning and Inspection	100%	Fri 7/1/22	Sun 7/30/23								
H20064	CLOSEOUT	100%	Thu 6/15/23	Sun 7/30/23								
H20065	FY24 CMOM Gravity Line Cleaning & Inspection	100%	Sat 7/1/23	Sun 6/30/24								
H20065	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20065	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
H20065	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
H20080	FY24 Plumbing Modification Program	100%	Sat 7/1/23	Sun 6/30/24								
H20080	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20080	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
H20080	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
H20113	FY24 CMOM SCAP, AAM, FOG	100%	Sat 7/1/23	Sun 6/30/24								
H20113	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20113	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
H20113	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
H21051	FY25 Plumbing Modification Program	16%	Mon 7/1/24	Wed 7/30/25								
H21051	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
H21051	SERVICE PERIOD	17%	Mon 7/1/24	Mon 6/30/25								
H21051	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25								
H22015	Water Reuse Study	100%	Thu 7/1/21	Sun 6/30/24								
H22015	STUDY PHASE	100%	Tue 8/24/21	Fri 5/31/24								
H22015	CLOSEOUT	100%	Fri 5/31/24	Sun 6/30/24								
H22016	AI Aquisight Software at CCWQTC	100%	Thu 7/1/21	Wed 8/30/23								

Data Date: 9/10/24

Percent complete is calculated based on phase duration.

Figure 4.1. CMOM Activity Schedule

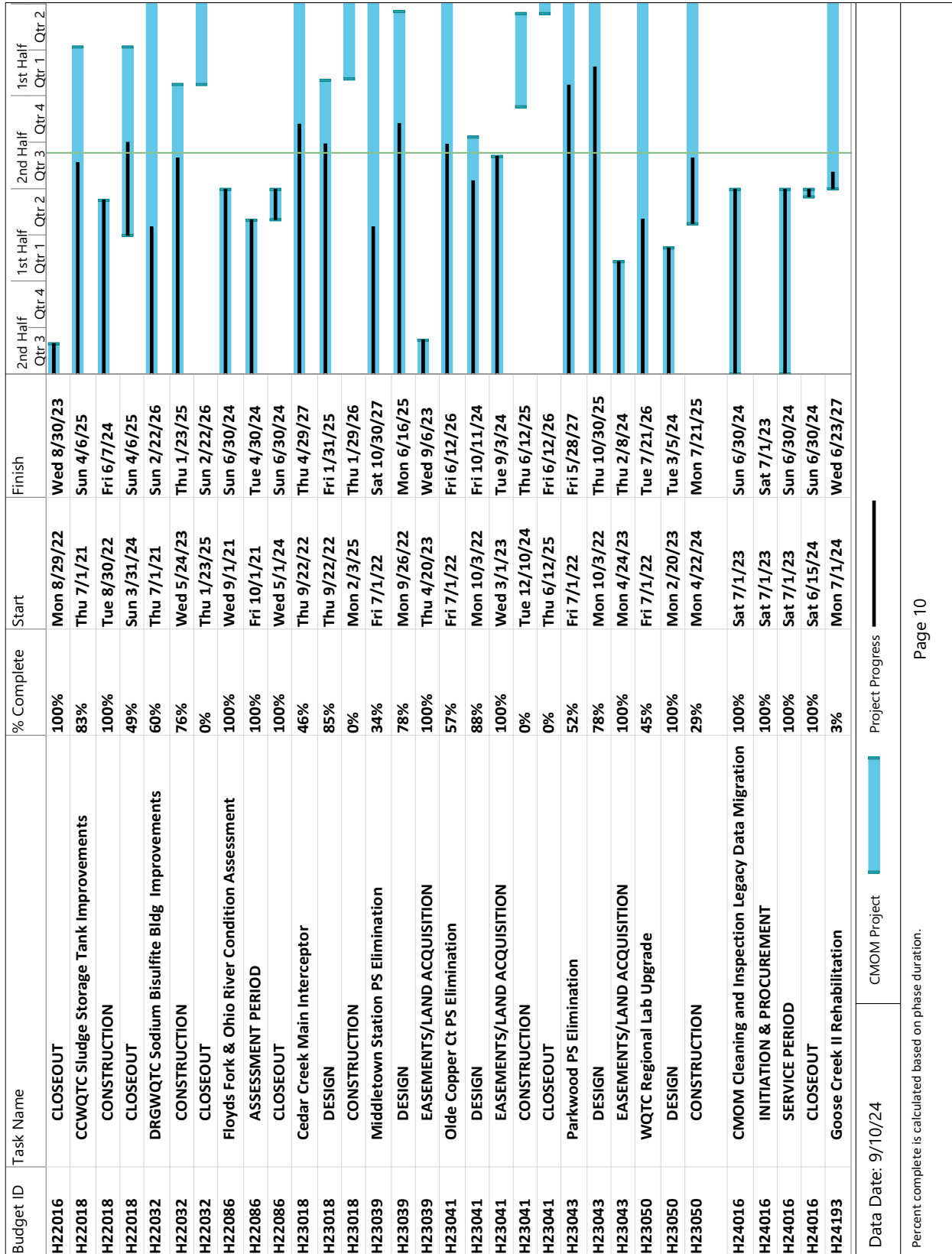
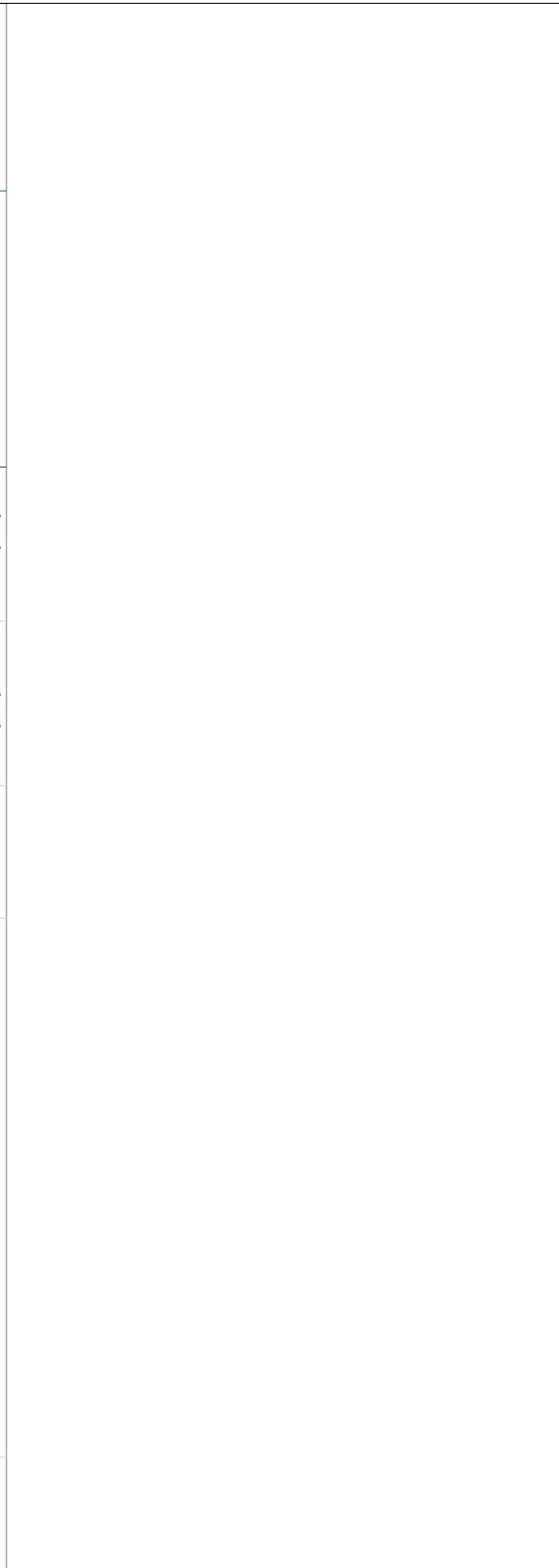


Figure 4.1. CMOM Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	Timeline									
					2nd Half Qtr 3	1st Half Qtr 1	1st Half Qtr 2	2nd Half Qtr 3	1st Half Qtr 4	1st Half Qtr 1	1st Half Qtr 2			
H24193	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24										
H24193	DESIGN	9%	Thu 8/1/24	Mon 9/29/25										
H24194	Floydsburg Road I&I Investigation and Rehabilitation	0%	Mon 7/1/24	Sun 5/31/26										
H24194	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Fri 7/5/24										
H24194	DESIGN	0%	Tue 10/1/24	Tue 11/26/24										
H24194	EASEMENTS/LAND ACQUISITION	0%	Fri 7/5/24	Wed 2/26/25										
H24194	CONSTRUCTION	0%	Thu 12/26/24	Sat 5/31/25										
H24194	CLOSEOUT	0%	Sat 5/31/25	Sun 5/31/26										
H25038	Grand Avenue Force Main Odor Mitigation Study	0%	Mon 7/1/24	Mon 6/30/25										
H25038	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sat 9/28/24										
H25038	DESIGN (Study Phase)	0%	Sat 9/28/24	Fri 5/30/25										
H25038	CLOSEOUT	0%	Fri 5/30/25	Mon 6/30/25										
H25083	Starkey PS Odor Mitigation Chemical Use Assessment	4%	Mon 7/1/24	Mon 8/2/27										
H25083	INITIATION & PROCUREMENT	31%	Mon 7/1/24	Sat 11/30/24										
H25083	DESIGN	0%	Sat 11/30/24	Mon 10/27/25										



Data Date: 9/10/24

CMOM Project █ Project Progress █

Percent complete is calculated based on phase duration.

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SECTION 5: PROGRAM ACTIVITIES FOR SEWER OVERFLOW RESPONSE PROTOCOL

Per Paragraph 38.c. of the 2ACD, MSD's initial Sewer Overflow Response Protocol (SORP) was approved by EPA/KEEC on August 22, 2006. MSD is required to review the SORP annually and propose changes as appropriate as a component of the 2ACD Mid-Year Report, and provide updates to the Louisville Regional Office of the Division of Water within 15 days of incorporation of the update. The approved document can be viewed on the MSD Project WIN website msdprojectwin.org. Highlights of SORP program implementation are outlined below.

5.1. DISCHARGE DEFINITIONS AND DOCUMENTATION

MSD enters and maintains information related to unauthorized discharges and overflows that are observed by MSD staff in the Infor Public Sector (IPS) asset management system utilizing procedures reviewed and improved through efforts associated with components of the Sewer Overflow Response Protocol (SORP), as required under the Second Amended Consent Decree. These overflows and discharges are categorized using the following categories:

- Asset Type
 - Water Quality Treatment Center (WQTC)
 - Combined Sewer Overflow (CSO)
 - Collections System Assets associated with a Sanitary Sewer Overflow (SSO)
 - Pump Stations –sanitary, flood and viaduct pump stations
 - Access Points – manholes, valves and inlets
 - Mains – sanitary and combined system mains
 - Service Connections – customer service lines
- Weather – Dry or wet
- Result – Waters of the United States (WUS), Exterior (i.e., to the ground), or Interior (i.e., inside a building)
- Cause – The issue that caused the discharge, including the following groups:
 - Bypass / Upset at a WQTC (or Blending at Jeffersonstown WQTC, for discharges that occurred prior to WQTC elimination) as defined by permit
 - Capacity – Lack of Capacity or Pumped Overflow during wet weather
 - Maintenance & Operations Issue – Electrical Problem at MSD, Grease Blockage, Mechanical Failure, Obstruction (Not Grease or Roots), Power Outage, Pumped due to USACE Manual Requirements, Roots, Structural Issue, or Utility Damage

All overflow reporting documentation is stored in MSD's asset management system, IPS. Unauthorized discharges to the Waters of the United States (WUS) have been reported to the Kentucky Energy and Environment Cabinet (KEEC) and the Environmental Protection Agency (EPA) per the approved SORP.

MSD has developed performance measures to monitor the operation of the collections system and WQTCs, with the goal of reducing sewer overflows and improving surface water quality. The data reported in this document is the best, most up-to-date data available as of the document date. There may be changes to historic data as the data is reviewed for quality and accuracy and updated on a continuous basis by MSD administrative and field staff.

Table 5.1. Hauling Operations (gal)

FY	ELECTRICAL PROBLEMS AT MSD	LACK OF SYSTEM CAPACITY	MECHANICAL FAILURE	POWER OUTAGE (LG&E)	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET
FY20	0	136,900	26,000	0	4,872,600	0
FY21	0	386,820	20,000	0	117,000	3,000
FY22	10,000	100,000	71,000	5	202,500	0
FY23	0	110,000	0	90,000	4,510	35,000
FY24	0	126,000	0	0	86,510	0



5.2. OVERFLOW MANAGEMENT AND FIELD DOCUMENTATION

Recurring Programmatic Activities

- Documented overflows and unauthorized discharges to waters of the US (WUS) during the reporting period as documented in Section 5.1.
- Hauled sewage from pump stations to mitigate sanitary overflows as indicated in Table 5.1.
- Reported discharges that reached the WUS within 24 hours as shown in Table 5.2. Discharges that were not reported within 24 hours are explained in Table 5.3.

Table 5.2. Discharge Notifications

TOTAL DISCHARGES	REPORTED WITHIN 24 HOURS	RESULT
119	118	99%

Table 5.3. Late Discharge Notifications

WORK ORDER #	REPORT TIME (HRS)	CAUSE
3753576	33	DISCHARGE WAS ADDED TO IPS 2/11/24 20:02 AND SHOULD HAVE BEEN PICKED UP BY THE DISCHARGE NOTIFICATION PROCESS ON 2/12/24 01:00. DATA ENTRY ERROR RESULTED IN THE WORK ORDER BEING EXCLUDED FROM THE DISCHARGE NOTIFICATION PROCESS. DATA WAS UPDATED THE NEXT DAY ON THE SAME SHIFT AND THE DISCHARGE WAS REPORTED 2/13/24 01:00.

- 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 reporting period, MSD executed a total of 577 wet weather inspections on a total of 14 days, and documented 80 unauthorized discharges through route reconnaissance.
- Monitored telemetry for overflow reporting and response purposes.
- Scheduled additional field reviews of SORP procedures after rain events to both ensure successful implementation and to assist with the annual SORP overall review.

5.3. REGULATORY REPORTING AND DATA MANAGEMENT

Recurring Programmatic Activities

- Conducted daily, monthly, and quarterly data reviews with staff from Engineering and Operations Divisions to ensure accuracy and consistency in reporting.
- Performed a detailed review and trend analysis on the discharge data and incorporated the findings into the Quarterly SORP training.
- Updated assets in IPS when new overflow locations are identified.

5.4. STAFF TRAINING & COMMUNICATION

Recurring Programmatic Activities

- Conducted 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. SORP training activities are detailed in Table 5.4. Training module descriptions can be found in the latest version of the SORP manual, available at msdprojectwin.org.

Table 5.4. SORP Training Details

TRAINING MODULE	STAFF TRAINED
Annual	482
Assessment, Mitigation, & Documentation	319
Preparing for Overflows, Monitoring, & Mobilization	324
Public Notification & Overflow Cleanup	298
Reporting & Follow-up	310

- Scheduled and administered SORP Quarterly and Annual Training.
- Reviewed and updated the data associated with overflows.

5.5. PUBLIC NOTIFICATION AND COMMUNICATION

Refer to Section 6: Program Activities for Public Outreach, Education, Notification and Participation for information regarding public notification.

SECTION 6: PROGRAM ACTIVITIES FOR PUBLIC OUTREACH, EDUCATION, NOTIFICATION AND PARTICIPATION

Per Paragraph 36 of the 2ACD, MSD has established a multidisciplinary Wet Weather Team and a program for public information, education, and involvement. This program is described fully in Volume 1, Chapter 3 of the 2021 IOAP Modification. Wet Weather Stakeholder Team meeting minutes, the 2021 IOAP Modification, and public education materials can be viewed on the MSD Project WIN website, msdprojectwin.org. Highlights of public outreach implementation are outlined below.

6.1. PUBLIC NOTIFICATION PROGRAM

MSD has developed a program aimed at notifying the community of the objectives of the 2ACD, and ways to reduce the risks of coming into contact with sewage overflows.

6.1.1. OVERFLOW ADVISORY SIGNS

Recurring Programmatic Activities

- Compared documented overflow locations against existing sign locations to ensure needed signs are in place, and updated the sign inventory as needed.
- Performed the annual sign inspection process in the spring as scheduled in IPS. There were 1,165 signs inspected, 1,151 signs cleaned, and 421 replaced.

6.1.2. ELECTRONIC NOTIFICATIONS

Recurring Programmatic Activities

- Utilized the Louisville Metro e-mail alert system to broadcast messages to the public. Through this, customers are able to sign up to receive email alerts regarding sewer overflows.
- Provided notification on the MSD website (louisvillemsd.org) and MSD's 2ACD website (msdprojectwin.org) for wet weather overflows during rain events and unauthorized discharges of more than 1,000 gallons.

6.1.3. PRINT NOTIFICATIONS

Recurring Programmatic Activities

- Provided annual notification to the community at large in a Courier Journal newspaper advertisement, advising the use of caution around streams during and immediately following rain events, as the streams may contain untreated sewage.
- Mailed 668 FOG residential public outreach letters to areas that have FOG issues during this reporting period. The public service outreach informed residents of a recent sanitary sewer blockage occurrence near their home, as well as measures that could be taken within a residential dwelling to prevent any further occurrences.
- Mailed 181 Project WIN information packets during this reporting period to customers who call with questions about the Amended Consent Decree – specifically regarding overflows, discharges, plumbing modification and the surcharge fee.

- Distributed the overflow notification annual mailing to over 20,000 residents who live within 500 feet of Beargrass Creek and/or the Ohio River, advising the use of caution around streams during and immediately following rain events, as the streams may contain untreated sewage.

6.2. PUBLIC EDUCATION PROGRAMS

A public education program about Louisville MSD’s primary business functions of wastewater treatment, storm-water management and flood protection has been developed and is in use across multiple platforms. MSD uses earned media through local and regional outlets to educate the public about MSD’s vital services, initiatives, 2ACD projects and more.

Recurring Programmatic Activities

- Identified areas of public knowledge requiring additional effort and attention and target public education efforts to fill the gaps, including through the Project WIN / MS4 Public Behavior Change Assessment Survey, which is currently underway. For future Project WIN surveys, MSD sees significant benefits in aligning these efforts with the NPDES process as laid out in the MS4 permit requirements. There are potential enhancements to the survey that will be proposed prior to the next MS4 survey.
- In partnership with UofL, MSD supported the use of a “Cornerstone” course with a spring semester audience. The course allows freshman engineering students to design, build, and optimize a physical model of a combined system, including wet-weather storage and treatment. This is a unique opportunity to engage existing customers on how the system works, the water quality benefits of Consent Decree program investments, and the shared responsibility of achieving safe, clean waterways.

Table 6.1. Public Education Workshops & Activities

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
July 4, 2023	Waterfront Park 4th of July	MSD staff shared the enviroscape model and a macroinvertebrate activity with attendees of the Waterfront Park 4th of July celebration, primarily families with elementary to middle school aged children. The enviroscape provided a visual demonstration to discuss watersheds and impacts of pollution.
July 8, 2023	Alberta O. Jones Park Day	MSD was invited to table at the Alberta O. Jones Park Day event, which celebrated the legacy of the park’s namesake including unveiling of a mural that will be incorporated in the park. MSD provided information about the history of flooding and the FEMA buyout program in this area, which lead to the creation of the park. MSD also discussed ongoing projects in this neighborhood, including catch basin repair and replacement, and the Western Outfall Rehabilitation. The enviroscape was presented to event attendees.
July 10, and July 12, 2023	UofL Cornerstone Course	MSD has helped develop material for an engineering course at U of L where students design, build, and optimize a physical model of a combined system, including wet-weather storage and treatment. MSD was able to visit the class to talk to students about their projects, and answer their questions about the combined system and MSD in general.
April 23, 2023, and June 26, 2024	MSD CIAIRity (Odor Control) Public Meeting	In-person public meeting hosted by MSD to discuss odor control program. The presentation included sources of odor, and MSD efforts to address odor issues in the community, and concluded with an opportunity for public input. Meetings were recorded and posted publicly to YouTube.
August 17-27, 2023	Kentucky State Fair Booth	MSD partnered with Ripple Effects to host a booth at the Kentucky State Fair. Displays included native plants, information regarding how rain gardens benefit water quality and stormwater, and a macroinvertebrate activity demonstrating how bugs can relate to stream health. Native plant seed packets, rain garden handbooks, rain garden plant guides and Mandy the Salamander books were distributed.

Table 6.1 Public Education Workshops & Activities

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
September 4, 2023	Mayor's Labor Day Hike, Bike, Paddle Event	MSD had a table at the Hike, Bike, Paddle event to discuss safe, clean waterways for paddle sports and recreation. MSD also participated in the paddle portion of the event with a dedicated voyager canoe flying an MSD flag, and seven MSD employees plus friends paddling through the lock. At the table MSD gave away Waterfront & Beargrass Creek pocket guides, dog poop bags, and sediment pollution stickers.
October 2-3, 2023	WEFTEC Presentations	Presentations at the Water Environment Federation Technical Exhibit & Conference (WEFTEC) on water management and technology.
October 25, 2023	USGS Open House Presentation	Colette Easter presented at the USGS Open House about the MS4 Monitoring Program and other watershed initiatives currently underway at MSD.
October 26, 2023	Floyds Fork Water Quality Treatment Center (WQTC) Tour	15 members of the Local 502 Plumbers & Pipefitters Union visited Floyds Fork WWQTC for a tour relating wastewater to a plumbing career.
January 18, 2024	MSD "Can You Dig It?" Event	Event to inform contractors about upcoming capital construction projects and other contract opportunities with MSD.
February 17, 2024	Gravy Cup	Mandy the Salamander and her handler made an appearance the Gravy Cup. There were Mandy activities for the kids and handouts with information about fats, oil, and grease disposal.
March 5, 2024	KAMM Presentation: Urban Reforestation	Meredith Meyers presented at the Kentucky Association of Mitigations Managers Annual Conference about MSD's Urban Reforestation Program.
April 19, 2024	Parklands Earth Day Fest	MSD participated in this free public event celebrating Earth Day at the Woodland Pavilion in Broad Run Park. MSD shared information on rain gardens and general tips for keeping waterways healthy.
April 24, 2024	KSPE Presentations on IOAP Projects	Jacob Mathis and Brandon Flaherty presented at the annual convention for the Kentucky Society of Professional Engineers (KSPE) about the Waterway Protection Tunnel and the Paddy's Run Flood Pump Station Rehabilitation Project.
May 21, 2024	MSD Field Day	MSD conducted the Annual Field Day event with presentations about green infrastructure, current projects, and outreach opportunities.
May 29, 2024	Waterfront Wednesday*	Waterfront Wednesday is Louisville Public Media's free concert series that takes place at Big Four Lawn. MSD's booth focused on promotion of the Fats, Oils, and Grease (FOG) program, water quality topics including picking up pet waste and keeping it out of our streams, and sharing the story and activity book of Mandy the Salamander.
June 4 and June 13, 2024	Alberta O Jones Park Story Corner	Eco-kids Story Corner presented by Play Cousins Collective with a special appearance from Mandy the Salamander. After the kids had read books and done activities (lead by Play Cousins) related to habitats and water, Mandy made an appearance to share about water quality and answer questions from the kids. This was followed by breakout groups for snacks and craft activities, where the kids could meet Mandy and books and activity books were distributed.
June 28, 2024	Floyds Fork WQTC Tour	MSD staff presented a tour of Floyds Fork WQTC for the Division of Compliance Assistance
*This activity also satisfies NMC 7 requirements related to Pollution Prevention Programs.		

- Provided information on MSD’s Green Infrastructure programs, Louisville’s tree canopy, sewer overflow prevention, pollution prevention and other topics, including the events listed in Table 6.1.

6.2.1. RADIO AND TV ACTIVITIES

Recurring Programmatic Activities

- Coordinated with Metro TV to air broadcasts of public input meetings listed in Table 6.2. More information about public information meetings can be found in 6.3.1. IOAP Project and Program Meetings.

Table 6.2. Metro TV Broadcasts

PROJECT	PHASE	AIRINGS
clAIRity Program Overview	Educational Content	21
Morris Forman Odor Control Meeting	clAIRity Public Input Meeting	18
Stormwater Drainage	Educational Content	17
Wastewater Treatment	Educational Content	15
Waterway Protection Tunnel	Commissioning	15
MSD Services	Educational Content	9
Ohio River Tunnel	Construction Meeting	8
Shawnee Park Basin	Educational Content	1

- Utilized various media outlets, including TV, radio and the newspaper, to serve as a conduit for disseminating information to the public.

6.2.2. PRINTED MEDIA ACTIVITIES

Recurring Programmatic Activities

- Distributed a Waterfront and Beargrass Creek Walking & Paddling Guide, which includes information on CSOs, green infrastructure and ideas to reduce SSOs and mitigate CSOs.
- Utilized direct mail communications through post card, letters and bill inserts external communications.
- Purchased public service advertising messages in the Courier Journal, Business First, Oldham Era, and the Lane Report, reaching an estimated 179,000 people for 2ACD messaging.

6.2.3. DIGITAL MEDIA ACTIVITIES

Social media, MSD’s website (louisvillemsd.org), and MSD’s 2ACD website (msdprojectwin.org) are important methods to reach and educate the public. MSD is on Facebook, X, LinkedIn, and Instagram.

Recurring Programmatic Activities

- Maintained the 2ACD website, which includes a repository of public documents related to Project WIN, tips for customers to help control overflows through their personal actions, information about the history and background of Project WIN and a place to sign up for overflow advisory emails warning when significant precipitation has caused overflows in MSD’s system. The Project WIN website can also be accessed by navigating through the Consent Decree link on MSD’s website.
- Maintained the Overflow Advisory Level indicator on MSD’s website and MSD’s 2ACD website. The indicator provides important information on the condition of area streams and shows a warning if overflows are likely to be happening or have happened in the past 48 hours.

- Included 2ACD compliance, wastewater facility upgrades, and aging infrastructure as key topics in the Critical Repair & Reinvestment Plan. Public education about this initiative continues to include posts on MSD's website and social media accounts.
- Released monthly social media ads containing messages related to upcoming IOAP project public meetings when applicable.
- Augmented print ads with a digital campaign which continued to increase awareness of sewer overflows.
- Released 388 unique posts on topics including environmental awareness, outreach programs, events, health and safety, and public meetings. Between Facebook, Instagram, and X, received over 413,615 impressions from 350,577 users.
- Shared the StreamLine through email, reaching 75,000 customers and staff quarterly. 2ACD-related articles are contained in each issue of this newsletter.
- Provided the Waterfront and Beargrass Creek Walking & Paddling Guide online at louisvillemsd.org/programs/education and louisvillemsd.org/at-home.
- Provided information on MSD's green infrastructure incentive programs, Louisville's tree canopy, sewer overflow prevention, pollution prevention and other topics.
- Provided information and videos illustrating wastewater treatment, stormwater/drainage, and flood protection online at louisvillemsd.org/what-we-do.
- Shared an animated short titled "Club Flush" with characters from the Bowl Patrol. The Bowl Patrol are characters created for MSD to educate the public about what is and isn't safe to flush.
- Maintained the education web-page (louisvillemsd.org/programs/education) with user-friendly links that direct to pages titled Bowl Patrol, Speaker Request, Book a field trip, Classroom Education, At home, and Mandy the Salamander. The Mandy the Salamander page contains a video, storybook, puzzles, games, and videos of steam testing to educate younger children about the importance of clean waterways.
- Used the Careers web-page (louisvillemsd.org/careers) to share information about MSD's role in the community and potential employment opportunities.

FY24 Reporting Period

- Updated MSD's water quality and floodplain management websites to improve publicly accessible information, including creating an online plant guide (<https://louisvillemsd.org/plantguide>) which can be used to help determine the best plants to use for green infrastructure projects.

FY25 Reporting Period

- Additional updates to the water quality website are planned for the upcoming reporting period.

6.3. 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 2ACD program elements.

Recurring Programmatic Activities

- Presented, attended, and / or facilitated meetings related to green infrastructure as detailed in Table 6.3.
- Presented, attended, and / or facilitated meetings related to clean streams as detailed in Table 6.4.

Table 6.3. Green Infrastructure Workshops & Activities

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
November 6, 2023	Manual Environmental Club and Beta Club Seed Packets	The Manual High School Environmental Club and Beta Club made seed packets for the MS4 group to hand out at future events. MSD provided all the materials to make the seed packets. The students made about 1000 packets.
March 9, 2024	Louisville Grows Parkland and California Neighborhood Tree Planting Event*	Volunteer tree planting event in the Parkland and California neighborhoods. Hosted by Louisville Grows, with trees provided by MSD's Urban Reforestation Program.
April 21, 2024	Douglass Hills Earth Day Market	Outreach event in the Middle Fork Beargrass Creek Neighborhood. MSD set up a table at the Earth Day Market to discuss stormwater capture and treatment with rain gardens.
April 24, 2024	KSPE Presentation on Green Infrastructure*	Colette Easter and Neil Crawford (QK4) presented at the KSPE Annual Convention in Owensboro, KY on underground infiltration basins lessons learned. The presentation included an overview of the MS4 program, infiltration and detention stormwater needs, and the design, construction, maintenance, and operation lessons learned.
May 15, 2024	Bloom Elementary Rain Garden Workshop*	MSD lead a rain garden workshop for 5th grade Green Team at Bloom Elementary. MSD discussed how stormwater gets polluted, potential solutions, and then walked through how to build a rain garden.

*This activity also satisfies NMC 7 requirements related to Pollution Prevention Programs.

Table 6.4. Clean Stream Workshops & Activities

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
September 30, 2023	Trinity High School Trash Pick Up*	Trash pick-up event with Trinity HS Key Club held at St. Mathews Community Park. Students and staff picked up 21 bags of trash from Sinking Fork creekbed and surrounding areas.
October 21, 2023	Beargrass Creek Sweep*	Trash pickup event at the Butchertown Greenway, Big Rock Pavilion and St Xavier High School.
March 23, 2023	Park Clean Up*	MSD hosted clean up events at Watterson Lake Park, Sun Valley Park, and Sylvania Park with the assistance of 319 funding as part of the Mill Creek Watershed planning efforts. MSD also hosted a park clean up event at St Matthews Community Park. Seven dump trucks full of trash were collected from the four parks. Participants included Trinity High School students, city council representatives, community volunteers, and MSD staff.
April 20, 2024	Beargrass Creek Earth Day Sweep*	MSD, with the assistance of 319 funding, helped support a cleanup of Middle Fork Beargrass Creek, partnering with Council Districts 8&9, the Louisville Olmsted Parks Conservancy, Metro Solid Waste Clean Collaborative, the Ohio River Valley Water Sanitation Commission, Kentucky Waterways Alliance, and the Beargrass Creek Alliance.

*This activity also satisfies NMC 7 requirements related to Pollution Prevention Programs.

Table 6.5. Outreach Activities for Students

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
September 8, 2023	Indiana University SE Field Trip to Floyds Fork WQTC.	MSD Staff presented to students from Indiana University SE on MSD's services and discussed career opportunities at MSD. 15 students attended this field trip to Floyds Fork WQTC.
September 11, 2023	University of Louisville Guest Lecture	MSD staff presented to the University of Louisville CEE 694 course (Watershed Erosion, Sedimentation, and Water Quality). Discussion topics included the MS4, MSD's responsibilities, MSD's monitoring program, EPSC, sedimentation concerns, and BMPs.
September 12, 2023	University of Louisville Guest Lecture	MS4 team members presented to the UofL GEOG390 course. Topics included Clean Water Act, stream monitoring, data analysis, and how our behavior affects waterway health.
September 18, 2023	University of Louisville Field Trip to Beargrass Creek*	MSD staff was a guest for a paddle up Beargrass Creek with the UofL CEE694 class. Topics of conversation included sediment and its origins, water quality parameters, CSOs, Beargrass Creek History, and a macroinvertebrate assessment.
September 22, 2023	Grace James Academy Field Trip to Floyds Fork WQTC	30 middle school students from Grace James Academy visited Floyds Fork WQTC and received a tour.
September 23, 2023	Payne Hollow Water Quality Field Trip	MS4 Team visited Payne Hollow with 26 students from UofL and UK. Students were from a mix of backgrounds, but included Environmental Engineering, Landscape Architecture, and Art History. Water Quality discussion included an on-stream demonstration of streamside chemistry and sonde operation. MSD's Citizen Science Program was discussed and promoted.
December 15, 2023	Grace James Academy Field Trip to Floyds Fork WQTC	30 middle school students from Grace James Academy visited Floyds Fork WQTC and received a tour.
January 31, 2024	University of Louisville Guest Lecture	MSD staff presented to the UofL Public Health Practice Class on MSD's core services and their relation to public health.
March 5, 2024	Bellarmino University Field Trip to Floyds Fork WQTC	Students from the Environmental Studies program at Bellarmine University visited Floyds Fork WQTC and received a tour and presentation on MSD's services.
March 8 and March 15, 2023	Manual High School Field Trip to Floyds Fork WQTC	Science classes from Manual High School attended the MSD hosted field trip at the Floyds Fork WQTC. During this tour students were able to tour the process of the water quality treatment center and learned how MSD works to protect our communities water quality. The students then were given the opportunity to learn about the watershed monitoring program and how the instream data is collected and monitored to determine current and potential improvement. MSD also collects macroinvertebrate samples as an indicator of pollution in the water column.
March 21, 2024	Trinity Key Club Talk	MSD staff shared information about stormwater and green infrastructure with the Trinity High School Key Club.
March 22, 2024	Grace James Academy Field Trip to Floyds Fork WQTC	30 middle school students from Grace James Academy visited Floyds Fork WQTC and received a tour.
April 9, 2024	Sacred Heart Academy Field Trip to Floyds Fork WQTC	20 high school students from Sacred Heart Academy visited Floyds Fork WQTC and received a tour.

Table 6.5 Outreach Activities for Students

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
April 15, 2024	University of Louisville Guest Lecture	MSD staff presented to UofL's CEE 471 course about the wastewater treatment process.
April 26, 2024	Peewee Valley Environmental Day	MSD lent OHM Advisors the enviroscape to be shared with 90 students from St. Aloysius Catholic School at the Peewee Valley Environmental Day.
April 30, 2024	Marian Moore Middle School Field Trip*	22 middle school students visited Beargrass Creek via canoe trip with River City Paddlesports. MSD staff met with students at the community boathouse prior to the canoe trip and presented about MSD's three core services, stormwater, and water quality in Beargrass Creek.
May 13, 2024	Fern Creek Elementary Water Quality Lesson	MSD staff presented in five 3rd grade classrooms on MSD and water quality using part of the activity "Sum of the Parts" from the Project WET curriculum.
Ongoing	Kentucky Science Center Waterway Protection Tunnel Exhibit	MSD partnered with the Kentucky Science Center to create an exhibit on the Waterway Protection Tunnel and how it keeps waterways safe and clean for local wildlife.
*This activity also satisfies NMC 7 requirements related to Pollution Prevention Programs.		

- Presented, attended, and / or facilitated student outreach as detailed in Table 6.5.

FY24 Reporting Period

- Developed an algae brochure with the assistance of 319 funding to help the public better understand how nonpoint source pollution impacts algae growth.
- Created a root depth flyer and pull-up banner to help the public better understand the impacts of native plants.
- Participated in the planning and promotion of the Ripple Effects: Exploring Water in Louisville student photo contest, which encourages students to photograph what water means to them.
- Created a new outreach activity that was distributed at the Gravy Cup for kids that included FOG program messages.

6.3.1. IOAP PROJECT AND PROGRAM MEETINGS

6.3.1.1. WET WEATHER TEAM

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

Recurring Programmatic Activities

- Facilitated two (2) Wet Weather Team meetings as defined within the 2021 IOAP, Volume 1, Chapter 3, Action 3.2.2.12.
 - Conducted a Wet Weather Team meeting on November 29, 2023 at MSD's Central Maintenance Facility. WWT members were provided with a tour of the facility and participated in a facilitated discussion, with topics including an update on significant capital projects and mitigation of ongoing odor control concerns within the community.
 - Conducted a Wet Weather Team meeting on June 25, 2024 at the Paddy's Run Flood Pump Station Replacement Project site. WWT members were provided with a project overview and tour of the construction site. Facilitated discussion topics included a refresher of the Clean Water Act and CSO policy, along with the purpose and objectives of the WWT.

6.3.1.2. PUBLIC MEETINGS FOR SIGNIFICANT CAPITAL PROJECTS

Public outreach complements the public education components of Project WIN by engaging and seeking input from community stakeholders in order to successfully implement capital projects. The four-phase process for applicable Significant Capital Projects is illustrated in Figure 6.1. MSD has also adapted to allow virtual meeting forums that remove barriers for customers to participate and often supplements stakeholder meetings with educational outreach videos and informational materials available on social media, TV, and radio. The current IOAP outreach activities and public meetings are using this process to elicit qualitative and quantitative information and enhance engagement with customers. MSD is continuing to use this process to elicit qualitative and quantitative information and enhance engagement with customers. Although no applicable projects moved forward during the current reporting period, additional information regarding the Significant Capital Project Meeting Process may be found at the Project WIN Public Input Website, available at msdprojectwin.org/public-input.

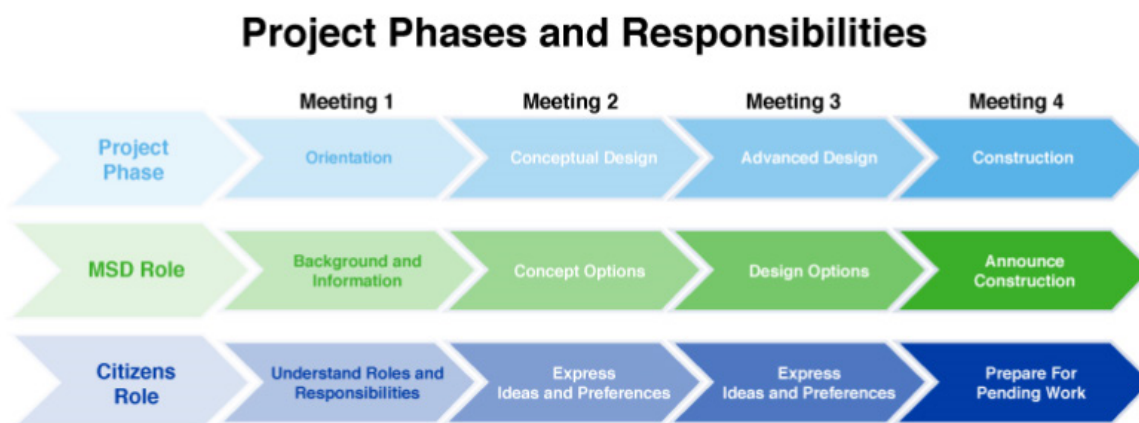
FY24 Reporting Period

- MSD held one Significant Capital Project meeting during the current reporting period. The Paddy’s Run Groundbreaking Event was held August 15, 2023.
- On May 1, 2024, MSD hosted the Assistant Secretary to the Army Honorable Michael L Connor and the Louisville District USACE Commander Colonel Rynn Mann on a tour of the Paddy’s Run Flood Pump Station Replacement Project. This was in advance of MSD’s participation in the USACE Public Private Partnership Program, which will streamline funding for critical flood protection system projects, including New Start Construction funding under the Corps FY24 Work Plan.

FY25 Reporting Period

- Plan outreach activity schedule for IOAP Projects with design underway.

Figure 6.1. MSD’s Significant Capital Project Meeting Process



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SECTION 7: PROGRAM ACTIVITIES FOR ASSET MANAGEMENT (AM)

Per Paragraph 40 of the 2ACD, the Strategic Asset Management Plan was approved by the EPA/KEEC on March 27, 2024. Per Paragraph 40.d., EPA, KEEC, and MSD acknowledge that implementation of the SAMP will result in the plan becoming a dynamic document that will be updated over time with greater specificity regarding specific projects for rehabilitation. The approved document, and any updated versions, can be viewed on the MSD 2ACD website, msdprojectwin.org. Highlights of the AM program implementation are outlined below.

7.1. STRATEGIC ASSET MANAGEMENT PLAN

Per Paragraph 40, the AM program should provide a long-term maintenance and funding strategy for the rehabilitation and renewal of MSD's aging sewer system and WQTC infrastructure, including practices and procedures to ensure that planned maintenance can be conducted and capital assets can be repaired, replaced or upgraded on time with funding available to cover the costs. MSD developed a Strategic Asset Management Plan (SAMP) that, when approved, will be the primary document that guides MSD's efforts in the administration of asset management activities. It brings focus to the strategy for improved asset management, and provides the overarching framework for achieving the mission, strategic goals, and critical success factors of the AM Program, as described in the AM Program Charter. Rather than being an extensive manual of practice on AM, the SAMP is a concise framework that creates a consistent approach for all MSD divisions which operate and maintain the assets. The SAMP framework provides the "rule book" for how facility and system plans will be created and implemented to help meet the established service level expectations and other operational objectives at the lowest life cycle cost.

The SAMP serves several purposes:

- Provides a standardized approach for the overall AM framework and business rules across all facilities and systems.
- Provides information about the information systems where the asset inventory data are located.
- Provides criticality criteria to determine individual asset inspection, replacement, and rehabilitation rankings.
- Provides information on the established levels of service (LOS) and performance measures.
- Identifies condition assessment, operation and maintenance, and renewal and replacement strategies and techniques.
- Identifies currently known data requirements and program enhancements.
- Provides a framework for capital planning and decision making.

In addition to the SAMP, Tactical Asset Management Plans (TAMPs) will define activities at the facility level. An Implementation Plan, or AM Roadmap, defines the sequencing, scheduling, and prioritization of asset management program activities. The AM Roadmap includes prioritized SAMP improvement strategies recommended for the ultimate fulfillment of a successful AM program.

7.2. TACTICAL ASSET MANAGEMENT PLANS

In recognition of the fact that each facility and system owned and operated has specific assets, conditions, and requirements under which they are operated, the management of these facility and system assets are also governed by TAMPs. The TAMP structure is like that of the SAMP, but the TAMP describes the specifics for AM at a particular location or within a particular system and identifies actions that are being implemented to achieve the standards and goals listed in the SAMP.

As TAMPs are completed, sections will be added to subsequent 2ACD Annual Reports. The TAMPs will also be updated annually, and any significant changes to the TAMPs or progress updates will be documented in subsequent 2ACD Annual Reports.

7.2.1. ALL TAMPs

Recurring Programmatic Activities

- Continued review of asset class plans and structured maintenance job plans, and coordinate updates in IPS production.
- Continued development of dashboards in Power BI to monitor levels of service/performance measure attainment.

FY24 Reporting Period

- Began review and refinement of asset rehabilitation and replacement recommendations based on condition assessment and available data.
- Implemented condition assessment by equipment type in IPS development.
- Documented requirements and interface development needs for improved workflows related to fleet equipment availability.

FY25 Reporting Period

- Continue review and refinement of process to develop asset rehabilitation and replacement recommendations based on condition assessment and available data.
- Begin design of problem / cause / remedy or failure coding strategy on asset work orders for improved rehabilitation & replacement workflow.
- Implement condition assessment by equipment type in IPS production.
- Document requirements and interface development needs for improved workflows related to labor hours and work scheduling, materials, and work order costs.
- Develop TAMP-specific training modules to be delivered online.
- Review Engineering Capital Project Managers Handbook, MSD Design Manual, MSD Standard Specifications, and MSD Construction Contract for alignment with SAMP language and processes.

7.2.2. MORRIS FORMAN WQTC TAMP

FY24 Reporting Period

- Continued refinement of physical asset inventory in IPS development environment.
- Completed review of asset class plans and structured maintenance job plans for existing assets.
- Continued development of buried asset registry.
- Began review and digitization of asset document physical library (e.g., O&M manuals, shop drawings) to make readily available to staff and identify gaps.

FY25 Reporting Period

- Finalize asset inventory refinement and move to IPS production.

-
- Develop vertical equipment onboarding methodology.
 - Continue development of buried asset registry.
 - Continue review and digitization of asset document physical library (e.g., O&M manuals, shop drawings) to make readily available to staff and identify gaps.
 - Implement service requests in IPS to improve corrective maintenance response.

7.2.3. DEREK R. GUTHRIE WQTC TAMP

FY24 Reporting Period

- Completed TAMP development November 22, 2023. TAMP includes system overview; definitions of levels of service and performance measures to be developed; documentation of asset classes and hierarchy; documentation of critical assets and risk register; documentation of condition assessment methods; and documentation of renewal/replacement justification.
- Developed first phase of dashboards in Power BI to monitor asset inventory compliance, work documentation compliance, and levels of service/performance measure attainment.
- Began refinement of physical asset inventory in IPS development environment.
- Completed review of asset class plans and structured maintenance job plans for existing assets.

FY25 Reporting Period

- Finalize asset inventory refinement and move to IPS production.
- Develop vertical equipment onboarding methodology.

7.2.4. HITE CREEK WQTC TAMP

FY24 Reporting Period

- Completed TAMP development December 15, 2023. TAMP includes system overview; definitions of levels of service and performance measures to be developed; documentation of asset classes and hierarchy; documentation of critical assets and risk register; documentation of condition assessment methods; and documentation of renewal/replacement justification.
- Developed first phase of dashboards in Power BI to monitor asset inventory compliance, work documentation compliance, and levels of service/performance measure attainment.
- Began refinement of physical asset inventory in IPS development environment.
- Completed review of asset class plans and structured maintenance job plans for existing assets.

FY25 Reporting Period

- Finalize asset inventory refinement and move to IPS production.
- Develop vertical equipment onboarding methodology.

7.2.5. CEDAR CREEK WQTC TAMP

FY24 Reporting Period

- Continued refinement of physical asset inventory in IPS development environment.
- Completed review of asset class plans and structured maintenance job plans for existing assets.

FY25 Reporting Period

- Finalize asset inventory refinement and move to IPS production.
- Develop vertical equipment onboarding methodology.

7.2.6. FLOYDS FORK WQTC TAMP

FY24 Reporting Period

- Completed TAMP development December 14, 2023. TAMP includes system overview; definitions of levels of service and performance measures to be developed; documentation of asset classes and hierarchy; documentation of critical assets and risk register; documentation of condition assessment methods; and documentation of renewal/replacement justification.
- Developed first phase of dashboards in Power BI to monitor asset inventory compliance, work documentation compliance, and levels of service/performance measure attainment.
- Began refinement of physical asset inventory in IPS development environment.
- Completed review of asset class plans and structured maintenance job plans for existing assets.

FY25 Reporting Period

- Finalize asset inventory refinement and move to IPS production.
- Develop vertical equipment onboarding methodology.

7.2.7. PUMP STATIONS, FORCE MAINS, AND GATES (PSFMG) TAMP

FY24 Reporting Period

- Continued refinement of physical asset inventory in IPS development environment.
- Completed review of asset class plans and structured maintenance job plans for existing assets.

FY25 Reporting Period

- Finalize asset inventory refinement and move to IPS production.
- Develop vertical equipment onboarding methodology.

7.2.8. GRAVITY LINEAR TAMP

FY24 Reporting Period

- Developed first phase of dashboards in Power BI to monitor asset inventory compliance, work documentation compliance, and levels of service/performance measure attainment.

FY25 Reporting Period

- Begin review of asset class plans and structured maintenance job plans.
- Review and refine linear asset onboarding process.



7.3. ASSET MANAGEMENT PROGRAM COSTS

Per Paragraph 40.e. of the 2ACD, MSD is required to spend a total of \$375M on AM projects by June 30, 2035. Eligible costs include work and/or services associated with planning, inspection, field testing, design, permitting, bidding, construction, commissioning (asset start-up), rehabilitation, replacement, and renewal of MSD’s Sewer System and WQTC infrastructure. Costs that are not eligible include work and/or services associated with asset management software, programming, financing, grant or loan applications, or annual operating budget line items (power, chemicals, labor, or services associated with preventative or corrective maintenance). Appendix N provides a list of actual costs spent on projects that meet the definition provided above for the current reporting period. Note that project spending is based on the date of expenditure, and may include projects with no spending during the reporting period. Any negative spend is associated with accruals from prior fiscal years and will be reconciled.

Cumulative tracking of asset management spending after June 30, 2020 is shown in Table 7.1. Per Paragraph 49 of the 2ACD, MSD is required to demonstrate a minimum level of spending every 5 years beginning with \$112.5M through FY25.

Table 7.1. Asset Management Program Costs - Current and Historic Reporting Periods

FISCAL YEAR	ACTUAL EXPENDITURES
FY21	\$21,130,280.57
FY22	\$35,960,567.66
FY23	\$52,370,329.17
FY24	\$74,345,193.94
Program Expenditures to Date	\$183,806,371.34

7.4. AM ACTIVITY SCHEDULE

A Gantt chart including progress of AM projects during the reporting period can be found in Figure 7.1.

Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	Timeline									
					2nd Half Qtr 3	1st Half Qtr 4	1st Half Qtr 1	2nd Half Qtr 2	2nd Half Qtr 3	1st Half Qtr 4	1st Half Qtr 1	1st Half Qtr 2		
MSD Asset Management Commitments Schedule														
A22183	15th St Emergency Sewer Repair	67%	Sun 3/29/09	Fri 4/14/34										
A22183	CONSTRUCTION	100%	Thu 3/3/22	Tue 7/30/24										
A22183	CLOSEOUT	100%	Tue 3/8/22	Sun 6/30/24										
A23182	Campground Park Excess Cost Jefferson Co	100%	Sun 6/30/24	Tue 7/30/24										
A23182	SPENDING START	100%	Wed 3/1/23	Sun 6/30/24										
A23182	CLOSEOUT	100%	Tue 3/7/23	Fri 5/31/24										
A23211	Concrete Repairs at DRG Dewatering Bldg	57%	Fri 5/31/24	Sun 6/30/24										
A23211	INITIATION & PROCUREMENT	100%	Thu 6/1/23	Mon 3/31/25										
A23211	DESIGN	100%	Thu 6/1/23	Mon 7/3/23										
A23211	CONSTRUCTION	100%	Mon 7/24/23	Mon 7/24/23										
A23211	CLOSEOUT	100%	Mon 8/7/23	Sun 3/31/24										
A24011	Asset Management Program Implementation - \$25M AM	31%	Sun 3/31/24	Mon 3/31/25										
A24011	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sun 6/30/24										
A24011	SERVICE PERIOD	100%	Sat 7/1/23	Sat 7/1/23										
A24011	CLOSEOUT	100%	Sat 7/1/23	Sun 6/30/24										
A24044	Private Property I and I Program Design	100%	Sat 6/15/24	Sun 6/30/24										
A24044	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sun 6/30/24										
A24044	DESIGN	100%	Sat 7/1/23	Sat 7/1/23										
A24044	CLOSEOUT	100%	Sat 7/1/23	Fri 5/31/24										
A24060	Campbell St Lining Emergency Projects	70%	Fri 5/31/24	Sun 6/30/24										
A24060	INITIATION & PROCUREMENT	100%	Sat 7/15/23	Sat 12/14/24										
A24060	DESIGN PERIOD	100%	Sat 7/15/23	Sat 7/15/23										
A24060	CONSTRUCTION	100%	Sat 7/15/23	Sat 7/15/23										
A24060	CLOSEOUT	58%	Fri 12/15/23	Fri 12/15/23										
A24069	Jackson St Sewer Repl Em Cont 2024-001	57%	Fri 12/15/23	Sat 12/14/24										
A24069	INITIATION & PROCUREMENT	100%	Thu 3/3/22	Wed 4/2/25										
A24069	CONSTRUCTION	100%	Thu 3/3/22	Tue 3/8/22										
A24069	CLOSEOUT	39%	Thu 7/6/23	Tue 4/2/24										

CD - \$25M AM Project Progress Project Line

Data Date: 9/17/24

Percent complete is calculated based on phase duration.



Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half					
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2		
A24101	Villages of Heritage Creek Sanitary Excess Cost	100%	Tue 8/1/23	Tue 4/30/24										
A24101	INITIATION & PROCUREMENT	100%	Tue 8/1/23	Tue 8/1/23										
A24101	SERVICE PERIOD	100%	Mon 10/30/23	Mon 4/15/24										
A24101	CLOSEOUT	100%	Sun 3/31/24	Tue 4/30/24										
A24132	Southwestern CSO Basin Bar Screen Replacement	13%	Wed 11/1/23	Sun 10/12/25										
A24132	INITIATION & PROCUREMENT	100%	Wed 11/1/23	Tue 11/7/23										
A24132	DESIGN	100%	Mon 3/11/24	Tue 3/26/24										
A24132	CONSTRUCTION	46%	Mon 6/10/24	Fri 9/27/24										
A24132	CLOSEOUT	0%	Fri 9/27/24	Sun 10/12/25										
A24133	West Goose Creek PS Rehabilitation	31%	Mon 11/27/23	Mon 4/6/26										
A24133	INITIATION & PROCUREMENT	100%	Mon 11/27/23	Thu 2/1/24										
A24133	DESIGN	100%	Thu 2/1/24	Thu 2/1/24										
A24133	CONSTRUCTION	49%	Thu 2/1/24	Sun 4/6/25										
A24133	CLOSEOUT	0%	Sun 4/6/25	Mon 4/6/26										
A24176	Hancock St Sewer Emergency Repair	9%	Mon 5/1/23	Sun 1/11/26										
A24176	DESIGN	100%	Fri 3/8/24	Fri 3/8/24										
A24176	CONSTRUCTION	32%	Mon 7/15/24	Thu 12/12/24										
A24176	CLOSEOUT	0%	Thu 12/12/24	Sun 1/11/26										
C22028	Lower Floyds Fork Facilities Plan	100%	Thu 7/1/21	Sun 6/30/24										
C22028	SERVICE PERIOD	100%	Wed 9/1/21	Tue 4/30/24										
C22028	CLOSEOUT	100%	Wed 5/1/24	Sun 6/30/24										
C22029	Ohio River Area Facilities Plan	100%	Thu 7/1/21	Sun 6/30/24										
C22029	SERVICE PERIOD	100%	Wed 9/1/21	Tue 4/30/24										
C22029	CLOSEOUT	100%	Wed 5/1/24	Sun 6/30/24										
C24014	Park DuVall Catch Basin Rehab Project Phase 2	100%	Sat 7/1/23	Sat 5/31/25										
C24014	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23										
C24014	DESIGN	100%	Sat 7/1/23	Tue 9/19/23										
C24014	CONSTRUCTION	100%	Wed 11/1/23	Fri 5/31/24										
C24014	CLOSEOUT	100%	Fri 5/31/24	Sat 5/31/25										

Data Date: 9/17/24 CD - \$25M AM Project Progress Project Line Project Line

Percent complete is calculated based on phase duration.



Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half					
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2		
D19045	MFWQTC Sodium Hypochlorite Building Relocation	98%	Tue 6/4/19	Sat 9/28/24										
D19045	CONSTRUCTION	100%	Mon 6/28/21	Fri 9/29/23										
D19045	CLOSEOUT	95%	Fri 9/29/23	Sat 9/28/24										
D19048	MSD Radio Repeaters	100%	Mon 7/2/18	Tue 1/30/24										
D19048	CLOSEOUT	100%	Sat 10/1/22	Tue 1/30/24										
D19286	SWPS Gas Monitoring and SP1 Odor Control	73%	Wed 5/15/19	Wed 10/22/25										
D19286	CONSTRUCTION	100%	Mon 6/27/22	Thu 4/4/24										
D19286	CLOSEOUT	25%	Fri 4/5/24	Wed 10/22/25										
D20007	Peabody Gate Structure Rehabilitation	52%	Mon 7/4/22	Wed 12/31/25										
D20007	ASSESSMENT PERIOD	100%	Sat 10/1/22	Tue 10/24/23										
D20007	CONSTRUCTION	70%	Tue 11/21/23	Tue 12/31/24										
D20007	CLOSEOUT	0%	Tue 12/31/24	Wed 12/31/25										
D20008	Kirby Lane Pump Station Elimination	49%	Fri 7/15/22	Mon 7/6/26										
D20008	DESIGN	41%	Mon 1/9/23	Mon 11/4/24										
D20008	EASEMENTS/LAND ACQUISITION	94%	Wed 4/5/23	Tue 10/1/24										
D20008	CONSTRUCTION	0%	Wed 12/4/24	Wed 5/7/25										
D20008	CLOSEOUT	0%	Wed 5/7/25	Mon 7/6/26										
D20011	Northern Ditch Pump Station Replacement	17%	Mon 7/3/23	Wed 3/2/33										
D20011	INITIATION & PROCUREMENT	100%	Mon 7/3/23	Wed 1/31/24										
D20011	DESIGN	46%	Wed 1/31/24	Thu 6/1/28										
D20012	SGC RTC Enhancements	52%	Tue 11/19/19	Sun 12/26/27										
D20012	DESIGN	76%	Tue 2/18/20	Sat 6/14/25										
D20148	FFWQTC Regional Facilities Plan Update	100%	Tue 9/15/20	Sun 6/30/24										
D20148	SERVICE PERIOD	100%	Tue 9/29/20	Tue 4/30/24										
D20148	CLOSEOUT	100%	Wed 5/1/24	Sun 6/30/24										
D20149	CCWQTC Admin Building Expansion	34%	Wed 8/10/22	Fri 4/23/27										
D20149	DESIGN	100%	Mon 2/13/23	Thu 6/20/24										
D20149	CONSTRUCTION	2%	Mon 8/19/24	Thu 4/23/26										
D20223	Bells Lane WWTF Polymer Dosing System Updates	100%	Mon 11/4/19	Wed 5/1/24										
D20223	CLOSEOUT	100%	Tue 11/1/22	Wed 5/1/24										
D20224	Bells Lane Disinfection System Upgrades	100%	Tue 7/23/19	Mon 4/29/24										
D20224	CLOSEOUT	100%	Wed 11/16/22	Mon 4/29/24										

Data Date: 9/17/24

CD - \$25M AM

Project Progress

Project Line

Percent complete is calculated based on phase duration.

Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	Timeline									
					2nd Half Qtr 3	1st Half Qtr 4	1st Half Qtr 1	2nd Half Qtr 3	Qtr 4	1st Half Qtr 1	Qtr 2			
D20285	MFWQTC LG Dryer Replacements	88%	Mon 12/2/19	Sat 4/12/25	█	█	█	█	█	█	█	█	█	█
D20285	CONSTRUCTION	100%	Fri 12/6/19	Fri 4/12/24	█	█	█	█	█	█	█	█	█	█
D20285	CLOSEOUT	59%	Mon 6/27/22	Sat 4/12/25	█	█	█	█	█	█	█	█	█	█
D20351	Floyds Fork Interceptor	40%	Wed 7/1/20	Sat 11/20/32	█	█	█	█	█	█	█	█	█	█
D20351	DESIGN	67%	Mon 8/17/20	Sat 6/3/28	█	█	█	█	█	█	█	█	█	█
D20351	EASEMENTS/LAND ACQUISITION	43%	Sat 4/1/23	Tue 6/30/26	█	█	█	█	█	█	█	█	█	█
D21021	FY24 MFWQTC Equipment RR	100%	Sat 7/1/23	Sun 6/30/24	█	█	█	█	█	█	█	█	█	█
D21021	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23	█	█	█	█	█	█	█	█	█	█
D21021	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24	█	█	█	█	█	█	█	█	█	█
D21021	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24	█	█	█	█	█	█	█	█	█	█
D21041	FY25 MFWQTC Equipment RR	23%	Mon 7/1/24	Wed 7/30/25	█	█	█	█	█	█	█	█	█	█
D21041	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24	█	█	█	█	█	█	█	█	█	█
D21041	SERVICE PERIOD	25%	Mon 7/1/24	Mon 6/30/25	█	█	█	█	█	█	█	█	█	█
D21041	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25	█	█	█	█	█	█	█	█	█	█
D21059	Asset Management Plan Development	100%	Wed 7/1/20	Wed 2/28/24	█	█	█	█	█	█	█	█	█	█
D21059	DESIGN	100%	Wed 7/1/20	Wed 2/28/24	█	█	█	█	█	█	█	█	█	█
D21059	CLOSEOUT	100%	Fri 2/12/21	Sun 12/31/23	█	█	█	█	█	█	█	█	█	█
D21063	Odor Management Plan	63%	Sun 12/31/23	Wed 2/28/24	█	█	█	█	█	█	█	█	█	█
D21063	CLOSEOUT	63%	Wed 7/1/20	Mon 6/30/25	█	█	█	█	█	█	█	█	█	█
D21079	Fairmount Road Pump Station Force Main Extension - Phase 2	46%	Wed 6/16/21	Mon 6/30/25	█	█	█	█	█	█	█	█	█	█
D21079	DESIGN	94%	Tue 6/1/21	Sun 7/18/27	█	█	█	█	█	█	█	█	█	█
D21079	EASEMENTS/LAND ACQUISITION	63%	Mon 9/20/21	Mon 2/17/25	█	█	█	█	█	█	█	█	█	█
D21079	CONSTRUCTION	0%	Fri 1/26/24	Wed 1/8/25	█	█	█	█	█	█	█	█	█	█
D21099	FY24 Regional WQTC Equipment RR	100%	Sun 5/18/25	Tue 5/19/26	█	█	█	█	█	█	█	█	█	█
D21099	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sun 6/30/24	█	█	█	█	█	█	█	█	█	█
D21099	SERVICE PERIOD	100%	Sat 7/1/23	Sat 7/1/23	█	█	█	█	█	█	█	█	█	█
D21099	CLOSEOUT	100%	Sat 7/1/23	Sun 6/30/24	█	█	█	█	█	█	█	█	█	█
D21109	FY25 Regional WQTC Equipment RR	23%	Sun 6/30/24	Sun 6/30/24	█	█	█	█	█	█	█	█	█	█
D21109	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Wed 7/30/25	█	█	█	█	█	█	█	█	█	█
D21109	SERVICE PERIOD	25%	Mon 7/1/24	Mon 7/1/24	█	█	█	█	█	█	█	█	█	█
D21109	CLOSEOUT	0%	Mon 7/1/24	Mon 6/30/25	█	█	█	█	█	█	█	█	█	█

Data Date: 9/17/24 CD - \$25M AM Project Progress Project Line

Percent complete is calculated based on phase duration.



Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
D21224	DRGWQTC Sodium Hypochlorite and Process Water Buildings Roof Replacement	100%	Thu 4/15/21	Thu 7/6/23						
D21224	CLOSEOUT	100%	Wed 7/6/22	Thu 7/6/23						
D21230	DRG RAS Pumps 2 and 3 Replacement	76%	Wed 5/5/21	Mon 2/17/25						
D21230	CONSTRUCTION	78%	Mon 10/24/22	Thu 12/19/24						
D21230	CLOSEOUT	0%	Thu 12/19/24	Mon 2/17/25						
D21233	MFWQTC MEB Roof Replacement	74%	Thu 4/1/21	Sun 7/27/25						
D21233	CONSTRUCTION	100%	Mon 6/27/22	Fri 6/28/24						
D21233	CLOSEOUT	19%	Fri 6/28/24	Sun 7/27/25						
D21239	MFWQTC Groundwater Wells Assistance	100%	Tue 5/18/21	Sun 7/30/23						
D21239	CLOSEOUT	100%	Fri 6/30/23	Sun 7/30/23						
D21242	DRGWQTC Lab Upgrade	100%	Tue 6/1/21	Sat 10/12/24						
D21242	CONSTRUCTION	100%	Mon 6/27/22	Fri 10/13/23						
D21242	CLOSEOUT	100%	Fri 10/13/23	Sat 10/12/24						
D21247	MFWQTC MEB HVAC Replacement	64%	Tue 6/15/21	Tue 3/31/26						
D21247	CONSTRUCTION	73%	Wed 11/16/22	Mon 3/31/25						
D21247	CLOSEOUT	0%	Mon 3/31/25	Tue 3/31/26						
D22042	FFWQTC Power Factor Correction	94%	Mon 5/24/21	Fri 11/29/24						
D22042	CONSTRUCTION	100%	Tue 2/8/22	Tue 11/28/23						
D22042	CLOSEOUT	82%	Wed 11/29/23	Fri 11/29/24						
D22080	DRG Clarifier 4-6 Mechanism Update	59%	Sat 5/1/21	Sat 5/30/26						
D22080	DESIGN	100%	Thu 5/6/21	Thu 10/12/23						
D22080	CONSTRUCTION	43%	Mon 2/5/24	Fri 5/30/25						
D22080	CLOSEOUT	0%	Fri 5/30/25	Sat 5/30/26						
D22098	CCWQTC Re-rating to 9_0 MGD	62%	Fri 10/1/21	Fri 4/10/26						
D22098	CONSTRUCTION	71%	Thu 3/9/23	Thu 4/10/25						
D22098	CLOSEOUT	0%	Thu 4/10/25	Fri 4/10/26						
D22102	MFWQTC Centrifuge Repair	100%	Fri 10/8/21	Thu 8/31/23						
D22102	CLOSEOUT	100%	Wed 8/31/22	Thu 8/31/23						
D22122	MFWQTC MEB Boiler Replacement	56%	Wed 12/1/21	Tue 9/23/25						
D22122	CONSTRUCTION PERIOD	96%	Mon 8/1/22	Mon 9/30/24						
D22122	CLOSEOUT	1%	Wed 5/1/24	Tue 9/23/25						

Data Date: 9/17/24

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Project Progress

Project Line

Percent complete is calculated based on phase duration.

Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half					
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2		
D23162	DRGWQTC Grit Electric MCC Building Roof Replacement	100%	Mon 1/2/23	Wed 7/26/23										
D23162	DESIGN	100%	Mon 2/20/23	Wed 7/26/23										
D23163	DRGWQTC Roof Repairs	100%	Mon 1/2/23	Sun 8/18/24										
D23163	CONSTRUCTION	100%	Tue 6/6/23	Sat 8/19/23										
D23163	CLOSEOUT	100%	Sat 8/19/23	Sun 8/18/24										
D23165	HCWQTC Aeration Blower Buildings, Sec 1 & 2 Roof Replacement	76%	Mon 1/2/23	Sun 3/16/25										
D23165	DESIGN	100%	Mon 4/10/23	Tue 10/3/23										
D23165	CONSTRUCTION	100%	Mon 11/6/23	Fri 3/15/24										
D23165	CLOSEOUT	58%	Sat 3/16/24	Sun 3/16/25										
D23166	MFWQTC Activated Sludge Building Roof Replacement	88%	Mon 1/2/23	Mon 11/25/24										
D23166	DESIGN	100%	Wed 3/15/23	Tue 8/1/23										
D23166	CONSTRUCTION	100%	Mon 9/11/23	Fri 11/10/23										
D23166	CLOSEOUT	80%	Sun 11/26/23	Mon 11/25/24										
D23167	MFWQTC Dechlorination Building Roof Replacement	87%	Mon 1/2/23	Sat 11/30/24										
D23167	DESIGN	100%	Fri 3/31/23	Tue 8/1/23										
D23167	CONSTRUCTION	100%	Mon 10/2/23	Fri 12/1/23										
D23167	CLOSEOUT	78%	Fri 12/1/23	Sat 11/30/24										
D23168	MFWQTC Odor Control Chemical Storage Building Roof Replacement	49%	Mon 1/2/23	Wed 9/3/25										
D23168	DESIGN	100%	Fri 3/31/23	Thu 2/29/24										
D23168	CONSTRUCTION	100%	Mon 5/6/24	Tue 9/3/24										
D23168	CLOSEOUT	0%	Tue 9/3/24	Wed 9/3/25										
D23194	MFWQTC Emergency Elevator Project	0%	Mon 5/1/23	Fri 11/29/24										
D23194	CONSTRUCTION	0%	Mon 5/1/23	Tue 10/15/24										
D23194	CLOSEOUT	0%	Tue 10/15/24	Fri 11/29/24										
D24009	AI Aquasight Software at HCWQTC	30%	Wed 11/1/23	Fri 11/15/24										
D24009	INITIATION & PROCUREMENT	100%	Wed 11/1/23	Wed 11/1/23										
D24009	DESIGN	100%	Fri 5/3/24	Fri 5/3/24										
D24009	SOFTWARE INSTALL	35%	Fri 5/3/24	Wed 10/16/24										
D24009	CLOSEOUT	0%	Wed 10/16/24	Fri 11/15/24										

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Data Date: 9/17/24

Percent complete is calculated based on phase duration.



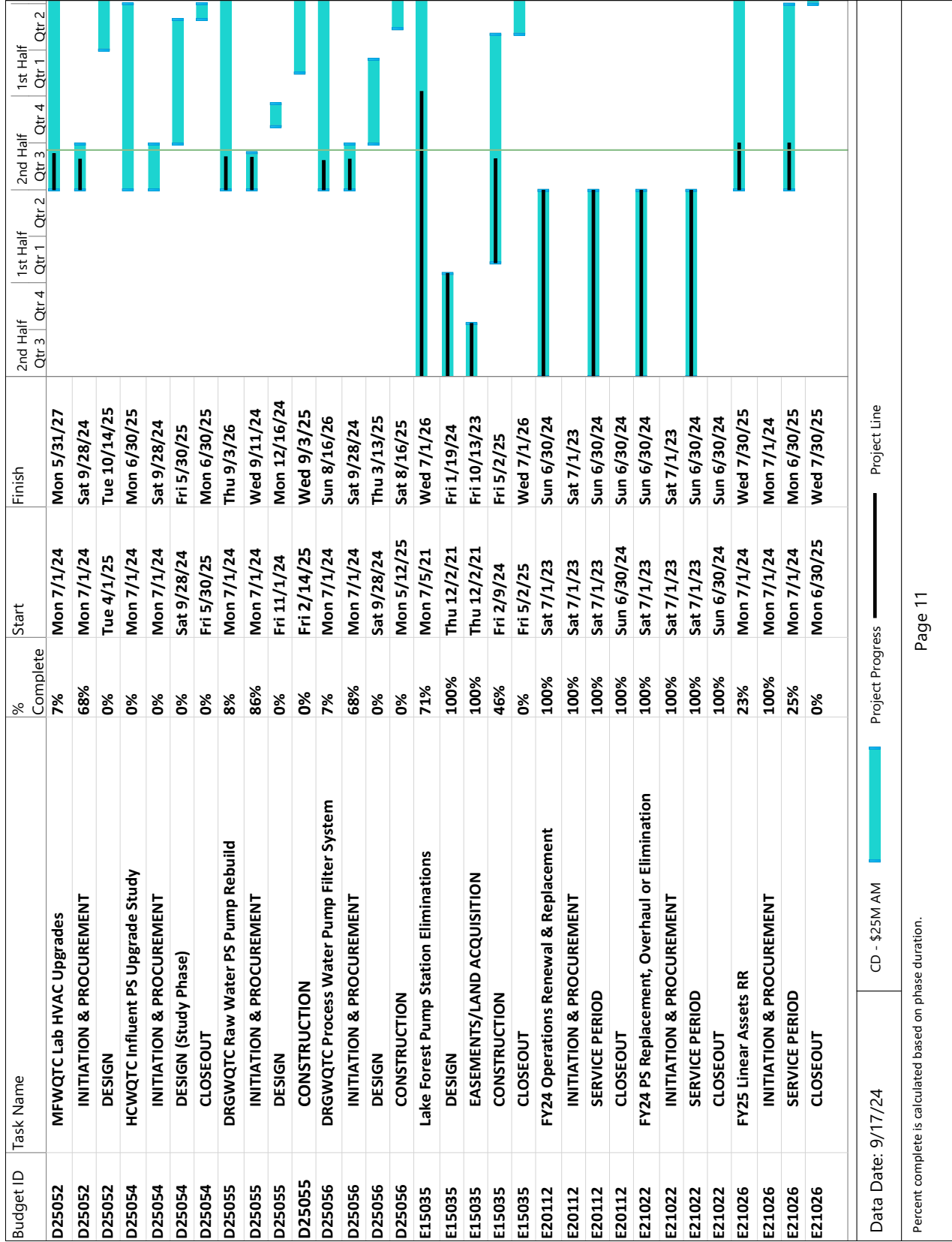
Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		2nd Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
D24106	CCWQTC South Electrical Service	30%	Fri 9/1/23	Thu 12/31/26								
D24106	INITIATION & PROCUREMENT	100%	Fri 9/1/23	Mon 10/30/23								
D24106	DESIGN	100%	Mon 10/30/23	Tue 3/26/24								
D24106	CONSTRUCTION	23%	Wed 4/24/24	Fri 10/31/25								
D24142	DRG and CC Aquasight AI Dashboard Development	80%	Fri 3/1/24	Tue 7/30/24								
D24142	INITIATION & PROCUREMENT	100%	Fri 3/1/24	Fri 3/1/24								
D24142	SERVICE PERIOD	100%	Fri 3/1/24	Sun 6/30/24								
D24142	CLOSEOUT	1%	Sun 6/30/24	Tue 7/30/24								
D24143	MFWQTC DAFT Nos 1-8 Emergency Repairs	47%	Thu 1/18/24	Sat 6/28/25								
D24143	INITIATION & PROCUREMENT	100%	Thu 1/18/24	Thu 1/18/24								
D24143	DESIGN	100%	Thu 1/18/24	Thu 1/18/24								
D24143	CONSTRUCTION	100%	Thu 1/18/24	Thu 5/30/24								
D24143	CLOSEOUT	32%	Wed 5/15/24	Sat 6/28/25								
D24169	Collection System Foul Air Extraction Study	75%	Mon 3/4/24	Wed 10/30/24								
D24169	INITIATION & PROCUREMENT	100%	Mon 3/4/24	Mon 3/4/24								
D24169	DESIGN	100%	Mon 3/4/24	Mon 3/4/24								
D24169	STUDY PERIOD	86%	Tue 3/5/24	Mon 9/30/24								
D24169	CLOSEOUT	0%	Mon 9/30/24	Wed 10/30/24								
D24170	Clay Street Emergency Sewer Repair	44%	Fri 3/15/24	Thu 5/15/25								
D24170	INITIATION & PROCUREMENT	100%	Fri 3/15/24	Fri 3/15/24								
D24170	DESIGN	100%	Fri 3/15/24	Fri 3/15/24								
D24170	CONSTRUCTION	100%	Sat 3/16/24	Wed 5/15/24								
D24170	CLOSEOUT	35%	Wed 5/15/24	Thu 5/15/25								
D24187	North Galt Avenue Sewer Replacement	7%	Mon 7/1/24	Sun 8/23/26								
D24187	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
D24187	DESIGN	32%	Wed 7/10/24	Tue 1/21/25								
D24187	CONSTRUCTION	0%	Sat 3/22/25	Sat 8/23/25								
D25023	CCWQTC Sludge Blower Upgrade	5%	Mon 7/1/24	Sun 8/29/27								
D25023	INITIATION & PROCUREMENT	40%	Mon 7/1/24	Thu 11/28/24								
D25023	DESIGN	0%	Thu 11/28/24	Sun 10/12/25								

Data Date: 9/17/24 CD - \$25M AM Project Progress Project Line

Percent complete is calculated based on phase duration.

Figure 7.1. Asset Management Schedule



Percent complete is calculated based on phase duration.



Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		2nd Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
E21027	FY25 CMOM Gravity Line Cleaning & Inspection	23%	Mon 7/1/24	Wed 7/30/25								
E21027	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
E21027	SERVICE PERIOD	25%	Mon 7/1/24	Mon 6/30/25								
E21027	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25								
E21028	FY25 CMOM I and C Implementation	24%	Mon 7/1/24	Mon 6/30/25								
E21028	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
E21028	SERVICE PERIOD	25%	Mon 7/1/24	Mon 6/30/25								
E21028	CLOSEOUT	0%	Sun 6/15/25	Mon 6/30/25								
E21029	FY25 Linear Infrastructure Rehabilitation Program	23%	Mon 7/1/24	Wed 7/30/25								
E21029	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
E21029	SERVICE PERIOD	25%	Mon 7/1/24	Mon 6/30/25								
E21029	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25								
E21031	FY25 CMOM SCAP, AAM, FOG	23%	Mon 7/1/24	Wed 7/30/25								
E21031	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
E21031	SERVICE PERIOD	25%	Mon 7/1/24	Mon 6/30/25								
E21031	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25								
E21052	FY25 PS Replacement, Overhaul or Elimination	23%	Mon 7/1/24	Wed 7/30/25								
E21052	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
E21052	SERVICE PERIOD	25%	Mon 7/1/24	Mon 6/30/25								
E21052	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25								
E21062	Modesto Pump Station Elimination	100%	Thu 6/3/21	Thu 8/29/24								
E21062	CLOSEOUT	100%	Wed 5/31/23	Thu 8/29/24								
E21070	Rosa Terrace PS Elimination	99%	Wed 7/1/20	Sat 9/21/24								
E21070	CONSTRUCTION	100%	Wed 3/16/22	Sun 7/23/23								
E21070	CLOSEOUT	96%	Sun 7/23/23	Sat 9/21/24								
E21071	Wathen Lane PS Rehabilitation	79%	Wed 7/1/20	Mon 8/18/25								
E21071	CONSTRUCTION	100%	Mon 5/2/22	Mon 7/1/24								
E21071	CLOSEOUT	11%	Sun 6/30/24	Mon 8/18/25								
E21090	Sonne Avenue PS Elimination	100%	Wed 7/1/20	Wed 6/19/24								
E21090	CLOSEOUT	100%	Sat 4/22/23	Wed 6/19/24								

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Project Progress

Project Line

Percent complete is calculated based on phase duration.

Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half					
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2		
E21091	Sanders Lane PS Rehabilitation	85%	Wed 7/1/20	Tue 6/17/25										
E21091	CONSTRUCTION	100%	Mon 5/16/22	Tue 4/30/24										
E21091	CLOSEOUT	42%	Tue 4/2/24	Tue 6/17/25										
E22116	South Shelby St. Sanitary Sewer Improvements	63%	Mon 11/8/21	Sat 8/15/26										
E22116	DESIGN	97%	Thu 9/8/22	Tue 9/24/24										
E22116	EASEMENTS/LAND ACQUISITION	100%	Mon 3/20/23	Fri 5/3/24										
E22116	CONSTRUCTION	0%	Mon 11/18/24	Sat 5/17/25										
E22116	CLOSEOUT	0%	Sat 5/17/25	Sat 8/15/26										
E22223	Lantana Drive PS No 1 Elimination	60%	Tue 6/7/22	Thu 1/28/27										
E22223	DESIGN	99%	Mon 8/15/22	Mon 9/23/24										
E22223	EASEMENTS/LAND ACQUISITION	100%	Mon 2/27/23	Fri 8/30/24										
E22223	CONSTRUCTION	0%	Mon 11/4/24	Thu 10/30/25										
E23172	Liberty Street Emergency Sewer Repair	100%	Thu 1/26/23	Sat 9/14/24										
E23172	CONSTRUCTION	100%	Fri 1/27/23	Fri 9/15/23										
E23172	CLOSEOUT	100%	Fri 9/15/23	Sat 9/14/24										
E24017	Cypress Springs PS Elimination	39%	Sat 7/1/23	Fri 8/14/26										
E24017	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Mon 1/8/24										
E24017	DESIGN	81%	Mon 1/8/24	Fri 11/22/24										
E24017	CONSTRUCTION	0%	Tue 1/21/25	Thu 8/14/25										
E24026	Fox Harbor 1 & 2 and Deep Trail Pump Station Elimination	32%	Sat 7/1/23	Sat 5/8/27										
E24026	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Mon 9/25/23										
E24026	DESIGN	71%	Mon 10/2/23	Mon 1/6/25										
E24026	EASEMENTS/LAND ACQUISITION	56%	Fri 5/10/24	Sat 11/30/24										
E24026	CONSTRUCTION	0%	Tue 1/7/25	Fri 5/8/26										
E24066	Taylor Boulevard RTC Vault Decommissioning	100%	Mon 7/31/23	Wed 8/28/24										
E24066	INITIATION & PROCUREMENT	100%	Mon 7/31/23	Fri 8/4/23										
E24066	DESIGN	100%	Mon 8/7/23	Mon 8/21/23										
E24066	CONSTRUCTION	100%	Fri 8/25/23	Tue 8/29/23										
E24066	CLOSEOUT	100%	Tue 8/29/23	Wed 8/28/24										
E24123	John Hancock Place Sanitary Sewer Improvements	100%	Mon 10/2/23	Fri 2/16/24										
E24123	INITIATION & PROCUREMENT	100%	Mon 10/2/23	Mon 12/18/23										
E24123	DESIGN	100%	Mon 12/18/23	Fri 2/16/24										

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Project Progress

Project Line

Percent complete is calculated based on phase duration.



Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half					
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2		
E24135	Bellingham Park Phase 4 Excess Cost	100%	Mon 1/1/24	Sun 6/30/24										
E24135	INITIATION & PROCUREMENT	100%	Mon 1/1/24	Mon 1/1/24										
E24135	SERVICE PERIOD	100%	Mon 1/1/24	Fri 5/31/24										
E24135	CLOSEOUT	100%	Fri 5/31/24	Sun 6/30/24										
E24190	Brown School Sewer Repair	23%	Mon 6/3/24	Sun 8/3/25										
E24190	INITIATION & PROCUREMENT	100%	Mon 6/3/24	Mon 6/3/24										
E24190	DESIGN	100%	Mon 6/3/24	Mon 6/3/24										
E24190	CONSTRUCTION	100%	Tue 6/4/24	Sat 8/3/24										
E24190	CLOSEOUT	12%	Sat 8/3/24	Sun 8/3/25										
E25012	Francell PS Elimination	0%	Mon 7/1/24	Sun 11/1/26										
E25012	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sun 9/1/24										
E25012	DESIGN	0%	Sun 9/1/24	Wed 7/16/25										
E25018	Lea Ann Way Rehabilitation	0%	Mon 7/1/24	Sat 5/1/27										
E25018	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Wed 1/1/25										
E25018	DESIGN	0%	Wed 1/1/25	Mon 12/15/25										
E25047	Muddy Fork PS Roof Replacement	11%	Mon 7/1/24	Thu 5/14/26										
E25047	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Wed 9/18/24										
E25047	DESIGN	0%	Wed 8/21/24	Mon 2/10/25										
E25047	CONSTRUCTION	0%	Fri 4/11/25	Wed 5/14/25										
E25047	CLOSEOUT	0%	Wed 5/14/25	Thu 5/14/26										
E25050	OT PLC Network Upgrades	0%	Mon 7/1/24	Tue 5/30/28										
E25050	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sat 9/28/24										
E25050	DESIGN	0%	Sat 9/28/24	Fri 5/22/26										
E25065	Inflatable Dam Replacement - SWOR2, MDS, Sneads Bran	0%	Mon 7/1/24	Sun 5/16/27										
E25065	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sat 9/28/24										
E25065	DESIGN	0%	Sun 6/1/25	Sun 12/14/25										
E25116	Belle of Louisville Force Main Replacement	3%	Mon 7/1/24	Mon 11/3/25										
E25116	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 8/5/24										
E25116	DESIGN	100%	Mon 8/5/24	Tue 8/20/24										
E25116	CONSTRUCTION	0%	Fri 10/4/24	Sun 11/3/24										
E25116	CLOSEOUT	0%	Sun 11/3/24	Mon 11/3/25										

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Percent complete is calculated based on phase duration.

Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half			
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
F15010	Gate 102 Replacement	92%	Fri 1/8/16	Wed 12/18/24								
F15010	CONSTRUCTION	100%	Fri 3/19/21	Sat 11/18/23								
F15010	CLOSEOUT	73%	Sun 11/19/23	Wed 12/18/24								
F20321	Bluegrass Fields PS Renovation	100%	Mon 3/16/20	Tue 7/11/23								
F20321	CLOSEOUT	100%	Thu 6/2/22	Tue 7/11/23								
F22210	Gate 30 Replacement	81%	Fri 7/1/22	Fri 2/28/25								
F22210	CONSTRUCTION	100%	Sun 11/6/22	Tue 1/30/24								
F22210	CLOSEOUT	57%	Tue 1/30/24	Fri 2/28/25								
F23052	Flood Gate 114 Replacement	49%	Mon 10/3/22	Thu 8/13/26								
F23052	DESIGN	99%	Fri 6/30/23	Wed 8/14/24								
F23052	CONSTRUCTION	0%	Sun 10/13/24	Wed 8/13/25								
F24062	Starkey PS Hydraulic Actuator Replacement	40%	Sat 7/15/23	Tue 12/2/25								
F24062	DESIGN	100%	Sat 7/15/23	Thu 11/2/23								
F24062	CONSTRUCTION	72%	Tue 1/2/24	Mon 12/2/24								
F24062	CLOSEOUT	0%	Mon 12/2/24	Tue 12/2/25								
F24136	Southwestern Basin Emergency Cleaning	50%	Thu 1/4/24	Thu 5/29/25								
F24136	INITIATION & PROCUREMENT	100%	Thu 1/4/24	Fri 1/19/24								
F24136	DESIGN	100%	Fri 1/19/24	Tue 3/19/24								
F24136	CONSTRUCTION	100%	Wed 3/20/24	Wed 5/29/24								
F24136	CLOSEOUT	31%	Wed 5/29/24	Thu 5/29/25								
G18147	Admiral Rd Pump Station Improvements	100%	Fri 7/1/22	Sat 6/29/24								
G18147	CLOSEOUT	100%	Fri 6/30/23	Sat 6/29/24								
G20028	MFWQTC Elevator Repair	100%	Tue 6/4/19	Wed 2/14/24								
G20028	CLOSEOUT	100%	Mon 1/16/23	Wed 2/14/24								
G23001	FY23 Renewal and Replacement	100%	Fri 7/1/22	Sun 7/30/23								
G23001	CLOSEOUT	100%	Fri 6/30/23	Sun 7/30/23								
G23086	McNeely Lake PS Elimination Excess Cost	100%	Thu 9/8/22	Sun 6/30/24								
G23086	SERVICE PERIOD	100%	Sun 1/1/23	Fri 5/31/24								
G23086	CLOSEOUT	100%	Fri 5/31/24	Sun 6/30/24								

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Percent complete is calculated based on phase duration.



Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		2nd Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
G24001	FY24 Renewal & Replacement_Wastewater	100%	Sat 7/1/23	Sun 6/30/24								
G24001	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
G24001	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
G24001	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
G25001	FY25 Renewal and Replacement	16%	Mon 7/1/24	Wed 7/30/25								
G25001	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
G25001	SERVICE PERIOD	17%	Mon 7/1/24	Mon 6/30/25								
G25001	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25								
H14126	HCWQTC Expansion	100%	Mon 11/2/15	Sat 9/30/23								
H14126	CLOSEOUT	100%	Wed 9/15/21	Sat 9/30/23								
H18168	Comprehensive Facility Plan - Five-Year Update	0%	Mon 12/2/24	Thu 12/31/26								
H18168	INITIATION & PROCUREMENT	0%	Mon 12/2/24	Thu 12/31/26								
H19002	FY23 Plumbing Modification Program	100%	Fri 7/1/22	Sun 7/30/23								
H19002	CLOSEOUT	100%	Fri 6/30/23	Sun 7/30/23								
H20021	Admiral Rd Force Main	31%	Fri 4/1/22	Mon 7/2/29								
H20021	DESIGN	53%	Sun 7/3/22	Wed 3/4/26								
H20050	CSO 016 and CSO 210 Inspection Cameras	100%	Fri 7/1/22	Mon 2/19/24								
H20050	SERVICE PERIOD	100%	Sun 1/1/23	Sat 1/20/24								
H20050	CLOSEOUT	100%	Sat 1/20/24	Mon 2/19/24								
H20053	FY24 CMOM Infrastructure Rehabilitation Program	100%	Sat 7/1/23	Sun 6/30/24								
H20053	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20053	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
H20053	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
H20058	FY23 CMOM I and C Implementation	100%	Fri 7/1/22	Sun 7/30/23								
H20058	CLOSEOUT	100%	Fri 6/30/23	Sun 7/30/23								
H20060	FY24 Linear Assets RR	100%	Sat 7/1/23	Thu 12/28/23								
H20060	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20060	SERVICE PERIOD	100%	Sat 7/1/23	Thu 12/28/23								
H20060	CLOSEOUT	100%	Thu 12/28/23	Thu 12/28/23								
H20064	FY23 CMOM Gravity Line Cleaning and Inspection	100%	Fri 7/1/22	Sun 7/30/23								
H20064	CLOSEOUT	100%	Thu 6/15/23	Sun 7/30/23								

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Project Progress

Project Line

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Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		2nd Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
H20065	FY24 CMOM Gravity Line Cleaning & Inspection	100%	Sat 7/1/23	Sun 6/30/24								
H20065	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20065	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
H20065	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
H20080	FY24 Plumbing Modification Program	100%	Sat 7/1/23	Sun 6/30/24								
H20080	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20080	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
H20080	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
H20113	FY24 CMOM SCAP, AAM, FOG	100%	Sat 7/1/23	Sun 6/30/24								
H20113	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23								
H20113	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24								
H20113	CLOSEOUT	100%	Sun 6/30/24	Sun 6/30/24								
H21051	FY25 Plumbing Modification Program	23%	Mon 7/1/24	Wed 7/30/25								
H21051	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24								
H21051	SERVICE PERIOD	25%	Mon 7/1/24	Mon 6/30/25								
H21051	CLOSEOUT	0%	Mon 6/30/25	Wed 7/30/25								
H22014	MFWQTC Groundwater Dewatering Sys. Automation	74%	Thu 6/3/21	Fri 6/20/25								
H22014	DESIGN	100%	Tue 12/28/21	Thu 7/27/23								
H22014	CONSTRUCTION	100%	Tue 7/11/23	Mon 6/10/24								
H22014	CLOSEOUT	35%	Wed 5/15/24	Fri 6/20/25								
H22016	AI Aquisight Software at CCWQTC	100%	Thu 7/1/21	Wed 8/30/23								
H22016	CLOSEOUT	100%	Mon 8/29/22	Wed 8/30/23								
H22017	Regional Biosolids Management Study	100%	Thu 7/1/21	Sun 6/30/24								
H22017	CLOSEOUT	100%	Sat 5/20/23	Sun 6/30/24								
H22018	CCWQTC Sludge Storage Tank Improvements	84%	Thu 7/1/21	Sun 4/6/25								
H22018	CONSTRUCTION	100%	Tue 8/30/22	Fri 6/7/24								
H22018	CLOSEOUT	49%	Sun 3/31/24	Sun 4/6/25								
H22022	SGC Gate Replacements	69%	Thu 7/1/21	Fri 10/31/25								
H22022	CONSTRUCTION	95%	Thu 7/8/21	Thu 10/31/24								
H22022	CLOSEOUT	0%	Thu 10/31/24	Fri 10/31/25								

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Project Progress

Project Line

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Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
H22032	DRGWQTC Sodium Bisulfite Bldg Improvements	60%	Thu 7/1/21	Sun 2/22/26	█	█	█	█	█	█
H22032	CONSTRUCTION	76%	Wed 5/24/23	Thu 1/23/25	█	█	█	█	█	█
H22032	CLOSEOUT	0%	Thu 1/23/25	Sun 2/22/26						
H22038	Sneads Branch Pump Replacement	64%	Tue 9/7/21	Tue 1/20/26	█	█	█	█	█	█
H22038	CONSTRUCTION	84%	Tue 7/26/22	Mon 1/20/25	█	█	█	█	█	█
H22038	CLOSEOUT	0%	Mon 1/20/25	Tue 1/20/26						
H22086	Floyds Fork & Ohio River Condition Assessment	100%	Wed 9/1/21	Sun 6/30/24	█	█	█	█	█	█
H22086	ASSESSMENT PERIOD	100%	Fri 10/1/21	Tue 4/30/24	█	█	█	█	█	█
H22086	CLOSEOUT	100%	Wed 5/1/24	Sun 6/30/24	█	█	█	█	█	█
H23016	California Neighborhood Trap Catch Basin Rehab	100%	Fri 7/1/22	Thu 11/28/24	█	█	█	█	█	█
H23016	CONSTRUCTION	100%	Mon 1/16/23	Thu 8/31/23	█	█	█	█	█	█
H23016	CLOSEOUT	100%	Thu 8/31/23	Thu 11/28/24	█	█	█	█	█	█
H23018	Cedar Creek Main Interceptor	46%	Thu 9/22/22	Thu 4/29/27	█	█	█	█	█	█
H23018	DESIGN	85%	Thu 9/22/22	Fri 1/31/25	█	█	█	█	█	█
H23018	CONSTRUCTION	0%	Mon 2/3/25	Thu 1/29/26						
H23039	Middletown Station PS Elimination	34%	Fri 7/1/22	Sat 10/30/27	█	█	█	█	█	█
H23039	DESIGN	78%	Mon 9/26/22	Mon 6/16/25	█	█	█	█	█	█
H23039	EASEMENTS/LAND ACQUISITION	100%	Thu 4/20/23	Wed 9/6/23	█	█	█	█	█	█
H23041	Olde Copper Ct PS Elimination	57%	Fri 7/1/22	Fri 6/12/26	█	█	█	█	█	█
H23041	DESIGN	88%	Mon 10/3/22	Fri 10/11/24	█	█	█	█	█	█
H23041	EASEMENTS/LAND ACQUISITION	100%	Wed 3/1/23	Tue 9/3/24	█	█	█	█	█	█
H23041	CONSTRUCTION	0%	Tue 12/10/24	Thu 6/12/25						
H23041	CLOSEOUT	0%	Thu 6/12/25	Fri 6/12/26						
H23043	Parkwood PS Elimination	52%	Fri 7/1/22	Fri 5/28/27	█	█	█	█	█	█
H23043	DESIGN	78%	Mon 10/3/22	Thu 10/30/25	█	█	█	█	█	█
H23043	EASEMENTS/LAND ACQUISITION	100%	Mon 4/24/23	Thu 2/8/24	█	█	█	█	█	█
H23050	WQTC Regional Lab Upgrade	45%	Fri 7/1/22	Tue 7/21/26	█	█	█	█	█	█
H23050	DESIGN	100%	Mon 2/20/23	Tue 3/5/24	█	█	█	█	█	█
H23050	CONSTRUCTION	29%	Mon 4/22/24	Mon 7/21/25	█	█	█	█	█	█

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Percent complete is calculated based on phase duration.

Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half				1st Half					
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2		
H23175	California Maple St Trap Catch Basin Rehab	40%	Tue 2/7/23	Tue 8/18/26										
H23175	INITIATION & PROCUREMENT	100%	Tue 2/7/23	Thu 7/11/24										
H23175	DESIGN	0%	Sun 9/1/24	Thu 10/17/24										
H23175	CONSTRUCTION	0%	Sat 11/16/24	Mon 8/18/25										
H23179	CSO 140 Outfall Reconstruction	61%	Wed 3/1/23	Fri 7/25/25										
H23179	DESIGN	100%	Wed 3/1/23	Mon 10/16/23										
H23179	CONSTRUCTION	100%	Mon 12/11/23	Fri 8/16/24										
H23179	CLOSEOUT	22%	Sat 6/8/24	Fri 7/25/25										
H24016	CMOM Cleaning and Inspection Legacy Data Migration	100%	Sat 7/1/23	Sun 6/30/24										
H24016	INITIATION & PROCUREMENT	100%	Sat 7/1/23	Sat 7/1/23										
H24016	SERVICE PERIOD	100%	Sat 7/1/23	Sun 6/30/24										
H24016	CLOSEOUT	100%	Sat 6/15/24	Sun 6/30/24										
H24193	Goose Creek II Rehabilitation	3%	Mon 7/1/24	Wed 6/23/27										
H24193	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24										
H24193	DESIGN	9%	Thu 8/1/24	Mon 9/29/25										
H24194	Floydsburg Road I&I Investigation and Rehabilitation	0%	Mon 7/1/24	Sun 5/31/26										
H24194	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Fri 7/5/24										
H24194	DESIGN	0%	Tue 10/1/24	Tue 11/26/24										
H24194	EASEMENTS/LAND ACQUISITION	0%	Fri 7/5/24	Wed 2/26/25										
H24194	CONSTRUCTION	0%	Thu 12/26/24	Sat 5/31/25										
H24194	CLOSEOUT	0%	Sat 5/31/25	Sun 5/31/26										
H25031	Neighborhood Odor Control Catch Basin Inspections	0%	Mon 7/1/24	Mon 6/30/25										
H25031	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24										
H25031	SERVICE PERIOD	0%	Mon 7/1/24	Sat 5/31/25										
H25031	CLOSEOUT	0%	Sat 5/31/25	Mon 6/30/25										
H25032	Chickasaw Trap Catch Basin Rehab	4%	Mon 7/1/24	Mon 8/3/26										
H25032	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 7/1/24										
H25032	DESIGN	50%	Mon 7/1/24	Sun 12/1/24										
H25032	CONSTRUCTION	0%	Sun 12/15/24	Sun 8/3/25										

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Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2nd Half		1st Half	
					Qtr 3	Qtr 4	Qtr 1	Qtr 2
H25038	Grand Avenue Force Main Odor Mitigation Study	0%	Mon 7/1/24	Mon 6/30/25	█	█	█	█
H25038	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sat 9/28/24	█	█	█	█
H25038	DESIGN (Study Phase)	0%	Sat 9/28/24	Fri 5/30/25	█	█	█	█
H25038	CLOSEOUT	0%	Fri 5/30/25	Mon 6/30/25	█	█	█	█
H25039	ORFM Odor Mitigation Study	0%	Mon 7/1/24	Mon 6/30/25	█	█	█	█
H25039	INITIATION & PROCUREMENT	0%	Mon 7/1/24	Sat 9/28/24	█	█	█	█
H25039	DESIGN (Study Phase)	0%	Sat 9/28/24	Fri 5/30/25	█	█	█	█
H25039	CLOSEOUT	0%	Fri 5/30/25	Mon 6/30/25	█	█	█	█
H25053	Bellis Lane Odor Mitigation - EQ and HRT	10%	Mon 7/1/24	Wed 11/4/26	█	█	█	█
H25053	INITIATION & PROCUREMENT	100%	Mon 7/1/24	Mon 8/19/24	█	█	█	█
H25053	DESIGN	0%	Tue 8/13/24	Sun 4/20/25	█	█	█	█
H25053	CONSTRUCTION	0%	Thu 6/19/25	Tue 11/4/25	█	█	█	█
H25059	Taylor-Berry Catch Basin Replacement	8%	Mon 7/1/24	Sun 7/5/26	█	█	█	█
H25059	INITIATION & PROCUREMENT	67%	Mon 7/1/24	Sat 9/28/24	█	█	█	█
H25059	DESIGN	0%	Fri 11/1/24	Wed 1/1/25	█	█	█	█
H25059	CONSTRUCTION	0%	Mon 1/6/25	Sat 7/5/25	█	█	█	█
H25083	Starkey PS Odor Mitigation Chemical Use Assessment	4%	Mon 7/1/24	Mon 8/2/27	█	█	█	█
H25083	INITIATION & PROCUREMENT	31%	Mon 7/1/24	Sat 11/30/24	█	█	█	█
H25083	DESIGN	0%	Sat 11/30/24	Mon 10/27/25	█	█	█	█
H25227	E. Market St Catch Basin Replacement	0%	Tue 10/1/24	Wed 2/11/26	█	█	█	█
H25227	INITIATION & PROCUREMENT	0%	Tue 10/1/24	Tue 10/1/24	█	█	█	█
H25227	DESIGN	0%	Tue 10/1/24	Fri 11/8/24	█	█	█	█
H25227	CONSTRUCTION	0%	Wed 11/13/24	Sun 1/12/25	█	█	█	█
H25227	CLOSEOUT	0%	Sun 1/12/25	Wed 2/11/26	█	█	█	█

Data Date: 9/17/24 CD - \$25M AM █ Project Progress █ Project Line

Percent complete is calculated based on phase duration.

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APPENDIX A

AUTHORIZED DISCHARGES - WET WEATHER CSOs

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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (IN)	DISCHARGE PER RAIN (GAL/IN)	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO015	7/8/2023 18:15	7/8/2023 21:15	180	2.05	21,748,406	8.85	1	Atlas		44,584,233	1
	7/18/2023 18:15	7/18/2023 19:45	90	0.71	46,360,404	0.46	1	Atlas		32,962,248	1
	9/28/2023 4:45	9/28/2023 6:15	90	0.48	26,502,156	0.26	6	Atlas		127,475,377.00	1
	10/30/2023 4:15	10/30/2023 8:15	240	2.05	3,089,270	0.66	48	Atlas		6345360.00	1
	11/21/2023 2:00	11/21/2023 6:30	270	0.76	25,698,527	0.4	3	Atlas		19607976.00	1
	12/9/2023 16:30	12/9/2023 23:15	405	0.75	26,844,335	0.37	3	Atlas		20133251.00	1
	1/6/2024 8:45	1/6/2024 9:00	15	0.46	1,224,037	0.25	6	Atlas		564281.00	1
	1/9/2024 0:15	1/10/2024 4:15	1680	1.78	57,784,409	0.67	24	Atlas		102632895.00	1
	1/12/2024 10:30	1/13/2024 6:45	1215	1.34	66,115,801	0.6	12	Atlas		88330710.00	1
	1/24/2024 7:45	1/25/2024 6:30	1365	1.62	45,412,370	0.44	24	Atlas		73704276.00	1
	1/25/2024 18:45	1/25/2024 23:30	285	1.62	6,125,950	0.44	24	Atlas		9942416.00	1
	1/27/2024 19:30	1/29/2024 2:45	1875	0.9	55,329,213	0.35	24	Atlas		50017609.00	1
	3/6/2024 2:45	3/6/2024 13:45	660	0.67	39,663,605	0.25	24	Atlas		26495288.00	1
	3/8/2024 14:30	3/9/2024 9:45	1155	1.02	3,985,808	0.43	12	Atlas		4045596.00	1
	3/14/2024 23:30	3/15/2024 7:15	465	0.51	28,720,152	0.34	3	Atlas		14733438.00	1
	4/2/2024 7:45	4/2/2024 22:45	900	1.16	27,767,595	0.55	1	Atlas		32293713.00	1
	4/11/2024 4:00	4/12/2024 14:00	2040	1.35	64,651,800	0.45	24	Atlas		87,409,233	1
	4/19/2024 4:00	4/19/2024 6:45	165	0.61	9,990,624	0.33	6	Atlas		6074299.00	1
	4/29/2024 23:30	4/30/2024 4:15	285	0.74	13,910,206	0.47	3	Atlas		10307463.00	1
	5/3/2024 8:45	5/3/2024 10:00	75	0.59	376,696	0.29	3	Atlas		224134.00	1
	5/6/2024 3:15	5/7/2024 1:30	1335	0.75	23,373,582	0.45	1	Atlas		17576933.00	1
	5/8/2024 2:45	5/8/2024 9:45	420	0.07	17,395,524	0.04	3	Atlas		1235082.00	1
	5/8/2024 19:15	5/9/2024 9:45	870	0.61	40,486,433	0.31	3	Atlas		24858670.00	1
	5/22/2024 19:45	5/22/2024 23:30	225	0.72	7,278,846	0.63	1	Atlas		5211654.00	1
	5/23/2024 19:30	5/24/2024 3:45	495	0.25	48,523,712	0.17	3	Atlas		12082404.00	1
	5/26/2024 23:00	5/27/2024 19:30	1230	0.93	48,198,333	0.37	3	Atlas		44824450.00	1
	6/4/2024 15:00	6/4/2024 20:00	300	0.21	307,169,769	0.17	1	Atlas		63584142.00	1
	6/26/2024 16:15	6/27/2024 0:45	510	0.27	86,995,729	0.17	3	Atlas		23749834.00	1
CSO015 Total										836329127.00	28
CSO016	7/11/2023 10:45	7/11/2023 19:00	495	0.67	23,546,990	0.57	1	Atlas		15870671.00	1
	7/2/2023 6:00	7/2/2023 23:15	1035	0.54	25,301,149	0.21	24	Atlas		13662621.00	1
	7/8/2023 18:00	7/9/2023 5:30	690	2.41	8,244,553	20.45	1	Atlas		19885862.00	1
	7/18/2023 18:45	7/19/2023 2:00	435	0.53	26,941,488	0.34	1	Atlas		14278988.00	1
	8/3/2023 7:45	8/3/2023 17:15	570	0.62	28,754,136	0.34	6	Atlas		17942581.00	1
	8/7/2023 2:30	8/8/2023 7:45	1755	0.75	57,195,110	0.47	3	Atlas		42839137.00	1
	8/9/2023 21:30	8/10/2023 0:15	165	0.28	4,328,648	0.17	1	Atlas		1203364.00	1
	8/12/2023 10:15	8/12/2023 18:15	480	0.31	50,682,081	0.27	1	Atlas		15863491.00	1



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	8/14/2023 8:15	8/14/2023 21:45	810	0.53	26,608,095	0.31	3	Atlas		14128899.00	1
	8/25/2023 19:45	8/26/2023 13:15	1050	0.24	145,917,253	0.11	12	Atlas		34728306.00	1
	9/28/2023 1:45	9/28/2023 15:00	795	0.52	42,594,578	0.28	6	Atlas		22276964.00	1
	10/19/2023 20:15	10/19/2023 23:00	165	0.53	1,635,342	0.26	1	Atlas		860190.00	1
	10/28/2023 19:00	10/29/2023 10:30	930	2.1	9,037,126	0.67	48	Atlas		18950854.00	1
	10/30/2023 0:00	10/30/2023 16:30	990	2.1	17,749,945	0.67	48	Atlas		37221634.00	1
	11/21/2023 1:15	11/21/2023 20:15	1140	0.75	49,038,271	0.4	3	Atlas		36974857.00	1
	12/9/2023 16:30	12/10/2023 3:00	630	0.71	32,156,552	0.33	3	Atlas		22959778.00	1
	12/25/2023 13:15	12/26/2023 0:30	675	0.54	29,956,918	0.24	12	Atlas		16026951.00	1
	1/6/2024 7:00	1/6/2024 15:45	525	0.47	29,635,087	0.25	6	Atlas		13898856.00	1
	1/9/2024 0:15	1/11/2024 17:00	3885	1.79	61,111,328	0.67	24	Atlas		109144832.00	1
	1/12/2024 8:15	1/14/2024 14:15	3240	1.33	65,346,354	0.6	12	Atlas		87106690.00	1
	1/23/2024 11:45	1/29/2024 22:30	9285	1.62	189,513,897	0.45	24	Atlas		307012513.00	1
	2/10/2024 6:00	2/10/2024 14:45	525	0.41	39,485,026	0.27	3	Atlas		16228346.00	1
	2/22/2024 14:30	2/23/2024 4:00	810	0.74	31,884,959	0.34	12	Atlas		23722409.00	1
	2/27/2024 7:45	2/27/2024 11:45	240	0.19	10,876,180	0.15	1	Atlas		2033846.00	1
	2/28/2024 8:00	2/28/2024 8:15	15	0.17	1,615,659	0.11	3	Atlas		281125.00	1
	3/5/2024 16:30	3/7/2024 10:00	2490	0.65	107,538,837	0.25	24	Atlas		70007783.00	1
	3/8/2024 16:00	3/9/2024 12:45	1245	1.09	37,158,062	0.46	12	Atlas		40353655.00	1
	3/14/2024 23:15	3/15/2024 12:45	810	0.55	52,200,182	0.37	1	Atlas		28605700.00	1
	3/31/2024 0:30	3/31/2024 6:15	345	0.16	44,830,690	0.11	3	Atlas		7217741.00	1
	4/2/2024 7:45	4/3/2024 6:00	1335	1.1	46,427,239	0.5	12	Atlas		51302100.00	1
	4/10/2024 11:15	4/12/2024 19:00	3345	1.4	64,371,677	0.46	24	Atlas		90,313,463	1
	4/17/2024 3:15	4/17/2024 15:30	735	0.53	45,391,635	0.3	6	Atlas		24284525.00	1
	4/19/2024 1:30	4/19/2024 20:30	1140	0.65	31,880,925	0.36	6	Atlas		20722602.00	1
	4/29/2024 22:45	4/30/2024 6:45	600	0.72	24,190,065	0.45	3	Atlas		17441037.00	1
	5/3/2024 6:00	5/4/2024 15:30	2010	0.64	39,441,348	0.3	6	Atlas		25124139.00	1
	5/6/2024 3:30	5/8/2024 0:30	2700	0.79	62,843,318	0.42	1	Atlas		49520534.00	1
	5/8/2024 19:15	5/10/2024 3:15	1920	0.62	52,472,095	0.31	3	Atlas		32532699.00	1
	5/17/2024 7:15	5/17/2024 18:45	690	0.47	26,180,968	0.3	1	Atlas		12357417.00	1
	5/22/2024 19:30	5/24/2024 16:00	2670	0.74	40,627,656	0.64	1	Atlas		29901955.00	1
	5/26/2024 12:00	5/27/2024 21:15	1995	0.93	38,426,820	0.36	3	Atlas		35583235.00	1
	6/4/2024 16:15	6/5/2024 1:00	525	0.21	29,846,474	0.17	1	Atlas		6237913.00	1
	6/25/2024 18:45	6/26/2024 0:00	315	0.25	12,989,528	0.17	1	Atlas		3286351.00	1
	6/26/2024 17:00	6/27/2024 13:00	1200	0.37	66,760,497	0.25	1	Atlas		24834905.00	1
CSO016 Total										1474731517.00	43
CSO019	7/1/2023 10:30	7/1/2023 16:30	360	0.48	4,982,583	0.35	1	Atlas		2,416,563	1

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	7/8/2023 18:00	7/9/2023 1:15	435	1.1	3,262,779	0.85	1	Atlas		3598845.00	1
	8/3/2023 7:45	8/3/2023 11:45	240	0.81	2,094,478	0.46	1	Atlas		1692338.00	1
	8/7/2023 3:15	8/7/2023 19:00	945	1.63	6,087,947	1.1	3	Atlas		9917266.00	1
	8/12/2023 10:00	8/12/2023 17:30	450	0.35	5,357,590	0.3	1	Atlas		1896587.00	1
	8/25/2023 19:45	8/26/2023 8:00	735	1.24	3,715,111	0.69	3	Atlas		4621598.00	1
	9/28/2023 1:30	9/28/2023 14:30	780	1.08	1,880,190	0.56	6	Atlas		2032485.00	1
	10/30/2023 1:15	10/30/2023 14:45	810	2.12	1,312,598	0.56	3	Atlas		2780083.00	1
	1/9/2024 3:00	1/9/2024 20:15	1035	1.57	951,485	0.6	24	Atlas		1498589.00	1
	1/12/2024 12:45	1/12/2024 23:00	615	1.17	643,231	0.52	12	Atlas		755153.00	1
	3/14/2024 23:00	3/15/2024 7:45	525	0.76	4,345,144	0.51	3	Atlas		3310989.00	1
	4/2/2024 7:30	4/3/2024 0:30	1020	1.52	2,728,381	0.69	12	Atlas		4144410.00	1
	5/22/2024 19:30	5/23/2024 1:15	345	0.58	1,369,917	0.5	1	Atlas		787702.00	1
	6/26/2024 16:45	6/26/2024 21:00	255	0.89	4,500,536	0.71	1	Atlas		3982974.00	1
CSO019 Total										43,435,582	14
CSO020	7/11/2023 10:45	7/11/2023 11:15	30	0.63	117,760	0.5	1	Atlas		74660.00	1
	8/7/2023 2:30	8/7/2023 5:30	180	1.41	890,030	0.89	3	Atlas		1254053.00	1
	8/25/2023 20:15	8/25/2023 22:45	150	1.56	767,601	0.88	3	Atlas		1,194,387	1
	9/28/2023 5:30	9/28/2023 6:15	45	0.98	17,678	0.52	6	Atlas		17289.00	1
	10/30/2023 1:45	10/30/2023 4:45	180	1.89	269,522	0.59	48	Atlas		508588.00	1
	11/21/2023 1:45	11/21/2023 3:30	105	0.88	158,622	0.42	6	Atlas		138953.00	1
	12/9/2023 16:00	12/9/2023 19:45	225	0.79	643,600	0.43	3	Atlas		507157.00	1
	4/2/2024 8:15	4/2/2024 10:00	105	1.18	183,669	0.54	12	Atlas		216,913	1
	4/2/2024 18:15	4/2/2024 21:00	165	1.18	424,361	0.54	12	Atlas		501171.00	1
	5/4/2024 0:00	5/4/2024 1:30	90	0.88	432,185	0.34	24	Atlas		380322.00	1
	5/6/2024 4:15	5/6/2024 5:45	90	0.71	158,968	0.37	1	Atlas		112390.00	1
	5/6/2024 14:15	5/6/2024 15:00	45	0.71	12,618	0.37	1	Atlas		8921.00	1
	5/7/2024 12:00	5/7/2024 13:15	75	0.29	91,940	0.23	1	Atlas		26938.00	1
	5/8/2024 19:30	5/8/2024 22:30	180	0.53	1,268,021	0.25	3	Atlas		689515.00	1
	5/22/2024 20:00	5/22/2024 22:15	135	1.12	462,400	0.97	1	Atlas		516963.00	1
	6/4/2024 16:00	6/4/2024 17:15	75	0.64	134,063	0.44	1	Atlas		85532.00	1
	6/25/2024 18:15	6/25/2024 19:15	60	0.83	29,680	0.54	1	Atlas		24516.00	1
	6/26/2024 17:15	6/26/2024 22:00	285	0.89	1,685,794	0.62	1	Atlas		1498671.00	1
CSO020 Total										7,736,939	18
CSO022	7/11/2023 11:30	7/11/2023 11:45	15	0.61	686,779	0.5	1	Atlas		422369.00	1
	7/8/2023 19:15	7/8/2023 19:45	30	0.75	1,009,161	0.46	1	Atlas		754852.00	1
	8/7/2023 3:15	8/7/2023 5:15	120	1.44	762,290	0.91	3	Atlas		1096173.00	1



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	8/12/2023 10:45	8/12/2023 11:15	30	0.47	1,585,578	0.41	1	Atlas		749978.00	1
	8/25/2023 19:00	8/25/2023 22:00	180	1.81	1,413,802	1.23	3	Atlas		2558982.00	1
	12/9/2023 16:00	12/9/2023 16:15	15	0.71	571,326	0.36	3	Atlas		405641.00	1
	3/15/2024 0:00	3/15/2024 0:15	15	0.63	506,740	0.41	3	Atlas		319753.00	1
	4/2/2024 8:15	4/2/2024 8:45	30	1.15	681,297	0.53	12	Atlas		782129.00	1
	5/4/2024 0:30	5/4/2024 1:00	30	0.29	2,692,511	0.25	1	Atlas		778136.00	1
	5/6/2024 4:00	5/6/2024 4:15	15	0.61	550,575	0.3	1	Atlas		334,199	1
	5/22/2024 20:00	5/22/2024 20:45	45	1	1,304,700	0.87	1	Atlas		1304700.00	1
	6/25/2024 18:15	6/25/2024 18:30	15	0.56	665,002	0.4	1	Atlas		371071.00	1
	6/26/2024 17:45	6/26/2024 18:15	30	0.96	978,220	0.76	1	Atlas		942026.00	1
CSO022 Total										10820010.00	13
CSO023	8/25/2023 21:30	8/25/2023 21:45	15	1.81	84,551	1.23	3	Atlas		153038.00	1
CSO023 Total										153038.00	1
CSO027	8/25/2023 18:15	8/25/2023 20:45	150	1.62	1,575	0.89	3	Atlas		2547.00	1
	5/22/2024 19:30	5/22/2024 19:45	15	1.12	5,981	0.97	1	Atlas		6710.00	1
	6/26/2024 17:00	6/26/2024 17:15	15	1.09	3,869	0.86	1	Atlas		4,218	1
CSO027 Total										13475.00	3
CSO028	7/11/2023 10:30	7/11/2023 10:45	15	0.42	31,912	0.35	1	Atlas		13499.00	1
	7/8/2023 18:15	7/8/2023 18:45	30	1.07	22,874	0.79	1	Atlas		24475.00	1
	8/7/2023 4:00	8/7/2023 4:15	15	1.24	6,176	0.79	3	Atlas		7671.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.56	5,838	0.49	1	Atlas		3275.00	1
	8/25/2023 18:00	8/25/2023 21:00	180	1.62	63,968	0.89	3	Atlas		103437.00	1
	12/9/2023 16:00	12/9/2023 16:15	15	0.85	13,544	0.46	3	Atlas		11566.00	1
	4/2/2024 7:30	4/2/2024 7:45	15	1.17	7,789	0.54	12	Atlas		9113.00	1
	5/6/2024 3:00	5/6/2024 3:15	15	0.59	2,841	0.29	1	Atlas		1690.00	1
	5/22/2024 19:00	5/22/2024 19:30	30	1.12	73,562	0.97	1	Atlas		82536.00	1
	6/26/2024 16:45	6/26/2024 17:15	30	1.09	27,542	0.86	1	Atlas		30021.00	1
CSO028 Total										287283.00	10
CSO029	7/8/2023 18:15	7/8/2023 18:45	30	1.07	239,823	0.79	1	Atlas		256611.00	1
	8/7/2023 3:45	8/7/2023 4:00	15	1.24	599	0.79	3	Atlas		744.00	1
	8/12/2023 9:45	8/12/2023 10:00	15	0.56	42,086	0.49	1	Atlas		23610.00	1
	8/25/2023 20:00	8/25/2023 20:45	45	1.62	36,178	0.89	3	Atlas		58500.00	1
	12/9/2023 16:00	12/9/2023 16:15	15	0.85	4,689	0.46	3	Atlas		4004.00	1
	4/2/2024 7:15	4/2/2024 7:30	15	1.17	1,479	0.54	12	Atlas		1730.00	1
	5/22/2024 19:00	5/22/2024 19:30	30	1.12	127,099	0.97	1	Atlas		142605.00	1

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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (IN)	DISCHARGE PER RAIN (GAL/IN)	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO029 Total	6/26/2024 16:45	6/26/2024 17:00	15	1.09	61,987	0.86	1	Atlas		67566.00	1
CSO031	7/8/2023 18:30	7/8/2023 18:45	15	1.07	398	0.79	1	Atlas		555371.00	8
	8/7/2023 4:00	8/7/2023 4:15	15	1.24	0	0.79	3	Atlas		426.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.56	1,636	0.49	1	Atlas		0.00	1
	8/25/2023 18:00	8/25/2023 20:45	165	1.62	172	0.89	3	Atlas		918	1
	10/29/2023 21:00	10/29/2023 21:15	15	1.91	6	0.6	48	Atlas		278.00	1
	10/30/2023 5:45	10/30/2023 8:30	165	1.91	44	0.6	48	Atlas		11.00	1
	6/25/2024 17:00	6/25/2024 17:15	15	0.57	1	0.38	1	Atlas		84.00	1
	6/26/2024 16:15	6/26/2024 17:15	60	1.09	823	0.86	1	Atlas		0.00	1
CSO031 Total										897.00	1
CSO034	7/1/2023 10:30	7/1/2023 10:45	15	0.42	110,672	0.35	1	Atlas		2615.00	8
	7/8/2023 18:15	7/8/2023 18:30	15	1.07	91,297	0.79	1	Atlas		46814.00	1
	8/7/2023 4:00	8/7/2023 4:15	15	1.24	19,438	0.79	3	Atlas		97688.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.56	13,792	0.49	1	Atlas		24142.00	1
	8/25/2023 18:00	8/25/2023 21:00	180	1.62	103,343	0.89	3	Atlas		7738.00	1
	12/9/2023 16:00	12/9/2023 16:15	15	0.85	61,294	0.46	3	Atlas		167105.00	1
	3/14/2024 23:00	3/14/2024 23:15	15	0.55	7,681	0.37	1	Atlas		52,345	1
	4/2/2024 7:15	4/2/2024 7:45	30	1.17	28,961	0.54	12	Atlas		4209.00	1
	4/2/2024 17:15	4/2/2024 17:30	15	1.17	13,602	0.54	12	Atlas		33884.00	1
	5/3/2024 23:15	5/3/2024 23:45	30	0.84	14,231	0.32	24	Atlas		15914.00	1
	5/6/2024 3:00	5/6/2024 3:15	15	0.59	17,307	0.29	1	Atlas		11911.00	1
	5/22/2024 19:00	5/22/2024 19:30	30	1.12	179,926	0.97	1	Atlas		10298.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	0.57	19,537	0.38	1	Atlas		201877.00	1
	6/26/2024 16:15	6/26/2024 17:15	60	1.09	25,302	0.86	1	Atlas		11117.00	1
CSO034 Total										27579.00	1
CSO035	5/22/2024 19:15	5/22/2024 19:30	15	1.15	292,229	1	1	Atlas		712620.00	14
CSO035 Total										336648.00	1
CSO036	7/8/2023 18:30	7/8/2023 18:45	15	0.92	26,398	0.67	1	Atlas		336648.00	1
	8/7/2023 2:30	8/7/2023 4:30	120	1.2	30,060	0.75	3	Atlas		24233.00	1
	8/12/2023 10:15	8/12/2023 10:30	15	0.52	28,839	0.45	1	Atlas		36133.00	1
	8/25/2023 20:45	8/25/2023 21:15	30	1.96	40,270	1.53	3	Atlas		15083.00	1
	12/9/2023 16:15	12/9/2023 16:30	15	0.94	8,816	0.51	3	Atlas		78930.00	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.54	14,125	0.36	1	Atlas		8252.00	1
	3/30/2024 23:30	3/30/2024 23:45	15	0.36	23,987	0.28	1	Atlas		7585.00	1
										8635.00	1



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	4/2/2024 7:30	4/2/2024 8:00	30	1.16	67,035	0.53	12	Atlas		77962.00	1
	4/2/2024 17:30	4/2/2024 17:45	15	1.16	45,956	0.53	12	Atlas		53447.00	1
	5/3/2024 23:30	5/4/2024 0:15	45	0.97	34,869	0.37	24	Atlas		33719.00	1
	5/6/2024 3:15	5/6/2024 3:30	15	0.66	43,755	0.31	1	Atlas		28966.00	1
	5/22/2024 19:15	5/22/2024 20:00	45	1.15	29,548	1	1	Atlas		34,039	1
	6/25/2024 17:30	6/25/2024 17:45	15	0.65	45,485	0.42	1	Atlas		29565.00	1
	6/26/2024 16:30	6/26/2024 17:30	60	0.99	25,313	0.77	1	Atlas		25186.00	1
CSO036 Total										461735.00	14
CSO038	7/8/2023 18:30	7/8/2023 18:45	15	1.07	216	0.79	1	Atlas		232.00	1
	8/7/2023 2:15	8/7/2023 4:15	120	1.24	7,886	0.79	3	Atlas		9794.00	1
	8/25/2023 20:15	8/25/2023 20:45	30	1.62	1,959	0.89	3	Atlas		3,168	1
	12/9/2023 16:00	12/9/2023 16:15	15	0.85	3,575	0.46	3	Atlas		3053.00	1
	4/2/2024 7:30	4/2/2024 7:45	15	1.17	7,361	0.54	12	Atlas		8613.00	1
	5/3/2024 23:45	5/4/2024 0:00	15	0.84	59	0.32	24	Atlas		50.00	1
CSO038 Total										24910.00	6
CSO051	7/11/2023 10:15	7/11/2023 10:45	30	0.67	36,042	0.54	1	Atlas		23968.00	1
	8/12/2023 9:45	8/12/2023 10:00	15	0.45	53,978	0.39	1	Atlas		24236.00	1
	8/25/2023 20:30	8/25/2023 20:45	15	1.79	36,215	1.2	3	Atlas		64679.00	1
	5/22/2024 19:00	5/22/2024 19:30	30	0.82	18,053	0.71	1	Atlas		14786.00	1
	6/26/2024 16:45	6/26/2024 17:00	15	1.04	9,705	0.83	1	Atlas		10074.00	1
CSO051 Total										137743.00	5
CSO054	7/8/2023 18:45	7/8/2023 20:00	75	0.84	172,173	0.55	1	Atlas		144453.00	1
	8/7/2023 3:30	8/7/2023 5:00	90	1.41	101,050	0.89	3	Atlas		141975.00	1
	12/9/2023 18:15	12/9/2023 18:45	30	0.69	8,801	0.33	3	Atlas		6117.00	1
	1/9/2024 1:45	1/9/2024 4:00	135	1.5	20,283	0.57	12	Atlas		30,486	1
	1/12/2024 10:15	1/12/2024 15:15	300	1.14	318,157	0.51	12	Atlas		361109.00	1
	1/24/2024 8:00	1/24/2024 9:30	90	1.57	52,342	0.43	48	Atlas		82124.00	1
	1/27/2024 19:15	1/27/2024 19:45	30	0.95	17,975	0.36	24	Atlas		16986.00	1
	3/8/2024 20:45	3/8/2024 23:00	135	0.62	175,883	0.26	12	Atlas		108871.00	1
	3/15/2024 0:00	3/15/2024 0:45	45	0.65	28,051	0.43	3	Atlas		18177.00	1
	4/11/2024 7:30	4/11/2024 7:45	15	1.25	431	0.41	48	Atlas		541.00	1
	5/22/2024 20:00	5/22/2024 20:15	15	0.92	1,063	0.8	1	Atlas		981.00	1
	6/26/2024 17:30	6/26/2024 17:45	15	1.08	5,088	0.86	1	Atlas		5505.00	1
CSO054 Total										917325.00	12
CSO055	7/11/2023 12:45	7/11/2023 13:15	30	0.66	8,286	0.54	1	Atlas		5486.00	1

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	7/2/2023 17:15	7/2/2023 17:30	15	0.15	10,397	0.11	1	Atlas		1591.00	1
	7/8/2023 11:45	7/8/2023 19:45	480	0.84	75,745	0.55	1	Atlas		63550.00	1
	7/18/2023 18:00	7/18/2023 18:15	15	0.54	45	0.23	1	Atlas		24.00	1
	8/3/2023 7:45	8/3/2023 8:00	15	0.73	15,905	0.43	1	Atlas		11659.00	1
	8/9/2023 20:15	8/9/2023 20:30	15	0.25	982	0.16	1	Atlas		245.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.47	9,873	0.41	1	Atlas		4611.00	1
	8/25/2023 20:00	8/25/2023 22:45	165	1.94	300,236	1.67	3	Atlas		580957.00	1
	9/28/2023 1:30	9/28/2023 6:15	285	0.9	43,393	0.48	6	Atlas		39227.00	1
	10/28/2023 18:00	10/28/2023 18:15	15	1.84	726	0.58	48	Atlas		1337.00	1
	10/30/2023 1:00	10/30/2023 7:15	375	1.84	295,514	0.58	48	Atlas		544042.00	1
	1/9/2024 5:15	1/9/2024 6:15	60	1.5	3,915	0.57	12	Atlas		5884.00	1
	1/9/2024 15:00	1/9/2024 17:15	135	1.5	4,714	0.57	12	Atlas		7085.00	1
	1/12/2024 16:00	1/12/2024 16:45	45	1.14	4,490	0.51	12	Atlas		5096.00	1
	3/6/2024 3:00	3/6/2024 3:30	30	0.79	5,376	0.32	12	Atlas		4242.00	1
	3/15/2024 1:15	3/15/2024 1:45	30	0.65	4,263	0.43	3	Atlas		2763.00	1
	4/2/2024 9:00	4/2/2024 9:30	30	1.15	2,956	0.53	12	Atlas		3394.00	1
	4/2/2024 17:45	4/2/2024 18:15	30	1.15	2,525	0.53	12	Atlas		2899.00	1
	4/11/2024 9:30	4/11/2024 10:00	30	1.25	1,399	0.41	48	Atlas		1753.00	1
	4/29/2024 23:45	4/30/2024 0:00	15	0.62	27,210	0.39	3	Atlas		17006.00	1
	5/23/2024 19:00	5/23/2024 19:15	15	0.22	35	0.17	1	Atlas		8.00	1
	5/26/2024 22:45	5/26/2024 23:00	15	0.82	5,128	0.36	3	Atlas		4185.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	0.5	46,605	0.35	1	Atlas		23069.00	1
	6/26/2024 16:30	6/26/2024 19:00	150	1.08	324,770	0.86	1	Atlas		351401.00	1
CSO055 Total										1,681,512	24
CSO056	6/25/2024 17:30	6/25/2024 17:45	15	0.5	10,545	0.35	1	Atlas		5220.00	1
	6/26/2024 17:00	6/26/2024 17:15	15	1.08	24,354	0.86	1	Atlas		26351.00	1
CSO056 Total										31571.00	2
CSO058	12/17/2023 13:20	12/17/2023 13:35	15	0.3	2,942,796	0.14	12	Atlas		868125.00	1
CSO058 Total										868125.00	1
CSO062	8/7/2023 4:15	8/7/2023 4:45	30	1.41	865,328	0.89	3	Atlas		1,247,427	1
	8/25/2023 20:45	8/25/2023 21:30	45	1.56	1,656,893	0.88	3	Atlas		2578125.00	1
	1/12/2024 13:15	1/12/2024 13:30	15	1.15	356,724	0.52	12	Atlas		411303.00	1
	1/24/2024 8:15	1/24/2024 9:15	60	1.55	926,874	0.42	48	Atlas		1437582.00	1
	1/27/2024 20:15	1/27/2024 20:45	30	0.86	1,855,431	0.33	24	Atlas		1603092.00	1
	5/3/2024 23:30	5/4/2024 1:15	105	0.88	6,125,922	0.34	24	Atlas		5390811.00	1
	5/22/2024 19:30	5/22/2024 20:15	45	1.12	2,306,015	0.97	1	Atlas		2578125.00	1



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CSO082	6/26/2024 17:00	6/26/2024 17:45	45	0.89	2,900,028	0.62	1	Atlas		2578125.00	1
CSO082 Total										17824591.00	8
CSO083	7/1/2023 10:45	7/1/2023 11:00	15	0.39	52,813	0.31	1	Atlas		20439.00	1
	8/7/2023 3:30	8/7/2023 4:30	60	1.01	2,682	0.64	3	Atlas		2703.00	1
	8/12/2023 10:15	8/12/2023 10:30	15	0.47	218	0.42	1	Atlas		103.00	1
	8/25/2023 20:30	8/25/2023 21:00	30	2.05	17,064	1.67	3	Atlas		35067.00	1
CSO083 Total										58313.00	4
CSO084	10/20/2023 4:00	10/20/2023 4:15	15	0.45	2,981,270	0.17	24	Atlas		1335609.00	1
	1/12/2024 10:45	1/12/2024 11:15	30	1.17	413,908	0.52	12	Atlas		482203.00	1
CSO084 Total										1817812.00	2
CSO088	8/7/2023 4:15	8/7/2023 4:30	15	1.42	470	0.91	3	Atlas		667.00	1
	4/17/2024 4:15	4/17/2024 6:15	120	0.48	33,931	0.26	6	Atlas		16321.00	1
CSO088 Total										16988.00	2
CSO091	7/1/2023 10:15	7/1/2023 10:45	30	0.35	2,533	0.28	1	Atlas		889.00	1
	10/30/2023 0:30	10/30/2023 0:45	15	1.77	19	0.54	48	Atlas		33.00	1
	1/27/2024 19:45	1/27/2024 20:00	15	0.87	236	0.33	24	Atlas		205.00	1
	3/14/2024 23:00	3/14/2024 23:30	30	0.52	1,591	0.37	1	Atlas		832.00	1
	3/30/2024 23:00	3/30/2024 23:30	30	0.43	6,570	0.34	1	Atlas		2845.00	1
	4/2/2024 7:15	4/2/2024 7:45	30	0.97	1,265	0.5	1	Atlas		1230.00	1
	4/2/2024 17:15	4/2/2024 17:30	15	0.97	5,363	0.5	1	Atlas		5213.00	1
	5/6/2024 2:45	5/6/2024 3:15	30	0.69	103	0.35	1	Atlas		71.00	1
	5/22/2024 18:45	5/22/2024 19:45	60	0.99	17,182	0.86	1	Atlas		16941.00	1
	5/26/2024 22:30	5/26/2024 22:45	15	1.01	1,167	0.45	3	Atlas		1180.00	1
	6/2/2024 15:30	6/2/2024 16:15	45	0.15	2,485	0.09	3	Atlas		378.00	1
	6/4/2024 14:45	6/4/2024 18:30	225	0.81	24,471	0.66	1	Atlas		19895.00	1
	6/23/2024 15:30	6/24/2024 23:00	1890	0.05	788,962	0.04	1	Atlas		36292.00	1
CSO091 Total										86003.00	13
CSO092	7/1/2023 10:30	7/1/2023 10:45	15	0.35	101	0.28	1	Atlas		35.00	1
	7/2/2023 17:00	7/2/2023 17:15	15	0.3	86	0.24	1	Atlas		26.00	1
	7/8/2023 18:15	7/8/2023 18:30	15	0.91	143	0.67	1	Atlas		130.00	1
	7/18/2023 17:45	7/18/2023 18:00	15	0.49	8	0.28	1	Atlas		4.00	1
	8/7/2023 2:15	8/7/2023 3:30	75	0.73	213	0.46	3	Atlas		155.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.56	22	0.49	1	Atlas		12.00	1
	8/25/2023 18:15	8/25/2023 20:45	150	2.1	280	1.67	3	Atlas		587.00	1
	2/22/2024 18:30	2/22/2024 18:45	15	0.49	5	0.22	12	Atlas		3.00	1
	3/6/2024 2:15	3/6/2024 2:30	15	0.87	3	0.33	24	Atlas		3.00	1

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	3/14/2024 23:15	3/14/2024 23:30	15	0.52	92	0.37	1	Atlas		48.00	1
	3/30/2024 23:15	3/31/2024 0:00	45	0.43	582	0.34	1	Atlas		252.00	1
	4/2/2024 7:15	4/2/2024 7:45	30	0.97	702	0.5	1	Atlas		682.00	1
	4/2/2024 17:30	4/2/2024 17:45	15	0.97	56	0.5	1	Atlas		54.00	1
	4/11/2024 1:00	4/11/2024 1:15	15	1.28	3	0.42	48	Atlas		4.00	1
	4/29/2024 23:00	4/29/2024 23:15	15	0.65	19	0.35	3	Atlas		13.00	1
	5/6/2024 3:00	5/6/2024 3:15	15	0.69	101	0.35	1	Atlas		70.00	1
	5/22/2024 19:00	5/22/2024 19:45	45	0.99	218	0.86	1	Atlas		215.00	1
	5/26/2024 22:45	5/26/2024 23:00	15	1.01	35	0.45	3	Atlas		35.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	0.75	137	0.38	1	Atlas		103	1
	6/26/2024 17:00	6/26/2024 17:15	15	1.03	242	0.72	1	Atlas		249.00	1
CSO092 Total										2680.00	20
CSO097	7/8/2023 18:15	7/8/2023 18:45	30	0.89	13,492	0.65	1	Atlas		11967.00	1
	8/25/2023 20:00	8/25/2023 21:15	75	2.16	71,348	1.83	3	Atlas		153897.00	1
	3/14/2024 23:00	3/14/2024 23:45	45	0.58	7,374	0.43	1	Atlas		4314.00	1
	4/2/2024 7:15	4/2/2024 8:00	45	0.91	18,716	0.51	1	Atlas		17106.00	1
	4/11/2024 7:15	4/11/2024 7:30	15	1.35	54	0.44	48	Atlas		73.00	1
	5/6/2024 3:00	5/6/2024 3:15	15	0.73	7	0.42	1	Atlas		5.00	1
	5/22/2024 19:00	5/22/2024 20:00	60	0.76	45,544	0.66	1	Atlas		34841.00	1
	5/26/2024 22:30	5/26/2024 23:00	30	1.11	1,519	0.54	3	Atlas		1688.00	1
	6/26/2024 16:15	6/26/2024 17:30	75	1	64,695	0.64	3	Atlas		65019.00	1
CSO097 Total										288911.00	9
CSO105	7/8/2023 18:00	7/8/2023 21:45	225	1.85	9,975,088	4.34	1	Atlas		18423987.00	1
	12/1/2023 7:45	12/1/2023 8:15	30	0.18	10,232,330	0.1	3	Atlas		1790658.00	1
	3/8/2024 20:30	3/8/2024 22:30	120	1.21	2,467,352	0.51	12	Atlas		2980561.00	1
	3/14/2024 23:15	3/15/2024 0:15	60	0.72	1,460,318	0.47	3	Atlas		1047048.00	1
	5/6/2024 3:30	5/6/2024 4:30	60	0.86	2,586,536	0.42	1	Atlas		2214074.00	1
	5/22/2024 19:15	5/22/2024 20:15	60	0.67	1,597,757	0.58	1	Atlas		1067301.00	1
CSO105 Total										27523630.00	6
CSO108	8/25/2023 20:15	8/25/2023 20:30	15	1.89	6,731	1.17	3	Atlas		12688.00	1
	5/22/2024 19:15	5/22/2024 20:00	45	0.62	354,598	0.54	1	Atlas		219,496	1
	5/23/2024 19:45	5/23/2024 21:45	120	0.48	2,744	0.32	3	Atlas		1325.00	1
	6/25/2024 17:45	6/25/2024 18:00	15	0.48	66,722	0.37	1	Atlas		31960.00	1
	6/26/2024 17:00	6/26/2024 18:00	60	0.96	93,917	0.61	3	Atlas		90160.00	1
CSO108 Total										355629.00	5
CSO109	7/1/2023 10:45	7/1/2023 11:00	15	0.53	165,578	0.4	1	Atlas		88087.00	1



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	7/2/2023 17:15	7/2/2023 17:30	15	0.43	180,095	0.37	1	Atlas		77981.00	1
	7/8/2023 18:30	7/8/2023 18:45	15	0.89	62,325	0.61	1	Atlas		55406.00	1
	7/18/2023 18:00	7/18/2023 18:15	15	0.8	14,344	0.42	1	Atlas		11446.00	1
	7/24/2023 19:15	7/25/2023 1:45	390	0.28	25,571	0.24	1	Atlas		7160.00	1
	8/7/2023 17:30	8/7/2023 17:45	15	0.42	43,538	0.34	1	Atlas		18416.00	1
	8/12/2023 10:15	8/12/2023 10:30	15	0.46	28,886	0.4	1	Atlas		13201.00	1
	8/25/2023 19:45	8/26/2023 2:15	390	2.09	85,060	1.8	3	Atlas		177860.00	1
	3/14/2024 23:30	3/14/2024 23:45	15	0.64	5,411	0.5	1	Atlas		3436.00	1
	4/2/2024 7:45	4/2/2024 8:00	15	0.9	68,321	0.51	1	Atlas		61352.00	1
	5/3/2024 18:15	5/3/2024 23:15	300	1.12	52,410	0.43	24	Atlas		58751.00	1
	5/6/2024 3:15	5/6/2024 3:30	15	0.62	93,936	0.37	1	Atlas		58428.00	1
	5/22/2024 19:15	5/22/2024 20:00	45	0.62	253,538	0.54	1	Atlas		156940.00	1
	5/26/2024 22:45	5/26/2024 23:00	15	1.08	96,218	0.55	3	Atlas		103434.00	1
	6/25/2024 17:30	6/25/2024 17:45	15	0.46	56,504	0.36	1	Atlas		26161.00	1
	6/26/2024 4:00	6/26/2024 4:15	15	0.46	3,011	0.36	1	Atlas		1394.00	1
	6/26/2024 16:30	6/26/2024 17:30	60	1	220,063	0.63	3	Atlas		218963.00	1
CSO109 Total										1138419.00	17
CSO110	7/1/2023 10:15	7/1/2023 11:00	45	0.41	228,267	0.31	1	Atlas		92448.00	1
	7/2/2023 17:00	7/2/2023 17:30	30	0.36	329,334	0.3	1	Atlas		118231.00	1
	7/8/2023 17:45	7/8/2023 19:00	75	1.01	365,626	0.76	1	Atlas		367820.00	1
	7/24/2023 19:00	7/24/2023 19:30	30	0.22	288,919	0.18	1	Atlas		62406.00	1
	8/7/2023 2:00	8/7/2023 4:15	135	0.59	122,742	0.39	3	Atlas		73032.00	1
	8/7/2023 17:00	8/7/2023 17:45	45	0.43	416,473	0.36	1	Atlas		181166.00	1
	8/12/2023 9:45	8/12/2023 10:30	45	0.59	187,473	0.51	1	Atlas		110609.00	1
	8/25/2023 18:00	8/25/2023 21:15	195	2.12	674,360	1.77	3	Atlas		1430991.00	1
	10/30/2023 0:30	10/30/2023 1:45	75	1.7	17,709	0.52	6	Atlas		30070.00	1
	12/9/2023 15:45	12/9/2023 16:30	45	0.92	114,099	0.52	3	Atlas		105200.00	1
	1/12/2024 12:15	1/12/2024 14:15	120	1.19	4,707	0.53	12	Atlas		5606.00	1
	1/24/2024 7:15	1/24/2024 9:15	120	1.52	110,027	0.42	3	Atlas		167461.00	1
	1/27/2024 18:45	1/27/2024 19:15	30	0.88	577	0.34	24	Atlas		507.00	1
	3/14/2024 23:00	3/14/2024 23:30	30	0.61	281,740	0.45	1	Atlas		171298.00	1
	4/2/2024 7:15	4/2/2024 8:00	45	0.95	360,943	0.51	1	Atlas		341813.00	1
	4/2/2024 17:15	4/2/2024 17:45	30	0.95	50,452	0.51	1	Atlas		47,778	1
	4/11/2024 7:00	4/11/2024 7:45	45	1.31	60,007	0.43	48	Atlas		78549.00	1
	4/15/2024 23:30	4/16/2024 0:00	30	0.2	215,274	0.17	1	Atlas		43916.00	1
	4/29/2024 22:45	4/29/2024 23:15	30	0.64	489	0.37	3	Atlas		313.00	1
	5/3/2024 17:45	5/3/2024 23:30	345	0.82	217,445	0.32	24	Atlas		177870.00	1
	5/6/2024 2:45	5/6/2024 3:30	45	0.7	204,603	0.37	1	Atlas		143427.00	1

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	5/22/2024 19:00	5/22/2024 19:45	45	0.79	609,659	0.69	1	Atlas		481021.00	1
	5/26/2024 22:30	5/26/2024 23:15	45	1.09	238,820	0.49	3	Atlas		261030.00	1
	6/4/2024 15:00	6/4/2024 15:30	30	0.65	388,116	0.52	1	Atlas		250723.00	1
	6/25/2024 17:00	6/25/2024 17:30	30	0.66	141,062	0.29	12	Atlas		93524.00	1
	6/26/2024 16:15	6/26/2024 17:45	90	0.99	645,900	0.66	1	Atlas		638795.00	1
CSO110 Total										5475605.00	26
CSO111	7/1/2023 10:30	7/1/2023 10:45	15	0.41	27,617	0.31	1	Atlas		11185.00	1
	7/8/2023 18:15	7/8/2023 18:45	30	1.01	318	0.76	1	Atlas		319.00	1
	7/24/2023 19:00	7/24/2023 19:15	15	0.22	8,963	0.18	1	Atlas		1936.00	1
	8/7/2023 2:00	8/7/2023 4:15	135	0.59	39,890	0.39	3	Atlas		23735.00	1
	8/7/2023 17:00	8/7/2023 17:30	30	0.43	64,161	0.36	1	Atlas		27,910	1
	8/12/2023 9:45	8/12/2023 10:15	30	0.59	267,820	0.51	1	Atlas		158014.00	1
	2/28/2024 8:45	3/4/2024 14:45	7560	0.12	666,813,790	0.08	3	Atlas		82018096.00	1
	3/5/2024 14:45	3/5/2024 15:15	30	0.89	71,226	0.33	24	Atlas		63248.00	1
	3/6/2024 0:15	3/6/2024 0:45	30	0.89	19,332	0.33	24	Atlas		17167.00	1
	3/14/2024 22:45	3/14/2024 23:45	60	0.61	210,004	0.45	1	Atlas		127683.00	1
	3/22/2024 23:30	3/25/2024 9:15	3465	0.01	2,230,258,180	0.01	1	Atlas		15611807.00	1
	3/27/2024 1:15	3/29/2024 10:45	3450	0.01	1,227,795,634	0.01	1	Atlas		12277956.00	1
	4/2/2024 7:15	4/2/2024 7:45	30	0.95	75,760	0.51	1	Atlas		71745.00	1
	5/6/2024 3:00	5/6/2024 3:15	15	0.7	352	0.37	1	Atlas		247.00	1
	5/22/2024 19:00	5/22/2024 19:45	45	0.79	97,785	0.69	1	Atlas		77152.00	1
	5/26/2024 22:30	5/26/2024 23:00	30	1.09	37,547	0.49	3	Atlas		41039.00	1
	6/4/2024 15:00	6/4/2024 15:30	30	0.65	28,373	0.52	1	Atlas		18329.00	1
	6/25/2024 17:00	6/25/2024 17:30	30	0.66	7,791	0.29	12	Atlas		5,165	1
	6/26/2024 16:45	6/26/2024 17:30	45	0.99	285,298	0.66	1	Atlas		262380.00	1
CSO111 Total										110815114.00	19
CSO113	7/1/2023 10:30	7/1/2023 10:45	15	0.35	105,428	0.28	1	Atlas		37005.00	1
	7/2/2023 17:00	7/2/2023 17:15	15	0.3	5,217	0.24	1	Atlas		1,555	1
	7/8/2023 18:00	7/8/2023 18:45	45	0.91	74,862	0.67	1	Atlas		68274.00	1
	7/24/2023 19:00	7/24/2023 19:15	15	0.11	9,676	0.1	1	Atlas		1055.00	1
	8/7/2023 2:00	8/7/2023 4:15	135	0.73	67,584	0.46	3	Atlas		49201.00	1
	8/12/2023 9:45	8/12/2023 10:15	30	0.56	110,893	0.49	1	Atlas		61768.00	1
	8/25/2023 18:15	8/25/2023 21:00	165	2.1	158,598	1.67	3	Atlas		332422.00	1
	12/9/2023 15:45	12/9/2023 16:30	45	1.04	171,589	0.63	1	Atlas		179311.00	1
	1/24/2024 8:15	1/24/2024 8:45	30	1.51	2,215	0.41	24	Atlas		3336.00	1
	3/14/2024 23:00	3/14/2024 23:30	30	0.52	67,861	0.37	1	Atlas		35491.00	1



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	3/30/2024 23:00	3/30/2024 23:30	30	0.43	4,499	0.34	1	Atlas		1948.00	1
	4/2/2024 7:15	4/2/2024 7:45	30	0.97	94,988	0.5	1	Atlas		92328.00	1
	4/2/2024 17:15	4/2/2024 17:45	30	0.97	47,033	0.5	1	Atlas		45716.00	1
	5/6/2024 2:45	5/6/2024 3:15	30	0.69	30,649	0.35	1	Atlas		21240.00	1
	5/22/2024 18:45	5/22/2024 19:45	60	0.99	222,394	0.86	1	Atlas		219280.00	1
	5/26/2024 22:30	5/26/2024 23:00	30	1.01	58,560	0.45	3	Atlas		59204.00	1
	6/4/2024 15:00	6/4/2024 15:30	30	0.81	189,993	0.86	1	Atlas		154464.00	1
	6/25/2024 17:00	6/25/2024 17:30	30	0.75	82,476	0.38	1	Atlas		62022.00	1
	6/26/2024 16:15	6/26/2024 17:30	75	1.03	212,024	0.72	1	Atlas		218,597	1
CSO113 Total										1644217.00	19
CSO117	7/8/2023 18:15	7/8/2023 19:00	45	0.84	629,077	0.6	1	Atlas		526,538	1
	8/7/2023 4:00	8/7/2023 4:15	15	1.12	76,561	0.71	3	Atlas		86055.00	1
	8/12/2023 9:45	8/12/2023 10:15	30	0.5	234,014	0.43	1	Atlas		117475.00	1
	8/25/2023 20:00	8/26/2023 7:15	675	2.08	1,625,973	1.83	3	Atlas		3378771.00	1
	12/9/2023 16:00	12/9/2023 16:30	30	1.01	310,985	0.57	3	Atlas		313473.00	1
	1/9/2024 9:45	1/9/2024 11:45	120	1.56	250,912	0.58	24	Atlas		391423.00	1
	1/12/2024 12:15	1/12/2024 15:45	210	1.15	2,625,642	0.51	12	Atlas		3019488.00	1
	1/27/2024 19:00	1/27/2024 21:00	120	0.89	541,026	0.34	24	Atlas		483677.00	1
	3/14/2024 23:00	3/14/2024 23:30	30	0.52	39,856	0.35	1	Atlas		20565.00	1
	4/2/2024 7:30	4/2/2024 8:00	30	1.12	64,646	0.51	12	Atlas		72468.00	1
	4/2/2024 17:15	4/2/2024 18:15	60	1.12	315,348	0.51	12	Atlas		353505.00	1
	5/3/2024 23:15	5/4/2024 0:00	45	1.21	328,977	0.61	1	Atlas		397733.00	1
	5/22/2024 19:00	5/22/2024 19:45	45	1.2	797,288	1.22	1	Atlas		955151.00	1
	6/4/2024 15:00	6/4/2024 15:45	45	0.77	149,776	0.63	1	Atlas		114579.00	1
	6/26/2024 16:45	6/26/2024 18:00	75	0.92	953,569	0.88	1	Atlas		874422.00	1
CSO117 Total										11105324.00	15
CSO118	10/14/2023 2:30	10/14/2023 5:15	165	0.13	547,158,960	0.07	3	Atlas		72772142.00	1
	1/24/2024 13:30	1/25/2024 7:15	1065	1.54	174,610,509	0.42	48	Atlas		269249405.00	1
CSO118 Total										342021547.00	2
CSO119	8/7/2023 3:45	8/7/2023 4:15	30	1.01	2,823	0.64	3	Atlas		2846.00	1
	8/12/2023 9:45	8/12/2023 10:15	30	0.47	5,017	0.42	1	Atlas		2383.00	1
	8/25/2023 20:00	8/25/2023 21:15	75	2.05	7,697	1.67	3	Atlas		15817.00	1
	12/9/2023 16:00	12/9/2023 18:45	165	1.07	122,752	0.64	1	Atlas		131836.00	1
	3/14/2024 23:00	3/14/2024 23:30	30	0.51	28,410	0.34	1	Atlas		14489.00	1
	3/30/2024 23:00	3/31/2024 0:00	60	0.4	377,465	0.32	1	Atlas		152496.00	1
	4/2/2024 7:00	4/2/2024 8:15	75	1.07	184,833	0.49	12	Atlas		197587.00	1
	4/2/2024 17:15	4/2/2024 18:15	60	1.07	264,114	0.49	12	Atlas		282337.00	1

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CSO119 Total										799790.00	8
CSO120	8/7/2023 3:45	8/7/2023 4:00	15	1.29	1,309	0.82	3	Atlas		1694.00	1
	8/12/2023 9:45	8/12/2023 10:15	30	0.43	6,522	0.37	1	Atlas		2792.00	1
	8/25/2023 20:15	8/25/2023 20:45	30	1.88	2,989	1.23	3	Atlas		5,614	1
CSO120 Total										10099.00	3
CSO121	7/1/2023 10:15	7/1/2023 11:00	45	0.52	35,182	0.42	1	Atlas		18259.00	1
	7/8/2023 18:15	7/8/2023 18:45	30	0.68	49,573	0.42	1	Atlas		33809.00	1
	8/7/2023 2:00	8/7/2023 4:30	150	1.29	16,506	0.82	3	Atlas		21359.00	1
	8/12/2023 10:00	8/12/2023 10:30	30	0.43	16,423	0.37	1	Atlas		7,029	1
	8/25/2023 18:00	8/25/2023 21:15	195	1.88	11,601	1.23	3	Atlas		21787.00	1
	12/9/2023 16:15	12/9/2023 18:30	135	0.94	12,164	0.53	3	Atlas		11434.00	1
	1/24/2024 7:15	1/24/2024 8:00	45	1.52	19,054	0.41	48	Atlas		29020.00	1
	1/27/2024 18:45	1/27/2024 19:30	45	0.87	32,953	0.33	24	Atlas		28801.00	1
	3/14/2024 23:00	3/14/2024 23:15	15	0.56	1,668	0.37	1	Atlas		932.00	1
	3/30/2024 23:00	3/30/2024 23:15	15	0.34	9,454	0.27	1	Atlas		3176.00	1
	4/2/2024 7:00	4/2/2024 7:30	30	1.18	1,244	0.54	12	Atlas		1470.00	1
CSO121 Total										177077.00	11
CSO125	8/25/2023 19:15	8/25/2023 20:00	45	1.34	230,642	0.71	3	Atlas		308369.00	1
	4/2/2024 17:15	4/2/2024 17:30	15	1.01	5,735	0.46	12	Atlas		5815.00	1
	5/22/2024 18:45	5/22/2024 20:00	75	1.32	1,016,660	1.74	1	Atlas		1,345,041	1
	5/26/2024 22:30	5/26/2024 23:00	30	0.96	15,414	0.47	3	Atlas		14736.00	1
	6/25/2024 17:00	6/25/2024 17:45	45	1.18	117,383	0.57	1	Atlas		138277.00	1
	6/26/2024 16:00	6/26/2024 16:45	45	1.07	377,241	0.89	3	Atlas		402516.00	1
CSO125 Total										2214754.00	6
CSO126	8/7/2023 4:15	8/7/2023 4:30	15	0.86	1,426	0.55	3	Atlas		1231.00	1
	8/25/2023 19:45	8/25/2023 21:15	90	1.34	33,574	0.71	3	Atlas		44888.00	1
	9/28/2023 5:45	9/28/2023 6:00	15	0.94	17,942	0.51	6	Atlas		16865.00	1
	10/30/2023 1:00	10/30/2023 3:30	150	1.71	56,157	0.53	48	Atlas		96253.00	1
	12/9/2023 16:00	12/9/2023 16:30	30	1.09	74,528	0.71	1	Atlas		81534.00	1
	1/12/2024 12:15	1/12/2024 14:30	135	1.16	237,582	0.52	12	Atlas		274407.00	1
	1/24/2024 7:45	1/24/2024 10:30	165	1.56	161,135	0.42	24	Atlas		252177.00	1
	1/27/2024 20:00	1/27/2024 20:45	45	0.87	62,094	0.33	24	Atlas		54,022	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.47	50,509	0.3	1	Atlas		23840.00	1
	4/2/2024 7:30	4/2/2024 8:00	30	1.01	65,289	0.46	12	Atlas		66203.00	1
	4/2/2024 17:30	4/2/2024 18:15	45	1.01	30,687	0.46	12	Atlas		31117.00	1
	4/11/2024 7:15	4/11/2024 8:30	75	1.32	66,575	0.43	48	Atlas		87546.00	1



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	5/3/2024 23:00	5/4/2024 0:15	75	0.88	122,866	0.34	24	Atlas		108614.00	1
	5/8/2024 19:45	5/8/2024 20:30	45	0.54	67,170	0.25	12	Atlas		35936.00	1
	5/22/2024 19:00	5/22/2024 19:45	45	1.32	148,300	1.74	1	Atlas		196201.00	1
	5/26/2024 22:45	5/27/2024 1:00	135	0.96	97,615	0.47	3	Atlas		93320.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	1.18	57,142	0.57	1	Atlas		67314.00	1
	6/26/2024 16:15	6/26/2024 17:45	90	1.07	216,364	0.89	3	Atlas		230,860	1
CSO126 Total										1762328.00	18
CSO131	7/1/2023 11:00	7/1/2023 11:15	15	0.69	34,080	0.54	1	Atlas		23481.00	1
	7/8/2023 18:45	7/8/2023 19:00	15	0.56	23,541	0.3	1	Atlas		13207.00	1
	8/25/2023 20:45	8/25/2023 21:30	45	1.46	60,556	0.81	3	Atlas		88351.00	1
	9/28/2023 6:00	9/28/2023 6:15	15	1.03	24,706	0.55	6	Atlas		25348.00	1
	10/28/2023 18:15	10/28/2023 18:30	15	1.87	12,388	0.59	48	Atlas		23178.00	1
	3/14/2024 23:30	3/14/2024 23:45	15	0.6	87,841	0.39	3	Atlas		53056.00	1
	4/2/2024 7:45	4/2/2024 8:15	30	1.2	44,616	0.55	12	Atlas		53494.00	1
	4/2/2024 18:00	4/2/2024 18:15	15	1.2	15,305	0.55	12	Atlas		18351.00	1
	5/3/2024 23:30	5/3/2024 23:45	15	0.91	9,653	0.35	24	Atlas		8746.00	1
	5/26/2024 23:00	5/26/2024 23:15	15	0.88	17,319	0.41	3	Atlas		15189.00	1
	6/4/2024 15:30	6/4/2024 15:45	15	0.8	49,711	0.59	1	Atlas		39620.00	1
	6/26/2024 17:15	6/26/2024 17:45	30	0.99	71,149	0.64	3	Atlas		70295.00	1
CSO131 Total										432315.00	12
CSO132	7/1/2023 10:30	7/1/2023 11:00	30	0.7	1,785,355	0.54	1	Atlas		1247963.00	1
	7/18/2023 18:00	7/18/2023 18:30	30	0.75	2,349	0.34	1	Atlas		1771.00	1
	8/7/2023 2:00	8/7/2023 4:30	150	1.27	1,007,888	0.81	3	Atlas		1280018.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.34	186,231	0.3	1	Atlas		62760.00	1
	8/25/2023 19:15	8/25/2023 21:30	135	1.36	1,072,984	0.75	3	Atlas		1456039.00	1
	9/27/2023 1:00	9/27/2023 1:15	15	0.17	10,041	0.14	1	Atlas		1687.00	1
	9/28/2023 5:30	9/28/2023 6:00	30	1.01	254,939	0.54	6	Atlas		256,214	1
	12/9/2023 15:45	12/9/2023 16:45	60	0.94	1,029,121	0.56	1	Atlas		970461.00	1
	1/12/2024 14:15	1/14/2024 23:00	3405	1.15	29,928,565	0.52	12	Atlas		34507635.00	1
	1/24/2024 7:45	1/24/2024 9:00	75	1.52	11,483	0.42	48	Atlas		17500.00	1
	1/27/2024 19:15	2/3/2024 22:00	10245	0.86	174,124,230	0.33	24	Atlas		149398589.00	1
	2/10/2024 5:30	2/10/2024 5:45	15	0.46	1,305	0.31	3	Atlas		598.00	1
	3/14/2024 23:00	3/14/2024 23:30	30	0.55	547,703	0.35	3	Atlas		303427.00	1
	4/2/2024 7:15	4/2/2024 8:00	45	1.19	570,328	0.54	12	Atlas		675839.00	1
	4/2/2024 17:15	4/2/2024 18:00	45	1.19	922,212	0.54	12	Atlas		1092821.00	1
	4/4/2024 1:15	4/4/2024 3:00	105	0.06	13,303,630	0.02	24	Atlas		811521.00	1
	4/11/2024 7:15	4/14/2024 8:45	4410	1.26	61,185,960	0.41	48	Atlas		77094310.00	1

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	4/15/2024 23:45	4/16/2024 0:00	15	0.13	27,229	0.11	1	Atlas		3512.00	1
	5/3/2024 23:00	5/3/2024 23:30	30	0.79	146,546	0.3	24	Atlas		115332.00	1
	5/6/2024 3:00	5/6/2024 3:30	30	0.71	275,938	0.38	1	Atlas		195364.00	1
	5/22/2024 18:45	5/22/2024 20:00	75	1.25	3,411,284	1.43	1	Atlas		4274339.00	1
	5/26/2024 22:30	5/26/2024 23:15	45	0.9	841,457	0.44	3	Atlas		758152.00	1
	6/4/2024 15:00	6/4/2024 15:30	30	0.68	174,254	0.54	1	Atlas		119016.00	1
	6/25/2024 17:00	6/25/2024 17:45	45	1.17	1,043,320	0.61	1	Atlas		1217555.00	1
	6/26/2024 15:45	6/26/2024 17:30	105	1.1	1,981,066	0.71	3	Atlas		2169268.00	1
CSO132 Total										278031691.00	25
CSO140	8/25/2023 22:00	8/25/2023 22:15	15	1.68	7	0.92	3	Atlas		12.00	1
	1/12/2024 14:30	1/12/2024 14:45	15	1.16	132	0.52	12	Atlas		153.00	1
	1/24/2024 11:00	1/24/2024 11:15	15	1.55	44	0.42	24	Atlas		69.00	1
	1/28/2024 5:45	1/28/2024 8:30	165	0.85	7,110	0.33	24	Atlas		6072.00	1
	4/11/2024 8:30	4/11/2024 8:45	15	1.27	202	0.42	24	Atlas		256.00	1
	5/22/2024 21:00	5/22/2024 21:15	15	1.29	6,952	1.61	1	Atlas		8989.00	1
	6/26/2024 17:30	6/26/2024 18:00	30	1	274	0.65	3	Atlas		272.00	1
CSO140 Total										15,824	7
CSO141	7/11/2023 10:30	7/11/2023 11:00	30	0.52	29,043	0.42	1	Atlas		15073.00	1
	8/7/2023 2:15	8/7/2023 4:30	135	1.29	14,188	0.82	3	Atlas		18360.00	1
	8/12/2023 10:00	8/12/2023 11:15	75	0.43	31,246	0.37	1	Atlas		13,373	1
	8/25/2023 18:15	8/25/2023 21:15	180	1.88	11,710	1.23	3	Atlas		21992.00	1
	9/27/2023 1:00	9/27/2023 1:15	15	0.09	302	0.08	1	Atlas		28.00	1
	9/28/2023 0:15	9/28/2023 6:00	345	0.82	1,557	0.45	6	Atlas		1280.00	1
	12/9/2023 16:00	12/9/2023 18:30	150	0.94	4,513	0.53	3	Atlas		4243.00	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.56	18,136	0.37	1	Atlas		10138.00	1
	3/30/2024 23:30	3/30/2024 23:45	15	0.34	86	0.27	1	Atlas		29.00	1
	4/2/2024 17:30	4/2/2024 17:45	15	1.18	87,719	0.54	12	Atlas		103596.00	1
	5/6/2024 3:15	5/6/2024 3:30	15	0.74	2,692	0.39	1	Atlas		2002.00	1
	5/22/2024 19:15	5/22/2024 19:45	30	1.28	67,213	1.57	1	Atlas		85763.00	1
	6/4/2024 15:15	6/4/2024 15:45	30	0.79	13,438	0.62	1	Atlas		10589.00	1
	6/25/2024 17:30	6/25/2024 17:45	15	0.88	6,257	0.52	1	Atlas		5525.00	1
	6/26/2024 16:30	6/26/2024 17:30	60	0.94	21,275	0.65	1	Atlas		19956.00	1
CSO141 Total										311947.00	15
CSO142	7/11/2023 10:45	7/11/2023 11:00	15	0.33	43,082	0.26	1	Atlas	Retained by Sreadds Branch.	14045.00	1
	7/2/2023 17:15	7/2/2023 17:30	15	0.27	34,145	0.23	1	Atlas	Retained by Sreadds Branch.	9322.00	1
	7/8/2023 18:30	7/8/2023 18:45	15	1	14,153	0.76	1	Atlas		14125.00	1



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	7/24/2023 19:15	7/24/2023 19:30	15	0.12	83,364	0.1	1	Atlas	Retained by Sneads Branch.	10087.00	1
	8/7/2023 3:30	8/7/2023 4:30	60	0.73	5,357	0.47	3	Atlas	Retained by Sneads Branch.	3911.00	1
	8/7/2023 17:30	8/7/2023 17:45	15	0.35	1,274	0.29	1	Atlas	Retained by Sneads Branch.	439.00	1
	8/12/2023 10:15	8/12/2023 10:30	15	0.61	9,073	0.53	1	Atlas	Retained by Sneads Branch.	5562.00	1
	8/25/2023 18:15	8/25/2023 21:15	180	2.06	24,148	1.67	3	Atlas		49841.00	1
	9/27/2023 1:15	9/27/2023 1:30	15	0.17	13,515	0.13	1	Atlas	Retained by Sneads Branch.	2271.00	1
	9/28/2023 1:30	9/28/2023 1:45	15	0.59	5,284	0.32	6	Atlas	Retained by Sneads Branch.	3139.00	1
	12/9/2023 16:15	12/9/2023 16:30	15	1.09	26,405	0.64	1	Atlas	Retained by Sneads Branch.	28888.00	1
CSO142 Total										141629.00	11
CSO144	7/1/2023 10:30	7/1/2023 10:45	15	0.52	131,865	0.41	1	Atlas		68834.00	1
	8/7/2023 4:00	8/7/2023 4:15	15	0.99	73,040	0.64	3	Atlas		72675.00	1
	8/25/2023 19:30	8/25/2023 19:45	15	1.5	32,436	0.81	3	Atlas		48784.00	1
	12/9/2023 16:00	12/9/2023 16:15	15	1.08	8,974	0.7	1	Atlas		9719.00	1
	4/2/2024 7:45	4/2/2024 7:45	600	1.06	501	0.49	12	Atlas		530.00	1
	4/11/2024 4:00	4/11/2024 19:45	945	1.26	8	0.41	48	Atlas		10.00	1
	4/19/2024 3:45	4/19/2024 5:30	105	0.5	2	0.27	6	Atlas		1.00	1
	5/3/2024 23:30	5/4/2024 13:15	825	0.81	17	0.31	24	Atlas		14.00	1
	5/6/2024 3:15	5/6/2024 6:00	165	0.67	26	0.36	1	Atlas		17.00	1
CSO144 Total										200584.00	9
CSO146	7/1/2023 10:30	7/1/2023 11:15	45	0.33	126,812	0.26	1	Atlas		41341.00	1
	7/2/2023 17:00	7/2/2023 17:30	30	0.27	53,552	0.23	1	Atlas		14620.00	1
	7/8/2023 18:00	7/8/2023 19:00	60	1	431,775	0.76	1	Atlas		430911.00	1
	8/7/2023 2:00	8/7/2023 4:15	135	0.73	56,611	0.47	3	Atlas		41,326	1
	8/7/2023 17:15	8/7/2023 18:00	45	0.35	41,439	0.29	1	Atlas		14296.00	1
	8/12/2023 9:45	8/12/2023 10:30	45	0.61	166,046	0.53	1	Atlas		101786.00	1
	8/25/2023 19:45	8/25/2023 21:15	90	2.06	412,877	1.67	3	Atlas		852179.00	1
	10/30/2023 0:30	10/30/2023 1:45	75	1.8	20,019	0.55	48	Atlas		36054.00	1
	12/9/2023 15:45	12/9/2023 16:45	60	1.09	292,181	0.64	1	Atlas		319,646	1
	1/12/2024 12:45	1/12/2024 13:30	45	1.18	9,013	0.52	12	Atlas		10617.00	1
	1/24/2024 7:30	1/24/2024 9:00	90	1.53	21,413	0.41	24	Atlas		32698.00	1
	3/14/2024 23:00	3/15/2024 0:00	60	0.53	294,310	0.37	1	Atlas		156278.00	1
	4/2/2024 7:15	4/2/2024 8:15	60	1.01	221,072	0.5	1	Atlas		222840.00	1
	4/2/2024 17:15	4/2/2024 18:00	45	1.01	45,526	0.5	1	Atlas		45890.00	1

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	4/11/2024 7:15	4/11/2024 7:30	15	1.27	467	0.41	48	Atlas		595.00	1
	5/3/2024 23:15	5/3/2024 23:45	30	1.15	47,041	0.57	1	Atlas		54192.00	1
	5/6/2024 3:00	5/6/2024 3:15	15	0.71	3,397	0.35	1	Atlas		2409.00	1
	5/22/2024 19:00	5/22/2024 20:00	60	0.96	491,123	0.83	1	Atlas		471478.00	1
	5/26/2024 22:30	5/26/2024 23:30	60	1	88,795	0.43	3	Atlas		88795.00	1
	6/4/2024 15:00	6/4/2024 15:45	45	0.9	417,954	0.75	1	Atlas		377830.00	1
	6/25/2024 17:00	6/25/2024 17:45	45	0.62	61,379	0.35	1	Atlas		38055.00	1
	6/26/2024 16:15	6/26/2024 17:45	90	1.05	429,168	0.76	1	Atlas		450,197	1
CSO146 Total										3804034.00	22
CSO148	7/11/2023 10:45	7/11/2023 11:00	15	0.44	78,819	0.34	1	Atlas		35074.00	1
	7/2/2023 17:15	7/2/2023 17:30	15	0.36	64,966	0.3	1	Atlas		23648.00	1
	7/8/2023 18:00	7/8/2023 18:45	45	0.89	47,389	0.65	1	Atlas		42034.00	1
	7/18/2023 0:45	7/18/2023 1:00	15	0.62	206	0.33	1	Atlas		128.00	1
	7/18/2023 17:45	7/18/2023 18:30	45	0.62	51,976	0.33	1	Atlas		32433.00	1
	7/24/2023 19:15	7/24/2023 19:30	15	0.21	137,640	0.18	1	Atlas		28904.00	1
	8/3/2023 6:15	8/3/2023 8:30	135	0.52	29,516	0.28	6	Atlas		15348.00	1
	8/7/2023 1:15	8/7/2023 4:15	180	0.62	66,948	0.4	3	Atlas		41441.00	1
	8/7/2023 17:15	8/7/2023 17:45	30	0.41	35,721	0.33	1	Atlas		14610.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.52	18,299	0.45	1	Atlas		9460.00	1
	8/25/2023 18:15	8/26/2023 2:00	465	2.16	60,913	1.83	3	Atlas		131389.00	1
	9/27/2023 1:15	9/27/2023 1:30	15	0.22	726	0.17	1	Atlas		159.00	1
	9/28/2023 1:30	9/28/2023 1:45	15	0.56	14,970	0.31	6	Atlas		8353.00	1
	10/19/2023 19:30	10/19/2023 19:45	15	0.4	192	0.15	24	Atlas		76.00	1
	10/28/2023 23:45	10/29/2023 0:00	15	1.66	1,178	0.5	48	Atlas		1955.00	1
	10/30/2023 0:15	10/30/2023 3:00	165	1.66	10,845	0.5	48	Atlas		18002.00	1
	11/21/2023 0:00	11/21/2023 3:00	180	1	2,589	0.47	6	Atlas		2584.00	1
	12/9/2023 16:00	12/9/2023 18:45	165	0.84	106,000	0.46	3	Atlas		88,934	1
	1/9/2024 1:15	1/9/2024 10:00	525	1.64	3,303	0.62	24	Atlas		5407.00	1
	1/24/2024 7:15	1/24/2024 9:30	135	1.56	22,771	0.43	3	Atlas		35454.00	1
	1/27/2024 19:15	1/27/2024 20:15	60	0.86	4,188	0.33	24	Atlas		3623.00	1
	2/10/2024 5:45	2/10/2024 6:00	15	0.37	7,096	0.25	3	Atlas		2611.00	1
	2/22/2024 18:45	2/22/2024 19:00	15	0.49	1,338	0.22	12	Atlas		653.00	1
	3/5/2024 15:00	3/5/2024 15:15	15	0.83	17,068	0.32	24	Atlas		14234.00	1
	3/6/2024 0:30	3/6/2024 1:00	30	0.83	4,376	0.32	24	Atlas		3650.00	1
	3/14/2024 23:00	3/14/2024 23:45	45	0.58	45,599	0.43	1	Atlas		26676.00	1
	3/30/2024 22:00	3/30/2024 23:30	90	0.41	14,743	0.29	1	Atlas		6015.00	1
	4/2/2024 7:15	4/2/2024 8:00	45	0.91	19,431	0.51	1	Atlas		17760.00	1



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	4/2/2024 17:30	4/2/2024 18:00	30	0.91	24,724	0.51	1	Atlas		22597.00	1
	4/10/2024 15:00	4/10/2024 15:15	15	1.35	47	0.44	48	Atlas		63.00	1
	4/11/2024 1:00	4/11/2024 8:30	450	1.35	14,727	0.44	48	Atlas		19838.00	1
	4/15/2024 23:45	4/16/2024 0:00	15	0.21	40,761	0.18	1	Atlas		8437.00	1
	4/17/2024 2:15	4/17/2024 2:30	15	0.36	6,161	0.2	6	Atlas		2199.00	1
	4/19/2024 3:45	4/19/2024 4:15	30	0.56	1,370	0.31	6	Atlas		770.00	1
	4/29/2024 22:30	4/29/2024 23:45	75	0.63	6,310	0.38	3	Atlas		3957.00	1
	5/3/2024 6:00	5/3/2024 6:15	15	0.92	104	0.35	24	Atlas		95.00	1
	5/3/2024 18:00	5/3/2024 23:30	330	0.92	32,189	0.35	24	Atlas		29549.00	1
	5/6/2024 3:15	5/6/2024 3:30	15	0.73	13,793	0.42	1	Atlas		10055.00	1
	5/14/2024 9:15	5/14/2024 9:30	15	0.53	549	0.2	24	Atlas		291.00	1
	5/22/2024 19:15	5/22/2024 19:45	30	0.76	46,306	0.66	1	Atlas		35424.00	1
	5/26/2024 11:30	5/26/2024 11:45	15	1.11	215	0.54	3	Atlas		239	1
	5/26/2024 22:45	5/26/2024 23:00	15	1.11	66,696	0.54	3	Atlas		74099.00	1
	6/2/2024 16:00	6/2/2024 16:15	15	0.28	386	0.13	12	Atlas		108.00	1
	6/4/2024 15:15	6/4/2024 15:45	30	0.48	98,334	0.38	1	Atlas		47299.00	1
	6/25/2024 17:15	6/25/2024 17:45	30	0.74	83,368	0.33	12	Atlas		61776.00	1
	6/26/2024 16:30	6/26/2024 17:30	60	1	73,899	0.64	3	Atlas		74269.00	1
CSO148 Total										1001680.00	46
CSO149	7/8/2023 18:15	7/8/2023 18:45	30	1	201,581	0.76	1	Atlas		201178.00	1
	8/12/2023 10:00	8/12/2023 10:30	30	0.61	27,193	0.53	1	Atlas		16669.00	1
	8/25/2023 20:15	8/26/2023 7:15	660	2.06	1,059,764	1.67	3	Atlas		2187353.00	1
	10/27/2023 8:45	10/27/2023 9:00	15	0.1	1,332,806	0.09	1	Atlas		137279.00	1
	10/28/2023 1:45	10/29/2023 4:00	1575	1.8	1,919,056	0.55	48	Atlas		3456219.00	1
	10/29/2023 14:45	10/30/2023 5:45	900	1.8	5,294,508	0.55	48	Atlas		9535409.00	1
	11/20/2023 23:30	11/21/2023 11:00	690	0.94	9,805,055	0.44	6	Atlas		9246167.00	1
	12/1/2023 3:45	12/1/2023 6:30	165	0.17	1,721,551	0.1	3	Atlas		285777.00	1
	12/4/2023 11:15	12/4/2023 12:30	75	0.17	3,601,808	0.11	3	Atlas		619511.00	1
	12/5/2023 19:00	12/5/2023 19:30	30	0.04	6,828,254	0.03	1	Atlas		273130.00	1
	12/9/2023 8:15	12/9/2023 16:30	495	1.09	1,688,724	0.64	1	Atlas		1847464.00	1
	1/9/2024 9:45	1/9/2024 11:45	120	1.57	108,278	0.59	24	Atlas		169996.00	1
	1/12/2024 12:30	1/12/2024 15:45	195	1.18	1,442,346	0.52	12	Atlas		1699084.00	1
	1/27/2024 19:15	1/27/2024 21:00	105	0.91	145,545	0.35	24	Atlas		133028.00	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.53	1,040	0.37	1	Atlas		552.00	1
	4/2/2024 7:15	4/2/2024 7:45	30	1.01	107,708	0.5	1	Atlas		108570.00	1
	4/2/2024 17:15	4/2/2024 18:00	45	1.01	39,702	0.5	1	Atlas		40019.00	1
	5/3/2024 23:15	5/3/2024 23:45	30	1.15	989	0.57	1	Atlas		1140.00	1

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	5/22/2024 19:15	5/22/2024 19:45	30	0.96	341,351	0.83	1	Atlas		327,697	1
	6/4/2024 15:00	6/4/2024 15:45	45	0.9	56,714	0.75	1	Atlas		51270.00	1
	6/26/2024 17:00	6/26/2024 17:45	45	1.05	248,320	0.76	1	Atlas		260487.00	1
CSO149 Total										30597999.00	21
CSO150	8/7/2023 3:45	8/7/2023 4:00	15	1.41	51,658	0.89	3	Atlas		72580.00	1
	8/12/2023 9:45	8/12/2023 10:00	15	0.47	35,735	0.41	1	Atlas		16688.00	1
CSO150 Total										89268.00	2
CSO151	7/1/2023 10:30	7/1/2023 11:00	30	0.38	1,620,875	0.3	1	Atlas		609449.00	1
	7/9/2023 17:00	7/9/2023 17:30	30	0.31	1,228,249	0.26	1	Atlas		385,670	1
	7/8/2023 18:00	7/8/2023 18:45	45	0.84	632,488	0.61	1	Atlas		531290.00	1
	7/18/2023 17:30	7/18/2023 18:15	45	0.52	1,123,712	0.29	1	Atlas		582083.00	1
	7/24/2023 19:00	7/24/2023 19:15	15	0.1	165,041	0.09	1	Atlas		16174.00	1
	8/3/2023 7:45	8/3/2023 8:15	30	0.54	6,493	0.3	6	Atlas		3506.00	1
	8/7/2023 2:00	8/7/2023 4:15	135	0.7	1,076,474	0.44	3	Atlas		749226.00	1
	8/7/2023 17:00	8/7/2023 17:45	45	0.32	419,822	0.26	1	Atlas		135183.00	1
	8/12/2023 9:45	8/12/2023 10:30	45	0.5	1,674,700	0.43	1	Atlas		845723.00	1
	8/25/2023 18:00	8/25/2023 21:15	195	2.07	2,662,513	1.5	3	Atlas		5511403.00	1
	9/27/2023 0:45	9/27/2023 2:00	75	0.33	71,126	0.26	1	Atlas		23471.00	1
	9/28/2023 1:15	9/28/2023 1:45	30	0.65	114,279	0.36	6	Atlas		74053.00	1
	10/30/2023 0:00	10/30/2023 1:45	105	1.75	201,180	0.52	48	Atlas		352869.00	1
	12/9/2023 15:45	12/9/2023 16:30	45	0.96	778,477	0.57	1	Atlas		749673.00	1
	1/12/2024 12:15	1/12/2024 13:45	90	1.17	5,914	0.52	12	Atlas		6937.00	1
	1/24/2024 7:30	1/24/2024 9:00	90	1.54	208,060	0.42	3	Atlas		319996.00	1
	1/27/2024 19:00	1/27/2024 19:15	15	0.85	48,298	0.33	24	Atlas		41295.00	1
	3/5/2024 14:45	3/5/2024 15:15	30	0.84	3,944	0.31	24	Atlas		3321.00	1
	3/6/2024 0:30	3/6/2024 1:00	30	0.84	31,299	0.31	24	Atlas		26353.00	1
	3/14/2024 23:00	3/14/2024 23:45	45	0.51	856,838	0.36	1	Atlas		435274.00	1
	3/30/2024 23:00	3/30/2024 23:45	45	0.48	707,490	0.38	1	Atlas		339595.00	1
	4/2/2024 7:15	4/2/2024 8:00	45	0.92	2,420,486	0.49	1	Atlas		2226847.00	1
	4/2/2024 17:15	4/2/2024 18:00	45	0.92	944,230	0.49	1	Atlas		868,692	1
	4/11/2024 7:00	4/11/2024 7:45	45	1.3	131,144	0.42	48	Atlas		170618.00	1
	4/19/2024 3:30	4/19/2024 4:00	30	0.54	2,969	0.29	6	Atlas		1594.00	1
	4/29/2024 22:15	4/29/2024 23:15	60	0.64	92,162	0.37	3	Atlas		58615.00	1
	5/3/2024 17:45	5/3/2024 23:30	345	0.87	1,577,170	0.33	24	Atlas		1367406.00	1
	5/6/2024 3:00	5/6/2024 3:45	45	0.71	1,411,971	0.39	1	Atlas		1003911.00	1
	5/22/2024 19:00	5/22/2024 20:00	60	0.94	3,921,204	0.82	1	Atlas		3670247.00	1



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	5/26/2024 22:30	5/26/2024 23:15	45	1.04	1,604,079	0.49	3	Atlas		1674658.00	1
	6/4/2024 15:00	6/4/2024 15:30	30	0.59	1,768,866	0.48	1	Atlas		1040093.00	1
	6/25/2024 17:00	6/25/2024 17:45	45	0.85	2,281,372	0.38	1	Atlas		1934604.00	1
	6/26/2024 16:15	6/26/2024 17:30	75	1.03	3,266,937	0.69	1	Atlas		3364946.00	1
CSO151 Total										29124776.00	33
CSO152	6/26/2024 16:45	6/26/2024 17:15	30	1.03	25,641	0.72	1	Atlas		26436.00	1
CSO152 Total										26436.00	1
CSO154	4/17/2024 2:00	4/17/2024 8:00	360	0.44	4,930	0.24	6	Atlas		2179.00	1
CSO154 Total										2179.00	1
CSO160	8/12/2023 10:00	8/12/2023 10:15	15	0.49	25,667	0.43	1	Atlas		12551.00	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.58	13,467	0.38	1	Atlas		7811.00	1
	5/22/2024 19:15	5/22/2024 19:45	30	1.19	13,626	1.17	1	Atlas		16270.00	1
CSO160 Total										36632.00	3
CSO161	8/7/2023 2:15	8/7/2023 4:15	120	1.34	7,189	0.84	3	Atlas		9619.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.49	20,605	0.43	1	Atlas		10076.00	1
	4/2/2024 7:30	4/2/2024 7:45	15	1.17	1,140	0.53	12	Atlas		1328.00	1
	4/29/2024 22:15	4/29/2024 22:30	15	0.6	70	0.35	3	Atlas		42.00	1
	5/3/2024 23:30	5/4/2024 0:00	30	0.91	4,013	0.35	24	Atlas		3648.00	1
	5/6/2024 3:15	5/6/2024 3:30	15	0.61	90	0.29	1	Atlas		55.00	1
	5/22/2024 19:15	5/22/2024 19:45	30	1.19	15,275	1.17	1	Atlas		18,238	1
	5/26/2024 22:45	5/26/2024 23:00	15	0.87	1,570	0.38	3	Atlas		1371.00	1
	6/4/2024 14:00	6/4/2024 14:15	15	0.28	86	0.22	1	Atlas		24.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	0.6	21,678	0.42	1	Atlas		13093.00	1
	6/26/2024 16:15	6/26/2024 17:15	60	1.03	22,172	0.8	1	Atlas		22837.00	1
CSO161 Total										80331.00	11
CSO166	8/25/2023 19:30	8/25/2023 20:00	30	1.5	75,437	0.78	3	Atlas		113156.00	1
	5/22/2024 19:15	5/22/2024 20:00	45	1.14	1,788,930	0.99	1	Atlas		2035803.00	1
	6/26/2024 16:00	6/26/2024 17:00	60	1.16	785,454	0.75	3	Atlas		910,341	1
CSO166 Total										3059300.00	3
CSO174	7/1/2023 10:45	7/1/2023 11:15	30	0.33	747,451	0.26	1	Atlas	Retained by Sneads Branch.	243669.00	1
	7/2/2023 17:15	7/2/2023 17:45	30	0.27	1,070,109	0.23	1	Atlas	Retained by Sneads Branch.	292140.00	1
	7/8/2023 18:15	7/8/2023 19:15	60	1	767,315	0.76	1	Atlas		765780.00	1
	7/18/2023 18:15	7/18/2023 18:45	30	0.46	3,495	0.26	1	Atlas	Retained by Sneads Branch.	1611.00	1

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	7/24/2023 19:15	7/24/2023 19:45	30	0.12	120,919	0.1	1	Atlas	Retained by Sneads Branch.	14631.00	1
	8/3/2023 8:00	8/3/2023 8:30	30	0.54	39,110	0.3	6	Atlas	Retained by Sneads Branch.	20963.00	1
	8/7/2023 2:15	8/7/2023 4:15	120	0.73	167,357	0.47	3	Atlas	Retained by Sneads Branch.	122171.00	1
	8/7/2023 17:15	8/7/2023 18:00	45	0.35	150,691	0.29	1	Atlas	Retained by Sneads Branch.	51988.00	1
	8/12/2023 10:00	8/12/2023 10:30	30	0.61	358,179	0.53	1	Atlas	Retained by Sneads Branch.	219564.00	1
	8/25/2023 19:45	8/26/2023 2:15	390	2.06	709,273	1.67	3	Atlas		1463939.00	1
	10/28/2023 23:45	10/29/2023 0:00	15	1.8	991	0.55	48	Atlas	Retained by Sneads Branch.	1784.00	1
	10/30/2023 0:30	10/30/2023 1:45	75	1.8	126,488	0.55	48	Atlas	Retained by Sneads Branch.	227805.00	1
	12/9/2023 16:00	12/9/2023 18:45	165	1.09	324,162	0.64	1	Atlas		354633.00	1
CSO174 Total										3780678.00	13
CSO178	7/8/2023 18:30	7/8/2023 19:15	45	1.07	717,631	0.79	1	Atlas		767865.00	1
	8/25/2023 20:30	8/25/2023 20:45	15	1.62	44,007	0.89	3	Atlas		71160.00	1
	5/22/2024 19:30	5/22/2024 19:45	15	1.12	209,469	0.97	1	Atlas		235024.00	1
CSO178 Total										1074049.00	3
CSO180	7/1/2023 10:30	7/1/2023 11:00	30	0.33	28,495	0.26	1	Atlas	Retained by Sneads Branch.	9290.00	1
	7/2/2023 17:15	7/2/2023 17:30	15	0.27	2,856	0.23	1	Atlas	Retained by Sneads Branch.	780.00	1
	7/8/2023 18:00	7/8/2023 18:45	45	1	111,707	0.76	1	Atlas		111484.00	1
	7/18/2023 17:45	7/18/2023 18:00	15	0.46	7,938	0.26	1	Atlas	Retained by Sneads Branch.	3660.00	1
	8/3/2023 8:00	8/3/2023 8:15	15	0.54	9,130	0.3	6	Atlas	Retained by Sneads Branch.	4894.00	1
	8/7/2023 1:15	8/7/2023 4:15	180	0.73	205,927	0.47	3	Atlas	Retained by Sneads Branch.	150327.00	1
	8/7/2023 17:15	8/7/2023 17:30	15	0.35	104,817	0.29	1	Atlas	Retained by Sneads Branch.	36162.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.61	139,888	0.53	1	Atlas	Retained by Sneads Branch.	85751.00	1
	9/27/2023 1:00	9/27/2023 2:00	60	0.17	127,436	0.13	1	Atlas	Retained by Sneads Branch.	21409.00	1
	10/30/2023 0:45	10/30/2023 1:30	45	1.8	18,966	0.55	48	Atlas	Retained by Sneads Branch.	34157.00	1
	12/9/2023 16:00	12/9/2023 18:30	150	1.09	89,150	0.64	1	Atlas		97531.00	1
CSO180 Total										555444.00	11
CSO181	8/25/2023 20:15	8/25/2023 20:30	15	1.96	109,781	1.53	3	Atlas		215170.00	1
	5/3/2024 23:30	5/3/2024 23:45	15	0.97	318,899	0.37	24	Atlas		308376.00	1
	5/22/2024 19:15	5/22/2024 19:30	15	1.15	552,662	1	1	Atlas		636667.00	1



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	6/26/2024 17:00	6/26/2024 17:15	15	0.99	201,953	0.77	1	Atlas		200943.00	1
CSO181 Total										1361155.00	4
	9/27/2023 1:15	9/27/2023 2:00	45	0.23	95,095	0.18	1	Atlas	Retained by Sneads Branch.	21587.00	1
CSO182	9/28/2023 1:45	9/28/2023 5:30	225	0.54	173,835	0.3	6	Atlas	Retained by Sneads Branch.	93523.00	1
	10/19/2023 20:00	10/19/2023 20:30	30	0.34	81,103	0.13	24	Atlas	Retained by Sneads Branch.	27494.00	1
	10/27/2023 9:00	10/27/2023 9:30	30	0.11	195,430	0.1	1	Atlas	Retained by Sneads Branch.	22474.00	1
	10/29/2023 0:00	10/29/2023 4:45	285	1.73	35,649	0.52	6	Atlas	Retained by Sneads Branch.	61566.00	1
	10/29/2023 22:30	10/30/2023 6:15	465	1.73	253,361	0.52	6	Atlas	Retained by Sneads Branch.	437555.00	1
	11/21/2023 0:15	11/21/2023 11:15	660	0.97	256,546	0.45	6	Atlas	Retained by Sneads Branch.	249,363	1
	12/4/2023 12:15	12/4/2023 13:00	45	0.16	136,907	0.11	3	Atlas	Retained by Sneads Branch.	22590.00	1
	12/9/2023 16:00	12/9/2023 19:45	225	0.99	40,994	0.57	1	Atlas	Retained by Sneads Branch.	40707.00	1
	12/16/2023 23:15	12/17/2023 0:30	75	0.28	148,276	0.13	12	Atlas	Retained by Sneads Branch.	40924.00	1
	12/25/2023 11:45	12/25/2023 22:30	645	0.51	283,817	0.22	12	Atlas	Retained by Sneads Branch.	145598.00	1
CSO182 Total										1163381.00	11
	7/1/2023 10:45	7/1/2023 11:00	15	0.48	2,153	0.37	1	Atlas	Retained by Sneads Branch.	1025.00	1
CSO183	7/2/2023 17:15	7/2/2023 17:30	15	0.39	4,139	0.32	1	Atlas	Retained by Sneads Branch.	1593.00	1
	7/6/2023 12:30	7/6/2023 12:45	15	0.05	219	0.03	3	Atlas	Retained by Sneads Branch.	11.00	1
	7/8/2023 18:30	7/8/2023 18:45	15	1.37	12,661	1.13	1	Atlas	Retained by Sneads Branch.	17396.00	1
	8/7/2023 17:30	8/7/2023 17:45	15	0.41	3,098	0.34	1	Atlas	Retained by Sneads Branch.	1261.00	1
	8/25/2023 20:30	8/25/2023 21:00	30	1.48	3,567	0.77	3	Atlas	Retained by Sneads Branch.	5287.00	1
	12/24/2023 9:45	12/24/2023 10:00	15	0.06	325	0.03	3	Atlas	Retained by Sneads Branch.	20.00	1
CSO183 Total										26594.00	7
	7/1/2023 10:45	7/1/2023 11:00	15	0.48	20,606	0.37	1	Atlas	Retained by Sneads Branch.	9808.00	1
CSO184	7/2/2023 17:15	7/2/2023 17:30	15	0.39	3,597	0.32	1	Atlas	Retained by Sneads Branch.	1385.00	1
	7/8/2023 18:30	7/8/2023 19:00	30	1.37	90,801	1.13	1	Atlas	Retained by Sneads Branch.	124760.00	1
	7/24/2023 19:15	7/24/2023 19:30	15	0.33	31,855	0.29	1	Atlas	Retained by Sneads Branch.	10448.00	1
	8/7/2023 17:30	8/7/2023 17:45	15	0.41	22,256	0.34	1	Atlas	Retained by Sneads Branch.	9058.00	1

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	8/12/2023 10:15	8/12/2023 10:30	15	0.58	3,940	0.5	1	Atlas	Retained by Sneads Branch.	2273.00	1
	8/25/2023 19:45	8/25/2023 21:00	75	1.48	97,212	0.77	3	Atlas		144069.00	1
	10/30/2023 1:15	10/30/2023 1:45	30	1.64	1,290	0.52	6	Atlas	Retained by Sneads Branch.	2120.00	1
	12/9/2023 16:15	12/9/2023 16:30	15	0.87	198	0.5	3	Atlas	Retained by Sneads Branch.	172.00	1
	1/24/2024 7:45	1/24/2024 9:00	75	1.53	263	0.43	3	Atlas	Retained by Sneads Branch.	401.00	1
	2/10/2024 5:45	2/10/2024 6:00	15	0.38	604	0.25	3	Atlas	Retained by Sneads Branch.	229.00	1
	3/5/2024 15:00	3/5/2024 15:15	15	0.98	28,432	0.37	24	Atlas	Retained by Sneads Branch.	27892.00	1
	3/14/2024 23:00	3/14/2024 23:45	45	0.76	30,103	0.59	1	Atlas	Retained by Sneads Branch.	22849.00	1
	4/2/2024 7:45	4/2/2024 8:00	15	0.97	25,680	0.54	1	Atlas		25013.00	1
	4/15/2024 23:45	4/16/2024 0:45	60	0.26	328,029	0.23	1	Atlas	Retained by Sneads Branch.	85288.00	1
	4/17/2024 2:15	4/17/2024 5:00	165	0.35	247,349	0.19	6	Atlas	Retained by Sneads Branch.	86820.00	1
	4/19/2024 1:00	4/19/2024 5:15	255	0.57	276,006	0.31	6	Atlas	Retained by Sneads Branch.	157876.00	1
	4/29/2024 22:15	4/30/2024 1:45	210	0.66	423,233	0.37	3	Atlas	Retained by Sneads Branch.	277217.00	1
	5/3/2024 3:00	5/3/2024 7:30	270	0.94	119,311	0.36	24	Atlas	Retained by Sneads Branch.	112510.00	1
	5/3/2024 18:15	5/4/2024 0:45	390	0.94	593,261	0.36	24	Atlas		559445.00	1
	5/5/2024 1:30	5/5/2024 2:30	60	0.13	300,256	0.11	1	Atlas	Retained by Sneads Branch.	40234.00	1
	5/6/2024 3:00	5/6/2024 14:00	660	0.61	570,027	0.3	1	Atlas	Retained by Sneads Branch.	348286.00	1
	5/7/2024 12:00	5/7/2024 12:30	30	0.08	119,994	0.05	3	Atlas	Retained by Sneads Branch.	9839.00	1
	5/8/2024 2:00	5/8/2024 2:30	30	0.16	91,356	0.11	1	Atlas	Retained by Sneads Branch.	14982.00	1
	5/8/2024 18:45	5/9/2024 3:45	540	0.56	760,080	0.28	3	Atlas	Retained by Sneads Branch.	427925.00	1
	5/14/2024 9:15	5/14/2024 10:30	75	0.52	87,377	0.2	24	Atlas	Retained by Sneads Branch.	45349.00	1
	5/15/2024 1:45	5/15/2024 3:15	90	0.52	92,865	0.2	24	Atlas	Retained by Sneads Branch.	48197.00	1
	5/15/2024 13:00	5/15/2024 13:15	15	0.03	170,122	0.03	1	Atlas	Retained by Sneads Branch.	5614.00	1
	5/17/2024 7:45	5/17/2024 8:00	15	0.17	5,918	0.09	6	Atlas	Retained by Sneads Branch.	1012.00	1
	5/22/2024 19:00	5/22/2024 20:45	105	0.66	1,818,128	0.57	1	Atlas	Retained by Sneads Branch.	1190874.00	1
	5/23/2024 19:00	5/23/2024 20:45	105	0.29	591,624	0.19	3	Atlas	Retained by Sneads Branch.	173938.00	1



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	5/26/2024 11:15	5/26/2024 13:00	105	1.12	164,136	0.47	3	Atlas	Retained by Sneads Branch.	183504.00	1
	5/26/2024 22:45	5/27/2024 2:00	195	1.12	632,385	0.47	3	Atlas	Retained by Sneads Branch.	707007.00	1
	6/1/2024 16:45	6/1/2024 17:00	15	0.14	38,130	0.09	3	Atlas	Retained by Sneads Branch.	5,376	1
	6/2/2024 12:45	6/2/2024 21:30	525	0.53	282,704	0.25	1	Atlas	Retained by Sneads Branch.	148985.00	1
	6/4/2024 15:00	6/4/2024 17:15	135	0.67	1,310,955	0.55	1	Atlas		883584.00	1
	6/5/2024 20:45	6/5/2024 22:45	120	0.18	461,499	0.12	3	Atlas	Retained by Sneads Branch.	83993.00	1
	6/8/2024 15:30	6/8/2024 15:45	15	0	25,250	0	1	Atlas	Retained by Sneads Branch.	25.00	1
	6/25/2024 17:00	6/25/2024 20:45	225	0.28	1,009,603	0.19	1	Atlas	Retained by Sneads Branch.	277641.00	1
	6/26/2024 5:45	6/26/2024 18:30	765	0.28	5,681,796	0.19	1	Atlas		1562494.00	1
CSO184 Total										7,818,492	40
CSO185	7/8/2023 18:15	7/8/2023 19:15	60	1.37	104,315	1.13	1	Atlas		143328.00	1
	7/18/2023 18:15	7/18/2023 18:30	15	0.67	7,395	0.33	1	Atlas	Retained by Sneads Branch.	4954.00	1
	7/24/2023 19:15	7/24/2023 19:45	30	0.33	10,054	0.29	1	Atlas	Retained by Sneads Branch.	3296.00	1
	8/7/2023 17:30	8/7/2023 17:45	15	0.41	72,588	0.34	1	Atlas	Retained by Sneads Branch.	29543.00	1
	8/12/2023 10:15	8/12/2023 10:30	15	0.58	120,323	0.5	1	Atlas	Retained by Sneads Branch.	69426.00	1
	8/25/2023 19:45	8/26/2023 2:15	390	1.48	275,907	0.77	3	Atlas		408894.00	1
	12/9/2023 16:30	12/9/2023 16:45	15	0.87	731	0.5	3	Atlas	Retained by Sneads Branch.	633.00	1
CSO185 Total										660,078	7
CSO186	12/9/2023 16:15	12/9/2023 16:30	15	1.09	12,394	0.64	1	Atlas	Retained by Sneads Branch.	13559.00	1
CSO186 Total										13559.00	1
CSO187	7/8/2023 18:00	7/8/2023 18:15	15	1	1,745	0.76	1	Atlas		1741.00	1
	8/25/2023 20:00	8/25/2023 20:30	30	2.06	24,819	1.67	3	Atlas		51227.00	1
	12/9/2023 15:45	12/9/2023 16:15	30	1.09	7,740	0.64	1	Atlas		8467.00	1
CSO187 Total										61436.00	3
CSO188	8/7/2023 4:00	8/7/2023 4:15	15	0.73	29	0.47	3	Atlas	Retained by Sneads Branch.	21.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.61	4,318	0.53	1	Atlas	Retained by Sneads Branch.	2647.00	1
	8/25/2023 20:30	8/25/2023 20:45	15	2.06	15,690	1.67	3	Atlas		32383.00	1
CSO188 Total										36051.00	3

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CSO189	7/1/2023 10:45	7/1/2023 11:15	30	0.75	421,027	0.63	1	Atlas		315770.00	1
	7/8/2023 18:00	7/8/2023 21:00	180	1.85	22,275,906	4.34	1	Atlas		41143599.00	1
	8/7/2023 3:30	8/7/2023 6:30	180	1.08	38,489,201	0.88	3	Atlas		41606826.00	1
	8/12/2023 10:00	8/12/2023 10:45	45	0.43	2,020,136	0.37	1	Atlas		864618.00	1
	1/12/2024 13:30	1/12/2024 16:00	150	1.29	5,535,099	0.57	12	Atlas		7,140,277	1
	3/8/2024 21:00	3/8/2024 21:45	45	1.21	1,241,580	0.51	12	Atlas		1499828.00	1
	3/14/2024 23:15	3/15/2024 0:00	45	0.72	1,668,590	0.47	3	Atlas		1196379.00	1
	4/2/2024 7:30	4/2/2024 8:45	75	1.18	6,350,761	0.54	12	Atlas		7487548.00	1
	5/6/2024 3:30	5/6/2024 4:00	30	0.86	114,322	0.42	1	Atlas		97860.00	1
	5/22/2024 19:15	5/22/2024 20:30	75	0.67	5,409,983	0.58	1	Atlas		3613869.00	1
	5/26/2024 23:45	5/27/2024 1:15	90	0.91	5,195,601	0.35	3	Atlas		4702019.00	1
	6/26/2024 16:45	6/26/2024 18:30	105	0.51	20,770,687	0.37	1	Atlas		10489197.00	1
CSO189 Total										120157790.00	12
CSO193	7/1/2023 10:30	7/1/2023 10:45	15	0.42	4,308	0.35	1	Atlas		1822.00	1
	7/8/2023 18:00	7/8/2023 18:30	30	1.07	9,859	0.79	1	Atlas		10549.00	1
	8/3/2023 7:45	8/3/2023 8:00	15	0.59	884	0.32	6	Atlas		519.00	1
	8/7/2023 17:15	8/7/2023 17:30	15	0.25	335	0.21	1	Atlas		83.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.56	724	0.49	1	Atlas		406.00	1
	8/25/2023 20:00	8/25/2023 20:45	45	1.62	8,847	0.89	3	Atlas		14305.00	1
	10/30/2023 1:15	10/30/2023 1:30	15	1.91	24	0.6	48	Atlas		45.00	1
	3/14/2024 23:00	3/14/2024 23:15	15	0.55	5,677	0.37	1	Atlas		3,111	1
	4/2/2024 7:15	4/2/2024 7:30	15	1.17	1,607	0.54	12	Atlas		1881.00	1
	4/2/2024 17:15	4/2/2024 17:45	30	1.17	4,218	0.54	12	Atlas		4935.00	1
	4/11/2024 6:45	4/11/2024 7:30	45	1.28	10,396	0.42	24	Atlas		13307.00	1
	4/19/2024 3:45	4/19/2024 4:00	15	0.52	25	0.28	6	Atlas		13.00	1
	4/29/2024 22:15	4/29/2024 23:15	60	0.61	3,081	0.35	3	Atlas		1876.00	1
	5/3/2024 7:45	5/3/2024 8:00	15	0.84	1,924	0.32	24	Atlas		1611.00	1
	5/3/2024 23:15	5/3/2024 23:45	30	0.84	21,313	0.32	24	Atlas		17839.00	1
	5/6/2024 3:00	5/6/2024 3:15	15	0.59	33,924	0.29	1	Atlas		20184.00	1
	5/22/2024 19:00	5/22/2024 19:45	45	1.12	30,183	0.97	1	Atlas		33866.00	1
	5/23/2024 15:15	5/23/2024 19:00	225	0.01	1,689,364	0.01	1	Atlas		16894.00	1
	5/26/2024 19:15	5/26/2024 19:30	15	0.9	1,087	0.38	3	Atlas		981.00	1
	6/4/2024 15:15	6/4/2024 15:30	15	0.26	4,153	0.2	1	Atlas		1072.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	0.57	99	0.38	1	Atlas		56.00	1
	6/26/2024 16:45	6/26/2024 17:15	30	1.09	4,136	0.86	1	Atlas		4508.00	1
CSO193 Total										149863.00	22
CSO195	7/8/2023 18:15	7/8/2023 18:30	15	1.25	80,115	0.89	1	Atlas		100385.00	1



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	8/7/2023 4:00	8/7/2023 4:15	15	0.93	156	0.6	3	Atlas		145.00	1
	8/25/2023 20:30	8/25/2023 20:45	15	1.31	9,585	0.68	3	Atlas		12566.00	1
	12/9/2023 16:15	12/9/2023 16:30	15	0.98	14	0.55	3	Atlas		13.00	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.54	27,694	0.37	1	Atlas		15066.00	1
	4/2/2024 17:30	4/2/2024 17:45	15	1.09	44,808	0.5	12	Atlas		48661.00	1
CSO195 Total										176836.00	6
CSO196	7/1/2023 10:30	7/1/2023 10:45	15	0.33	472	0.27	1	Atlas		157.00	1
	7/2/2023 17:00	7/2/2023 17:15	15	0.23	165	0.19	1	Atlas		36.00	1
	7/8/2023 18:00	7/8/2023 18:45	45	1.25	4,988	0.99	1	Atlas		6,249	1
	8/3/2023 7:45	8/3/2023 8:15	30	0.58	174	0.31	6	Atlas		100.00	1
	8/7/2023 1:15	8/7/2023 3:30	135	0.93	44	0.6	3	Atlas		41.00	1
	8/7/2023 17:15	8/7/2023 17:30	15	0.34	791	0.28	1	Atlas		266.00	1
	8/9/2023 18:30	8/9/2023 18:45	15	0.23	33	0.14	1	Atlas		7.00	1
	8/25/2023 20:15	8/25/2023 20:30	15	1.31	46,632	0.68	3	Atlas		61134.00	1
	9/28/2023 0:15	9/28/2023 2:45	150	0.54	542	0.29	6	Atlas		291.00	1
	10/19/2023 19:15	10/19/2023 19:45	30	0.42	207	0.16	24	Atlas		87.00	1
	10/28/2023 17:45	10/28/2023 20:15	150	1.89	241	0.6	48	Atlas		455.00	1
	10/30/2023 0:45	10/30/2023 1:45	60	1.89	38	0.6	48	Atlas		72.00	1
	11/21/2023 1:30	11/21/2023 1:45	15	0.89	168	0.42	6	Atlas		150.00	1
	12/9/2023 16:00	12/9/2023 16:15	15	0.98	57,552	0.55	3	Atlas		56517.00	1
	1/12/2024 12:15	1/12/2024 12:30	15	1.17	1	0.52	12	Atlas		1.00	1
	1/24/2024 7:30	1/24/2024 8:45	75	1.51	339	0.41	24	Atlas		513.00	1
	1/27/2024 19:00	1/27/2024 19:15	15	0.92	101	0.35	24	Atlas		92.00	1
	2/10/2024 5:30	2/10/2024 5:45	15	0.39	224	0.26	3	Atlas		87.00	1
	2/22/2024 18:30	2/22/2024 18:45	15	0.49	116	0.22	12	Atlas		57.00	1
	3/14/2024 23:00	3/14/2024 23:15	15	0.54	384	0.37	1	Atlas		209.00	1
	4/2/2024 7:15	4/2/2024 7:45	30	1.09	45,632	0.5	12	Atlas		49556.00	1
	4/2/2024 17:15	4/2/2024 17:30	15	1.09	41,155	0.5	12	Atlas		44694.00	1
	4/11/2024 6:45	4/11/2024 7:00	15	1.29	2	0.42	24	Atlas		3.00	1
	4/29/2024 22:15	4/29/2024 22:45	30	0.62	56	0.35	3	Atlas		35.00	1
	5/22/2024 19:00	5/22/2024 19:30	30	0.9	13,450	0.78	1	Atlas		12051.00	1
	5/23/2024 19:00	5/23/2024 19:15	15	0.3	235	0.21	1	Atlas		72.00	1
	5/26/2024 11:15	5/26/2024 11:30	15	0.97	30	0.4	3	Atlas		29.00	1
	5/26/2024 22:45	5/26/2024 23:00	15	0.97	19	0.4	3	Atlas		18.00	1
	6/4/2024 15:00	6/4/2024 15:30	30	0.42	71,412	0.33	1	Atlas		29707.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	0.51	254	0.32	1	Atlas		130.00	1
	6/26/2024 16:15	6/26/2024 17:15	60	0.98	47,609	0.74	1	Atlas		46514.00	1
CSO196 Total										309333.00	31

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CSO197	7/1/2023 10:30	7/1/2023 10:45	15	0.33	6,038	0.27	1	Atlas		2005.00	1
	7/8/2023 18:15	7/8/2023 18:45	30	1.25	9,223	0.99	1	Atlas		11557.00	1
	8/7/2023 2:00	8/7/2023 2:15	15	0.93	124	0.6	3	Atlas		115.00	1
	8/7/2023 16:45	8/7/2023 17:00	15	0.34	11,464	0.28	1	Atlas		3852.00	1
	8/12/2023 9:45	8/12/2023 10:00	15	0.63	7,936	0.55	1	Atlas		4,968	1
	8/25/2023 18:00	8/25/2023 18:45	45	1.31	3,787	0.68	3	Atlas		4965.00	1
	12/9/2023 16:00	12/9/2023 16:15	15	0.98	6,928	0.55	3	Atlas		6803.00	1
	3/14/2024 23:00	3/14/2024 23:15	15	0.54	1,157	0.37	1	Atlas		629	1
	4/2/2024 7:30	4/2/2024 7:45	15	1.09	812	0.5	12	Atlas		882.00	1
	4/2/2024 17:15	4/2/2024 17:30	15	1.09	2,931	0.5	12	Atlas		3183.00	1
	5/22/2024 19:00	5/22/2024 19:30	30	0.9	1,970	0.78	1	Atlas		1765.00	1
	6/4/2024 15:00	6/4/2024 15:15	15	0.42	2,425	0.33	1	Atlas		1009.00	1
	6/26/2024 17:00	6/26/2024 17:15	15	0.98	255	0.74	1	Atlas		249.00	1
CSO197 Total										41983.00	13
CSO198	7/8/2023 18:00	7/8/2023 18:30	30	1.25	26,771	0.99	1	Atlas		33544.00	1
	8/12/2023 9:45	8/12/2023 10:00	15	0.63	8,297	0.55	1	Atlas		5194.00	1
	8/25/2023 19:45	8/25/2023 20:30	45	1.31	16,248	0.68	3	Atlas		21301.00	1
	12/9/2023 15:45	12/9/2023 16:15	30	0.98	7,137	0.55	3	Atlas		7009.00	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.54	425	0.37	1	Atlas		231.00	1
	4/2/2024 7:30	4/2/2024 7:45	15	1.09	1,277	0.5	12	Atlas		1387.00	1
	4/2/2024 17:15	4/2/2024 17:45	30	1.09	38,032	0.5	12	Atlas		41303.00	1
	5/22/2024 19:00	5/22/2024 19:30	30	0.9	8,257	0.78	1	Atlas		7399.00	1
	6/4/2024 15:00	6/4/2024 15:30	30	0.42	33,580	0.33	1	Atlas		13969.00	1
	6/26/2024 17:00	6/26/2024 17:15	15	0.98	975	0.74	1	Atlas		953.00	1
CSO198 Total										132290.00	10
CSO199	7/15/2023 12:00	7/15/2023 12:15	15	0.16	33	0.1	3	Atlas		5.00	1
	7/18/2023 18:00	7/18/2023 18:45	45	0.43	91	0.24	1	Atlas		39.00	1
	8/12/2023 10:00	8/12/2023 10:30	30	0.63	642	0.55	1	Atlas		402.00	1
	8/14/2023 8:30	8/14/2023 8:45	15	0.47	1	0.23	3	Atlas		1.00	1
	8/25/2023 19:45	8/25/2023 21:15	90	1.31	26,439	0.68	3	Atlas		34661.00	1
	10/30/2023 0:45	10/30/2023 1:30	45	1.89	39	0.6	48	Atlas		75.00	1
	12/9/2023 16:00	12/9/2023 16:30	30	0.98	24,902	0.55	3	Atlas		24454.00	1
	1/24/2024 7:30	1/24/2024 8:15	45	1.51	78	0.41	24	Atlas		117.00	1
	1/27/2024 19:00	1/27/2024 19:15	15	0.92	137	0.35	24	Atlas		126.00	1
	2/10/2024 5:30	2/10/2024 5:45	15	0.39	4	0.26	3	Atlas		1.00	1
	3/14/2024 23:00	3/14/2024 23:30	30	0.54	1,057	0.37	1	Atlas		575.00	1
	3/30/2024 22:00	3/30/2024 22:15	15	0.27	2	0.18	3	Atlas		1.00	1



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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (IN)	DISCHARGE PER RAIN (GAL/IN)	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	4/9/2024 12:15	4/9/2024 12:45	30	0.02	837	0.02	1	Atlas		18.00	1
	4/10/2024 7:30	4/10/2024 15:15	465	1.29	207	0.42	24	Atlas		267.00	1
	4/11/2024 3:45	4/11/2024 7:30	225	1.29	86	0.42	24	Atlas		111.00	1
	4/29/2024 22:15	4/29/2024 22:30	15	0.62	5	0.35	3	Atlas		3.00	1
	5/3/2024 23:15	5/3/2024 23:45	30	0.82	1,450	0.32	24	Atlas		1,186	1
	5/6/2024 3:00	5/6/2024 3:15	15	0.67	2,618	0.32	1	Atlas		1762.00	1
	5/6/2024 12:45	5/6/2024 13:00	15	0.67	187	0.32	1	Atlas		126	1
	5/22/2024 19:00	5/22/2024 19:45	45	0.9	38,017	0.78	1	Atlas		34063.00	1
	5/23/2024 19:00	5/23/2024 19:15	15	0.3	940	0.21	1	Atlas		286.00	1
	5/26/2024 11:15	5/26/2024 11:45	30	0.97	273	0.4	3	Atlas		266.00	1
	5/26/2024 22:45	5/26/2024 23:00	15	0.97	248	0.4	3	Atlas		241.00	1
	6/4/2024 15:00	6/4/2024 15:45	45	0.42	31,937	0.33	1	Atlas		13286.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	0.51	424	0.32	1	Atlas		218.00	1
	6/26/2024 16:45	6/26/2024 17:15	30	0.98	31,103	0.74	1	Atlas		30,388	1
CSO199 Total										142676.00	26
CSO200	7/8/2023 18:15	7/8/2023 19:00	45	1.25	39,108	0.99	1	Atlas		49003.00	1
	12/9/2023 16:15	12/9/2023 16:30	15	0.98	192	0.55	3	Atlas		189.00	1
	4/2/2024 17:30	4/2/2024 17:45	15	1.09	427	0.5	12	Atlas		464.00	1
CSO200 Total										49655.00	3
CSO201	7/1/2023 10:45	7/1/2023 11:00	15	0.42	8,076	0.35	1	Atlas		3416.00	1
	7/8/2023 18:30	7/8/2023 18:45	15	1.07	30,551	0.79	1	Atlas		32690.00	1
	8/25/2023 20:30	8/25/2023 21:00	30	1.62	24,130	0.89	3	Atlas		39018.00	1
	12/9/2023 16:15	12/9/2023 16:30	15	0.85	26,727	0.46	3	Atlas		22825.00	1
	4/2/2024 7:45	4/2/2024 8:00	15	1.17	747	0.54	12	Atlas		874.00	1
	4/2/2024 17:30	4/2/2024 17:45	15	1.17	12,849	0.54	12	Atlas		15033.00	1
	5/3/2024 23:45	5/4/2024 0:00	15	0.84	1,015	0.32	24	Atlas		850.00	1
	5/6/2024 3:15	5/6/2024 3:30	15	0.59	1,034	0.29	1	Atlas		615.00	1
	5/22/2024 19:15	5/22/2024 19:45	30	1.12	53,498	0.97	1	Atlas		60025.00	1
	6/26/2024 17:15	6/26/2024 17:30	15	1.09	2,124	0.86	1	Atlas		2315.00	1
CSO201 Total										177662.00	10
CSO202	7/1/2023 10:30	7/1/2023 10:45	15	0.33	6,288	0.27	1	Atlas		2088.00	1
	7/2/2023 17:00	7/2/2023 17:15	15	0.23	403	0.19	1	Atlas		93.00	1
	7/8/2023 18:00	7/8/2023 18:45	45	1.25	32,639	0.99	1	Atlas		40896.00	1
	8/3/2023 7:45	8/3/2023 8:00	15	0.58	236	0.31	6	Atlas		136	1
	8/7/2023 2:15	8/7/2023 4:15	120	0.93	13,156	0.6	3	Atlas		12261.00	1
	8/7/2023 17:15	8/7/2023 17:30	15	0.34	10,703	0.28	1	Atlas		3596.00	1

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	8/12/2023 10:00	8/12/2023 10:15	15	0.63	9,062	0.55	1	Atlas		5673.00	1
	8/25/2023 19:30	8/25/2023 20:45	75	1.31	14,186	0.68	3	Atlas		18597.00	1
	10/28/2023 17:45	10/28/2023 18:00	15	1.89	12	0.6	48	Atlas		22.00	1
	12/9/2023 16:00	12/9/2023 18:30	150	0.98	38,496	0.55	3	Atlas		37803.00	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.54	56,445	0.37	1	Atlas		30706.00	1
	4/2/2024 7:45	4/2/2024 8:00	15	1.09	925	0.5	12	Atlas		1004.00	1
	4/2/2024 17:30	4/2/2024 17:45	15	1.09	35,061	0.5	12	Atlas		38076.00	1
	5/3/2024 23:30	5/3/2024 23:45	15	0.82	92	0.32	24	Atlas		75.00	1
	5/6/2024 3:15	5/6/2024 3:30	15	0.67	799	0.32	1	Atlas		538.00	1
	5/6/2024 12:45	5/6/2024 13:00	15	0.67	32	0.32	1	Atlas		22.00	1
	5/7/2024 10:00	5/7/2024 10:15	15	0.19	2,911	0.13	3	Atlas		553.00	1
	5/22/2024 19:15	5/22/2024 19:45	30	0.9	32,994	0.78	1	Atlas		29562.00	1
	5/23/2024 19:00	5/23/2024 19:15	15	0.3	3,161	0.21	1	Atlas		961	1
	5/26/2024 22:45	5/26/2024 23:00	15	0.97	1,102	0.4	3	Atlas		1072.00	1
	6/4/2024 15:15	6/4/2024 15:30	15	0.42	7,811	0.33	1	Atlas		3249.00	1
	6/25/2024 17:15	6/25/2024 17:30	15	0.51	40	0.32	1	Atlas		20.00	1
	6/26/2024 16:45	6/26/2024 17:30	45	0.98	10,132	0.74	1	Atlas		9899.00	1
CSO202 Total										236903.00	23
CSO203	7/1/2023 22:15	7/1/2023 22:30	15	0.36	12	0.19	3	Atlas		4.00	1
	7/8/2023 18:15	7/8/2023 18:45	30	1.25	27,441	0.99	1	Atlas		34383.00	1
	8/7/2023 2:15	8/7/2023 2:30	15	0.93	115	0.6	3	Atlas		107.00	1
	8/7/2023 17:15	8/7/2023 17:30	15	0.34	1,175	0.28	1	Atlas		395.00	1
	8/12/2023 10:00	8/12/2023 10:15	15	0.63	5,507	0.55	1	Atlas		3447.00	1
	8/25/2023 20:00	8/25/2023 20:15	15	1.31	433	0.68	3	Atlas		568.00	1
	9/28/2023 0:15	9/28/2023 0:30	15	0.54	11	0.29	6	Atlas		6.00	1
	12/9/2023 16:00	12/9/2023 16:30	30	0.98	14,045	0.55	3	Atlas		13792.00	1
	3/14/2024 23:15	3/14/2024 23:30	15	0.54	26,219	0.37	1	Atlas		14263.00	1
	4/2/2024 17:30	4/2/2024 17:45	15	1.09	19,745	0.5	12	Atlas		21443.00	1
	5/22/2024 19:15	5/22/2024 19:45	30	0.9	16,254	0.78	1	Atlas		14563.00	1
	5/23/2024 19:00	5/23/2024 19:15	15	0.3	522	0.21	1	Atlas		159.00	1
	6/4/2024 15:15	6/4/2024 15:30	15	0.42	2,650	0.33	1	Atlas		1103.00	1
	6/26/2024 17:00	6/26/2024 17:15	15	0.98	378	0.74	1	Atlas		369.00	1
CSO203 Total										104601.00	14
CSO205	7/2/2023 5:45	7/2/2023 6:30	45	0.39	97	0.2	3	Atlas	Retained by Sreads Branch.	37.00	1
	7/18/2023 0:45	7/18/2023 1:00	15	0.57	219	0.3	1	Atlas	Retained by Sreads Branch.	124.00	1
	7/18/2023 17:45	7/18/2023 18:45	60	0.57	256	0.3	1	Atlas	Retained by Sreads Branch.	146.00	1



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	7/24/2023 19:15	7/24/2023 19:30	15	0.22	9	0.19	1	Atlas	Retained by Sneads Branch.	2.00	1
	8/3/2023 6:15	8/3/2023 8:30	135	0.53	867	0.29	6	Atlas	Retained by Sneads Branch.	459.00	1
	8/7/2023 1:15	8/7/2023 1:30	15	0.58	34	0.38	3	Atlas	Retained by Sneads Branch.	20.00	1
	9/27/2023 1:00	9/27/2023 1:15	15	0.23	60	0.18	1	Atlas	Retained by Sneads Branch.	14.00	1
	12/9/2023 18:30	12/9/2023 18:45	15	0.99	15	0.57	1	Atlas	Retained by Sneads Branch.	15.00	1
CSO205 Total										817.00	8
CSO208	8/7/2023 3:45	8/7/2023 4:00	15	1.21	3,135	0.77	3	Atlas		3802.00	1
	8/25/2023 20:00	8/25/2023 20:45	45	1.6	2,891	0.92	3	Atlas		4617.00	1
	5/22/2024 19:00	5/22/2024 19:15	15	1.02	555	0.89	1	Atlas		565.00	1
CSO208 Total										8985.00	3
CSO210	7/1/2023 10:15	7/1/2023 18:45	510	0.67	5,014,689	0.57	1	Atlas		3379900.00	1
	7/2/2023 6:00	7/2/2023 22:15	975	0.54	6,487,112	0.21	24	Atlas		3,503,041	1
	7/8/2023 17:45	7/9/2023 5:15	690	2.41	1,928,400	20.45	1	Atlas		4651300.00	1
	7/18/2023 18:00	7/19/2023 1:45	465	0.53	164,487	0.34	1	Atlas		87178.00	1
	8/3/2023 7:45	8/3/2023 16:45	540	0.62	196,128	0.34	6	Atlas		122384.00	1
	8/7/2023 2:00	8/8/2023 5:15	1635	0.75	450,386	0.47	3	Atlas		337339.00	1
	8/12/2023 9:45	8/12/2023 17:30	465	0.31	244,332	0.27	1	Atlas		76476.00	1
	8/14/2023 7:45	8/14/2023 16:45	540	0.53	280,762	0.31	3	Atlas		149,085	1
	8/25/2023 20:00	8/26/2023 12:15	975	0.24	601,541	0.11	12	Atlas		143167.00	1
	9/28/2023 2:00	9/28/2023 17:30	930	0.52	398,982	0.28	6	Atlas		208667.00	1
	10/28/2023 17:45	10/29/2023 10:00	975	2.1	131,109	0.67	48	Atlas		274935.00	1
	10/30/2023 0:00	10/30/2023 16:00	960	2.1	170,638	0.67	48	Atlas		357828.00	1
	11/21/2023 1:15	11/21/2023 19:45	1110	0.75	326,709	0.4	3	Atlas		246,338	1
	12/9/2023 16:30	12/10/2023 2:45	615	0.71	255,063	0.33	3	Atlas		182115.00	1
	12/18/2023 23:15	12/18/2023 23:45	30	0.01	3,575	0	1	Atlas		18.00	1
	12/25/2023 13:15	12/25/2023 23:45	630	0.54	399,054	0.24	12	Atlas		213,494	1
	1/6/2024 7:15	1/6/2024 15:30	495	0.47	253,202	0.25	6	Atlas		118752.00	1
	1/9/2024 0:15	1/14/2024 0:15	7200	1.79	920,088	0.67	24	Atlas		1643277.00	1
	1/23/2024 12:00	1/29/2024 21:45	9225	1.62	1,585,182	0.45	24	Atlas		2567994.00	1
	2/10/2024 6:00	2/10/2024 14:00	480	0.41	238,503	0.27	3	Atlas		98025.00	1
	2/22/2024 16:15	2/23/2024 3:30	675	0.74	267,327	0.34	12	Atlas		198891.00	1
	2/27/2024 9:45	2/27/2024 11:00	75	0.19	32,981	0.15	1	Atlas		6167.00	1
	3/6/2024 2:00	3/7/2024 0:00	1320	0.65	518,000	0.25	24	Atlas		337218.00	1
	3/8/2024 16:00	3/9/2024 12:30	1230	1.09	437,742	0.46	12	Atlas		475388.00	1
	3/14/2024 22:45	3/15/2024 12:30	825	0.55	229,115	0.37	1	Atlas		125555.00	1

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	3/31/2024 4:15	3/31/2024 6:15	120	0.16	72,601	0.11	3	Atlas		11689.00	1
	4/2/2024 7:00	4/3/2024 5:45	1365	1.1	7,093,534	0.5	12	Atlas		7838355.00	1
	4/10/2024 15:45	4/12/2024 18:45	3060	1.4	9,856,183	0.46	24	Atlas		13828225.00	1
	4/17/2024 3:30	4/17/2024 15:00	690	0.53	452,066	0.3	6	Atlas		241,855	1
	4/19/2024 1:45	4/19/2024 19:30	1065	0.65	397,656	0.36	6	Atlas		258476.00	1
	4/29/2024 22:45	4/30/2024 8:15	570	0.72	253,306	0.45	3	Atlas		182634.00	1
	5/3/2024 6:00	5/4/2024 7:00	1500	0.64	356,009	0.3	6	Atlas		226778.00	1
	5/6/2024 3:00	5/7/2024 3:30	1470	0.79	378,303	0.42	1	Atlas		298103.00	1
	5/7/2024 19:30	5/7/2024 23:15	225	0.18	33,035	0.16	1	Atlas		5946.00	1
	5/8/2024 19:15	5/10/2024 1:00	1785	0.62	642,920	0.31	3	Atlas		398610.00	1
	5/17/2024 6:30	5/17/2024 17:15	645	0.47	441,739	0.3	1	Atlas		208501.00	1
	5/22/2024 19:00	5/24/2024 3:30	1950	0.74	7,303,677	0.64	1	Atlas		5375506.00	1
	5/26/2024 11:15	5/27/2024 15:15	1680	0.93	7,503,883	0.36	3	Atlas		6948596.00	1
	6/4/2024 17:00	6/4/2024 22:15	315	0.21	6,474,835	0.17	1	Atlas		1353240.00	1
	6/25/2024 20:45	6/25/2024 23:30	165	0.25	84,835	0.17	1	Atlas		21463.00	1
	6/26/2024 17:00	6/27/2024 10:00	1020	0.37	464,070	0.25	1	Atlas		172,634	1
CSO210 Total										56875143.00	41
CSO211	7/1/2023 11:00	7/1/2023 15:15	255	0.67	8,770,407	0.57	1	Atlas		5911255.00	1
	7/2/2023 7:00	7/2/2023 9:30	150	0.54	1,560,463	0.21	24	Atlas		842650.00	1
	7/8/2023 18:00	7/9/2023 0:30	390	2.41	9,510,921	20.45	1	Atlas		22940342.00	1
	7/18/2023 19:00	7/18/2023 22:30	210	0.53	3,253,286	0.34	1	Atlas		1724241.00	1
	8/3/2023 8:15	8/3/2023 12:00	225	0.62	5,477,770	0.34	6	Atlas		3418128.00	1
	8/7/2023 2:45	8/7/2023 9:00	375	0.75	19,094,169	0.47	3	Atlas		14301533.00	1
	8/7/2023 17:45	8/7/2023 21:15	210	0.3	7,044,627	0.26	1	Atlas		2134522.00	1
	8/12/2023 10:30	8/12/2023 14:30	240	0.31	15,993,271	0.27	1	Atlas		5005894.00	1
	8/14/2023 8:45	8/14/2023 11:45	180	0.53	2,625,774	0.31	3	Atlas		1394286.00	1
	8/25/2023 20:15	8/26/2023 7:00	645	0.24	69,230,687	0.11	12	Atlas		16476904.00	1
	9/28/2023 4:30	9/28/2023 7:45	195	0.52	4,033,335	0.28	6	Atlas		2109434.00	1
	10/29/2023 5:00	10/29/2023 5:45	45	2.1	32,191	0.67	48	Atlas		67505.00	1
	10/30/2023 0:30	10/30/2023 9:15	525	2.1	14,928,149	0.67	48	Atlas		31304328.00	1
	11/21/2023 1:45	11/21/2023 9:30	465	0.75	16,166,362	0.4	3	Atlas		12189437.00	1
	12/9/2023 16:15	12/9/2023 21:30	315	0.71	17,789,701	0.33	3	Atlas		12,701,846	1
	12/25/2023 14:45	12/25/2023 18:15	210	0.54	1,346,899	0.24	12	Atlas		720591.00	1
	1/6/2024 8:30	1/6/2024 10:30	120	0.47	2,592,566	0.25	6	Atlas		1215913.00	1
	1/9/2024 1:00	1/9/2024 22:00	1260	1.79	33,425,376	0.67	24	Atlas		59697721.00	1
	1/12/2024 9:15	1/13/2024 0:30	915	1.33	33,131,119	0.6	12	Atlas		44163781.00	1
	1/24/2024 7:45	1/25/2024 6:30	1365	1.62	13,683,119	0.45	24	Atlas		22166653.00	1
	1/25/2024 17:00	1/25/2024 23:30	390	1.62	3,608,746	0.45	24	Atlas		5846169.00	1



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	1/27/2024 18:30	1/28/2024 12:30	1080	0.92	28,984,600	0.35	24	Atlas		26549893.00	1
	2/10/2024 6:30	2/10/2024 10:30	240	0.41	9,897,083	0.27	3	Atlas		4067701.00	1
	2/22/2024 18:45	2/22/2024 23:00	255	0.74	7,192,529	0.34	12	Atlas		5351241.00	1
	3/6/2024 2:00	3/6/2024 13:00	660	0.65	29,412,752	0.25	24	Atlas		19147702.00	1
	3/8/2024 20:00	3/9/2024 3:45	465	1.09	9,615,124	0.46	12	Atlas		10442024.00	1
	3/14/2024 23:15	3/15/2024 5:00	345	0.55	30,348,034	0.37	1	Atlas		16630723.00	1
	4/2/2024 7:45	4/3/2024 1:15	1050	1.1	15,619,704	0.5	12	Atlas		17259773.00	1
	4/11/2024 1:45	4/11/2024 23:15	1290	1.4	18,134,885	0.46	24	Atlas		25443243.00	1
	4/17/2024 4:00	4/17/2024 10:00	360	0.53	14,059,004	0.3	6	Atlas		7521567.00	1
	4/19/2024 2:45	4/19/2024 7:00	255	0.65	8,417,378	0.36	6	Atlas		5471295.00	1
	4/29/2024 23:30	4/30/2024 2:45	195	0.72	6,826,782	0.45	3	Atlas		4922110.00	1
	5/3/2024 7:15	5/3/2024 10:30	195	0.64	1,516,163	0.3	6	Atlas		965,796	1
	5/6/2024 4:15	5/6/2024 19:45	930	0.79	9,764,346	0.42	1	Atlas		7694304.00	1
	5/8/2024 20:00	5/9/2024 5:15	555	0.62	3,610,370	0.31	3	Atlas		2238429.00	1
	5/22/2024 19:30	5/22/2024 23:15	225	0.74	28,891,944	0.64	1	Atlas		21264471.00	1
	5/23/2024 20:45	5/23/2024 22:15	90	0.23	872,829	0.16	1	Atlas		199878.00	1
	5/26/2024 13:15	5/26/2024 14:00	45	0.93	79,679	0.36	3	Atlas		73783.00	1
	5/26/2024 23:15	5/27/2024 2:15	180	0.93	14,828,667	0.36	3	Atlas		13731345.00	1
	6/4/2024 16:15	6/4/2024 18:15	120	0.21	25,664,007	0.17	1	Atlas		5363777.00	1
	6/26/2024 17:15	6/26/2024 22:15	300	0.37	46,892,881	0.25	1	Atlas		17444152.00	1
CSO211 Total										478,116,340	41



APPENDIX B

ANNUAL AVERAGE OVERFLOW VOLUME

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CSO	IOAP APPROVED LEVEL OF CONTROL	MODELED TYPICAL YEAR ACTIVATIONS FOR POST-IOAP CONDITIONS ¹			MODELED TYPICAL YEAR ACTIVATIONS FOR CURRENT CONDITIONS ²			MODELED TYPICAL YEAR ACTIVATIONS FOR PRE-IOAP CONDITIONS ³		
		VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED
015	8	124.6	1095	18.25	384.4	4890	81.5	2779.9	68560	1143
016	8	0.4	285	4.75	34.4	11505	191.75	39.0	5625	93.75
018	0	0.0	0	0	1.1	185	2.75	158.1	30045	500.75
019	8	13.6	435	7.25	5.7	525	8.75	192.7	15990	266.5
020	8	1.0	435	7.25	183.2	16860	281	355.3	26115	435.25
022	8	1.8	315	5.25	1.8	435	7.25	4.5	945	15.75
023	8	0.0	0	0	0.0	0	0	1.8	525	8.75
027	N/A5	0.0	0	0	0.0	0	0	0.0	0	0
028	8	0.0	0	0	0.0	0	0	1.1	2520	42
029	8	0.0	105	1.75	0.1	180	3	4.6	6315	105.25
031	N/A5	0.0	0	0	0.0	0	0	0.0	0	0
034	8	0.1	180	3	0.1	300	5	3.0	7680	128
035	N/A5	0.0	0	0	0.0	45	0.75	0.0	0	0
036	8	0.1	165	2.75	0.1	255	4.25	0.2	480	8
038	N/A5	0.1	195	3.25	0.1	375	6.25	0.1	390	6.5
050	8	0.0	0	0	0.0	0	0	19.6	7230	120.5
051	8	0.0	0	0	4.6	3780	63	0.3	1020	17
052	N/A6	CSO Reporting Merged with CSO051			CSO Reporting Merged with CSO051			2.5	2700	45
053	8	0.0	0	0	0.0	120	2	7.7	11100	185
054	8	0.2	465	7.75	0.2	240	4	1.8	8865	147.75
055	8	1.3	510	8.5	0.8	225	3.75	4.9	2535	42.25
056	8	0.0	0	0	0.1	45	0.75	4.3	2550	42.5
057	N/A5	0.0	0	0	0.0	0	0	0.0	0	0
058	8	0.0	0	0	0.0	0	0	51.4	21510	358.5
062	8	0.8	255	4.25	15.4	2325	38.75	100.4	18525	308.75
082	0	0.0	0	0	1.3	765	12.75	19.2	11925	198.75
083	N/A6	CSO Reporting Merged with CSO119			CSO Reporting Merged with CSO119			0.5	345	5.75
084	0	0.0	0	0	1.6	585	9.75	19.2	5205	86.75
086	N/A5	0.0	0	0	0.0	0	0	0.0	0	0
088	4	0.0	45	0.75	0.0	90	1.5	10.7	8685	144.75
091	8	0.0	0	0	0.0	0	0	2.7	9675	161.25
092	N/A5	0.0	0	0	0.0	0	0	1.3	30	0.5
093	0	0.0	0	0	0.0	0	0	0.0	60	1



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		VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED
097	8	0.3	285	4.75	0.4	360	6	17.7	12390	206.5
104	N/A6	CSO Reporting Merged with CSO105			CSO Reporting Merged with CSO105					
105	8	29.0	585	9.75	88.5	1380	23	9.5	2955	49.25
106	N/A4	N/A - CSO Eliminated			N/A - CSO Eliminated					
108	8	1.6	210	3.5	2.4	315	5.25	51.9	7410	123.5
109	N/A5	2.3	705	11.75	1.8	1005	16.75	1.2	1695	28.25
110	8	0.3	240	4	0.4	300	5	20.0	9735	162.25
111	8	0.7	315	5.25	0.8	360	6	5.0	3675	61.25
113	8	0.0	0	0	0.0	0	0	6.2	2475	41.25
117	8	35.4	2415	40.25	45.9	3180	53	86.4	13320	222
118	0	0.0	0	0	12.3	1395	23.25	117.5	10350	172.5
119	0	0.9	1185	19.75	1.6	1035	17.25	10.3	7630	130.5
120	0	0.0	0	0	0.6	675	11.25	7.5	6825	113.75
121	0	0.0	0	0	0.4	210	3.5	5.5	1890	31.5
125	4	0.0	0	0	1.8	315	5.25	24.4	5295	88.25
126	4	0.0	0	0	0.0	105	1.75	3.4	3225	53.75
127	N/A4	N/A - CSO Eliminated			N/A - CSO Eliminated					
130	8	0.0	0	0	0.0	0	0	2.2	0	0
131	4	0.1	75	1.25	0.1	120	2	1.7	135	2.25
132	4	0.0	0	0	0.0	0	0	83.3	0	0
137	N/A4	N/A - CSO Eliminated			N/A - CSO Eliminated					
140	0	0.0	0	0	0.0	0	0	2.6	3030	50.5
141	0	0.0	0	0	0.0	0	0	0.7	10215	170.25
142	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184					
144	N/A5	0.6	345	5.75	0.5	495	8.25	0.8	225	3.75
146	8	0.7	315	5.25	1.1	390	6.5	37.6	5910	98.5
148	8	0.0	0	0	0.0	0	0	0.7	1650	27.5
149	8	22.4	1920	32	24.8	2550	42.5	136.5	7590	126.5
150	N/A6	CSO Reporting Merged with CSO063			CSO Reporting Merged with CSO063					
151	8	0.0	90	1.5	0.1	165	2.75	97.7	1575	26.25
152	8	6.0	720	12	7.6	885	14.75	58.9	35145	585.75
153	0	0.0	0	0	2.7	2250	37.5	18.7	11715	195.25
154	4	0.0	0	0	0.0	0	0	23.0	15345	255.75
155	8	0.0	0	0	0.0	0	0	0.6	15480	258

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		VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED
160	0	0.0	0	0	0.0	0	0	0.0	465	7.75
161	N/A5	0.0	0	0	0.0	0	0	0.0	0	0
166	4	0.0	0	0	0.0	0	0	52.5	5595	93.25
167	N/A6	CSO Reporting Merged with CSO132			CSO Reporting Merged with CSO132			0.5	1690	31.5
172	N/A4	N/A - CSO Eliminated			N/A - CSO Eliminated			0.8	2265	37.75
174	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			14.1	6660	111
178	8	0.1	75	1.25	0.2	105	1.75	20.0	11250	187.5
179	N/A6	CSO Reporting Merged with CSO149			CSO Reporting Merged with CSO149			0.0	0	0
180	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			0.0	165	2.75
181	8	0.0	0	0	0.0	0	0	3.8	8835	147.25
182	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			31.0	5700	95
183	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			0.0	0	0
184	N/A6	5.3	645.0	10.75	5.3	645.0	10.75	0.3	840	14
185	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			1.6	1755	29.25
186	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			0.0	0	0
187	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			0.0	0	0
188	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			0.0	0	0
189	8	24.5	555	9.25	53.6	1500	25	240.0	11505	191.75
190	8	1.0	210	3.5	0.3	345	5.75	29.9	7380	123
191	N/A6	CSO Reporting Merged with CSO015			CSO Reporting Merged with CSO015			4.3	1095	18.25
193	8	0.1	180	3	0.1	300	5	0.1	315	5.25
195	8	0.0	0	0	0.0	135	2.25	2.8	10545	175.75
196	8	0.0	0	0	0.0	240	4	0.0	485	8.25
197	8	0.0	165	2.75	0.1	270	4.5	2.8	8385	139.75
198	N/A5	0.0	150	2.5	0.1	255	4.25	0.1	510	8.5
199	8	0.0	150	2.5	0.0	255	4.25	0.7	7605	126.75
200	8	0.0	0	0	0.0	0	0	2.2	12120	202
201	N/A5	0.4	240	4	0.4	465	7.75	0.7	1245	20.75
202	8	0.0	150	2.5	0.0	285	4.75	0.1	1695	28.25
203	N/A5	0.0	0	0	0.0	240	4	0.0	0	0
205	N/A6	CSO Reporting Merged with CSO184			CSO Reporting Merged with CSO184			0.0	150	2.5
206	N/A4	N/A - CSO Eliminated			N/A - CSO Eliminated			29.0	14805	246.75
207	N/A5	0.0	0	0	0.0	0	0	0.0	0	0
208	N/A5	0.2	375	6.25	0.3	660	11	0.7	4690	81.5



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CSO	IOAP APPROVED LEVEL OF CONTROL	MODELED TYPICAL YEAR ACTIVATIONS FOR POST-IOAP CONDITIONS ¹			MODELED TYPICAL YEAR ACTIVATIONS FOR CURRENT CONDITIONS ²			MODELED TYPICAL YEAR ACTIVATIONS FOR PRE-IOAP CONDITIONS ³		
		VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED
210	8	1.7	375	6.25	12.9	9330	155.5	19.4	5635	97.25
211	8	34.4	690	11.5	752.6	14100	235	1090.4	18585	309.75

¹Post-IOAP Condition results are based on model simulations of the 2001 Typical Year with the "baseline" projects implemented (Sanitary Sewer Discharge Plan and other existing Combined Sewer System facility improvements) and the most recently completed Long Term Control Plan project model. This model reflects the updated projects included in the 2021 IOAP modification. Modeling results assume MFWQTC operating at full capacity. The data reflects the construction of the current approved suite of IOAP projects, with some minor modifications to the results based on projected optimization and projected revision of the RTC. Additional revisions to RTC and programming is anticipated as projects are completed and RTC is optimized. Modeling results demonstrate that the system, as currently designed and when operating at full capacity, will perform better than the approved plan. However, this data is provided for information only. The modeling results do not reflect a specific commitment to a set number of activations, cumulative volume or total minutes of overflow at each CSO, nor do they represent a cumulative commitment to residual AAOV. There are no target commitments for number of activations at each individual CSO. The target commitment for the system is based on an 85% capture, resulting in a total residual AAOV of 2,955 MG.

²Current Condition results are based on model simulations of the 2001 Typical Year with current upstream SDDP conditions and the current average available treatment plant capacity at MFWWTC. The model reflects projects certified through June 30, 2023. Partial construction of projects was not included.

³Pre-IOAP results are based on model simulations of the 2001 Typical Year with no baseline projects or IOAP projects constructed. Model results reflect calibration modifications to the model that occurred after the onset of the IOAP.

⁴These CSOs have been eliminated via implementation of Long Term Control Plan projects.

⁵These CSOs were originally modeled or had baseline modeling conditions causing them to activate less than or equal to 8 times per Typical Year and thus do not have an associated project in the approved IOAP. Some were revised later with updated model geometry and were mitigated with CMOM activities.

⁶These CSOs were mitigated in conjunction with other CSOs with a control structure (weir or gate) downstream of the original CSO. The new CSO location consolidates the overflow point, and overflows will be reported from a single location.



APPENDIX C

UNAUTHORIZED DISCHARGES - WET WEATHER SSOs

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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	1726 FRASER DR	7/18/2023 19:30	7/18/2023 20:00	50	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3680509	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	8/25/2023 21:45	8/25/2023 23:00	171	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3695961	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	8/25/2023 22:45	8/25/2023 23:30	129	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3695962	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	10/30/2023 2:45	10/30/2023 4:45	135	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3714977	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	12/9/2023 17:45	12/10/2023 1:40	1	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3729895	WO#3729897.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	1/9/2024 2:30	1/9/2024 23:15	410	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739644	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/9/2024 3:30	1/10/2024 3:10	142,000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739647	WO#3739894.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/9/2024 5:15	1/10/2024 2:15	1,200,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739646	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.



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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	1/9/2024 6:00	1/10/2024 3:25	63,500	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739660	WO#3739914.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	1/9/2024 6:00	1/10/2024 3:20	63,500	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739649	WO#3739913.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/9/2024 6:00	1/10/2024 3:15	31,750	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739648	WO#3739912.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	8800 ADMIRAL DR	1/9/2024 8:25	1/9/2024 8:30	100	Sewer Manhole	93703	GROUND	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3739622	CLEANED AND SANITIZED THE IMPACTED AREA.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	1/9/2024 9:15	1/9/2024 18:50	13,500	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739651	MAGNITUDE OF STORM RESULTED IN NO DEBRIS REMAINING.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	529 COUNTRY LN	1/9/2024 9:15	1/9/2024 13:19	1	Sewer Main	22893	GROUND	MUDDY FORK BEARGRASS CREEK	ROOTS IN MAIN SEWER.	ROOTS	3739700	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	ROOT CUT MAIN SEWER AND CLEARED ROOT BLOCKAGE.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	1/9/2024 9:20	1/9/2024 19:00	81,000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739652	MAGNITUDE OF STORM RESULTED IN NO DEBRIS REMAINING.	LOCATION INCLUDED IN IOAP.
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	1/9/2024 11:05	1/9/2024 21:10	6,100	Sewer Manhole	108856	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3739634	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	1/9/2024 11:15	1/10/2024 19:45	100,000	Sewer Manhole	08835-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739668	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.

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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
DEREK R. GUTHRIE	KY0078986	8800 ADMIRAL DR	1/9/2024 11:30	1/9/2024 13:25	2,250	Sewer Manhole	93704	DITCH	CEDAR CREEK	ELECTRICAL PROBLEM WITH MSD EQUIPMENT/ ASSET (BREAKER TRIPPED).	ELECTRICAL PROBLEMS AT MSD	3739680	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL.	RESET BREAKER RESTORE POWER.
DEREK R. GUTHRIE	KY0078986	8800 ADMIRAL DR	1/9/2024 11:53	1/9/2024 8:30	100	Sewer Manhole	93705	STREAM	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3739656	DISCLN WORK ORDER# 3739660	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	1/9/2024 12:55	1/9/2024 19:52	42,000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3739709	MAGNITUDE OF STORM RESULTED IN NO DEBRIS REMAINING.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	1/12/2024 10:30	1/13/2024 3:30	800	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740295	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/12/2024 13:00	1/13/2024 3:00	837,500	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740292	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	1/12/2024 13:05	1/12/2024 18:58	26,475	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740280	WO#3740409.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	1/12/2024 13:07	1/12/2024 19:00	8,875	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740287	WO#3740410.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	1/12/2024 13:09	1/12/2024 19:10	45,125	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740288	WO#3740411.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1012 ALTA CIR	1/12/2024 13:30	1/12/2024 19:14	25,800	Sewer Manhole	40559	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740289	WO#3740412.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/12/2024 13:34	1/13/2024 7:14	132,500	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740277	WO#3740402.	LOCATION INCLUDED IN IOAP.



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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/12/2024 13:36	1/13/2024 7:16	53,000	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740278	WO#3740403.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3408 CHARLANE PKY	1/12/2024 14:15	1/13/2024 7:18	76,875	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740279	WO#3740404.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	1/12/2024 14:16	1/13/2024 7:19	51,250	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740283	WO#3740405.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	1/12/2024 14:17	1/13/2024 7:20	25,625	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740284	WO#3740406.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	1/12/2024 14:18	1/13/2024 7:21	51,250	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740285	WO#3740407.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	1/12/2024 14:19	1/12/2024 22:11	13,400	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740286	WO#3740408.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	1/12/2024 14:45	1/12/2024 21:30	274,500	Sewer Manhole	08835-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3740291	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	1/24/2024 8:00	1/29/2024 14:00	35,000	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	ROOTS IN MAIN SEWER.	ROOTS	3746661	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	ROOT CUT WO#3751458.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/24/2024 9:00	1/26/2024 5:45	573,800	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746664	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/24/2024 10:54	1/26/2024 4:45	147,150	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746693	WO#3747791.	LOCATION INCLUDED IN IOAP.

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MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/24/2024 10:57	1/26/2024 5:25	250,050	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746684	WO#3747792.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	1/24/2024 11:00	1/26/2024 4:55	25,050	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746685	WO#3747793.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	1/24/2024 11:03	1/26/2024 5:05	25,050	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746687	WO#3747795.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	1/24/2024 11:04	1/26/2024 5:25	25,050	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746686	WO#3747794.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	1/24/2024 11:08	1/26/2024 5:06	25,050	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746688	WO#3747796.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	1/24/2024 11:15	1/26/2024 0:30	29,600	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746773	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	1/24/2024 12:30	1/25/2024 8:45	120,000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746704	WO#3747798.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	1/24/2024 12:40	1/25/2024 8:45	120,000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746705	WO#3747799.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXWOOD LN	1/24/2024 15:02	1/26/2024 5:45	24,538	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3746772	WO#3747800.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	1/25/2024 20:30	1/26/2024 4:45	12,375	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3747568	WO#3747797.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/27/2024 22:00	1/28/2024 0:15	10,125	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748384	WO#3747791.	LOCATION INCLUDED IN IOAP.



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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	1/27/2024 22:11	1/28/2024 0:16	625	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748386	WO#3747793.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/27/2024 22:12	1/28/2024 0:17	625	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748385	WO#3747792.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	1/28/2024 1:30	1/29/2024 0:30	1,300,000	Sewer Manhole	08835-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748390	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/28/2024 6:30	1/29/2024 2:45	1,500,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748391	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	1/28/2024 10:50	1/28/2024 17:38	10,200	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748410	WO#3747798.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BULLITT LN	1/28/2024 11:47	1/28/2024 17:59	9,300	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748411	WO#3748435.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXWOOD LN	1/28/2024 11:50	1/28/2024 18:00	18,500	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748412	WO#3747800.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/28/2024 14:30	1/28/2024 20:30	27,000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748433	WO#3747791.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/28/2024 14:32	1/28/2024 20:31	1,795	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3748434	WO#3747792.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	3/6/2024 7:30	3/6/2024 19:30	10,800	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3767608	WO#3767684.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	3/6/2024 7:35	3/6/2024 19:30	34,000	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3767610	WO#3767685.	LOCATION INCLUDED IN IOAP.

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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	3/6/2024 7:40	3/6/2024 14:30	102,500	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3767611	WO#3767686.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	3/6/2024 7:45	3/6/2024 14:33	102,500	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3767613	WO#3767687.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	3/6/2024 7:55	3/6/2024 14:33	102,500	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3767616	WO#3767688.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	3/6/2024 7:55	3/6/2024 14:35	41,000	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3767660	WO#3767691.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	3/6/2024 8:00	3/6/2024 14:35	20,500	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3767617	WO#3767692	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	4/11/2024 7:00	4/12/2024 3:00	30,000	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3781963	WO#3785469.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	4/11/2024 7:00	4/12/2024 3:00	180,000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3780695	WO#3785466.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	4/11/2024 7:00	4/12/2024 3:00	30,000	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3782283	WO#3785470.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	4/11/2024 7:00	4/12/2024 3:00	60,000	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3780697	WO#3785468.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.



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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	4/11/2024 7:00	4/12/2024 3:00	30,000	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3782287	WO#3785472.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	4/11/2024 7:00	4/12/2024 3:00	180,000	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3782286	WO#3785471.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	4/11/2024 7:00	4/12/2024 3:00	60,000	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3780686	WO#3785467.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	4/11/2024 8:45	4/12/2024 12:45	1,500,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3783481	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	4/11/2024 9:00	4/11/2024 21:45	4,500	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3783823	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	4/11/2024 9:00	4/12/2024 0:15	700,000	Sewer Manhole	08835-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3783824	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	4/11/2024 9:45	4/11/2024 13:30	6,000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3785143	WO#3785464.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	4/11/2024 9:50	4/11/2024 13:55	48,000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3785145	WO#3785465.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN

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MORRIS FORMAN	KY0022411	4332 PRUITT CT	4/11/2024 10:45	4/11/2024 13:30	4,125	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3785989	WO#3785475.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	4341 PRUITT CT	4/11/2024 10:45	4/11/2024 13:30	2,475	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3783962	WO#3785474.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	4/11/2024 10:55	4/12/2024 5:50	228,000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3785308	WO#3785463.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	4/11/2024 11:20	4/12/2024 10:41	25,000	Sewer Lift Station	MSD1013-PS	DITCH	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3785379	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	NO REPAIRS REQUIRED.
HITE CREEK	KY0022420	7260 FLOYDSBURG RD	4/11/2024 11:30	4/12/2024 10:45	500	Sewer Lift Station	MSD1086-PS	DITCH	FLOYDS FORK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3785384	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	7913 SHELBYVILLE RD	4/11/2024 11:35	4/11/2024 18:42	14,000	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3785307	WO#3785452.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	5/6/2024 15:30	5/6/2024 23:30	311,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3785439	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.



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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	5/6/2024 17:45	5/6/2024 19:00	1,000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3795437	WO#3794586	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	5/6/2024 18:50	5/7/2024 4:13	563	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3795436	WO#3795485	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	3317 BROWNSBORO RD	5/22/2024 20:15	5/22/2024 21:15	900	Sewer Manhole	26752	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3798288	MAGNITUDE OF STORM RESULTED IN NO DEBRIS REMAINING.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	5/22/2024 22:00	5/23/2024 2:00	800,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3798285	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
DEREK R. GUTHRIE	KY0078956	4005 KIRBY LN	5/27/2024 0:40	5/27/2024 0:48	200	Sewer Lift Station	MSD1203-PS	STREAM	FERN CREEK	POWER OUTAGE (LG&E).	POWER OUTAGE (L&E)	3798630	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.	GENERATOR UTILIZED UNTIL POWER RESTORED.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	5/27/2024 2:15	5/27/2024 6:00	90,000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3798654	WO#3798656.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	5/27/2024 2:15	5/27/2024 6:00	90,000	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3798655	WO#3798657.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.

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WGTC NAME	WGTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
DEREK R. GUTHRIE	KY0078956	4514 COD DR	6/1/2024 12:00	6/1/2024 17:00	3,000	Sewer Service Line	173008	GROUND	POND CREEK	OBSTRUCTION IN MAIN SEWER.	OBSTRUCTION- NOT GREASE / ROOTS	3798422	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	REFERRED TO ENGINEERING DEPARTMENT.
DEREK R. GUTHRIE	KY0078956	4510 COD DR	6/1/2024 12:00	6/1/2024 17:00	3,000	Sewer Main	62018	STREAM	POND CREEK	STRUCTURAL FAILURE OF MAIN SEWER.	STRUCTURAL FAILURE	3798623	UNABLE TO CLEAN DUE TO HEAVILY WOODED TREE AREA AND TREE DEBRIS.	TURNUED OVER TO THE ENGINEERING DEPARTMENT FOR REPAIRS.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	6/26/2024 18:30	6/27/2024 2:30	1,400,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3813901	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAPA SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	6/26/2024 19:30	6/27/2024 1:00	200,000	Sewer Manhole	08835-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3813902	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAPA SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	6/26/2024 20:40	6/27/2024 7:35	825,000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3813903	RESET SHIFTED MANHOLE LID . NO VISIBLE SIGNS OF DEBRIS ON OR AROUND MANHOLD.	LOCATION INCLUDED IN IOAPA SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.



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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	6/26/2024 20:40	6/27/2024 7:35	82,500	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3813904	RESET SHIFTED MANHOLE LID. NO VISIBLE SIGNS OF DEBRIS ON OR AROUND MANHOLD.	LOCATION INCLUDED IN IOAPA SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	6/26/2024 20:55	6/27/2024 7:55	198,000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3813905	RESET SHIFTED MANHOLE LID. NO VISIBLE SIGNS OF DEBRIS ON OR AROUND MANHOLD.	LOCATION INCLUDED IN IOAPA SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	201 BULLITT LN	6/26/2024 21:35	6/27/2024 8:30	49,500	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3813906	WO#3813985.	LOCATION INCLUDED IN IOAPA SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	6/26/2024 21:35	6/27/2024 8:50	198,000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3813907	WO#3813986.	LOCATION INCLUDED IN IOAPA SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.



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UNAUTHORIZED DISCHARGES - DRY WEATHER CSOs

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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	1001 E BROADWAY	10/2/2023 10:31	10/2/2023 14:30	1,200	Sewer Manhole	CSO119	GROUND	SOUTH FORK BEARGRASS CREEK	CAUSE OF DISCHARGE IS IN MAIN SEWER. OBSTRUCTION IN MAIN SEWER.	OBSTRUCTION- NOT GREASE / ROOTS	3705065	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO IMPROVED CHANNEL OF BEARGRASS CREEK.	FLUSHED/ VACTORED THE OBSTRUCTION / DEBRIS FROM THE SEWER (CSO CREWS).
MORRIS FORMAN	KY0022411	816 N 34TH ST	10/19/2023 14:12	10/19/2023 14:15	10,000	Sewer Manhole	CSO019	DITCH	OHIO RIVER	PUMPS WERE TURNED OFF.	MECHANICAL FAILURE	3713422	NO CLEANUP ACTIVITY POSSIBLE. PIPE DISCHARGE SUBMERGED.	PUMPS TURNED ON.

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UNAUTHORIZED DISCHARGES - DRY WEATHER SSOs

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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	2409 PLANTSIDE DR	10/4/2023 13:38	10/4/2023 13:55	1	Sewer Main	29341A	GROUND	CHENOWETH RUN	UTILITY DAMAGED MSD ASSET. UDAMAGE WORK ORDER 3705594.	UTILITY DAMAGED MSD ASSET	3705438	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	CONTRACTOR REPAIRED THE MAIN SEWER; MSR WORK ORDER 3705443.
MORRIS FORMAN	KY0022411	3011 DERINGTON CT	10/24/2023 22:55	10/24/2023 7:40	1	Sewer Main	MSD00095-PS	GROUND	GOOSE CREEK	STRUCTURAL FAILURE (FORCE MAIN BREAK).	STRUCTURAL FAILURE	3706151	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA.	CONTRACTOR REPAIRED THE FORCE MAIN; SREPR WORK ORDER 3706213. CONTRACTOR HAULED SEWAGE; HAULOOP WORK ORDER 3706208.
DEREK R. GUTHRIE	KY0078956	9307 CANE RUN RD	10/24/2023 13:40	10/24/2023 15:30	550	Sewer Manhole	107837	GROUND	MILL CREEK	GREASE IN MAIN SEWER/ OBSTRUCTION IN MAIN SEWER.	OBSTRUCTION- NOT GREASE / ROOTS	3714202	REFERRED TO THE AREA SUPERVISOR TO CLEAN IMPACTED AREA.	FLUSHED THE MAIN SEWER TO REMOVE OBSTRUCTION.
MORRIS FORMAN	KY0022411	125 RIVER RD	11/9/2023 13:00	7/17/2024 9:09	9,999	Sewer Node	015-DO	STREAM	OHIO RIVER	DIRECTLY CONNECTED COMBINATION STORM AND SANITARY LINE AT 546 S FIRST STREET.	STRUCTURAL FAILURE	3719138	NONE POSSIBLE DUE TO THE LOCATION OF THE OUTFALL.	MSD EMERGENCY PROJECT TO CORRECT CONNECTIONS.
DEREK R. GUTHRIE	KY0078956	8800 ADMIRAL DR	12/6/2023 14:00	12/7/2023 10:32	500	Sewer Manhole	117174	GROUND	PENNSYLVANIA RUN	ELECTRICAL PROBLEM WITH MSD EQUIPMENT/ ASSET BREAKER TRIPPED.	ELECTRICAL PROBLEMS AT MSD	3729216	CLEANED AND SANITIZED THE IMPACTED AREA.	RESET BREAKERS , NO ISSUE FOUND WO:3729209.
DEREK R. GUTHRIE	KY0078956	8800 ADMIRAL DR	1/5/2024 15:00	1/5/2024 15:35	17,500	Sewer Main	93703-T	GROUND	PENNSYLVANIA RUN	STRUCTURAL FAILURE (FORCEMAIN BREAK).	STRUCTURAL FAILURE	3737314	NONE AT THIS TIME.	CONTACTED CONTRACTOR FOR REPAIR.
DEREK R. GUTHRIE	KY0078956	8800 ADMIRAL DR	1/5/2024 16:15	1/5/2024 23:03	65,700	Sewer Manhole	93703	GROUND	PENNSYLVANIA RUN	STRUCTURAL FAILURE FOREMAIN BREAK ON 20" LINE FROM STATION WO#3737314.	STRUCTURAL FAILURE	3737317	AREA DISINFECTED WITH LIME.	CONTACTED CONTRACTOR.



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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE	DUE TO	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
DEREK R. GUTHRIE	KY0078956	5216 ST GABRIEL LN	1/6/2024 11:30	1/6/2024 12:16	750	Sewer Manhole	22273	CATCH BASIN	FERN CREEK	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION- NOT GREASE / ROOTS	3737394	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA	MSD PERSONNEL ROOT CUT MAIN SEWER AND LINE IS CLEAR
MORRIS FORMAN	KY0022411	702 WICKLOW RD	1/13/2024 11:45	1/13/2024 12:06	1	Sewer Service Line	151490	GROUND	MUDDY FORK BEARGRASS CREEK	ROOTS IN THE MAIN SEWER	ROOTS	3740326	MSD PERSONNEL CLEANED IMPACTED AREA	ROOT CUT MAIN SEWER AND IT IS FLOWING FINE.
FLOYDS FORK	KY0102784	1707 S ENGLISH STATION RD	2/7/2024 12:00	2/8/2024 6:06	25	Sewer Main	112308E-V	GROUND	FLOYDS FORK	STRUCTURAL FAILURE (FORCE MAIN BREAK)	STRUCTURAL FAILURE	3752983	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA	MSD CONTRACTOR REPAIRED THE MAIN SEWER.
CEDAR CREEK	KY0098540	6902 BARDSTOWN RD	2/11/2024 16:45	2/11/2024 19:57	100	Sewer Manhole	85505	STREAM	CEDAR CREEK	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION- NOT GREASE / ROOTS	3753576	NO CLEAN UP PERFORMED.	ROOT CUT MAIN SEWER AND RESOTRED FLOW.
DEREK R. GUTHRIE	KY0078956	5901 PAGEANT WAY	2/17/2024 16:40	2/17/2024 17:05	625	Sewer Manhole	47478	DITCH	BIG RUN	GREASE IN MAIN SEWER	GREASE BLOCKAGE	3756643	MSD PERSONNEL WILL CLEAN IMPACTED AREA	FLUSHED THE MAIN SEWER TO REMOVE OBSTRUCTION.
HITE CREEK	KY0022420	6120 CHAMBERLAIN LN	3/7/2024 8:24	3/7/2024 13:30	1,000	Sewer Lift Station	MSD1109-PS	GROUND	WOLF PEN BRANCH	MECHANICAL FAILURE, TILT BULB ON BIOMAT.	MECHANICAL FAILURE	3767745	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA	MSD CONTRACTOR VACTORING BIOMAT FROM WELL.
MORRIS FORMAN	KY0022411	3602 TRAIL RIDGE RD	3/21/2024 15:39	3/21/2024 17:40	500	Sewer Lift Station	MSD0125-PS	STREAM	LITTLE GOOSE CREEK	ELECTRICAL PROBLEM WITH MSD EQUIPMENT, PUMP CONTROLLER FAULTED.	MECHANICAL FAILURE	3776524	AREA DISINFECTED WITH LIME.	REPAIRED THE PUMP CONTROLLER.
HITE CREEK	KY0022420	6120 CHAMBERLAIN LN	3/24/2024 21:35	3/25/2024 7:12	1,000	Sewer Lift Station	MSD1109-PS	GROUND	WOLF PEN BRANCH	ELECTRICAL PROBLEM WITH MSD EQUIPMENT, PHASE MONITOR FAULT/ SCADA ISSUES.	MECHANICAL FAILURE	3776584	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA	RESET PHASE MONITOR AND SOFT STARTERS.

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HITE CREEK	KY0022420	11202 KENDALTON PL	4/7/2024 16:30	4/7/2024 17:00	10	Sewer Service Line	162903460000A	GROUND	HITE CREEK	CAUSE OF DISCHARGE IS IN MAIN SEWER. OBSTRUCTION IN MAIN SEWER	OBSTRUCTION- NOT GREASE / ROOTS	3780001	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA. DISCLN WO3780004	FLUSHED/ VACTORED THE OBSTRUCTION /DEBRIS FROM THE SEWER. FLUSH WO3780002. REFERRED TO CREW FOR TV INSPECTION
DEREK R. GUTHRIE	KY0078856	6500 MOUNT WASHINGTON RD	4/29/2024 7:55	4/29/2024 10:45	5,000	Sewer Lift Station	MSD1147-PS	DITCH	PENNSYLVANIA RUN	STRUCTURAL FAILURE - FORCEMAIN BREAK.	MECHANICAL FAILURE	3794200	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA.	HAULED SEWAGE UNTIL POWER COULD BE RESTORED AND/ OR REPAIRS MADE.
HITE CREEK	KY0022420	7699 HAPPY HOLLOW RD	5/21/2024 22:10	5/21/2024 22:45	1,200	Sewer Manhole	66708	GROUND	HARRODS CREEK	FURTHER INVESTIGATION REQUIRED. INSPECTION WO# 3797878	OBSTRUCTION- NOT GREASE / ROOTS	3797808	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA. DISCLN WO3797911	FLUSHED THE OBSTRUCTION/ DEBRIS FROM THE SEWER. FLUSH WO3797808. REFERRED TO CREW FOR TV INSPECTION
FLOYDS FORK	KY0102784	609 WOODLAKE DR	5/30/2024 14:05	5/30/2024 15:06	5,500	Sewer Lift Station	MSD1171-PS	GROUND	FLOYDS FORK	STRUCTURAL FAILURE. FORCE MAIN BREAK	STRUCTURAL FAILURE	3798191	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA. WO	FORCE MAIN ISOLATED UNTIL REPAIRS MADE

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APPENDIX F

BYPASSES AT WATER QUALITY TREATMENT CENTERS

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MORRIS FORMAN	KY0022411	4522 ALGONQUIN PKY	8/26/2023 2:30	8/26/2023 9:44	80,000,000	MSD0278	STREAM	OHIO RIVER	POWER FAILURE TO BELLS LANE HIGH RATE TREATMENT FACILITY.	WET WEATHER	3695948	NO DEBRIS, CLEANUP NOT NECESSARY.	WATED UNTIL POWER IS RESTORED NA.	UNAUTHORIZED DISCHARGE-WATERS
MORRIS FORMAN	KY0022411	4522 ALGONQUIN PKY	12/25/2023 2:55	12/25/2023 14:55	30,300,000	MSD0278	STREAM	OHIO RIVER	POWER FAILURE.	WET WEATHER	3736251	N/A.	POWER RESTORED AND PUMPS FUNCTIONAL.	UNAUTHORIZED DISCHARGE-WATERS
CEDAR CREEK	KY0098540	8405 CEDAR CREEK RD	1/31/2024 18:10	1/31/2024 18:10	2,000	MSD0289	GROUND	CEDAR CREEK	PARTIAL BLOCKAGE IN PLANT DRAIN LINE. DRAINING CLARIFIER INTO DRAIN LINE.	DRY WEATHER	3751747	LIME PLACED ON PATH OF SLUDGE FLOW.	EIC FLUSHED AND VACTORED DRAIN LINE.	UNAUTHORIZED DISCHARGE-WATERS
MORRIS FORMAN	KY0022411	4522 ALGONQUIN PKY	3/4/2024 13:25	3/4/2024 14:30	19,500	MSD0278	STREAM	OHIO RIVER	PRIMARY REHAB PROJECT CONSTRUCTION CREW STRUCK LINE	DRY WEATHER	3765924	PUMPED TO PRIMARY, SOME ESCAPED TO WUS, OHIO RIVER VIA STORM DRAIN.	ISOLATED AND VALVED LINE.	UNAUTHORIZED DISCHARGE-WATERS
MORRIS FORMAN	KY0022411	4522 ALGONQUIN PKY	5/24/2024 14:15	5/24/2024 15:09	30,000	MSD0278	STREAM	OHIO RIVER	POWER OUTAGE DUE TO WATER LEAK IN L7 LOAD CENTER CAUSED WEST BAR SCREENS TO BLIND DURING FLOW THROUGH CONDITIONS.	WET WEATHER	3798513	CLEANED AND SANITIZED THE IMPACTED AREA. WO 3800150.	REPAIRED THE POWER TO WEST HEADWORKS. WO. 3798496.	UNAUTHORIZED DISCHARGE-WATERS

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APPENDIX G

OVERFLOWS TO THE INTERIOR

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MORRIS FORMAN	KY0022411	1509 S 35TH ST	7/9/2023 17:00	7/9/2023 17:15	1	127265	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	WET WEATHER	3673500	CUSTOMER CLEANED IMPACTED AREA	ADVISED CUSTOMER TO CALL BACK IF BACKUP HASNT RECEDED IN 24 HOURS
MORRIS FORMAN	KY0022411	111 BONNER AVE	7/11/2023 14:33	7/11/2023 17:00	1	8266	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION IN MAIN SEWER	DRY WEATHER	3673943	CUSTOMER CLEANED IMPACTED AREA	FLUSHED/VACTORED THE OBSTRUCTION /DEBRIS FROM THE SEWER
MORRIS FORMAN	KY0022411	3112 MELANIE WAY	7/13/2023 17:20	7/13/2023 18:20	1	091N01870000A	ROOT BLOCKAGE IN THE MAIN SEWER	ROOTS	DRY WEATHER	3674237	CUSTOMER CLEANED IMPACTED AREA	ROOT CUT THE MAIN SEWER TO REMOVE OBSTRUCTION
MORRIS FORMAN	KY0022411	1122 GARVIN PL	7/29/2023 18:45	7/29/2023 20:30	1	35740	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3682717	CUSTOMER CLEANED IMPACTED AREA	FLUSHED MAIN SEWER TO REMOVE OBSTRUCTION
DEREK R. GUTHRIE	KY0078956	8705 WAT-TERSON TRL	8/10/2023 20:30	8/10/2023 23:50	1	T168A8705	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3685208	CUSTOMER CLEANED IMPACTED AREA	FLUSHED/ROOT CUT MAIN SEWER
DEREK R. GUTHRIE	KY0078956	7422 NOTTOWAY CIR	9/17/2023 17:30	9/17/2023 17:45	1	DE22476019	CAUSE OF DISCHARGE IS AT THE SHARED JOINT OF THE PROPERTY SERVICE CONNECTION. OBSTRUCTION IN MAIN SEWER AND PRIVATE PROPERTY ISSUE.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3689024	CUSTOMER CLEANED THE IMPACTED AREA	FLUSHED/VACTORED THE OBSTRUCTION /DEBRIS FROM THE SEWER. FLUSH WORK ORDER 3689026. ADVISED CUSTOMER TO CONTACT A PLUMBER.
MORRIS FORMAN	KY0022411	2210 HOLLIDAY MANOR CTR	10/4/2023 23:41	10/4/2023 23:42	1	113992210	GREASE BLOCKAGE IN MAIN SEWER	GREASE BLOCKAGE	DRY WEATHER	3705499	CUSTOMER CLEANED IMPACTED AREA	FLUSHED MAIN SEWER #3705505
CEDAR CREEK	KY0098540	6901 CEDAR LAKE CT	11/27/2023 12:10	11/27/2023 12:50	3	BE02368149	ROOTS IN MAIN SEWER	ROOTS	DRY WEATHER	3727145	CUSTOMER PARTIAL CLEANED IMPACTED AREA	PENDING REVIEW FOR CLEANING SERVICE
DEREK R. GUTHRIE	KY0078956	7304 ROYALWOOD DR	11/29/2023 20:00	11/29/2023 23:00	1	1197304B	OBSTRUCTION IN MSD'S PORTION OF THE PROPERTY SERVICE CONNECTION	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3727470	CUSTOMER CLEANED IMPACTED AREA	REFER TO AREA SUPERVISOR FOR FURTHER INVESTIGATION
DEREK R. GUTHRIE	KY0078956	6104 RICHIEWAYNE DR	11/1/2024 13:25	11/1/2024 14:07	5	103026104	MSD PERSONNEL CLEANING THE SEWERS	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3736799	ADVISED CUSTOMER TO AVOID IMPACTED AREA	RC W/O# 3736804
DEREK R. GUTHRIE	KY0078956	4907 LIBBY LN	11/7/2024 21:15	11/7/2024 21:45	1	122500540237A	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3737445	CUSTOMER CLEANED IMPACTED AREA	WO #3737658
DEREK R. GUTHRIE	KY0078956	3204 PENHURST DR	11/12/2024 16:45	11/12/2024 17:15	1	RR14017029	ROOTS IN MAIN SEWER	ROOTS	WET WEATHER	3740293	CUSTOMER CLEANED IMPACTED AREA	ROOTCUT MAIN SEWER WO# 3740297



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WQIC NAME	WQIC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET ID	CAUSE	DUE TO	WEATHER	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
DEREK R. GUTHRIE	KY0078956	702 MOUNT HOLLY RD	2/22/2024 23:15	2/23/2024 2:00	1	AU13889019	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	WET WEATHER	3784605	CUSTOMER CLEANED IMPACTED AREA	FLUSHED/VACTORED THE OBSTRUCTION / DEBRIS FROM THE SEWER
DEREK R. GUTHRIE	KY0078956	704 MOUNT HOLLY RD	2/22/2024 23:15	2/23/2024 2:00	1	AU13890029	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	WET WEATHER	3784610	CUSTOMER CLEANED IMPACTED AREA	CAMERA INSPECTION CONFIRMED ALL OBSTRUCTIONS REMOVED FROM MAIN SEWER AT THIS TIME IF STILL PLUMBING ISSUES ADVISED TO CALL PLUMBER
MORRIS FORMAN	KY0022411	702 E BRECKINRIDGE ST	4/10/2024 16:30	4/10/2024 18:30	1	L12404019	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	WET WEATHER	3780593	CUSTOMER CLEANED IMPACTED AREA	REFER TO AREA SUPERVISOR FOR FURTHER INVESTIGATION
DEREK R. GUTHRIE	KY0078956	2328 LINDSEY DR	4/11/2024 19:15	4/11/2024 20:15	1	1020050000000A	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	WET WEATHER	3785441	CUSTOMER CLEANED IMPACTED AREA	FLUSHED MAIN SEWER/REFER TO TV CREW FOR TV INSPECTION
DEREK R. GUTHRIE	KY0078956	2324 LINDSEY DR	4/11/2024 19:15	4/11/2024 20:15	1	1020049800000A	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	WET WEATHER	3785445	CUSTOMER CLEANED IMPACTED AREA	FLUSHED MAIN SEWER/ROOTCUT MAIN SEWER
MORRIS FORMAN	KY0022411	3307 CHARLAINE PKY	4/12/2024 18:15	4/12/2024 18:30	1	JT00938819	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	WET WEATHER	3785653	CUSTOMER CLEANED THE IMPACTED AREA	ADVISED CUSTOMER TO WAIT 24 HOURS FOR WATER TO RECEDE
MORRIS FORMAN	KY0022411	66 WINIFREDE LN	4/16/2024 16:45	4/16/2024 17:30	1	G07971019	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3786702	CUSTOMER CLEANED IMPACTED AREA	FLUSHED MAIN SEWER
DEREK R. GUTHRIE	KY0078956	1900 FARNSLEY RD	5/30/2024 20:30	5/30/2024 21:30	1	RR14246019	ROOTS IN THE MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3799261	CUSTOMER CLEANED THE IMPACTED AREA	ROOT CUT THE MAIN SEWER TPO CLEARING THE LINE SEGMENT
DEREK R. GUTHRIE	KY0078956	9813 WEST AVE	6/15/2024 19:00	6/15/2024 20:15	1	109352	ROOTS IN MAIN SEWER	ROOTS	DRY WEATHER	3801676	CUSTOMER CLEANED IMPACTED AREA	RC #3801673
MORRIS FORMAN	KY0022411	2501 VALLET-TA RD	6/26/2024 19:30	6/26/2024 20:00	1	Z20456019	CAUSE OF DISCHARGE IS IN MAIN SEWER; ROOTS IN MAIN SEWER	ROOTS	WET WEATHER	3813891	CUSTOMER REQUESTING CLEAN. MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA; CLEAN W03814040	FLUSHED/VACTORED THE ROOTS FROM THE SEWER IN THE RESIDENTIAL AREA; FLUSH W03813892

APPENDIX H

OVERFLOWS TO THE EXTERIOR

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MORRIS FORMAN	KY0022411	1637 WHIP-POORWILL RD	7/25/2023 8:30	7/25/2023 13:32	1	Sewer Main	13862	GREASE IN MAIN SEWER	GREASE BLOCK-AGE	DRY WEATHER	3681686	MSD PER-SONNEL WILL CLEAN IMPACTED AREA	FLUSHED/VACTORED THE GREASE FROM THE SEWER IN THE RESIDENTIAL AREA
MORRIS FORMAN	KY0022411	1743 BEL-MAR DR	7/26/2023 13:00	7/26/2023 14:07	1	Sewer Service Line	34091743	GREASE BLOCKAGE IN THE MAIN SEWER	GREASE BLOCK-AGE	DRY WEATHER	3681876	CUSTOMER CLEANED IMPACTED AREA	MSD PERSONNEL FLUSHED MAIN SEWER AND THE MAIN RECEDED
MORRIS FORMAN	KY0022411	3200 MOUNT RAINIER DR	7/31/2023 16:50	7/31/2023 19:00	50	Sewer Main	42926	ROOTS IN MSD'S PORTION OF THE PROPERTY SERVICE CONNECTION	ROOTS	DRY WEATHER	3682998	DISCLEAN WILL BE DONE BY MSD PERSONNEL	REFERRED FOR TVI #3682999
MORRIS FORMAN	KY0022411	3024 DART-MOUTHAVE	8/6/2023 12:40	8/6/2023 13:19	1	Sewer Main	17583	ROOTS IN MAIN SEWER	ROOTS	DRY WEATHER	3684383	CUSTOMER ADVISED MSD PERSONNEL THEY WOULD CLEAN IMPACTED AREA	ROOT CUT THE MAIN SEWER TO REMOVE ROOT BALL
MORRIS FORMAN	KY0022411	209 DON ALLEN RD	8/8/2023 17:00	8/8/2023 17:44	1	Sewer Main	19810	OBSTRUCTION IN MAIN SEWER	OB-STRUC-TION-NOT GREASE / ROOTS	DRY WEATHER	3684775	CUSTOMER ADVISED MSD PER-SONNEL THEY WOULD CLEAN IMPACTED AREA	FLUSHED MAIN SEWER TO REMOVE BALL OF ASPHALT
MORRIS FORMAN	KY0022411	2303 RIVER RD	8/9/2023 16:30	8/9/2023 20:00	1000	Sewer Main	101121-T	STRUCTURAL FAILURE FORCE MAIN BREAK	STRUC-TURAL FAILURE	DRY WEATHER	3684998	AREA DIS-INFECTED WITH LIME	CONTRACTOR REPAIRED FORCE MAIN
DEREK R. GUTHRIE	KY0078956	8707 WAT-TERSON TRL	8/10/2023 20:30	8/10/2023 23:50	10	Sewer Main	41583	OBSTRUCTION IN MAIN SEWER	OB-STRUC-TION-NOT GREASE / ROOTS	DRY WEATHER	3685207	MSD PER-SONNEL WILL CLEAN IMPACTED AREA	FLUSHED MAIN SEWER/REFER TO TV CREW FOR TV INSPECTION
HITE CREEK	KY0022420	3700 CYPRESS SPRINGS PL	8/19/2023 17:20	8/19/2023 17:40	500	Sewer Lift Station	MSD1018-PS	MECHANICAL FAILURE TRANSDUCER HUNG IN BIO MAT	MECHAN-ICAL FAILURE	DRY WEATHER	3690242	CLEANED AND SANI-TIZED THE IMPACTED AREA	BROKE UP BIO MAT AND PUSHED INTO WET WELL
HITE CREEK	KY0022420	3700 CYPRESS SPRINGS PL	8/20/2023 23:55	8/21/2023 0:07	300	Sewer Lift Station	MSD1018-PS	MECHANICAL FAILURE TRANSDUCER HUNG IN BIO MAT	MECHAN-ICAL FAILURE	DRY WEATHER	3690326	CLEANED AND SANI-TIZED THE IMPACTED AREA	BROKE UP BIO MAT AND PUSHED INTO WET WELL, CONTACTED VAC-UUM CLEANING COMPANY TO CLEAN WET WELL.
DEREK R. GUTHRIE	KY0078956	11010 ALT-SHELTER PL	8/24/2023 18:45	8/24/2023 20:00	1	Sewer Service Line	PD17204089	OBSTRUCTION IN MAIN SEWER	OB-STRUC-TION-NOT GREASE / ROOTS	DRY WEATHER	3695777	MSD PER-SONNEL CLEANED IMPACTED AREA	REFER TO TV CREW FOR TV INSPECTION
FLOYDS FORK	KY0102784	2520 TER-RACROSS-ING BLVD	8/25/2023 17:00	8/26/2023 8:11	20	Sewer Main	107136-V	STRUCTURAL FAILURE OF MAIN SEWER	STRUC-TURAL FAILURE	DRY WEATHER	3695931	CLEANED AND SANI-TIZED THE IMPACTED AREA	REPAIRED THE MAIN SEWER; WORK ORDER#



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DEREK R. GUTHRIE	KY0078956	5204 STOUT BLVD	8/30/2023 20:15	8/30/2023 21:15	1	Sewer Main	55482	ROOTS IN MAIN SEWER	ROOTS	DRY WEATHER	3801038	MSD PER-SONNEL CLEANED AND SANITIZED IMPACTED AREA	RC #3697269
FLOYDS FORK	KY0102784	611 WOODLAKE DR	8/30/2023 20:45	8/30/2023 20:50	50	Sewer Main	80581A-AG	STRUCTURAL FAILURE FORCE MAIN BREAK	STRUCTURAL FAILURE	DRY WEATHER	3698679	AREA DISINFECTED WITH LIME	CONTRACTOR TO REPAIR FORCE MAIN
MORRIS FORMAN	KY0022411	8808 CRANBORNE CT	9/10/2023 22:30	9/11/2023 2:00	25	Sewer Main	30807	CAUSE OF DISCHARGE IS IN MAIN SEWER. GREASE AND ROOTS IN MAIN SEWER	GREASE BLOCKAGE	DRY WEATHER	3697976	MSD PER-SONNEL CLEANED AND SANITIZED THE IMPACTED AREA. DISINFECTION DISINFECTANT DISINFECTANT WO3697979	FLUSHED/VACTORED THE OBSTRUCTION/DEBRIS FROM THE SEWER. FLUSH WORK ORDER WO3697978
DEREK R. GUTHRIE	KY0078956	3305 FERNLEARD	9/17/2023 16:15	9/17/2023 17:15	1	Sewer Main	54173	CAUSE OF DISCHARGE IS IN MAIN SEWER. OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3698021	MSD PER-SONNEL CLEANED AND SANITIZED THE IMPACTED AREA. DISINFECTION DISINFECTANT DISINFECTANT ORDER WORK ORDER 3698023	FLUSHED/VACTORED THE OBSTRUCTION/DEBRIS FROM THE SEWER. FLUSH WORK ORDER 3698022
DEREK R. GUTHRIE	KY0078956	9000 SHELVIE DR	9/29/2023 13:00	9/29/2023 14:14	1	Sewer Service Line	DC50726019	ROOTS AT THE PROPERTY SERVICE CONNECTION	ROOTS	DRY WEATHER	3704791	CUSTOMER CLEANED IMPACTED AREA	PSCR #3704859
MORRIS FORMAN	KY0022411	6869 GREEN MEADOW CIR	10/12/2023 14:00	10/12/2023 14:02	1	Sewer Main	63332	CAUSE OF DISCHARGE IS IN MAIN SEWER. OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3707039	MSD PER-SONNEL CLEANED AND SANITIZED THE IMPACTED AREA	FLUSHED/VACTORED THE OBSTRUCTION/DEBRIS FROM THE SEWER. FLUSH WORK ORDER WO3707043
DEREK R. GUTHRIE	KY0078956	7802 MANSLUICK RD	10/12/2023 17:40	10/12/2023 17:50	100	Sewer Main	56495-V	STRUCTURAL FAILURE FORCE MAIN BREAK	STRUCTURAL FAILURE	DRY WEATHER	3707099	MSD CON-TRACTOR CLEANED AND SANITIZED THE IMPACTED AREA	CONTRACTOR REPAIRED FORCE MAIN - WO3707101
MORRIS FORMAN	KY0022411	1337 TRINITY PARK DR	10/26/2023 8:20	10/26/2023 14:00	300	Sewer Main	MSD0014-PS	STRUCTURAL FAILURE FORCE MAIN FAILURE	STRUCTURAL FAILURE	DRY WEATHER	3714469	MSD CON-TRACTOR CLEANED AND SANITIZED THE IMPACTED AREA	REPAIRED THE FORCEMAIN WO#3714479
FLOYDS FORK	KY0102784	1100 BLUE HERON RD	11/8/2023 21:56	11/9/2023 8:47	100	Sewer Treatment Plant	MSD0294	MECHANICAL FAILURE INFLUENT PUMP STATION LEVEL SENSORS WERE FAULTED OUT AND WHEN POWERED BACK ON ALL 6 PUMPS OVERHELMED THE BAR SCREENS.	ELECTRICAL PROB-LEMS AT MSD	DRY WEATHER	3719026	EIC VAC THE TRASH FROM ASPHALT. MSD SANITIZED AREA	MSD ELECTRICALS REPLACED UPS. CORRECTED THE ISSUE.

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WQTC NAME	WQTC KPDES#	OVERFLOW LOCATION	START DATE & TIME	STOP DATE & TIME	VOLUME (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	CAUSE	DUE TO	WEATHER	WO #	CLEANUP EFFORTS	REPAIR EFFORTS
MORRIS FORMAN	KY0022411	1418 S. 32ND ST	11/9/2023 13:30	11/9/2023 15:12	1	Sewer Service Line	P11502029	STRUCTURAL FAILURE OF MAIN SEWER	STRUC-TURAL FAILURE	DRY WEATHER	3719124	CUSTOMER CLEANED IMPACTED AREA	REFER TO AREA SUPERVISOR FOR FURTHER INVESTIGATION
CEDAR CREEK	KY0098540	8405 CEDAR CREEK RD	12/9/2023 20:40	12/11/2023 9:23	100	Sewer Treatment Plant	MSD0289	OXIDATION DITCH FLOW WENT OVER SUMP PITS	LACK OF SYSTEM CAPACITY	WET WEATHER	3729923	MSD CLEANED AND SANITIZED AREA	CLEAN SUMP PIT
MORRIS FORMAN	KY0022411	4904 PRESTON HWY	12/19/2023 15:30	12/19/2023 17:26	1	Sewer Service Line	85602	ROOTS IN MAIN SEWER	ROOTS	DRY WEATHER	3735631	CUSTOMER CLEANED IMPACTED AREA	MSD PERSONNEL ROOT CUT MAIN SEWER AND MAIN RECEDED
MORRIS FORMAN	KY0022411	9800 CYPRESS CREEK DR	1/1/2024 20:45	1/4/2024 15:10	30	Sewer Service Line	HP09867059	OBSTRUCTION IN MANHOLE	OB-STRUC-TION-NOT GREASE / ROOTS	DRY WEATHER	3736772	PENDING DEBRIS REMOVAL FROM MANHOLE PRIOR TO CLEANING ACTIVITIES	WO# 3736775 (OBSTRUCTION IN SAINTARY MAIN AND MANHOLE BARREL WORK IS COMPLETED.
DEREK R. GUTHRIE	KY0078956	5717 LOCUST WAY	1/4/2024 17:45	1/4/2024 18:45	10	Sewer Main	36337	LACK OF SYSTEM CAPACITY	OB-STRUC-TION-NOT GREASE / ROOTS	DRY WEATHER	3737223	MSD PERSONNEL WILL CLEAN/SANITIZE IMPACTED AREA	INVESTIGATION INDICATED THAT ADDITIONAL REPAIRS WERE NOT REQUIRED BY MSD
MORRIS FORMAN	KY0022411	5311 ALPINE WAY	1/9/2024 10:07	1/9/2024 10:25	25	Sewer Service Line	2357	RAIN EVENT LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	WET WEATHER	3739625	NO CLEAN UP IS PERFORMED MANHOLE IS STILL DISCHARGING	HAVE TO WAIT UNTIL RAIN STOPS AND SEWER RECEDES
DEREK R. GUTHRIE	KY0078956	1700 HERBERT AVE	1/13/2024 17:45	1/13/2024 20:00	1	Sewer Service Line	171295	OBSTRUCTION IN MAIN SEWER	OB-STRUC-TION-NOT GREASE / ROOTS	DRY WEATHER	3740363	MSD PERSONNEL WILL CLEAN AND SANITIZE IMPACTED AREA	REFER TO TV CREW FOR TV INSPECTION
DEREK R. GUTHRIE	KY0078956	11009 WAY-CROSS AVE	1/29/2024 20:20	1/29/2024 20:50	1	Sewer Main	80680	OBSTRUCTION IN MAIN SEWER	OB-STRUC-TION-NOT GREASE / ROOTS	DRY WEATHER	3751519	CUSTOMER ADVISED MSD PERSONNEL THEY WOULD CLEAN IMPACTED AREA	MSD PERSONNEL ROOT CUT MAIN SEWER AND LINE IS CLEAR
MORRIS FORMAN	KY0022411	1810 ARBOR BORO PL	2/28/2024 14:30	2/28/2024 15:20	1	Sewer Service Line	199500260000A	OBSTRUCTION IN MAIN SEWER	OB-STRUC-TION-NOT GREASE / ROOTS	DRY WEATHER	3765385	CUSTOMER CLEANED IMPACTED AREA	MSD PERSONNEL FLUSHED MAIN SEWER AND MAIN SEWER RECEDED
FLOYDS FORK	KY0102784	14503 ASH-MONT PL	3/5/2024 13:00	3/5/2024 15:00	20	Sewer Main	804108-V	STRUCTURAL FAILURE FORCE MAIN BRAKE	STRUC-TURAL FAILURE	DRY WEATHER	3767467	CLEANED AND SANITIZED THE IMPACTED AREA	ISOLATE FORCE MAIN AND CONTACTED MMSD CONTRACTOR TO REPAIR DAMAGE.
MORRIS FORMAN	KY0022411	8015 SHELLBYVILLE RD	3/18/2024 20:40	3/18/2024 20:55	1	Sewer Main	47601	FURTHER INVESTIGATION NEEDED	UTILITY DAMAGED MSD ASSET	DRY WEATHER	3775809	CUSTOMER ADVISED MSD PERSONNEL THAT THEY WILL CLEAN THE IMPACTED AREA	GOING TO MEET WITH SEWER LEON IN THE MORNING TO ASSESS



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HITE CREEK	KY0022420	4010 COL-LINS LN	3/27/2024 9:00	3/27/2024 10:26	172	Sewer Main	29473	CAUSE OF DISCHARGE IS IN MAIN SEWER. OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3776940	MSD PER-SONNEL CLEANED AND SANITIZED THE IMPACTED AREA. DISCLN MANHOLE. MHRP WO3776932	FLUSHED/ VACTORED THE OBSTRUCTION/ DEBRIS FROM THE SEWER. FLUSH WO3776934. REPAIRED THE MANHOLE. MHRP WO3776932
MORRIS FORMAN	KY0022411	835 S 38TH ST	4/2/2024 9:30	4/2/2024 10:04	1	Sewer Service Line	128116	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	WET WEATHER	3778198	NO ACTION REQUIRED	WATER RECEDED WHEN THE RAIN STOPPED
HITE CREEK	KY0022420	6012 CLO-RE AVE	4/14/2024 13:40	4/14/2024 14:20	1	Sewer Main	90958	GREASE IN MAIN SEWER	GREASE BLOCK-AGE	DRY WEATHER	3785721	MSD PER-SONNEL CLEANED IMPACTED AREA	FLUSHED MAIN SEWER
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	4/16/2024 21:41	4/16/2024 22:41	1000	Sewer Treatment Plant	MSD0278	STRUCTURAL FAILURE (SUSPECTED THAT BARREL SECTION OF NEW MANHOLE INSTALLED BY CONTRACTOR NOT SEALED- EXCAVATING TO CONFIRM)	STRUCTURAL FAILURE	WET WEATHER	3786730	CLEANED AND SANITIZED THE IMPACTED AREA	PUMP PLACED IN MANHOLE TO PUMP TO PRIMARY TREATED CHANNEL.
MORRIS FORMAN	KY0022411	6600 WIND-HURST RD	4/17/2024 9:50	4/17/2024 10:55	1	Sewer Main	24629	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3786765	MSD PER-SONNEL CLEANED AND SANITIZED THE IMPACTED AREA	FLUSHED/ VACTORED THE OBSTRUCTION/ DEBRIS FROM THE SEWER
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	5/5/2024 2:45	5/5/2024 13:16	21500	Sewer Treatment Plant	MSD0278	BLOCKAGE IN DIGESTER 4	MECHANICAL FAILURE	WET WEATHER	3795222	HOSE AND VACTOR AREA	STILL TO BE DETER
DEREK R. GUTHRIE	KY0078956	4204 GLEN HILL MANOR DR	5/12/2024 14:10	5/12/2024 14:45	1	Sewer Service Line	DD39877019	GREASE IN MAIN LINE CAUSED BACK UP	GREASE BLOCK-AGE	DRY WEATHER	3796385	MSD PER-SONNEL CLEANED IMPACTED AREA	FLUSHED MAIN SEWER 100 FT RESTORED TO NORMAL FLOW #3796386
FLOYDS FORK	KY0102784	1100 BLUE HERON RD	5/14/2024 7:52	5/14/2024 9:07	30000	Sewer Treatment Plant	MSD0294	SCUM DISCHARGE LINE FOR #1 & #2 CLARIFIER BROKE IN THE GROUND	MECHANICAL FAILURE	DRY WEATHER	3796776	EIC CLEANED UP SCUM. LIME IS SPREAD.	MAINTENANCE CALLED IN EMERGENCY CONTRACTOR TO EXCAVATING AND REPAIRING.
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	6/6/2024 5:00	6/6/2024 6:00	6000	Sewer Treatment Plant	MSD0278	MECHANICAL FAILURE- CLOG	MECHANICAL FAILURE	WET WEATHER	3800115	WASHDOWN/ CLEANUP WO#:3800148	UNCLOGG/CLEAN WO#:3800146
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	6/15/2024 11:50	6/15/2024 12:45	10000	Sewer Treatment Plant	MSD0278	#2 DIGESTER WITHDRAWAL LINE PLUGGED WITH RAGS	MECHANICAL FAILURE	DRY WEATHER	3801658	MSD CLEANED AND SANITIZED WO#:3801656	CLEARED THE LINE OF RAGS WO# 3801656
MORRIS FORMAN	KY0022411	4019 GLEN VALLEY RD	45465.4688	45466.0104	1	Sewer Main	54635	UNKNOWN OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3802600	CUSTOMER ADVISED MSD PER-SONNEL THAT THEY WILL CLEAN THE IMPACTED AREA	REVERSE FLUSHED MAIN SEWER GOT OPERATED FOR TVI



APPENDIX I

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PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
17TH ST FPS DWO ELIMINATION	LTCP-DWO	MSD0306-PP	L_OR_MF_190_S_03_A_A
27TH STREET FPS DWO ELIM	LTCP-DWO	MSD0307-PP	L_OR_MF_019_S_03_A_A
34TH ST FPS DWO ELIMINATION	LTCP-DWO	MSD0308-PP	L_OR_MF_019_S_03_A_B
4TH STREET FPS DWO ELIMINATION	LTCP-DWO	CSO022	L_OR_MF_022_M_03_A_A
4TH STREET FPS DWO ELIMINATION	LTCP-DWO	MSD0303-PP	L_OR_MF_022_M_03_A_A
ADAMS STREET SEWER SEPARATION (FORMERLY STORAGE BASIN)	LTCP-CSO	CSO172-X	L_OR_MF_172_S_09B_B_A_0
ADMIRAL WAY FORCE MAIN DIVERSION	AM	64054	AMADMIRALWAYS
ADMIRAL WAY FORCE MAIN DIVERSION	AM	93703	AMADMIRALWAYS
ADMIRAL WAY FORCE MAIN DIVERSION	AM	93705	AMADMIRALWAYS
ADMIRAL WAY FORCE MAIN DIVERSION	AM	MSD1051-PS	AMADMIRALWAYS
ANCHOR ESTATES PS ELIMINATIONS 1 - VANNAH PUMP STATION ELIMINATION	SSDP-SSO	01106	S_MI_MF_NB06_M_01_A_A-2
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP-SSO	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-SSO	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-SSO	00746	S_MI_MF_NB06_M_01_A_A-1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP-SSO	00817	S_MI_MF_NB06_M_01_A_A-1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP-SSO	MSD0056-LS	S_MI_MF_NB06_M_01_A_A-1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP-SSO	MSD0057-LS	S_MI_MF_NB06_M_01_A_A-1
ASHBURTON PS IMPROVEMENTS & DIVERSION	SSDP-SSO	MSD0166-PS	S_FF_FF_NB03_M_01_C_A
ASHBURTON PS IMPROVEMENTS & DIVERSION	SSDP-SSO	MSD0166-PS	S_FF_FF_NB03_M_01_C_A
AVANTI PS ELIMINATION	SSDP-SSO	21229	S_PO_WC_PC07_M_01_A
BARDESTOWN RD PS IMPROVEMENTS	SSDP-SSO	88545	S_CC_CC_MSD1025_S_03_B
BEARGRASS INTERCEPTOR REHABILITATION PH 2	SSDP-SSO	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#39;S RUN) WET WEATHER TREATMENT FACILITY	LTCP-CSO	CSO015-M	L_OR_MF_015_M_13_B_B_8
BELLS LANE (FORMERLY PADDY#39;S RUN) WET WEATHER TREATMENT FACILITY	LTCP-CSO	CSO191-M	L_OR_MF_015_M_13_B_B_8
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	08426	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	08427	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	08429	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	08430	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	08431	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	085100050045A	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	085100290046A	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	18654	C_SF_MF_B



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BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	49647	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	85055	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	85075	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP-CR	85097	C_SF_MF_B
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	08717	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	104223	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	104224	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	104231	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	13931	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	13943	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	13946	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	34093542	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	36763	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	44396	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	44397	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	51301	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	66349	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	99259	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	KK14815019	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	KK14855239	S_SF_MF_30917_M_09_A
CAVEN AVENUE PS ELIMINATION	SSDP-SSO	17724	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP-SSO	27116	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP-SSO	61667	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP-SSO	61687	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP-SSO	70212	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP-SSO	MSD0133-PS	S_PO_WC_PC09_M_09B_C
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO028	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO029	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO034	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO036	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO178	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO181	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO193	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO195	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO196	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO197	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO199	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO200-X	L_OR_MF_155_M_09B_B_B_4-1

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CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CSO202	L_OR_MF_155_M_09B_B_B_4_1
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP-SSO	25477	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP-SSO	25479	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP-SSO	25480	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP-SSO	MSD0130-PS	S_PO_WC_PC03_M_01_C
CINDERELLA PS ELIMINATION	SSDP-SSO	102339	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP-SSO	35309	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP-SSO	60679	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP-SSO	MSD1013-PS	S_PO_WC_PC04_M_01_C
CLIFTON HEIGHTS STORAGE BASIN	LTCP-CSO	CSO083-M	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP-CSO	CSO088	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP-CSO	CSO131	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP-CSO	CSO132-M	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP-CSO	CSO154-M	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP-CSO	CSO167-M	L_MU_MF_154_M_09B_B_A_8
CSO058 IN-LINE STORAGE & GREEN INFRASTRUCTURE	LTCP-CSO	CSO058	L_OR_MF_058_S_08_A_A_0
CSO093 STRUCTURAL MODIFICATIONS & GREEN INFRASTRUCTURE	LTCP-CSO	CSO093	L_SO_MF_093_S_08_A_A_0
CSO108 DAM MODIFICATION	LTCP-CSO	CSO108	L_SO_MF_108_S_09A_B_A_4
CSO140 IN-LINE STORAGE & GREEN INFRASTRUCTURE	LTCP-CSO	CSO140-M	L_MI_MF_140_S_08_A_A_0
CSO160 SEWER SEPARATION	LTCP-CSO	CSO160	L_OR_MF_160_S_08_A_A_0
CSO190 GREEN INFRASTRUCTURE (FORMERLY 18TH & NORTHWESTERN PKWY STORAGE BASIN)	LTCP-CSO	CSO190	L_OR_MF_190_S_09B_B_A_8
CSO206 SEWER SEPARATION	LTCP-CSO	CSO206-X	L_MI_MF_206_S_08_A_A_0
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	104289	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28249	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28250	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28336	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28340	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28413	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28414	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28415	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28416	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28417	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28451	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28452	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28453	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP-SSO	28711	S_JT_JT_NB02_M_01_C
DEREK R GUTHRIE WQTC UPGRADES	OTHER	1256312700A	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	OTHER	22307	DEREK R GUTHRIE WQTC UPGRADES



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DEREK R GUTHRIE WQTC UPGRADES	OTHER	22370	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	OTHER	22385	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	OTHER	32882	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	OTHER	32888	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	OTHER	59169	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	OTHER	MSD0277	DEREK R GUTHRIE WQTC UPGRADES
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	20154-W	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	20155	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	MSD0095-PS	S_OR_MF_NB03_S_07_C
EAST ROCKFORD PS RELOCATION	SSDP-SSO	04699-W	S_MC_WC_NB02_S_03_C
EDEN CARE PS SSO INVESTIGATION	SSDP-SSO	MSD1105-PS	S_FF_FF_NB02_S_13_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	92098	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	92099	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	94009	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	MSD1048-PS	S_PO_WC_PC11_M_07_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP-SSO	64096	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP-SSO	86052	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP-SSO	92061	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP-SSO	MSD0196-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP-SSO	MSD0263	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP-SSO	MSD0263A-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP-SSO	MSD1043-PS	S_JT_JT_NB01A_M_03_C
FAIRMOUNT RD PS IMPROVEMENTS	SSO	116106	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSO	81316	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSO	97362	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSO	97363	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSO	97365	S_FF_CC_81316_M_03_C_A
FAIRWAY VIEW PS IMPROVEMENTS	SSDP-SSO	MSD1065-PS	S_HC_HS_NB01_S_03_C_A
FLOYDSBURG RD I&I INVEST	SSDP-SSO	108953	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP-SSO	108956	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP-SSO	108957	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP-SSO	108958	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP-SSO	90776	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP-SSO	MSD1086-PS	S_HC_HC_MSD1086_M_07_C_A

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FOX HARBOR IN-LINE STORAGE	SSO	62769	S_HC_HN_NB03_S_09A_A_A
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	105936	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	117721	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	43472	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	46691	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	62418	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	62420	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	91629	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	91630	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	MSD0040-PS	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	MSD1024-PS	S_MI_MF_NB04_M_03_B-1
GOVERNMENT CENTER PS ELIMINATION	SSDP-SSO	94541	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	SSDP-SSO	94542	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	SSDP-SSO	MSD0180-PS	S_PO_WC_PC06_M_01_C
GUNPOWDER PS IN-LINE STORAGE	SSDP-SSO	MSD1055-LS	S_HC_HN_NB02_S_09A_C_B
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	55665	S_MC_MF_55665_S_07_C
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	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



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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 III INVESTIGATION & REHABILITATION	SSDP-SSO	01793	S_MI_MF_NB07_S_07_C
HURSTBOURNE III INVESTIGATION & REHABILITATION	SSDP-SSO	47650	S_MI_MF_NB07_S_07_C
HURSTBOURNE III INVESTIGATION & REHABILITATION	SSDP-SSO	47656	S_MI_MF_NB07_S_07_C
HURSTBOURNE III INVESTIGATION & REHABILITATION	SSDP-SSO	67535	S_MI_MF_NB07_S_07_C
IDLEWOOD IN-LINE STORAGE	SSDP-SSO	28984	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP-SSO	28985	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP-SSO	28998	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP-SSO	63094	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP-SSO	63095	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP-SSO	70158	S_CC_CC_70158_M_09A_C
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	28173	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	28390	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	28391	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	28392	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	28395	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	28551	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	31733	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	64505	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	IS028-SI	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP-SSO	MSD0255	S_JT_JT_NB01_M_01_C_A
KAVANAUGH RD PS IMPROVEMENTS	SSDP-SSO	MSD1085-PS	S_HC_HC_MSD1085_S_03_A
KLONDIKE INTERCEPTOR	SSDP-SSO	20644	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP-SSO	25676	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP-SSO	26650	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP-SSO	26651	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP-SSO	49513	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP-SSO	66232	S_SD_MF_NB04_S_01_B_A
LAKE FOREST PS SSO INVESTIGATION	SSDP-SSO	MSD1169-LS	S_FF_LF_NB01_S_13_C_A
LANTANA #1 PS III INVESTIGATION & REHABILITATION	SSDP-SSO	MSD0101-PS	S_PO_WC_PC05_M_07_C
LANTANA PS ELIMINATION	AM	25484	AMLANTANAPS
LANTANA PS ELIMINATION	AM	93719	AMLANTANAPS

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LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	19360	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	19369	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	29933	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	29943	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	29948	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	29949	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	31073	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	31074	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	31083	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	31084	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	57874	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	61266	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	79076	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	MSD1010-PS	S_PO_WC_PC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	MSD1200-PS	S_PO_WC_PC08_M_01_C
LELAND RD SSO INVESTIGATION	SSDP-SSO	96020	S_OR_MF_NB02_S_13_C
LEVEN PS ELIMINATION	SSDP-SSO	36419	S_PO_WC_PC10_M_01_C
LEVEN PS ELIMINATION	SSDP-SSO	MSD1019-PS	S_PO_WC_PC10_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP-SSO	67997	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP-SSO	67999	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP-SSO	86423	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP-SSO	86424	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP-SSO	89196	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP-SSO	89197	S_CC_CC_67997_M_01_C
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO091	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO097	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO106-X	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO110	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO111	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO113	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO137-X	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO146-M	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO148	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO149-M	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO151-M	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO152-M	L_SO_MF_092_M_09B_B_D_8
LUCAS LANE PS IN-LINE STORAGE	SSDP-SSO	MSD0199-LS	S_FF_BT_NB01_S_09A_C_A
MEADOW STREAM PS & FM UPGRADE	SSDP-SSO	91087	S_HC_HC_MSD1082_S_09A_C



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MEADOW STREAM PS & FM UPGRADE	SSDP-SSO	MSD1082-PS	S_HC_HC_MSD1082_S_09A_C
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	24152-W	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	24472	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	26752	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	41374	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	41416	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	MSD0006-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	MSD0007-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	MSD0010-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	MSD0023-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP-SSO	MSD0024-PS	S_OR_MF_NB01_M_01_B-1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	02932	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	02933	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	02935	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	08537	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	08935-SM	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	115183	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	115184	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	115185	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	15194	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	15195	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	23211	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	23212	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	27005	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	27007	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	27008	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	27012	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	30376	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	40471	S_MISF_MF_NB01_M_01_C_A1-2



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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	74513	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	74520	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	84155	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	90700	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	96672	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	96673	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	BU05074039	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND DIVERSION PHASE 2 - UPPER MIDDLE FORK PS DIVERSION	SSDP-SSO	IS021A-SI	S_MISF_MF_NB01_M_01_C_A1-2
MONTICELLO PS ELIMINATION	SSDP-SSO	27969	S_JT_JT_NB04_M_01_A
MONTICELLO PS ELIMINATION	SSDP-SSO	MSD0151-PS	S_JT_JT_NB04_M_01_A
MORRIS FORMAN WQTC HEADWORKS (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LTCP-CSO	CS0211	L_OR_MF_211_M_13_B_A_8
NIGHTINGALE PS REPLACEMENT & STORAGE	LTCP-CSO	CS0018	L_SO_MF_018_S_03_A_A
NORTHERN DITCH DIVERSION INTERCEPTOR	ISSDP	MSD0271	NORTHERN DITCH DIVERSION INTERCEPTOR
OLDHAM COUNTY - ASH AVE WQTC ELIMINATION	SSDP-SSO	121732	OCASHEAVE
PARKVIEW ESTATES I&I INVESTIGATION	SSDP-SSO	47250	S_SD_MF_NB03_S_07_C
PORTLAND CSO STORAGE BASIN	LTCP-CSO	CSO019-M	L_OR_MF_019_S_13_B_A_8
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	16455	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	22436	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	40870	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	40871	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	40872	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	40879	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	40880	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	42575	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	42580	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	46621	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	46623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	46627	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	65606	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	65610	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	65623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	65633	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	65635	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	89646	S_OR_MF_NB04_M_03_B_B-1

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PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	89791	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD0123-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD0183-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD0186-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD0192-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD0193-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD0291	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD0292	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD1044-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	MSD1063-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP-SSO	117953	S_OR_MF_NB04_M_03_B_B-3
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP-SSO	117959	S_OR_MF_NB04_M_03_B_B-3
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP-SSO	89641	S_OR_MF_NB04_M_03_B_B-3
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP-SSO	89790	S_OR_MF_NB04_M_03_B_B-3
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	SSDP-SSO	28729	S_JT_JT_NB03_M_01_C-1
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	SSDP-SSO	MSD0149-PS	S_JT_JT_NB03_M_01_C-1
RIDING RIDGE PS IMPROVEMENTS	SSDP-SSO	MSD1060-LS	S_HC_HN_NB01_S_03_C_A
RUNNING FOX PS ELIMINATION	SSDP-SSO	MSD1080-LS	S_CC_CC_MSD1080_S_01_C
SHAWNEE FPS DWO ELIMINATION	LTPC-DWO	MSD0309-FP	L_OR_MF_189_M_03_A_A
SHIVELY INTERCEPTOR	SSDP-SSO	04498	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP-SSO	04542	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP-SSO	81814-W	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP-SSO	MSD0016-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP-SSO	MSD0043-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP-SSO	MSD0044-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP-SSO	MSD0047-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP-SSO	MSD0049-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP-SSO	MSD0050-PS	S_MC_WC_NB01_M_01_A
SINKING FORK INTERCEPTOR	ISSDP	21103	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	ISSDP	25012	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	ISSDP	63319	SINKING FORK RELIEF SEWER
SONNE PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	MSD0042-PS	S_OR_MF_42007_S_07_C
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	ISSDP	30680	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	ISSDP	30681	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	ISSDP	30701	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	ISSDP	30702	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	ISSDP	30704	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	ISSDP	63779	SOUTHEASTERN DIVERSION STRUCT



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PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	ISSDP	72571-X	SOUTHEASTERN DIVERSION STRUCT
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LTCP-CSO	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-CSO	CSO210	L_OR_MF_211_M_13_B_A_8__
SOUTHWESTERN PKWY CSO BASIN	LTCP-CSO	CSO104-M	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	LTCP-CSO	CSO105-X	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	LTCP-CSO	CSO189-X	L_OR_MF_105_M_13_B_A_0
ST RENE RD PS IN-LINE STORAGE	SSDP-SSO	94187	S_FF_CH_NB01_S_09A_C_A
SUTHERLAND INTERCEPTOR	SSDP-SSO	16649	S_SD_MF_NB05_M_01_A
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO020-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO023	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO050-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO051-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO052-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO053	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO053-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO054	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO055	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO056	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO082-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO084-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO118-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO119	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO120-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO121	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO125-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO126	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO127-X	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO141	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO153-M	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO155-X	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CSO166-M	MULTIPLE
WOODLAND HILLS PS DIVERSION	SSDP-SSO	33003	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	SSDP-SSO	65516	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	SSDP-SSO	65531	S_FF_FF_NB01_S_01_C_A

APPENDIX J

**WET WEATHER STORAGE AND DIVERSION TO
TREATMENT VIA RTC**

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EVENT NUMBER	START DATE	END DATE	DURATION (H:MIN)	AVG TRFD (IN)	MAX TRFD (IN)	MAX RAIN GAUGE	TOTAL (MG)	HIGH RIVER LEVELS	DESCRIPTION
2023-048	7/11/2023 8:25	7/3/2023 14:00	53:35	1.21	1.41	TR12	186.41	No	Moderate rainfall event concentrated mostly on Eastern and Western parts of the collection system. The MF WQTC treatment capacity is reduced to 140 MGD. Overflow in CSO 20 while using only 31% and 26% of Clifton and Logan basins respectively.
2023-051	7/8/2023 12:10	7/10/2023 2:50	38:40	0.73	2.14	TR04	157.72	No	Large rainfall event concentrated mostly on North Western parts of the collection system with the highest rainfall quantity recorded on Morris Forman area.
2023-053	7/15/2023 10:55	7/15/2023 20:50	9:55	0.19	0.3	TR11	15.43	No	Very small rain event distributed mostly on peripheral parts of the collection system. The MF WQTC treatment capacity is reduced to 140 MGD.
2023-054	7/17/2023 17:30	7/19/2023 15:30	46:00	0.71	0.79	TR15	151.02	No	Small wet weather event distributed mostly on North-Eastern and Western parts of the collection system. Clifton Basin is in degraded mode. The MF WQTC treatment capacity is reduced to 140 MGD.
2023-056	7/24/2023 8:45	7/25/2023 4:05	19:20	0.1	0.54	TR12	4.16	No	Very small rainfall event concentrated mostly on Eastern parts of the collection system. The MF WQTC treatment capacity is reduced to 140 MGD.
2023-058	8/3/2023 4:45	8/4/2023 2:55	22:10	0.52	0.71	TR13	76.09	No	Small homogeneous wet weather event. Nightingale and Rowan PS are partially on degraded mode.
2023-060	8/7/2023 1:55	8/9/2023 6:55	53:00	0.96	1.55	TR05	212.71	No	Moderate wet weather event concentrated mostly on Northern and Eastern parts of the collection system. Portland Basin and Rowan PS are partially on degraded mode.
2023-061	8/9/2023 20:40	8/10/2023 10:25	13:45	0.22	0.26	TR13	32.00	No	Small heterogeneous wet weather event concentrated mostly on Northern and Eastern parts of the collection system.
2023-062	8/12/2023 10:40	8/13/2023 8:00	21:20	0.32	0.59	TR14	96.20	No	Small wet weather event concentrated only on the Eastern parts of the collection system. Overflow in CSO20 while only 12% and 32% of Clifton and Logan storage capacity are filled, respectively.
2023-063	8/14/2023 0:35	8/15/2023 4:40	28:05	0.5	0.67	TR04	127.96	No	Small homogeneous wet weather event. Overflow in CSO20 while only 6% and 11% of Clifton and Logan storage capacity are filled, respectively. The MF WQTC is at 40% of its capacity.
2023-065	8/25/2023 18:45	8/28/2023 20:30	73:45	1.11	2.01	TR12	197.08	No	Moderate wet weather event concentrated mostly on central parts of the collection system. Overflow in CSO211 while SOR1 is dewatering. The MF WQTC treatment capacity is reduced to 140 MGD.
2023-067	9/12/2023 18:00	9/13/2023 2:25	8:25	0.06	0.09	TR13	13.46	No	Very small homogeneous rainfall event. The MF WQTC treatment capacity is reduced to 70 MGD.
2023-070	9/27/2023 1:50	9/28/2023 22:50	45:00	0.69	1.1	TR05	93.66	No	Moderate wet weather event concentrated mostly on Northern and North-Eastern parts of the collection system. ROWAN was partially on degraded mode and the MF WQTC treatment capacity is reduced to 150 MGD. Dewatering in SOR1 while overflow in CSO211. Dewatering in SOBA Basin while overflow in CSO16.
2023-071	9/28/2023 22:55	9/29/2023 8:20	9:25	0.08	0.08	TR11	3.20	No	Wet weather event recorded only by TR11-NORTHERN DITCH PS.



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2023-072	10/5/2023 15:25	10/6/2023 4:20	12:55	0.26	0.3	TR04	16.87	No	Small wet weather event homogeneously distributed over the collection system.
2023-075	10/19/2023 14:05	10/20/2023 15:20	25:15	0.58	0.62	TR13	56.19	No	Moderate rainfall event distributed mostly on Eastern parts of the collection system. The MF WQTC treatment capacity is reduced to 150 MGD.
2023-077	10/28/2023 2:50	11/1/2023 8:20	101:30	1.65	2.21	TR04	297.74	No	Moderate wet weather event concentrated mostly on Northern parts of the collection system. ROWAN PS is partially on degraded mode. The MF WQTC treatment capacity is reduced to 140 MGD.
2023-079	11/20/2023 23:10	11/23/2023 3:00	51:50	0.94	1.11	TR11	146.12	No	Moderate rainfall event over the collection system. Southwestern Sluice Gate was on degraded mode over the event. The MF WQTC treatment capacity is reduced to 120 MGD.
2023-082	12/4/2023 10:55	12/4/2023 19:45	8:50	0.14	0.19	TR14	27.03	No	Small wet weather event, distributed homogeneously over the collection system. The MF WQTC treatment capacity is reduced to 140 MGD. On November 28, a survey was performed for the Flodar between MDS and MFWQTC, where G1 is shut off and the SWI dam is inflated.
2023-084	12/9/2023 9:55	12/12/2023 16:00	78:05	0.83	1.43	TR15	130.95	No	Moderate wet weather event concentrated mostly on Eastern parts of the collection system. Logan and Rowan PS are partially on degraded mode. MF WQTC treatment capacity is reduced to 140 MGD.
2023-085	12/16/2023 20:00	12/17/2023 11:25	15:25	0.28	0.37	TR15	30.59	No	Small rainfall event concentrated mostly on the Eastern parts of the collection system. MF WQTC treatment capacity is reduced to 140 MGD.
2023-088	12/25/2023 9:30	12/26/2023 8:20	22:50	0.43	0.53	TR04	101.62	No	Moderate wet weather event concentrated mostly on Central parts of the collection system. The MF WQTC treatment capacity is reduced to 140 MGD.
2024-001	1/6/2024 3:40	1/6/2024 22:50	19:10	0.42	0.46	TR12	85.67	No	Small wet weather event homogeneously distributed over the collection system. The MF WQTC treatment capacity is reduced to 140 MGD.
2024-002	1/8/2024 22:20	1/12/2024 6:15	79:55	1.68	1.93	TR04	413.19	No	A very long moderate Wet Weather event homogeneously distributed over the collection system. Overflow in CSO16 while SOBA Basin is dewatering. The MF WQTC treatment capacity is reduced to 120 MGD.
2024-003	1/12/2024 6:15	1/16/2024 18:10	107:55	1.14	1.39	TR04	426.38	No	Continuation of the previous long moderate Wet Weather event concentrated mostly on Western part of the collection system. The MF WQTC treatment capacity is reduced to 120 MGD.
2024-005	1/23/2024 8:40	1/25/2024 15:05	54:25	1.38	1.6	TR11	243.78	No	Moderate wet weather event homogeneously distributed over the collection system. The MF WQTC treatment capacity is reduced to 120 MGD.
2024-006	1/25/2024 15:05	1/27/2024 12:40	45:35	0.34	0.49	TR15	254.19	No	Moderate wet weather event (continuation of the previous event) concentrated mostly on the Eastern part of the collection system. The CSO16 overflows over the whole event while only 63% and 53% of the WO and SOBA capacity is used. The MF WQTC treatment capacity is reduced to 120 MGD.

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EVENT NUMBER	START DATE	END DATE	DURATION (H:MIN)	AVG TRFD (IN)	MAX TRFD (IN)	MAX RAIN GAUGE	TOTAL (MG)	HIGH RIVER LEVELS	DESCRIPTION
2024-007	1/27/2024 12:40	2/3/2024 4:15	159:35	0.95	1.13	TR14	575.05	Yes	Moderate wet weather event heterogeneously distributed over the collection system. Connection lost on January 29, 11:50 in all sites. The MF WQTC treatment capacity is reduced to 120 MGD.
2024-008	2/10/2024 4:15	2/14/2024 13:30	105:15	0.47	0.58	TR11	106.37	No	Small wet weather event homogeneously distributed over the collection system. Overflow in CSO20 while only 12-13% of the capacity of Logan and Clifton was used. MF-WQTC treatment capacity was reduced once to 90 MGD and then to 80 MGD.
2024-009	2/22/2024 12:10	2/23/2024 11:10	23:00	0.5	0.75	TR04	108.29	No	Moderate wet weather event concentrated mostly on South-East and partially North-West of the collection system. Overflow in CSO20 while only 3-4% of the capacity of Logan and Clifton was used. Also CSO016 registered a flow at approximately 12.3 feet 418.14 Elevation, while based on the observations CSO016 was not active when reading flow. Shawnee Basin was 100% on degraded mode.
2024-010	2/27/2024 5:45	2/27/2024 17:20	11:35	0.29	0.78	TR14	49.23	No	Small heterogeneous wet weather event. CSO016 recorded an overflow while the capacity of Shawnee Basin was not used at all. Shawnee Basin is on degraded mode over the event.
2024-011	2/28/2024 3:50	2/28/2024 17:45	13:55	0.23	0.4	TR14	55.27	No	Small heterogeneous wet weather event concentrated mostly on Southern parts of the collection system. CSO016 recorded an overflow while the capacity of Shawnee Basin was not used at all. Shawnee Basin was still on degraded mode over the event.
2024-013	3/5/2024 7:10	3/8/2024 3:15	68:05	0.74	1.13	TR15	242.34	No	Moderate wet weather event concentrated mostly on Eastern parts of the collection system. Shawnee Basin was still on degraded mode over the event and its capacity was not used at all.
2024-014	3/8/2024 3:15	3/14/2024 22:40	162:25	0.55	1.18	TR04	309.89	No	Moderate rainfall event concentrated on the Western and North-Western parts of the collection system.
2024-015	3/14/2024 23:00	3/19/2024 6:55	103:55	0.45	0.63	TR14	245.35	No	Small wet weather event heterogeneously distributed over the collection system.
2024-018	4/2/2024 7:30	4/3/2024 11:40	28:10	0.82	1.12	TR05	130.65	No	Moderate wet weather event distributed mostly on the upper half of the collection system.
2024-019	4/3/2024 11:40	4/6/2024 7:10	67:30	0.08	0.17	TR11	129.67	Yes	Very small rainfall event (continuation of the previous event) distributed homogeneously over the collection system.
2024-021	4/9/2024 9:00	4/9/2024 21:05	12:05	0.13	0.24	TR15	1.50	Yes	Small rainfall event distributed mostly on Southern and Eastern parts of the collection system.
2024-022	4/10/2024 7:30	4/13/2024 18:05	82:35	1.54	1.84	TR13	358.21	Yes	Large wet weather event homogeneously distributed over the collection system.
2024-023	4/13/2024 18:05	4/16/2024 0:05	54:00				79.96	Yes	Very small rain event (continuation of the previous event) recorded by the rain gauges on the Western parts of the collection system.
2024-024	4/16/2024 0:05	4/16/2024 23:00	22:55	0.11	0.22	TR12	69.95	Yes	Very small wet weather event on the Central and North parts of the collection system.
2024-025	4/17/2024 2:30	4/18/2024 9:55	31:25	0.39	0.54	TR04	120.63	Yes	Small wet weather event concentrated mostly on Eastern parts of the collection system.



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2024-026	4/19/2024 0:15	4/21/2024 8:40	56:25	0.51	0.61	TR14	176.77	Yes	Small homogenous wet weather event.
2024-028	4/29/2024 18:15	5/2/2024 1:15	55:00	0.64	0.75	TR13	167.62	No	Moderate wet weather event distributed mostly on Western parts of the collection system.
2024-029	5/3/2024 3:05	5/5/2024 0:50	45:45	0.66	1	TR14	204.96	No	Moderate wet weather event heterogeneously distributed over the collection system.
2024-030	5/5/2024 0:50	5/6/2024 3:20	26:30	0.14	0.49	TR11	72.08	No	Small wet weather event (continuation of the previous event) distributed mostly on Western parts of the collection system.
2024-031	5/6/2024 3:20	5/12/2024 21:00	161:40	1.55	2.34	TR14	704.88	No	Moderate wet weather event homogeneously distributed over the collection system.
2024-032	5/14/2024 9:45	5/16/2024 2:35	40:50	0.45	0.61	TR11	94.46	No	Small wet weather event heterogeneously distributed over the collection system.
2024-033	5/17/2024 7:10	5/17/2024 23:50	16:40	0.25	0.45	TR04	61.58	No	Small rainfall event distributed homogeneously over the collection system.
2024-034	5/22/2024 19:45	5/25/2024 4:55	57:10	1.18	1.61	TR13	291.78	No	Large heterogeneous wet weather event concentrated mostly on central line of the collection system. The Rain Gauge TR06 recorded a 6.1 inch value which is significantly higher than the value recorded by the sensors in its neighborhood.
2024-035	5/25/2024 4:55	5/26/2024 12:00	31:05	0.26	0.35	TR04	63.87	No	Small rain event distributed (continuation of the previous event) mostly on the Southern and Western parts of the collection system.
2024-036	5/26/2024 12:00	5/30/2024 0:55	84:55	0.88	1.21	TR04	343.68	No	Moderate wet weather event homogeneously distributed over the collection system. The Rain gauge TR38-OLDHAM COUNTY HS recorded an out-of-range value. Lost communication on May 26 from 19:00 to 19:55, resulting in missing retention volume data in ROWAN, MDS, SOR1, POBA, and SOBA.
2024-037	6/1/2024 15:30	6/2/2024 1:25	9:55	0.12	0.16	TR13	19.49	No	Very small homogeneous wet weather event.
2024-038	6/2/2024 12:55	6/3/2024 5:25	16:30	0.2	0.54	TR12	58.41	No	Small wet weather event concentrated mostly on the central parts of the collection system.
2024-039	45447.5174	45448.8611	32:15	0.32	0.76	TR05	142.93	No	Small wet weather event heterogeneously distributed over the collection system. Missing data in MDS R1 retention volume over 3 separate periods.
2024-040	45448.8611	45450.2361	33:00	0.08	0.2	TR12	33.29	No	Very small wet weather event heterogeneously distributed over the collection system.
2024-044	45468.75	45472.3924	87:25	1.17	2.23	TR13	324.14	No	Large rainfall event concentrated mostly on the North-Eastern parts of the collection system.
Total									57

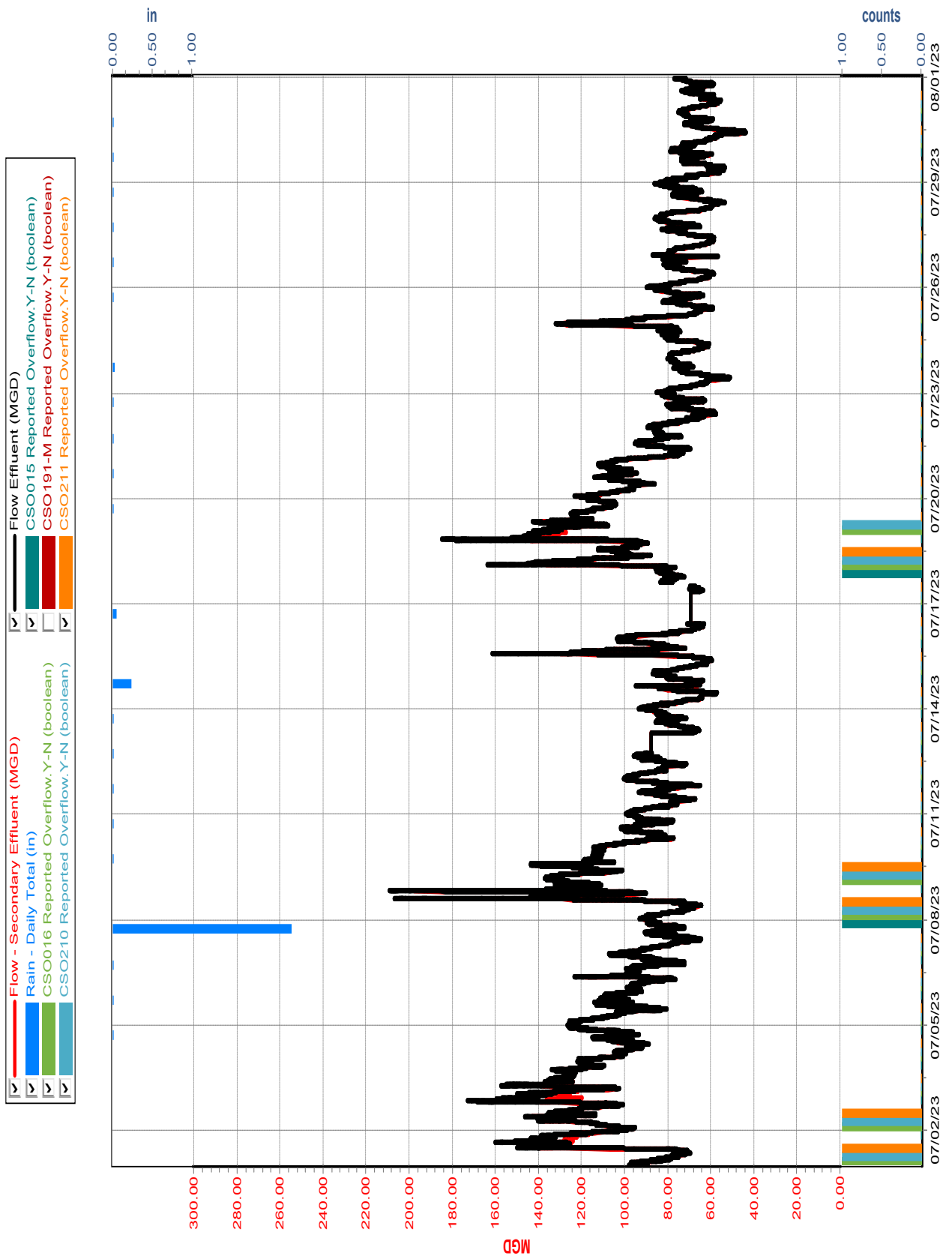


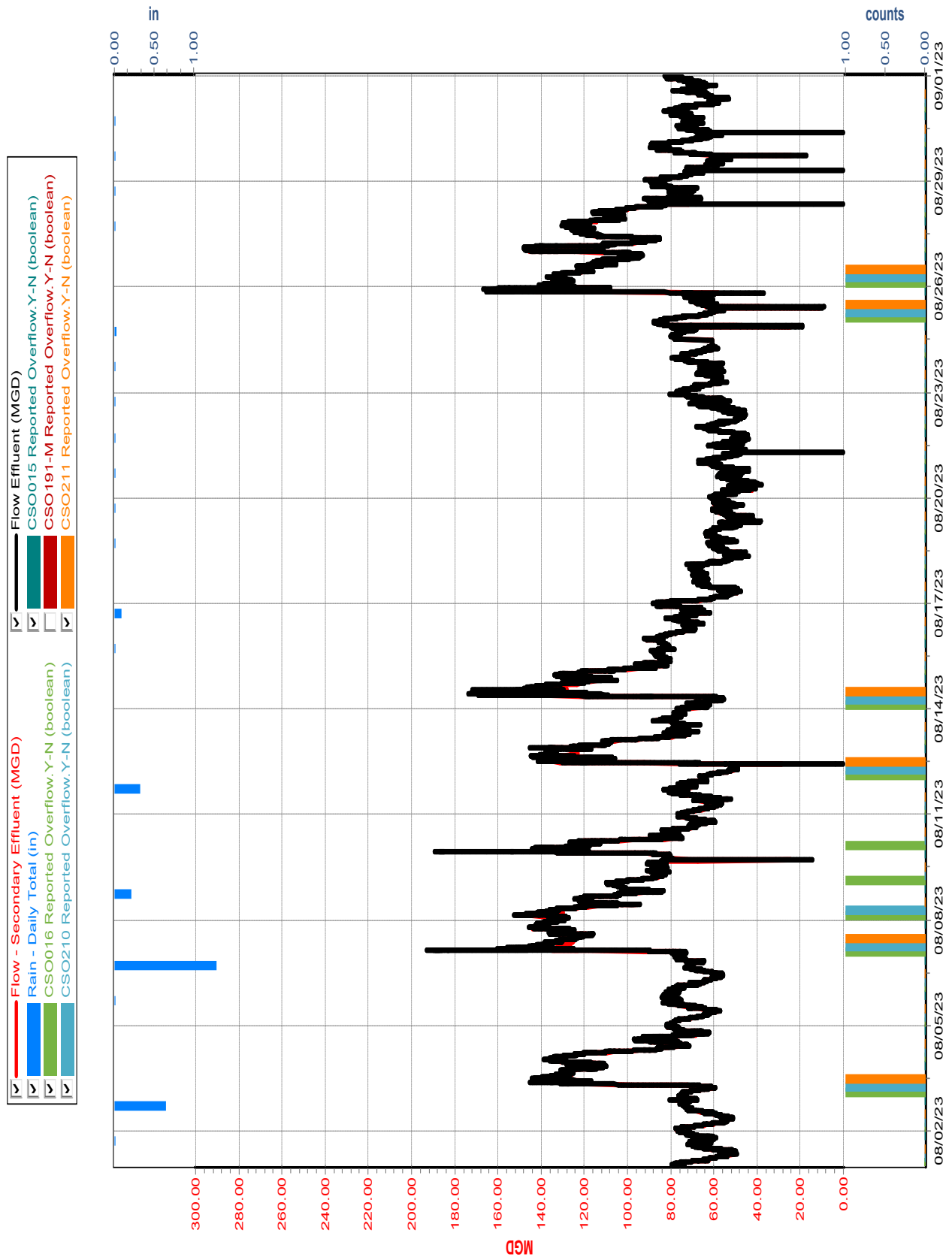
APPENDIX K

**MORRIS FORMAN PLANT FLOWS AND ASSOCIATED
CSO ACTIVATIONS**

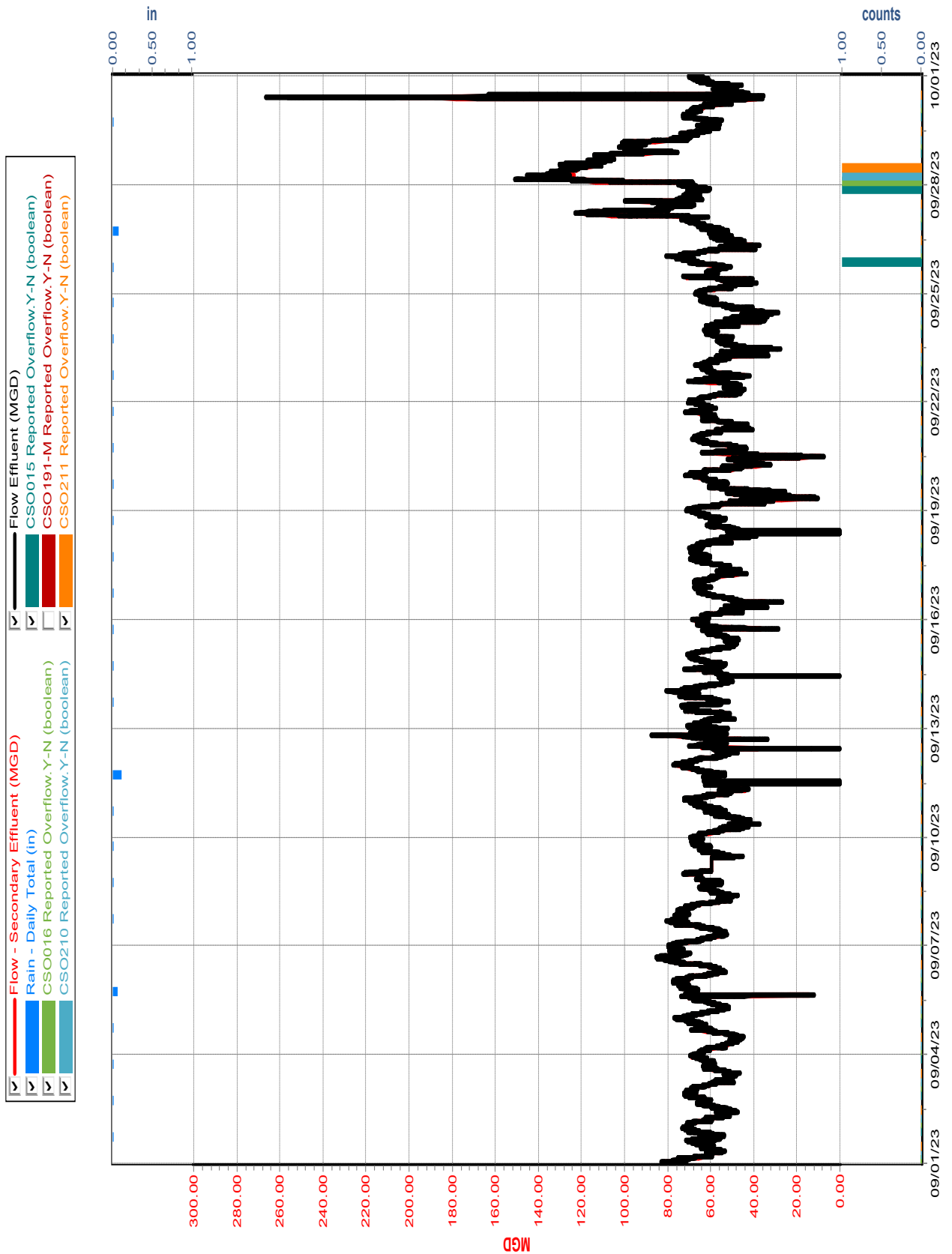
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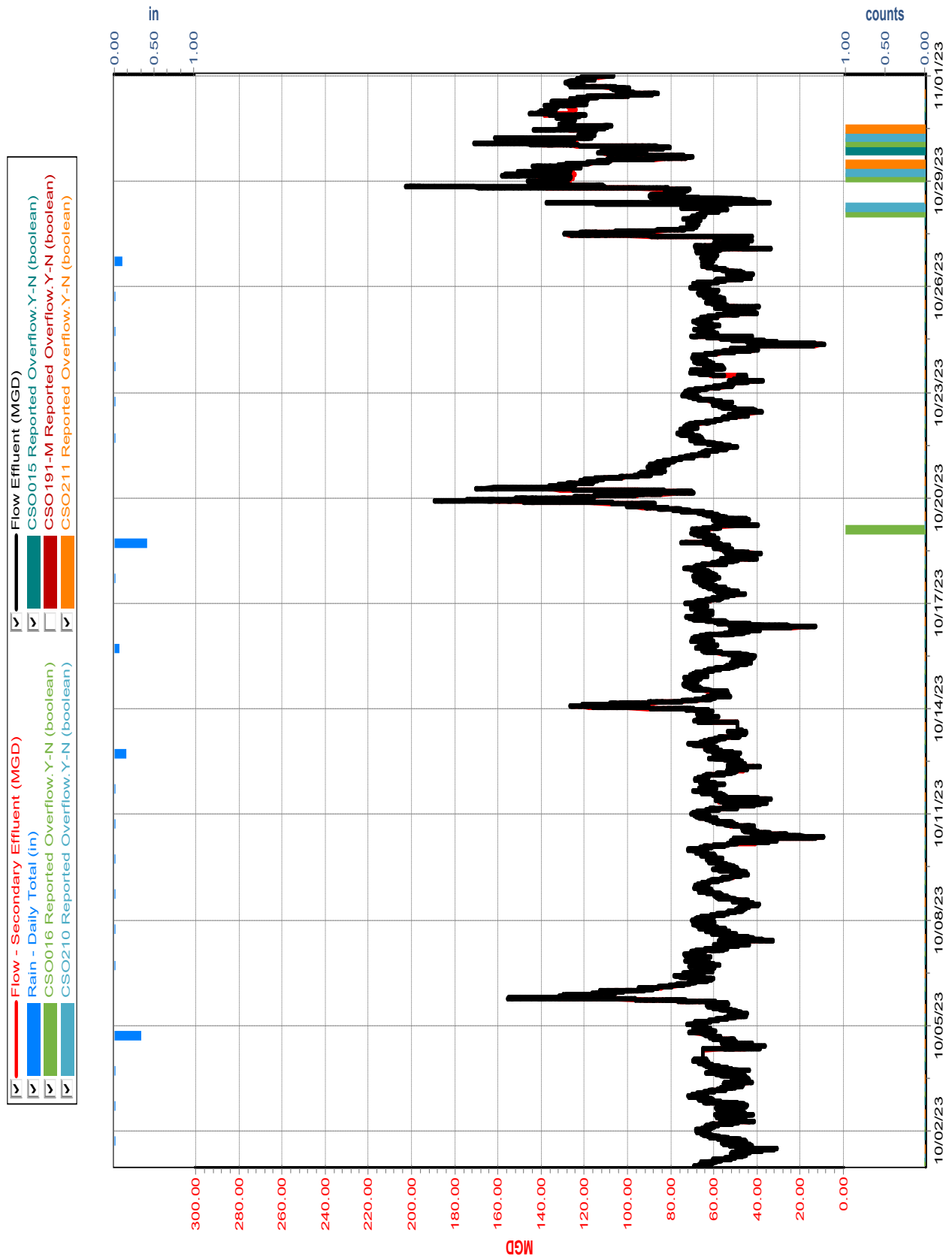
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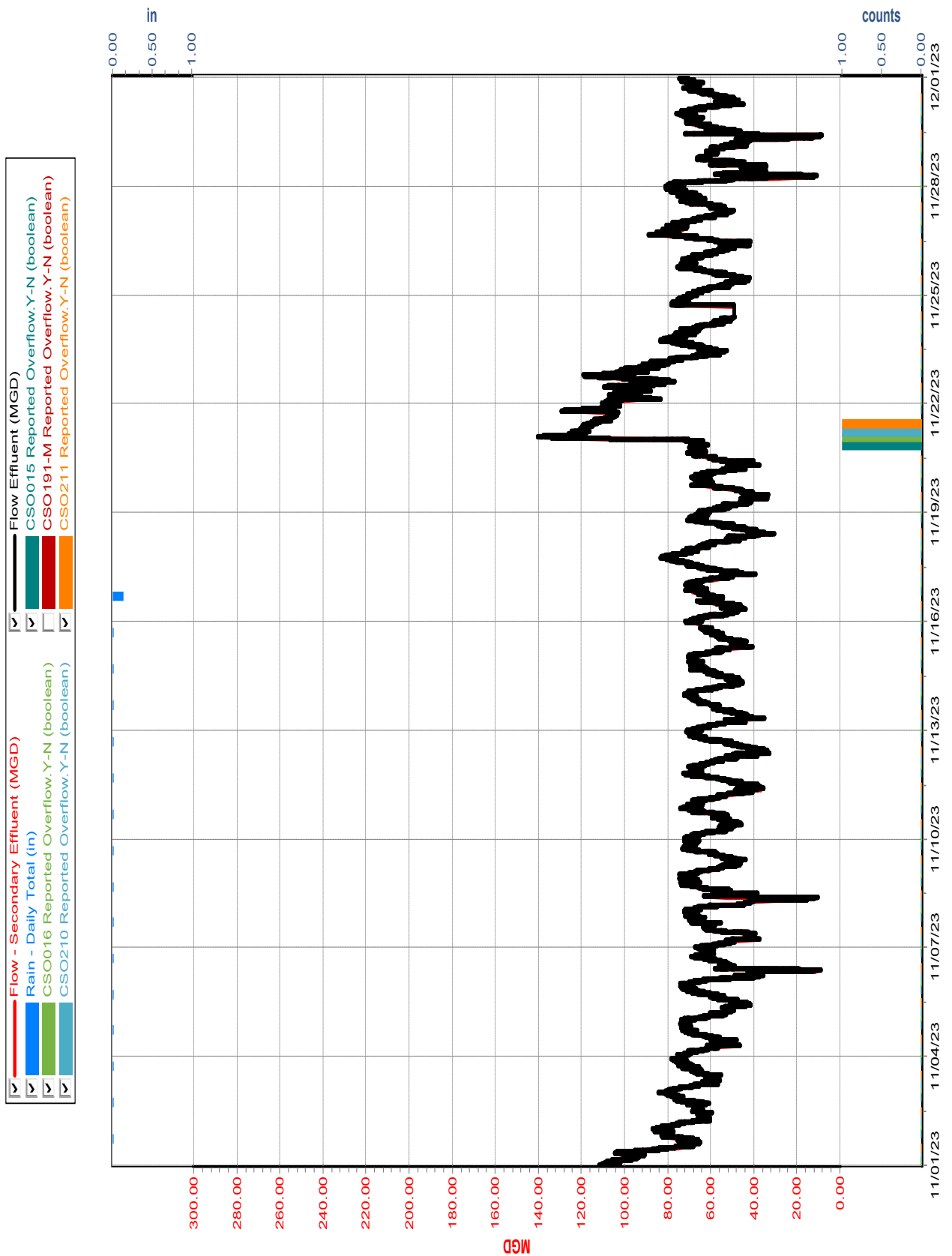


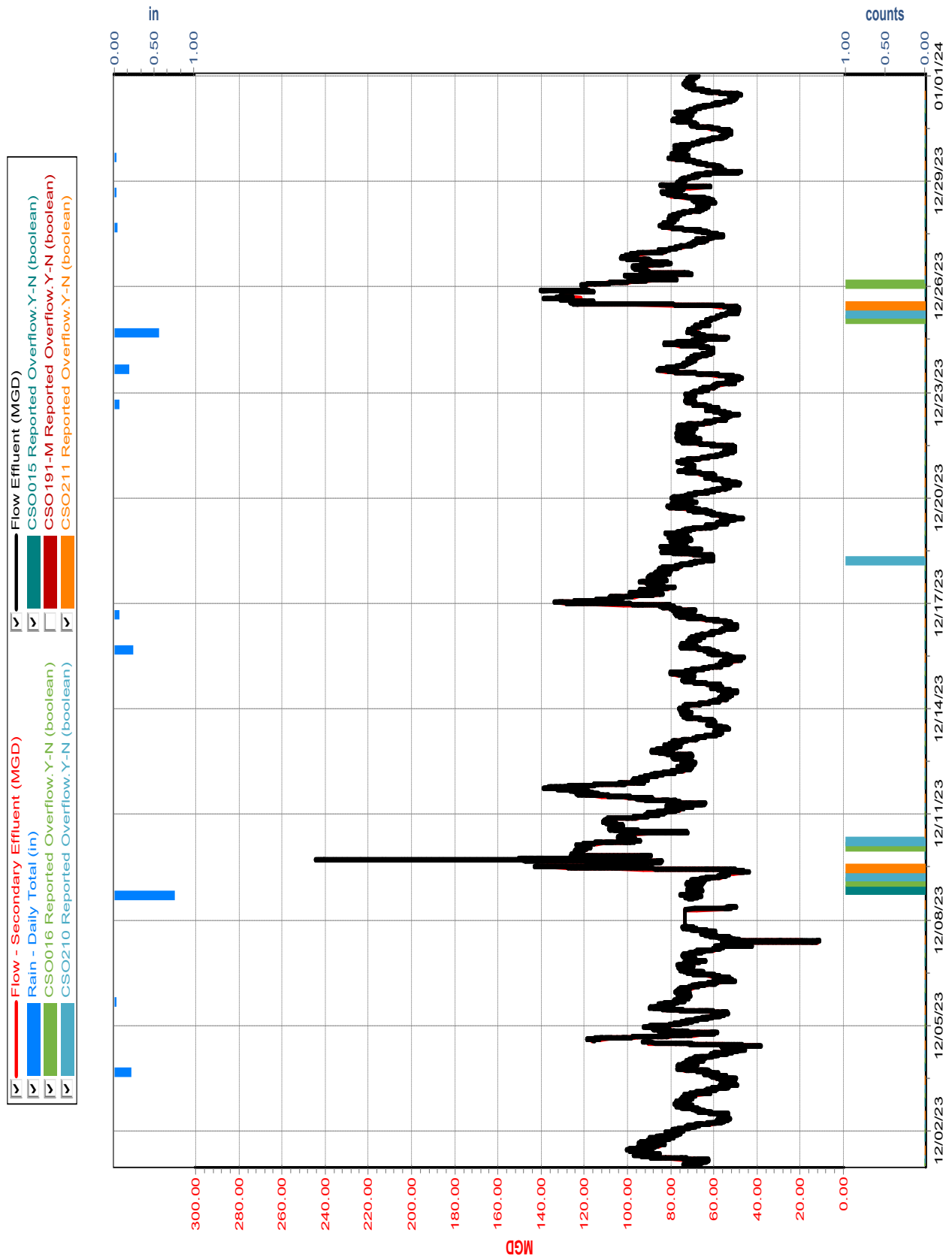


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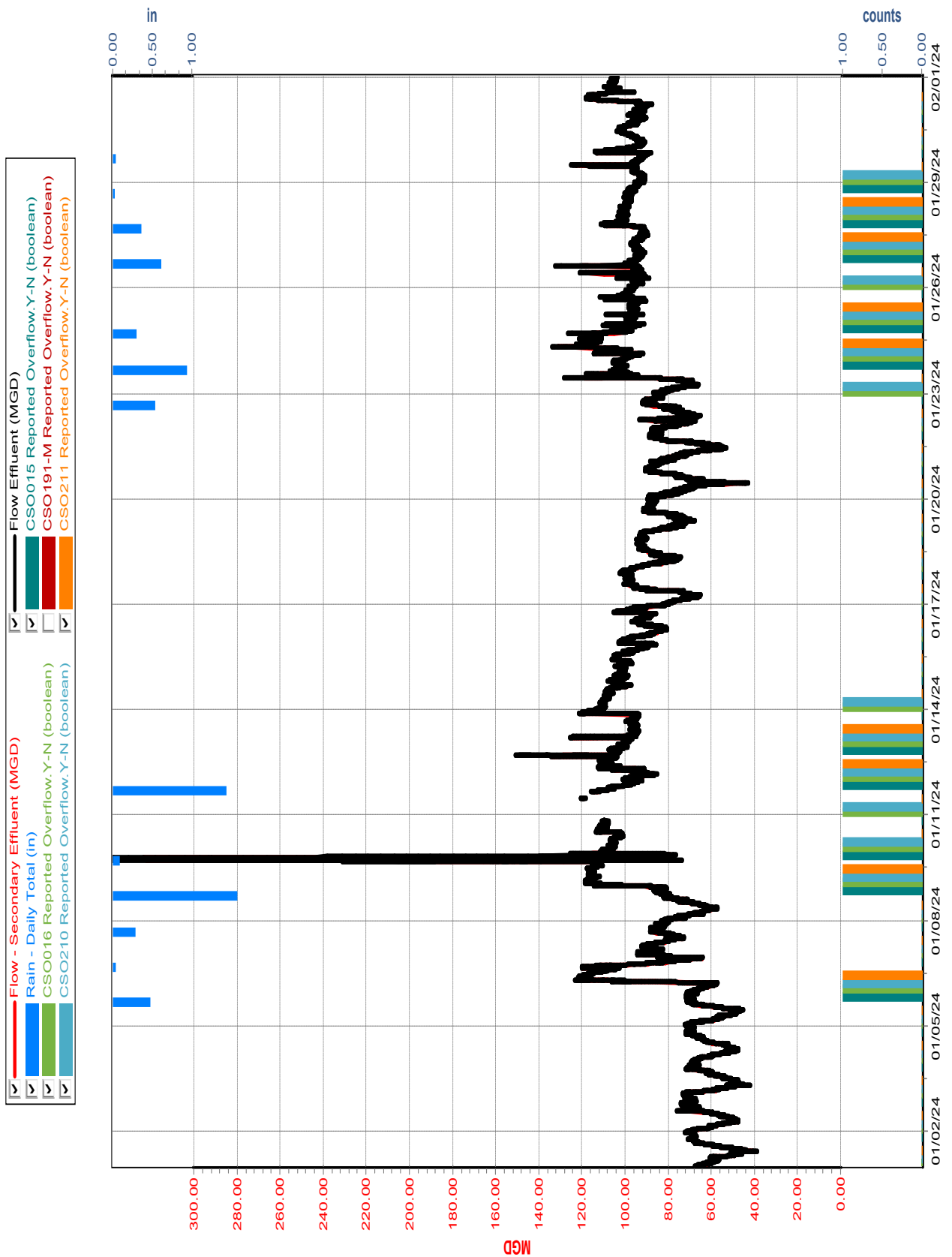


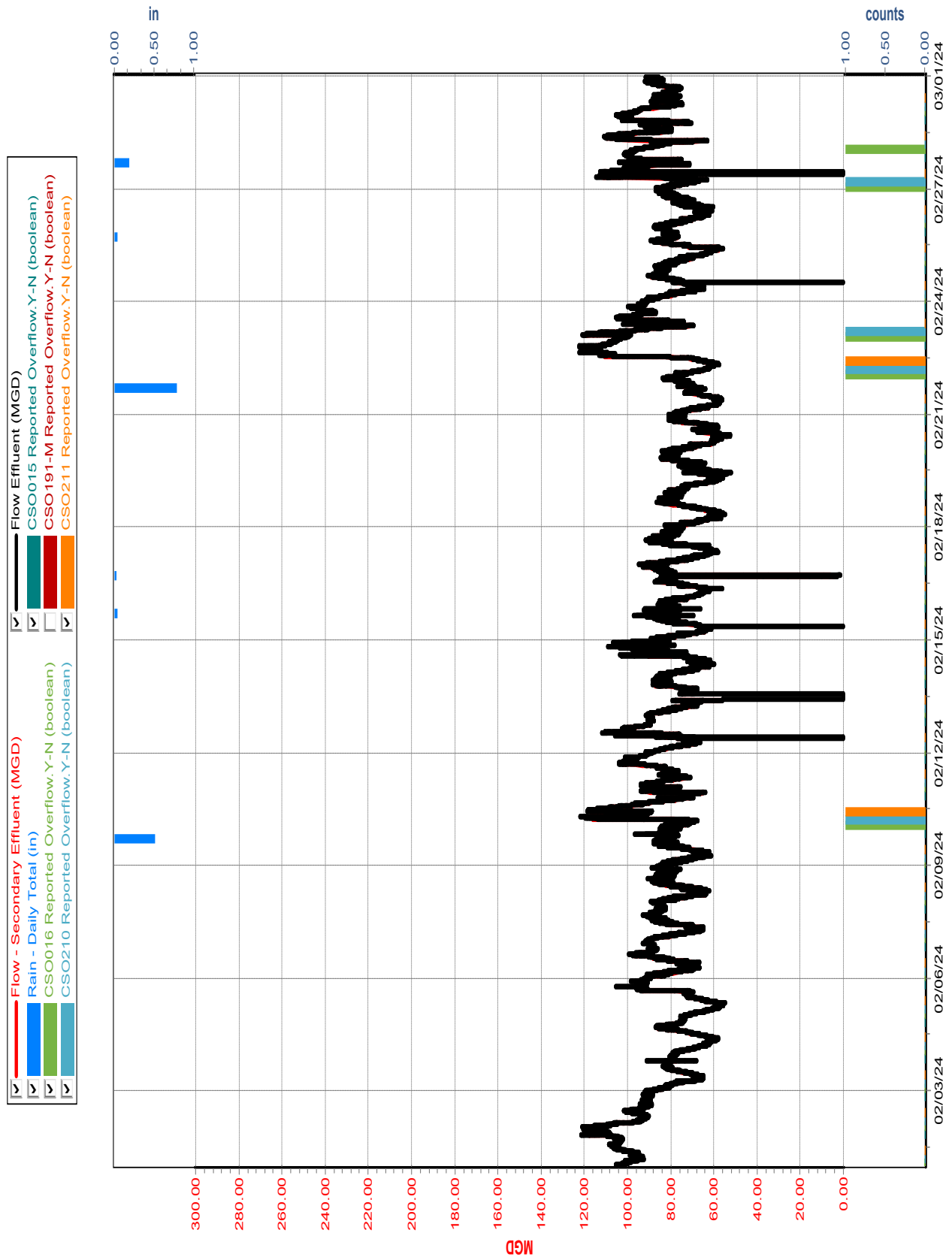


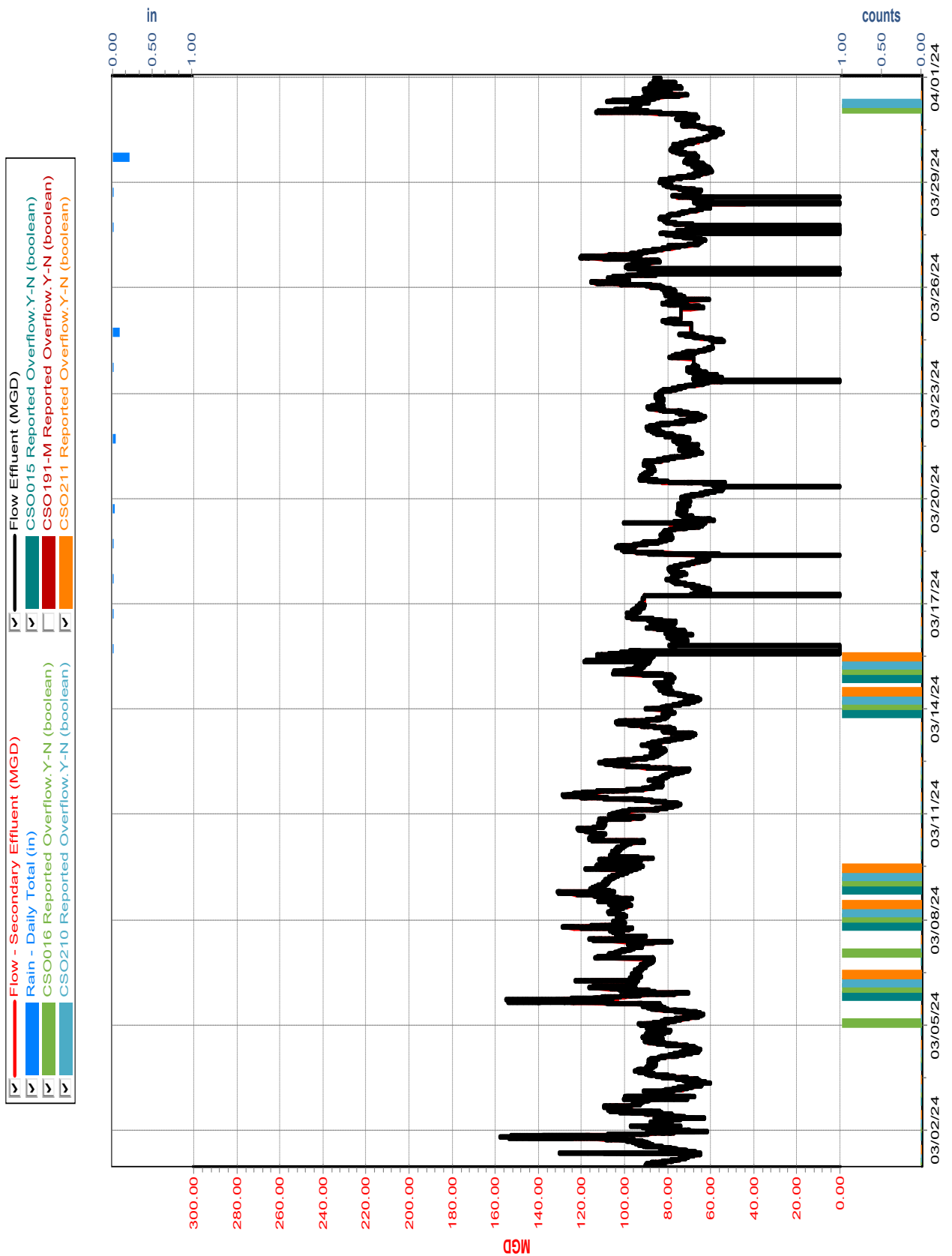


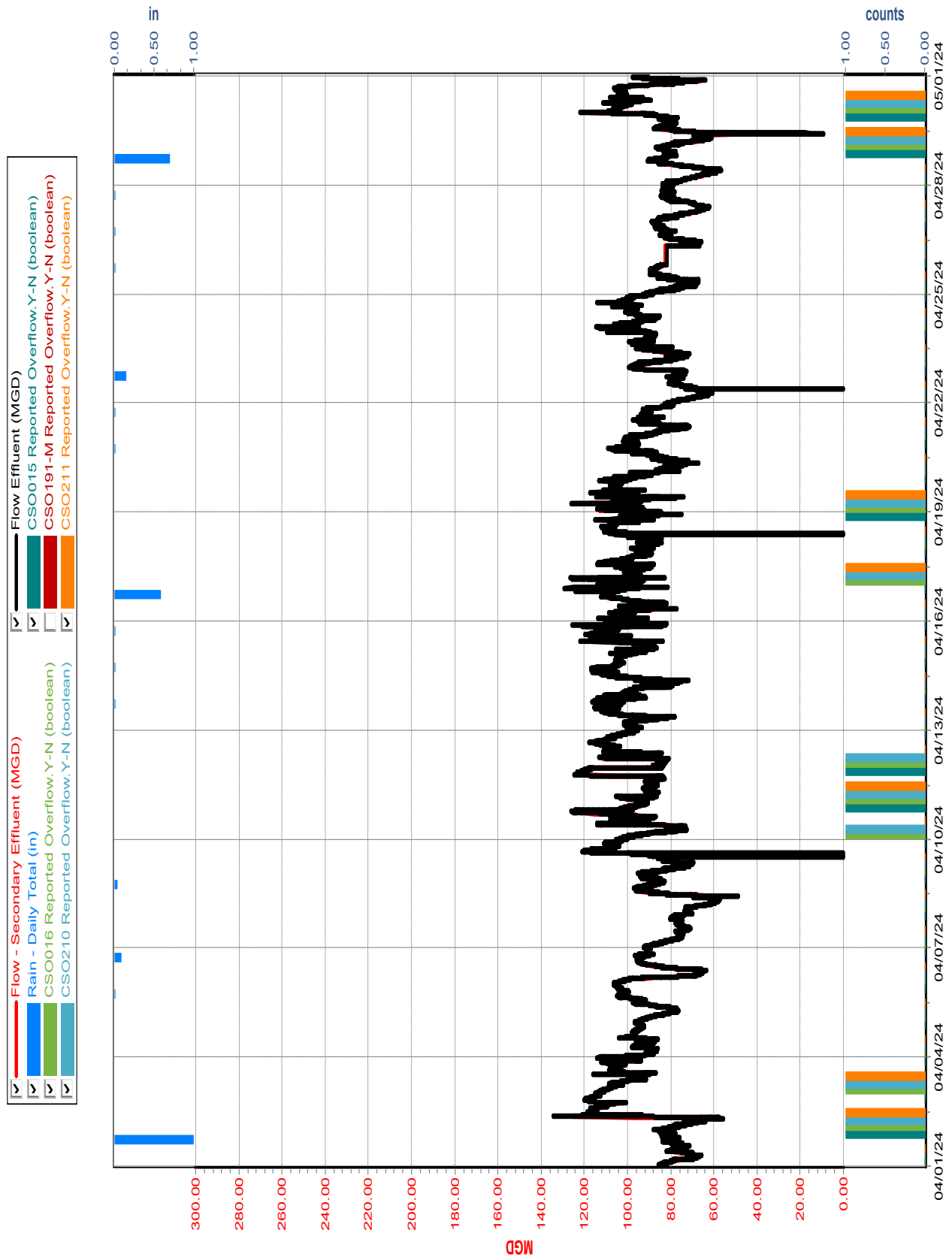


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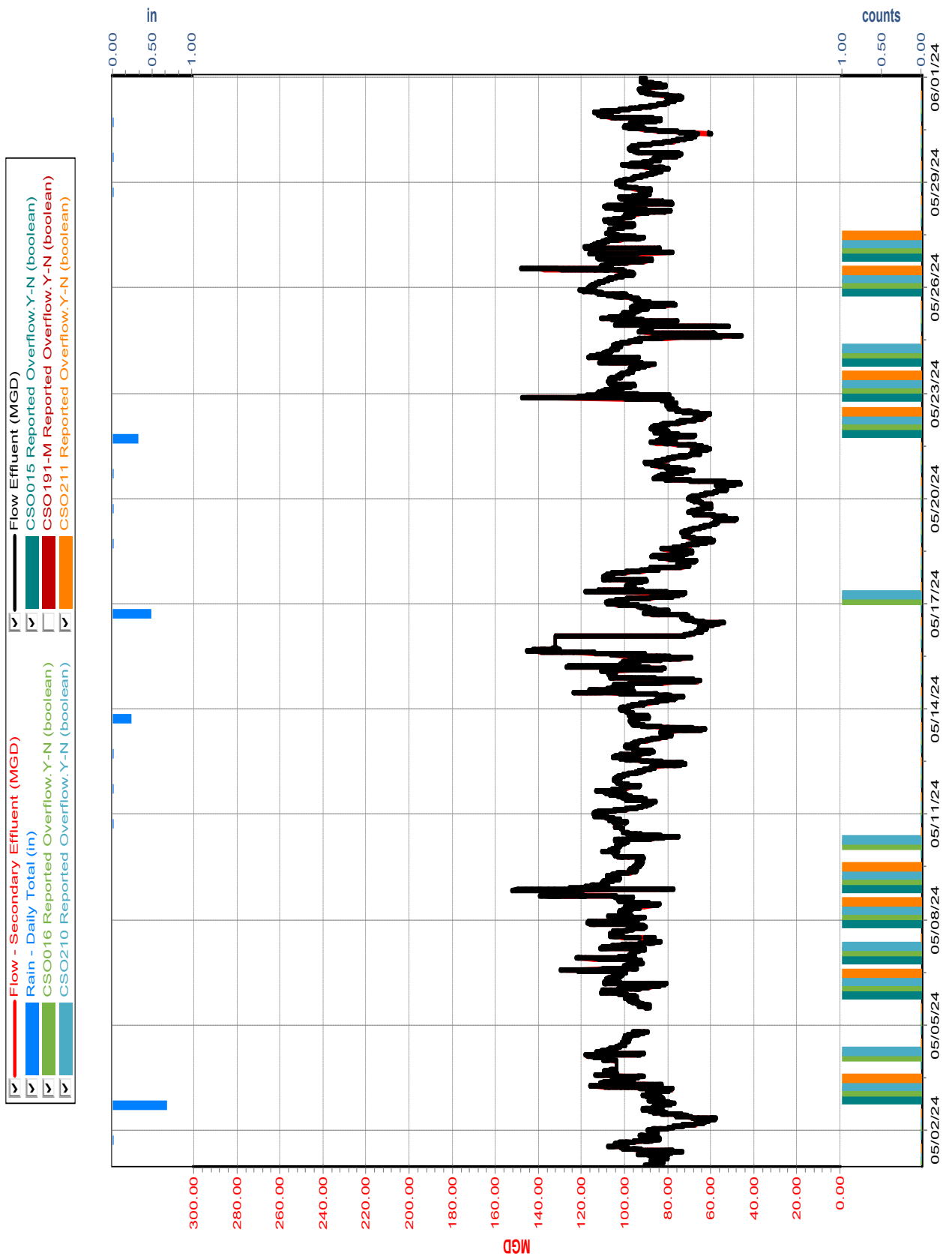


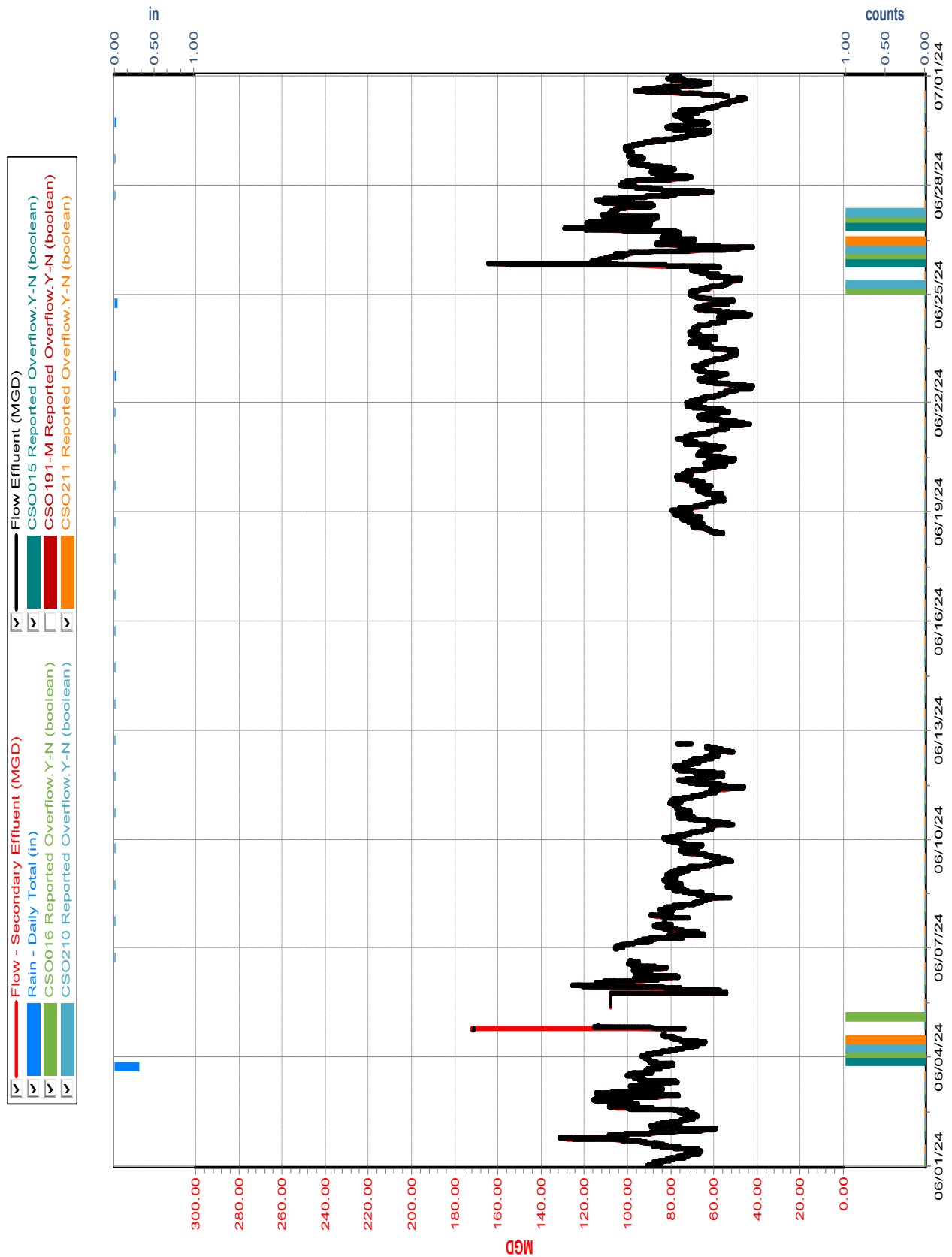






SECOND AMENDED CONSENT DECREE
 ANNUAL REPORT FY24
 JULY 1, 2023 - JUNE 30, 2024







APPENDIX L

ORGANIZATIONAL CHART

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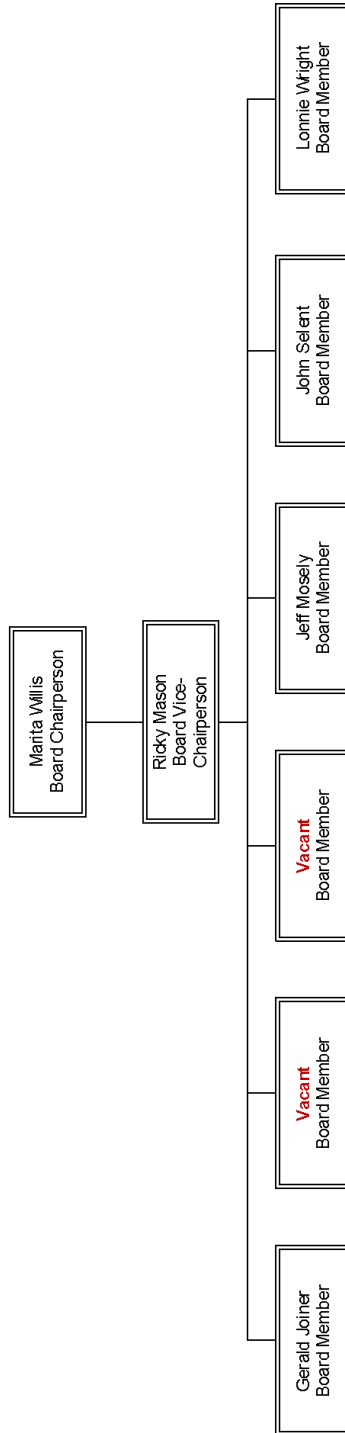
Louisville and Jefferson County
Metropolitan Sewer District

Organizational Chart
Effective 07/01/2024

Organizational Summary

	<u>Total</u>	<u>Current</u>	<u>Vacant</u>	<u>New/Unbudgeted</u>	<u>Exempt</u>	<u>Non-</u>	<u>Union</u>	<u>Net</u>
	<u>Positions</u>	<u>Actual</u>	<u>(Budgeted)</u>	<u>(Vacant)</u>	<u>Exempt</u>	<u>Exempt</u>		<u>Overbudget</u>
Executive Offices Division								
Executive Offices	9	9	0	0	8	1	0	0
Innovation, Customer Relations and Dispatch Government & Public Affairs	24	22	2	0	7	17	0	0
Records and Information Governance	7	7	0	0	4	3	0	0
Equity and Community Partnerships	10	7	3	0	4	6	0	0
Facilities, Safety and Security Division								
Supply Chain and Economic Inclusion Division	43	31	12	0	17	26	0	0
Legal Division								
Human Resources Division	27	24	3	0	13	14	0	0
Information Technology Division	11	9	2	0	11	0	0	0
Finance Division	23	21	2	0	18	5	0	0
Engineering Division								
Eng Admin, Reg Compliance, Records & GIS	33	31	2	0	28	5	0	0
Engineering Technical Services	23	21	2	0	11	12	0	0
Development & Stormwater Services	17	17	0	0	10	7	0	0
Operations Division								
Administration	53	47	6	0	33	20	0	0
Collections System and Emergency Response	33	30	3	0	20	13	0	0
Treatment Maintenance	4	2	2	0	3	1	0	0
Flood Protection - D&FP	57	44	13	0	12	8	37	0
Jefferson Controls	54	47	7	0	7	0	47	0
Treatment Facilities	25	22	3	0	5	0	20	0
Laboratory Services	19	14	5	0	7	12	0	0
Support Services	86	77	9	0	20	8	58	0
Drainage Maintenance and CSO/NMC	14	12	2	0	4	10	0	0
Linear Assets Support	40	38	2	0	11	29	0	0
Jefferson Sanitary	96	87	9	0	10	4	82	0
Fleet Services	44	36	8	0	7	8	29	0
DISTRICT TOTAL	81	69	12	0	11	1	69	0
	23	22	1	0	5	2	16	0
	864.0	753.0	111.0	0.0	293.0	213.0	358.0	0.0

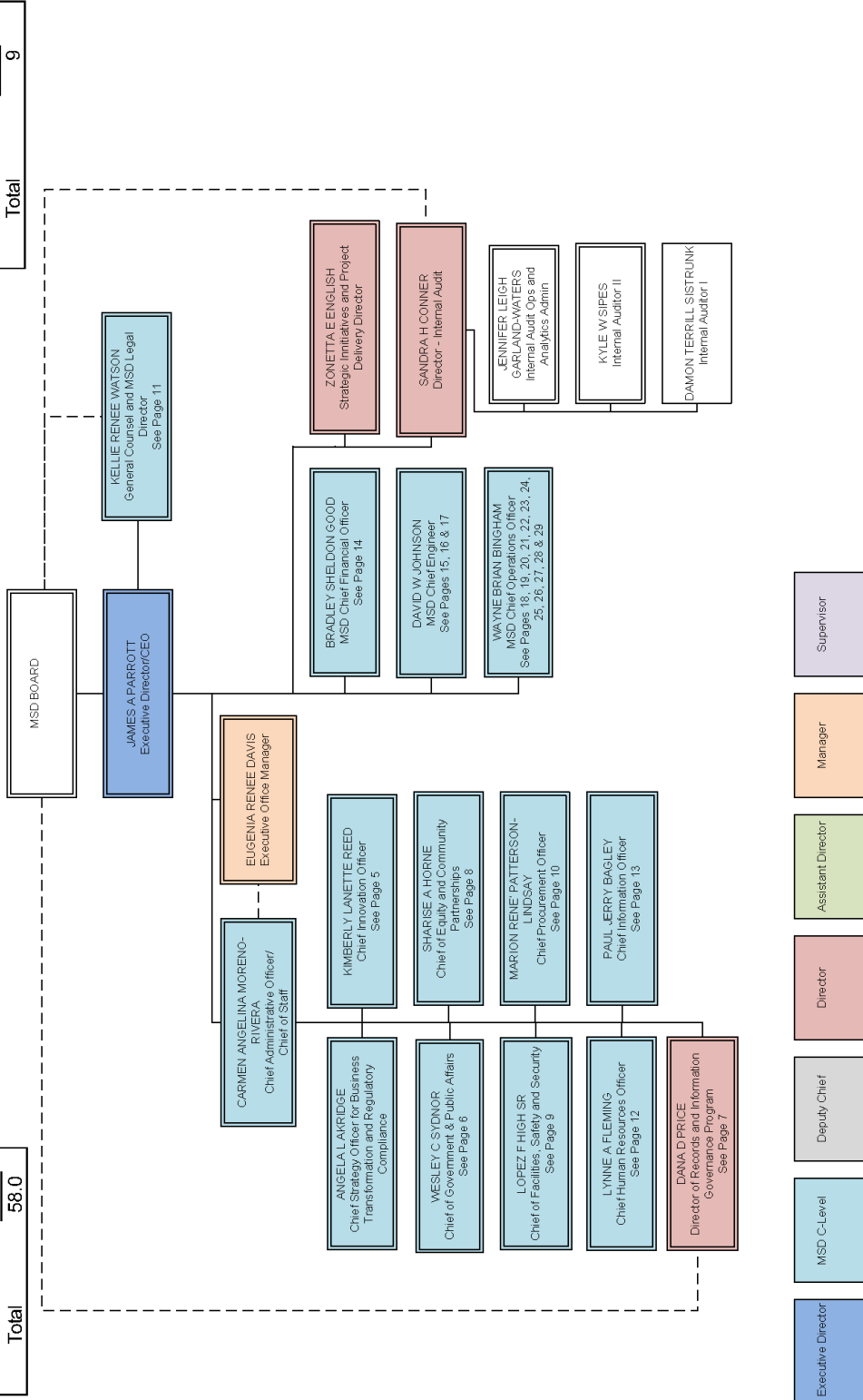
Board Members



**Executive Offices Division
Executive Offices**

DIVISION BUDGET STATUS	
Actual	52.0
Vacant	6.0
Authorized	58.0
Exempt	30.0
Non-Exempt	28.0
Unit	0.0
Total	58.0

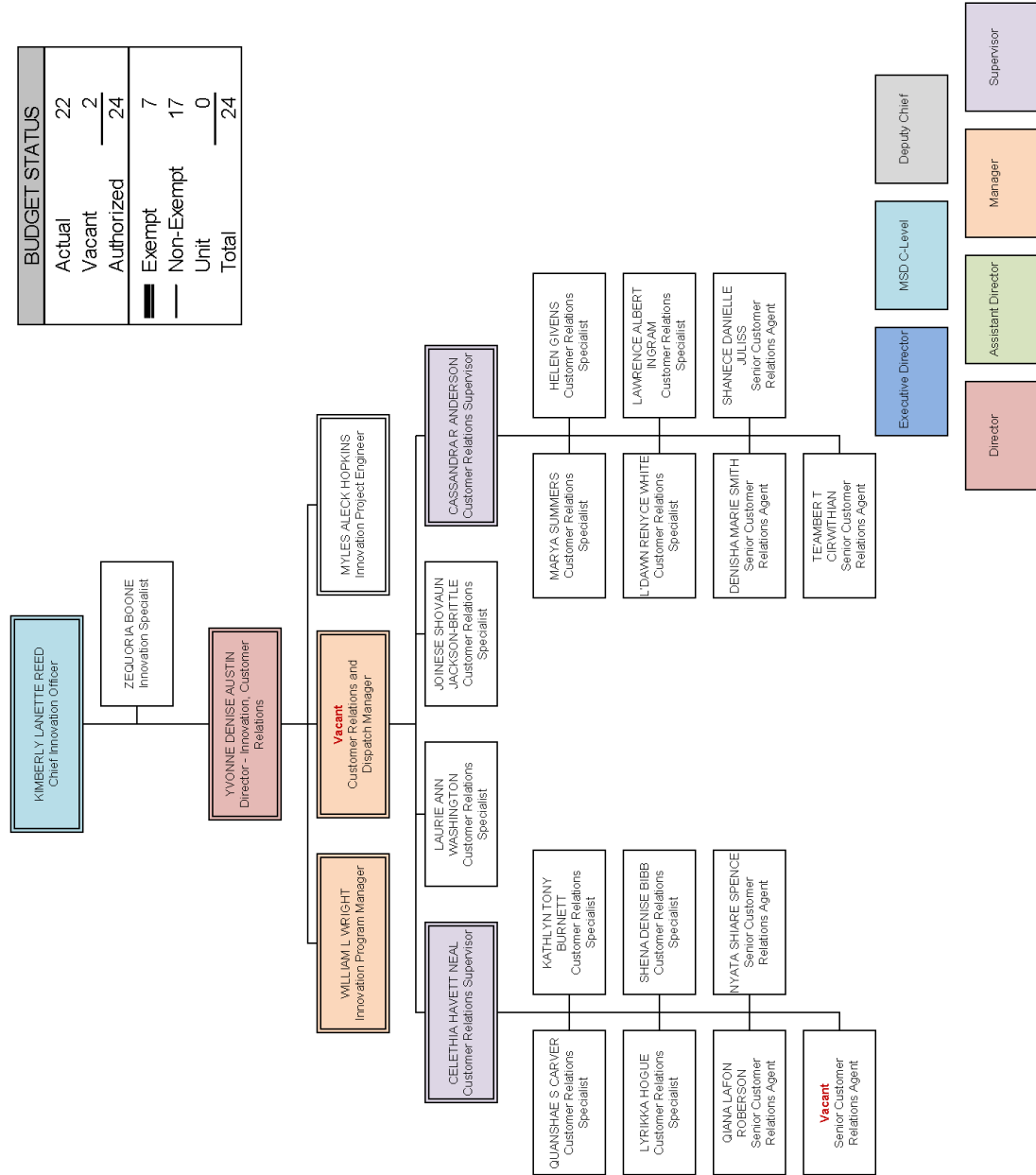
BUDGET STATUS	
Actual	9
Vacant	0
Authorized	9
Exempt	8
Non-Exempt	1
Unit	0
Total	9





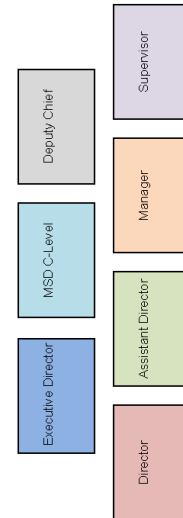
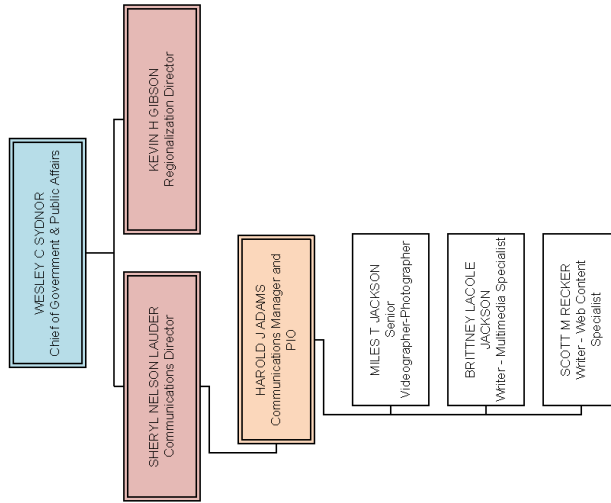
Executive Offices Division Innovation, Customer Relations & Dispatch

BUDGET STATUS	
Actual	22
Vacant	2
Authorized	24
Exempt	7
Non-Exempt	17
Unit	0
Total	24



**Executive Offices Division
Government & Public Affairs**

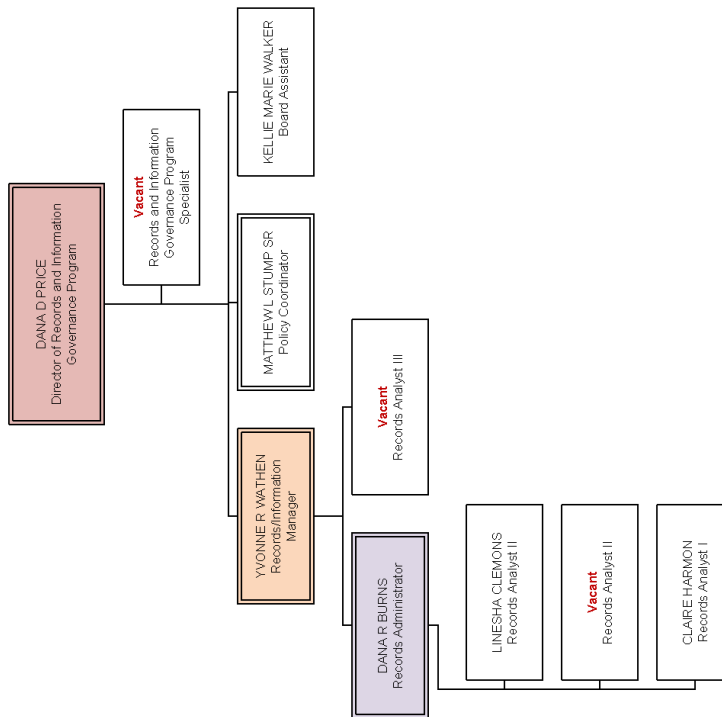
BUDGET STATUS	
Actual	7
Vacant	0
Authorized	7
Exempt	4
Non-Exempt	3
Unit	0
Total	7





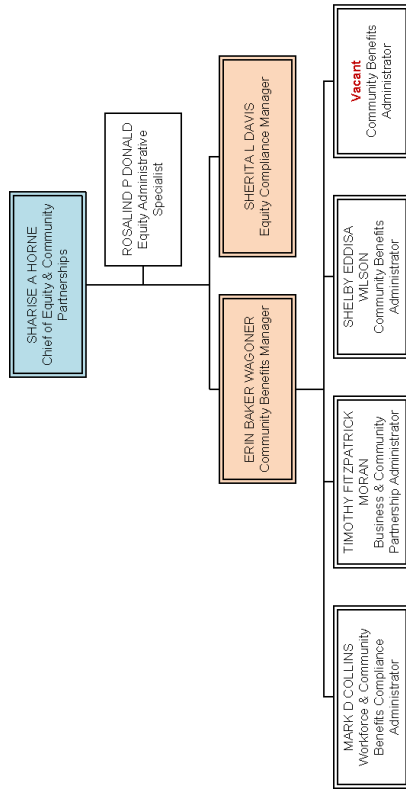
Executive Offices Division Records and Information Governance

BUDGET STATUS	
Actual	7
Vacant	3
Authorized	10
Exempt	4
Non-Exempt	6
Unit	0
Total	10



**Executive Offices Division
Equity and Community Partnerships**

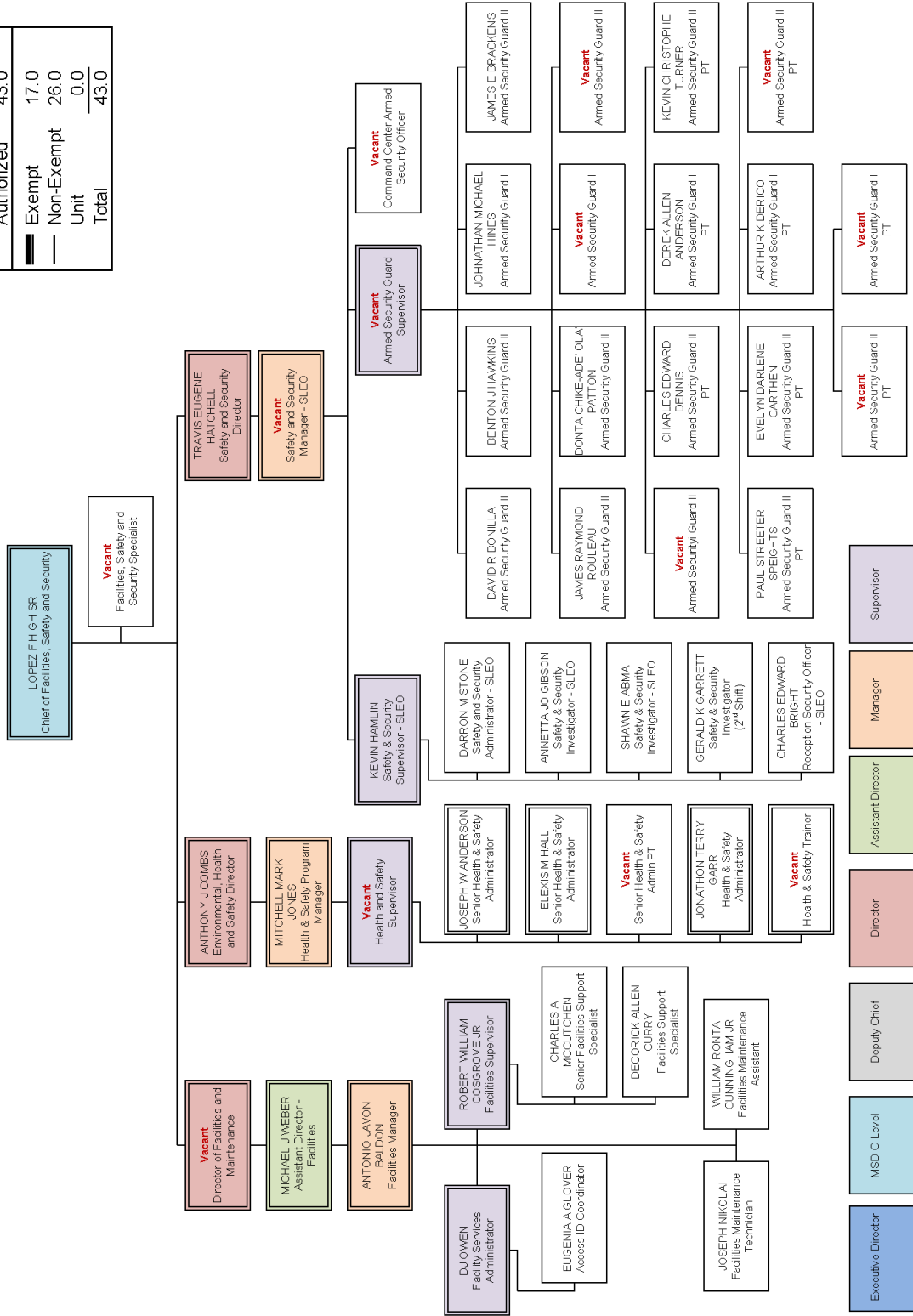
BUDGET STATUS	
Actual	7
Vacant	1
Authorized	8
Exempt	7
Non-Exempt	1
Unit	0
Total	8





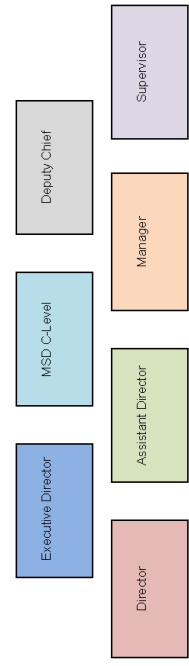
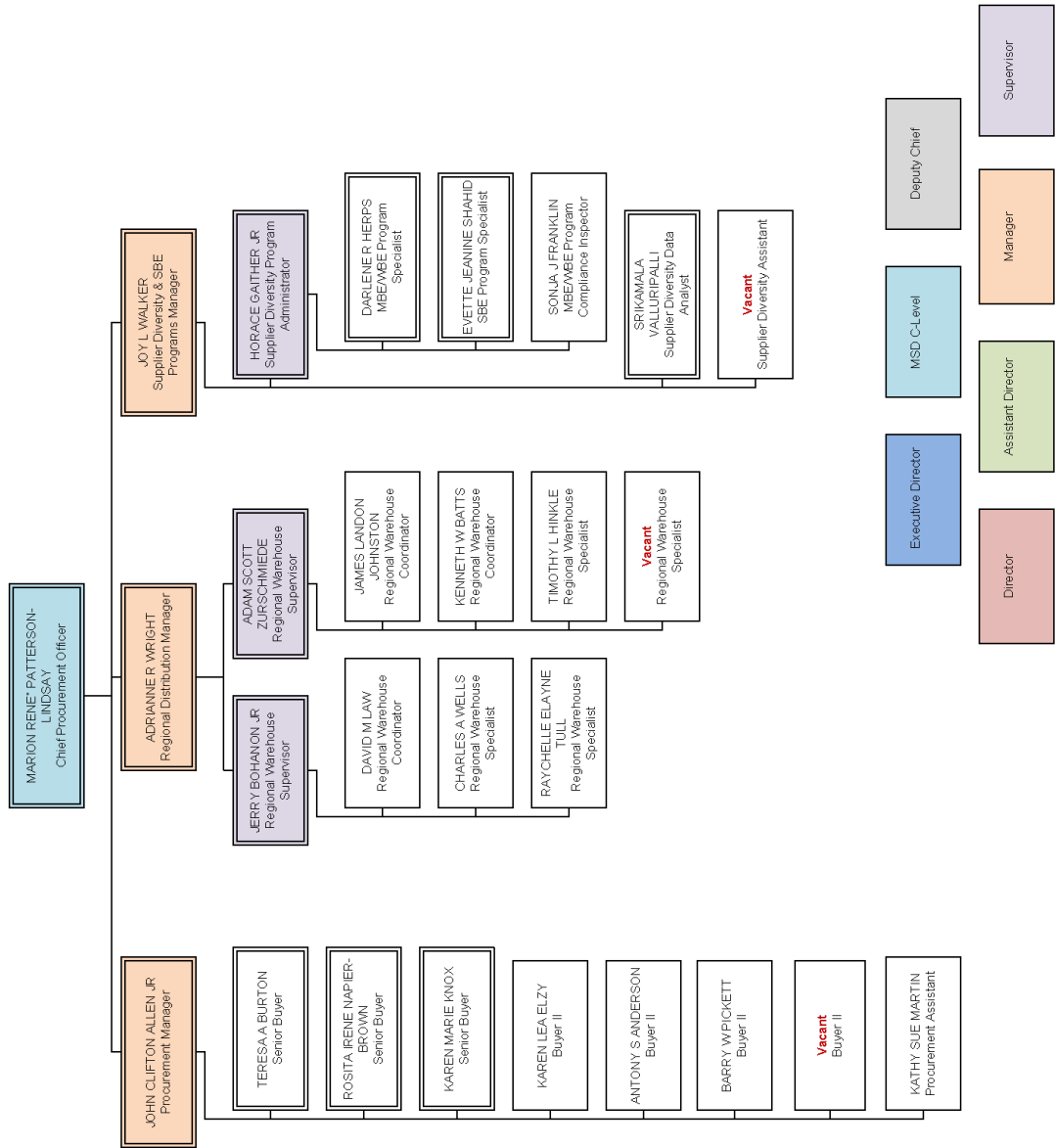
Facilities, Safety and Security Division
 Facilities, Safety & Security

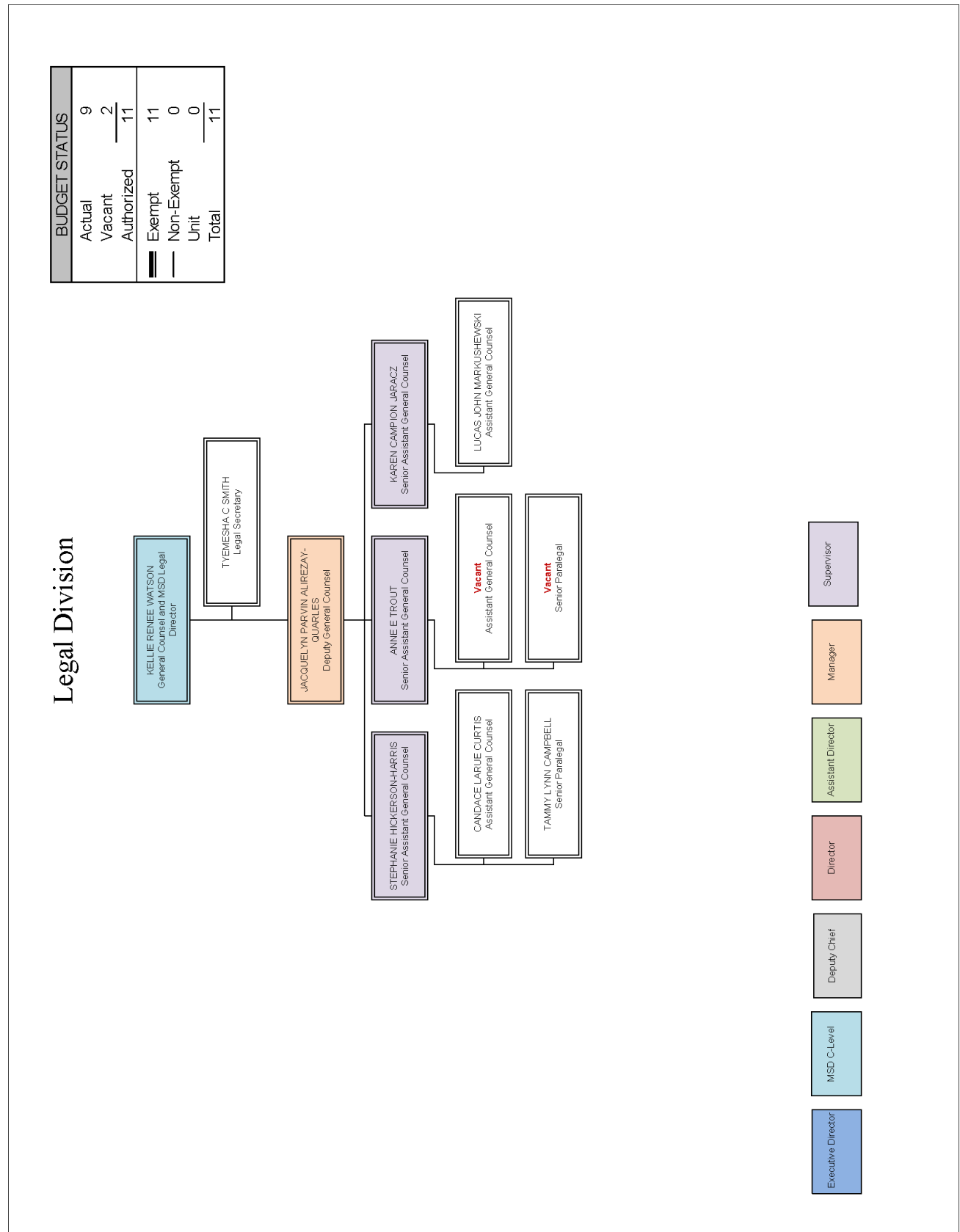
BUDGET STATUS	
Actual	31.0
Vacant	12.0
Authorized	43.0
<hr/>	
Exempt	17.0
Non-Exempt	26.0
Unit	0.0
Total	43.0



**Supply Chain and Economic Inclusion Division
Procurement, Storeroom & Supplier Diversity**

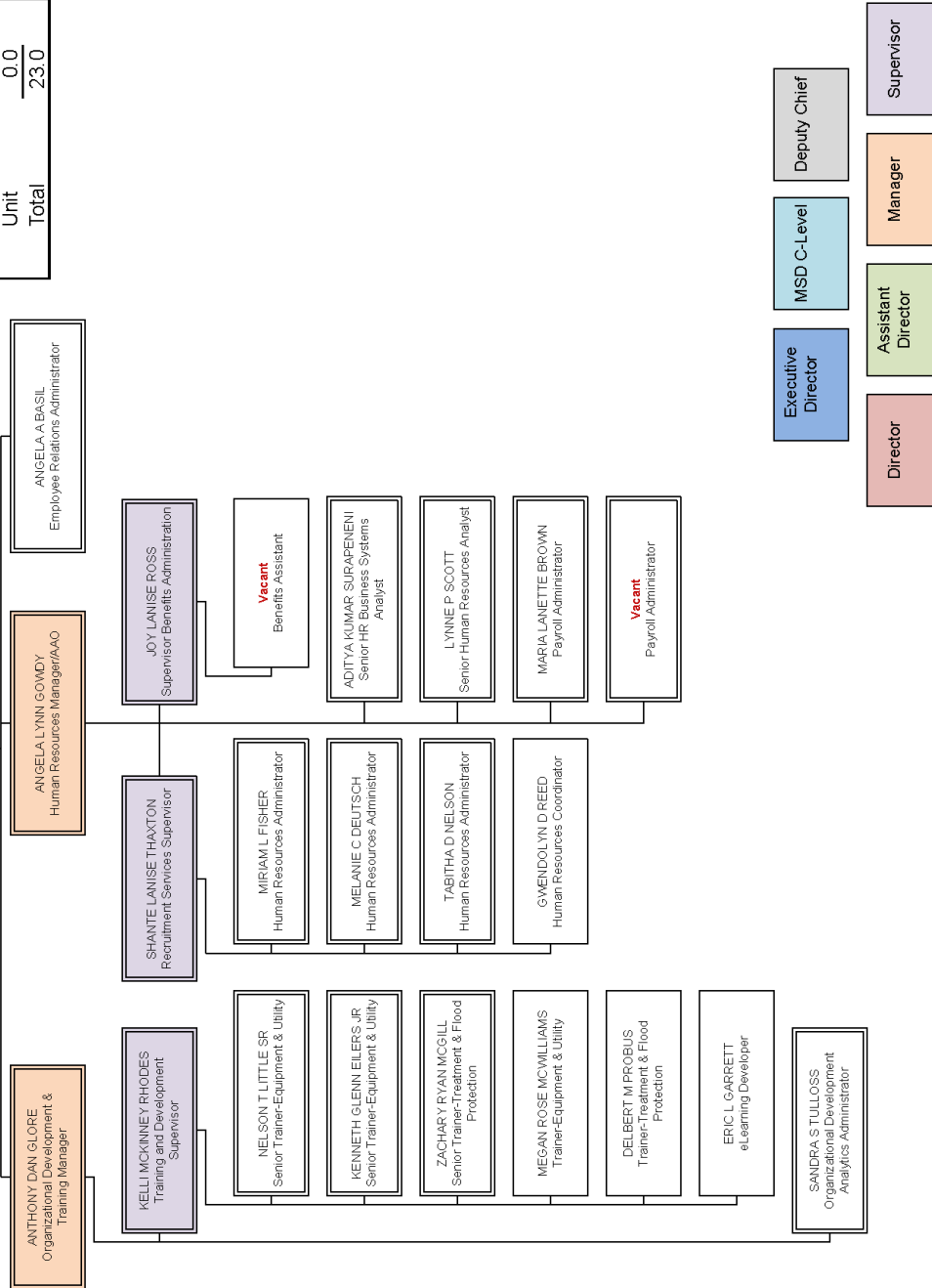
BUDGET STATUS	
Actual	24.0
Vacant	3.0
Authorized	27.0
Exempt	13.0
Non-Exempt	14.0
Unit	0.0
Total	27.0





Human Resources Division

BUDGET STATUS	
Actual	21.0
Vacant	2.0
Authorized	23.0
Exempt	18.0
Non-Exempt	5.0
Unit	0.0
Total	23.0



Executive Director

MSD C-Level

Deputy Chief

Director

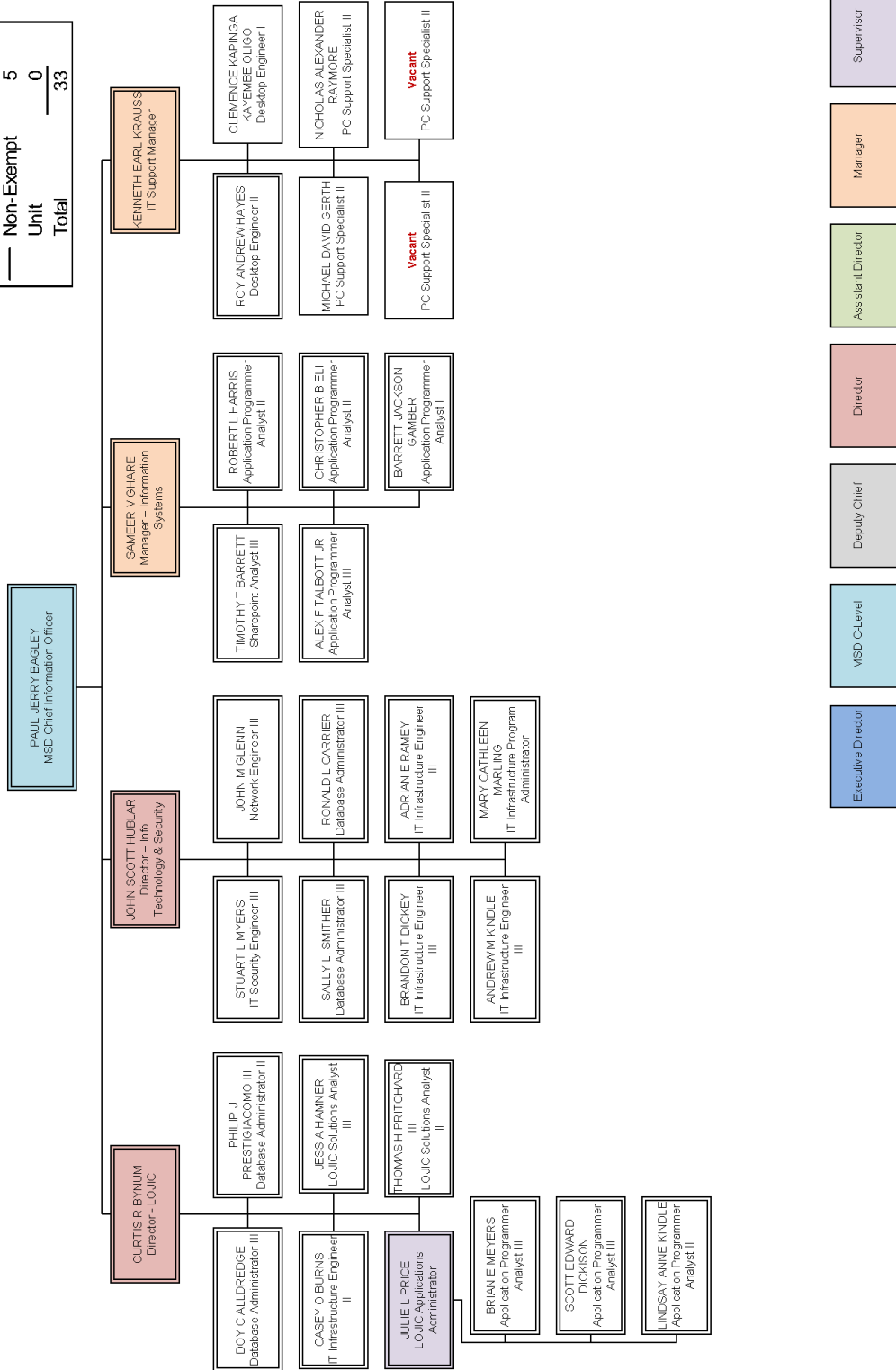
Assistant Director

Manager

Supervisor

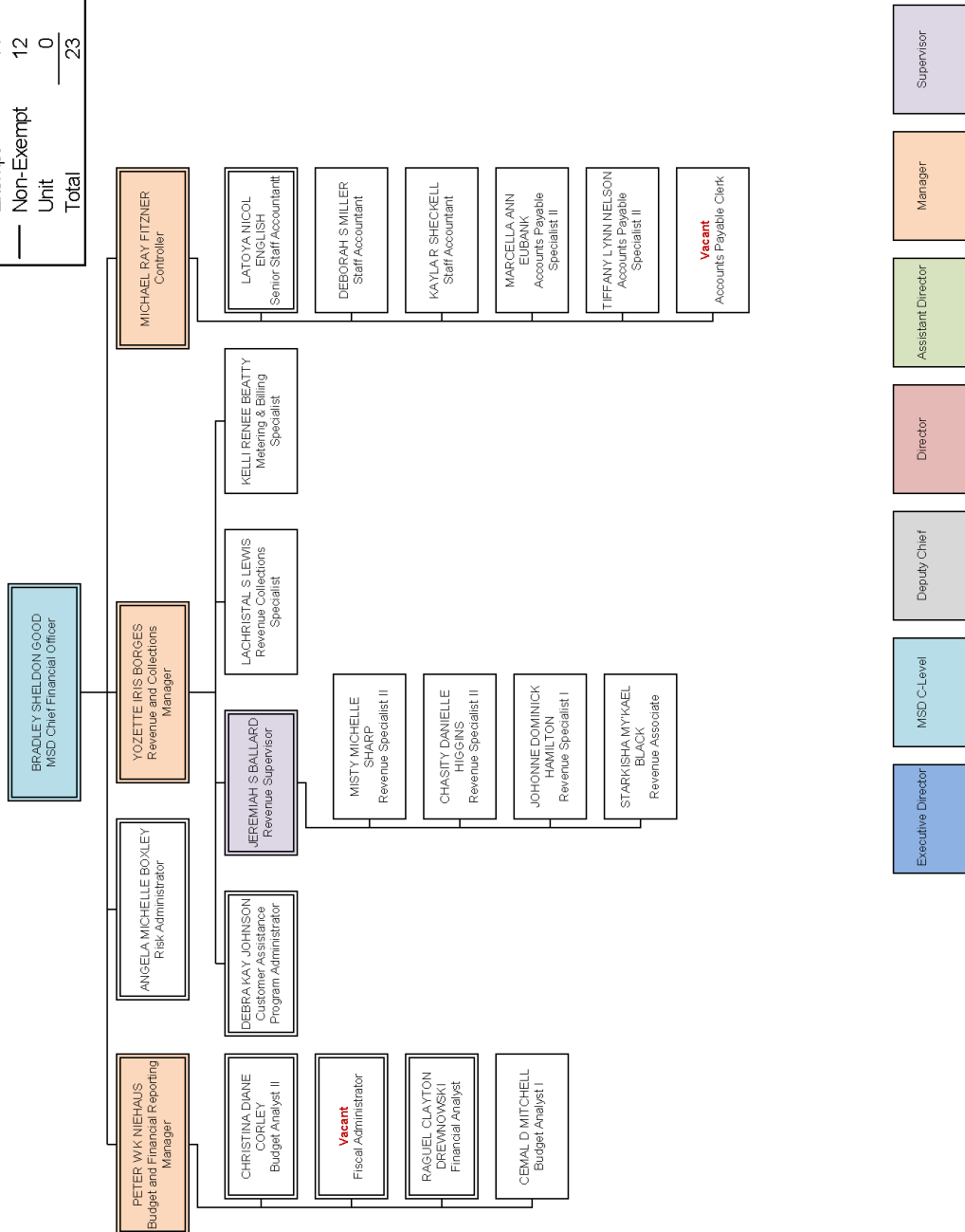
Information Technology Division

BUDGET STATUS	
Actual	31
Vacant	2
Authorized	33
<hr/>	
Exempt	28
Non-Exempt	5
Unit	0
Total	33



Finance Division

BUDGET STATUS	
Actual	21
Vacant	2
Authorized	23
Exempt	11
Non-Exempt	12
Unit	0
Total	23

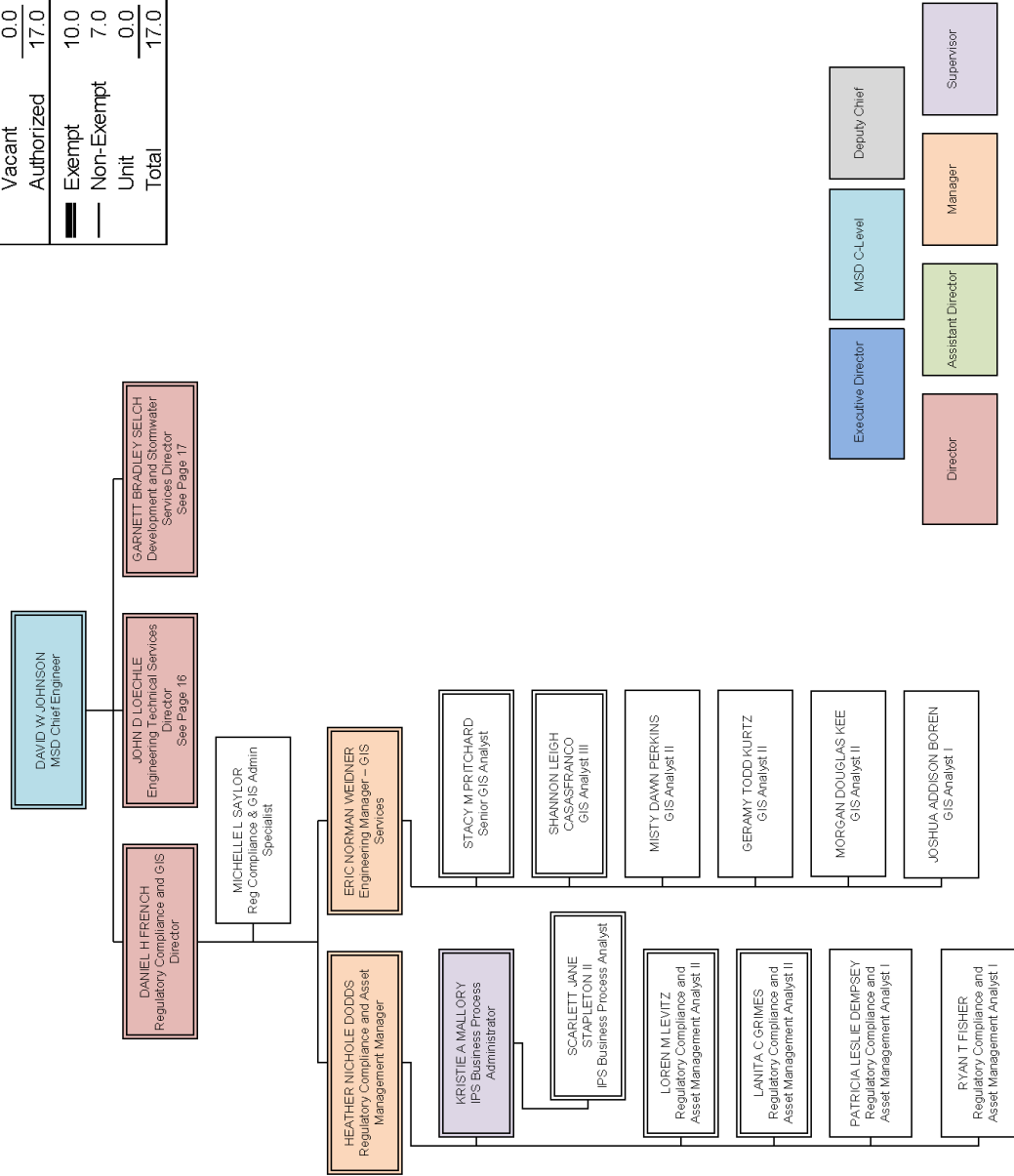




Engineering Division
Engineering Admin, Regulatory Compliance, Records & GIS

BUDGET STATUS	
Actual	17.0
Vacant	0.0
Authorized	17.0
Exempt	10.0
Non-Exempt	7.0
Unit	0.0
Total	17.0

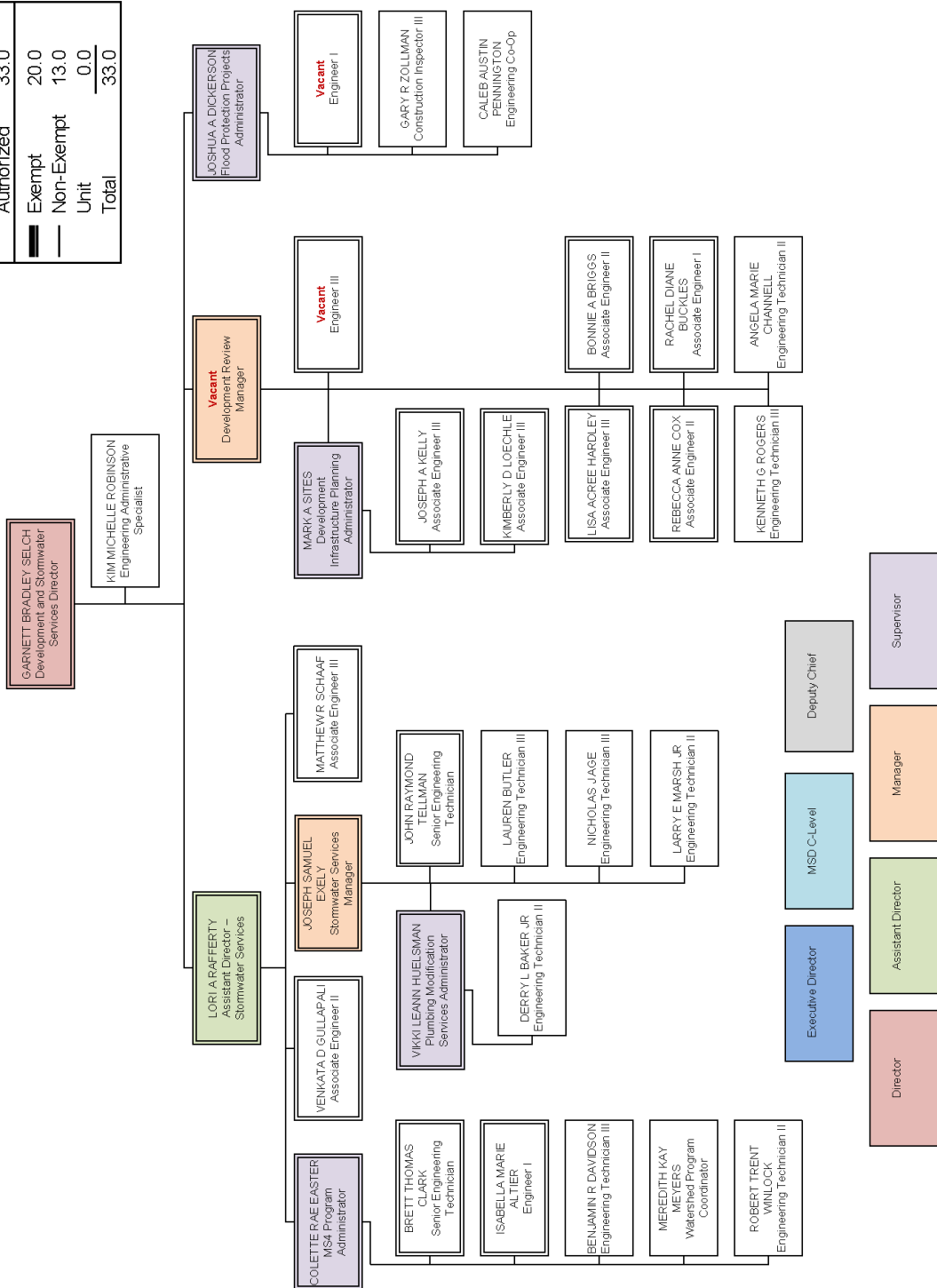
DIVISION BUDGET STATUS	
Actual	94.0
Vacant	9.0
Authorized	103.0
Exempt	63.0
Non-Exempt	40.0
Unit	0.0
Total	103.0





Engineering Division Development & Stormwater Svcs

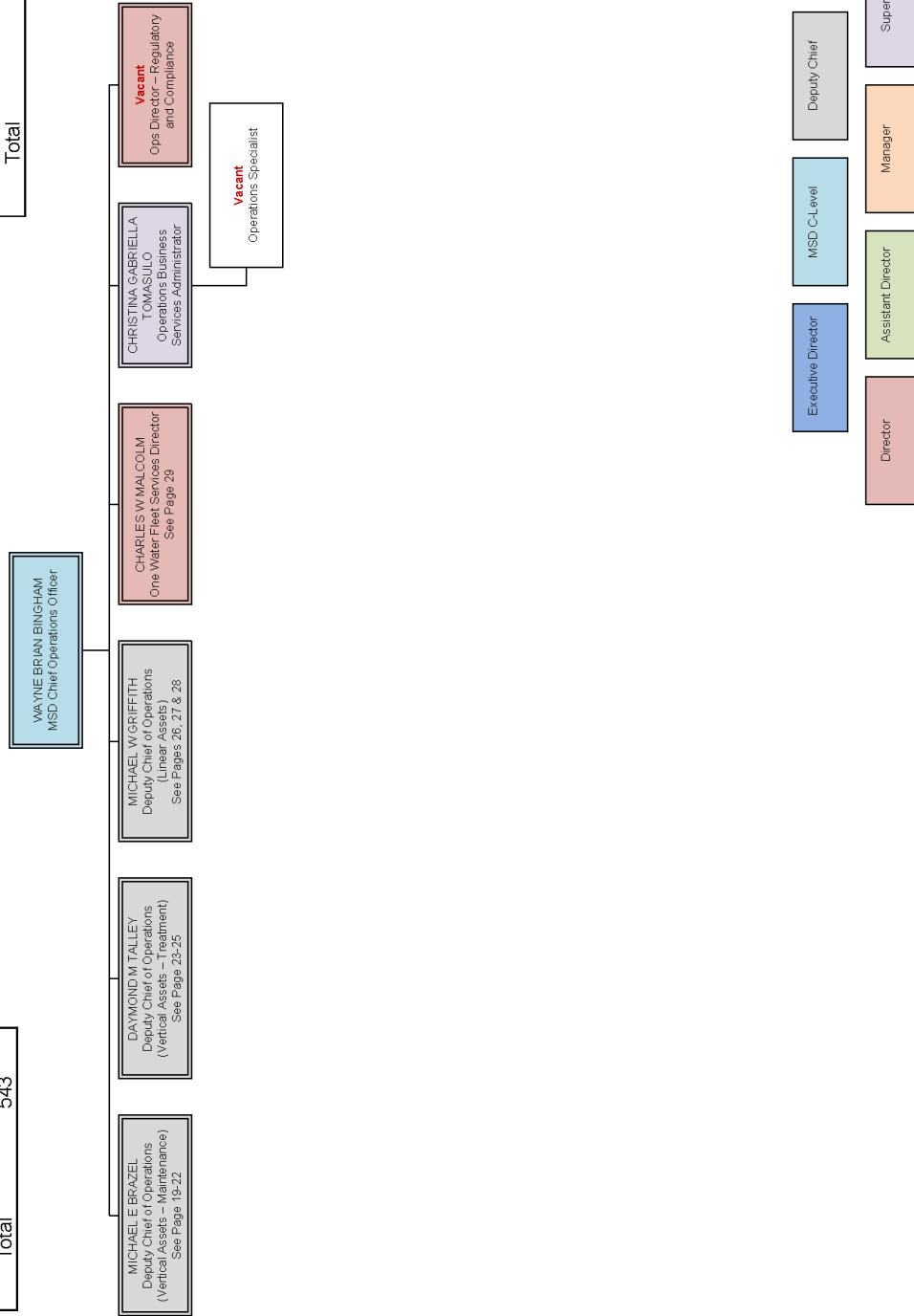
BUDGET STATUS	
Actual	30.0
Vacant	3.0
Authorized	33.0
Exempt	20.0
Non-Exempt	13.0
Unit	0.0
Total	33.0



Operations Division Administration

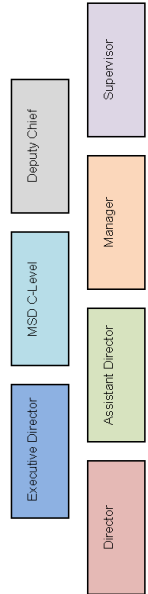
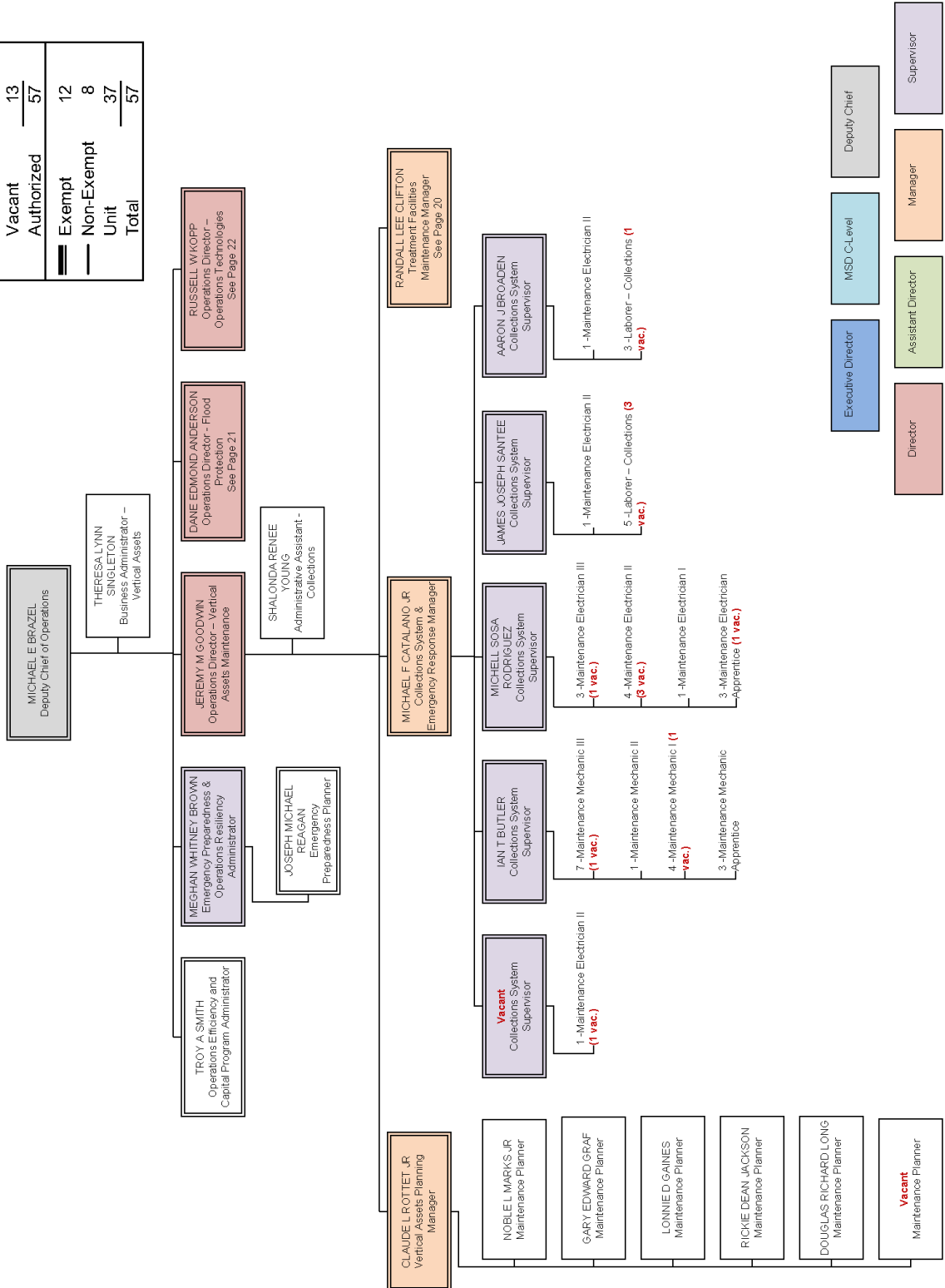
DIVISION BUDGET STATUS	
Actual	469
Vacant	74
Authorized	<u>543</u>
Exempt	102
Non-Exempt	83
Unit	<u>358</u>
Total	<u>543</u>

BUDGET STATUS	
Actual	2
Vacant	<u>2</u>
Authorized	4
Exempt	3
Non-Exempt	1
Unit	<u>0</u>
Total	<u>4</u>



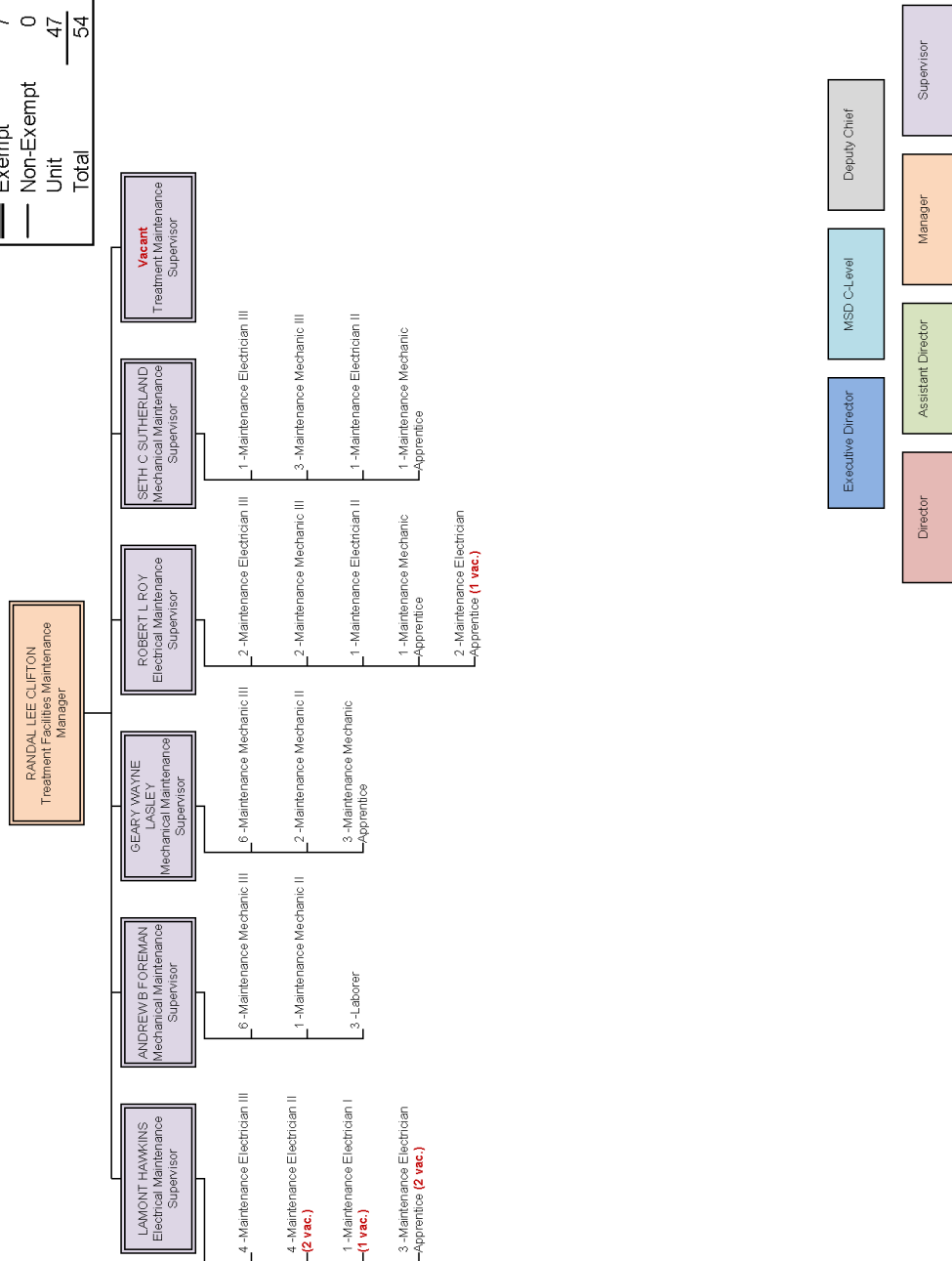
Operations Division (Vertical Assets - Maintenance) Collections System & Emergency Response

BUDGET STATUS	
Actual	44
Vacant	13
Authorized	57
Exempt	12
Non-Exempt	8
Unit	37
Total	57



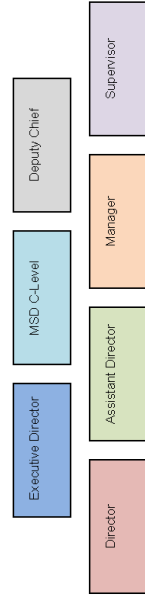
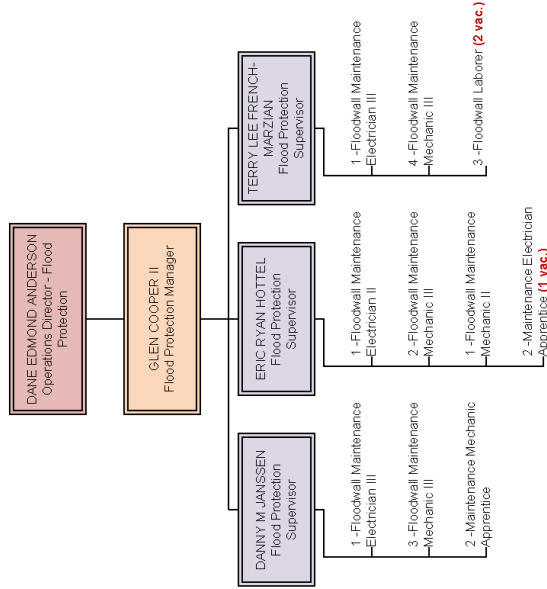
Operations Division (Vertical Assets - Maintenance) Treatment Maintenance

BUDGET STATUS	
Actual	47
Vacant	7
Authorized	54
Exempt	7
Non-Exempt	0
Unit	47
Total	54



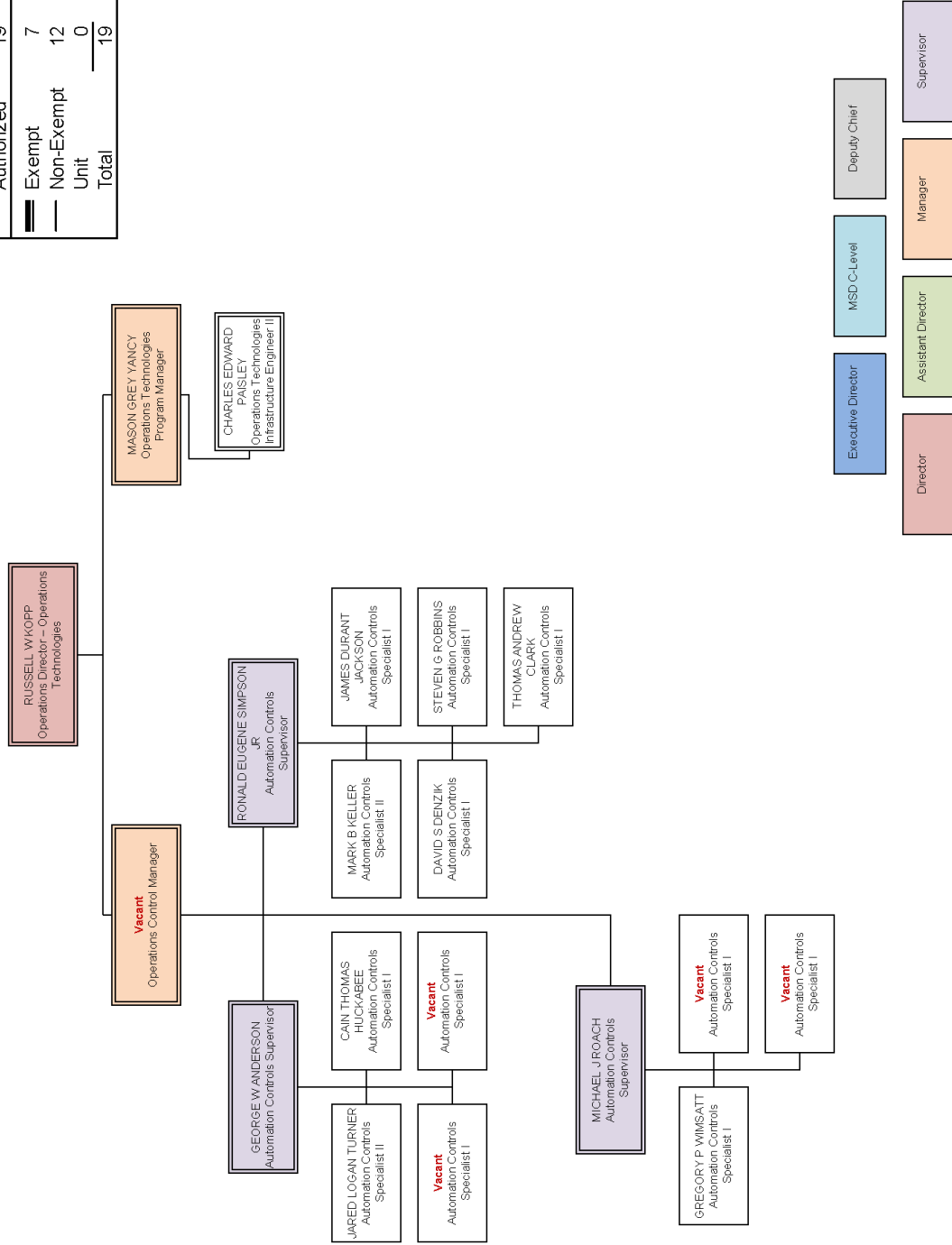
Operations Division (Vertical Assets - Maintenance)
 Flood Protection – D&FP

BUDGET STATUS	
Actual	22
Vacant	3
Authorized	25
Exempt	5
Non-Exempt	0
Unit	20
Total	25



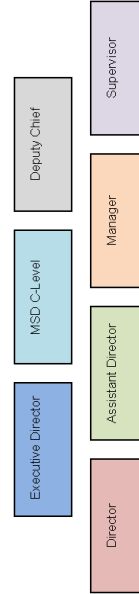
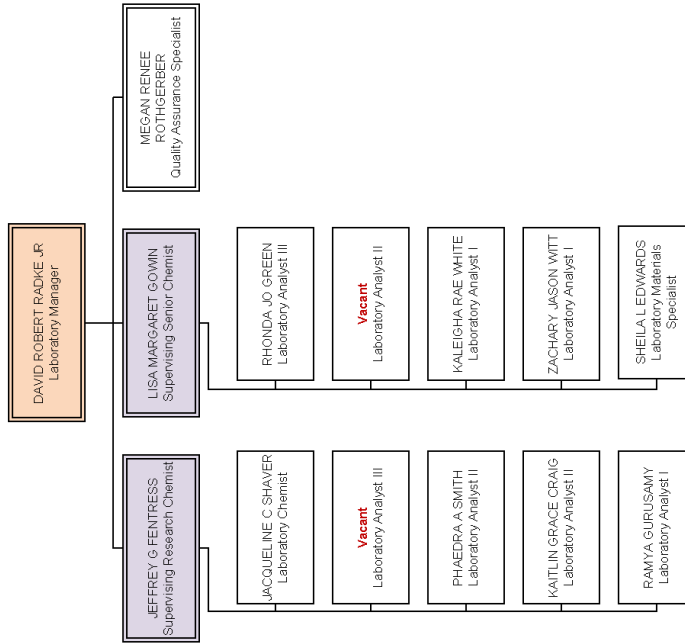
**Operations Division (Vertical Assets - Maintenance)
Jefferson Controls**

BUDGET STATUS	
Actual	14
Vacant	5
Authorized	19
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Exempt	7
Non-Exempt	12
Unit	0
Total	19



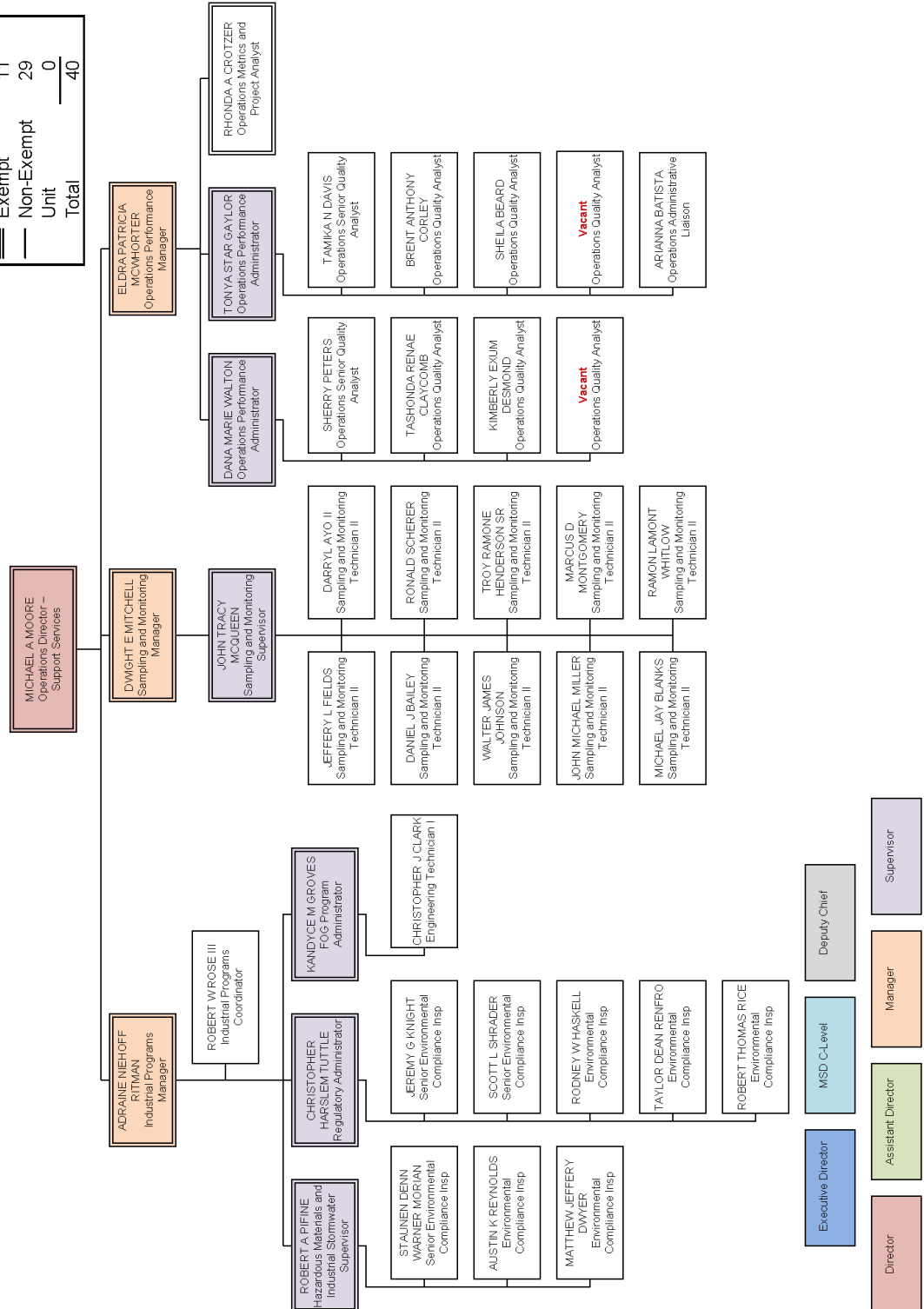
**Operations Division (Vertical Assets - Treatment)
Laboratory Services**

BUDGET STATUS	
Actual	12
Vacant	2
Authorized	14
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Exempt	4
Non-Exempt	10
Unit	0
Total	14



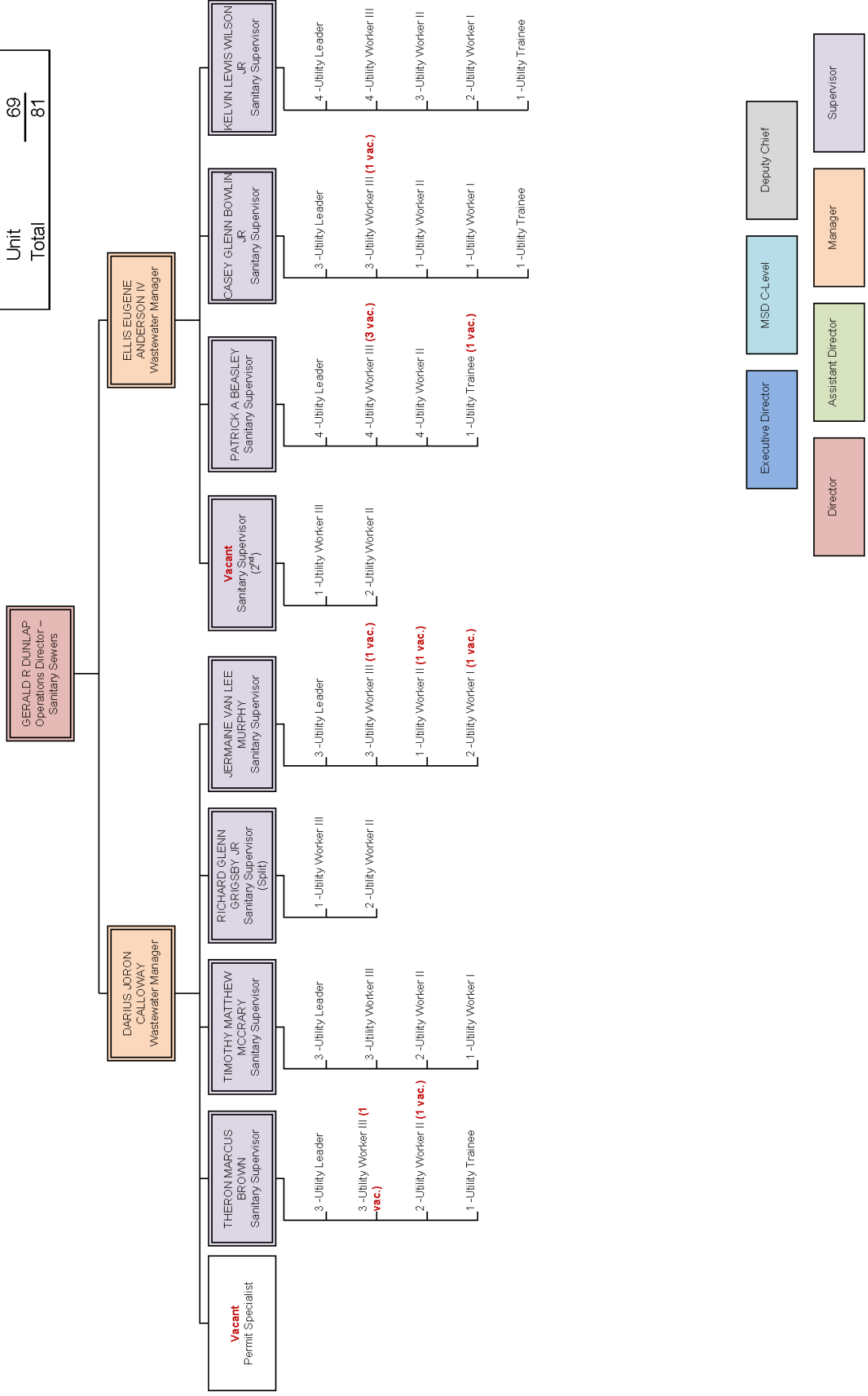
Operations Division (Vertical Assets - Treatment) Support Services

BUDGET STATUS	
Actual	38
Vacant	2
Authorized	40
Exempt	11
Non-Exempt	29
Unit	0
Total	40



Operations Division (Linear Assets) Jefferson Sanitary

BUDGET STATUS	
Actual	69
Vacant	12
Authorized	81
Exempt	11
Non-Exempt	1
Unit	69
Total	81



Executive Director

MSD C-Level

Deputy Chief

Director

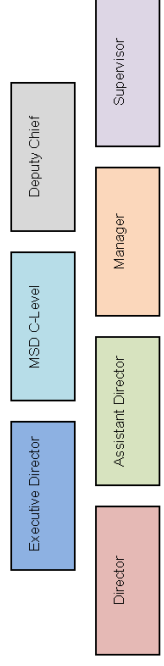
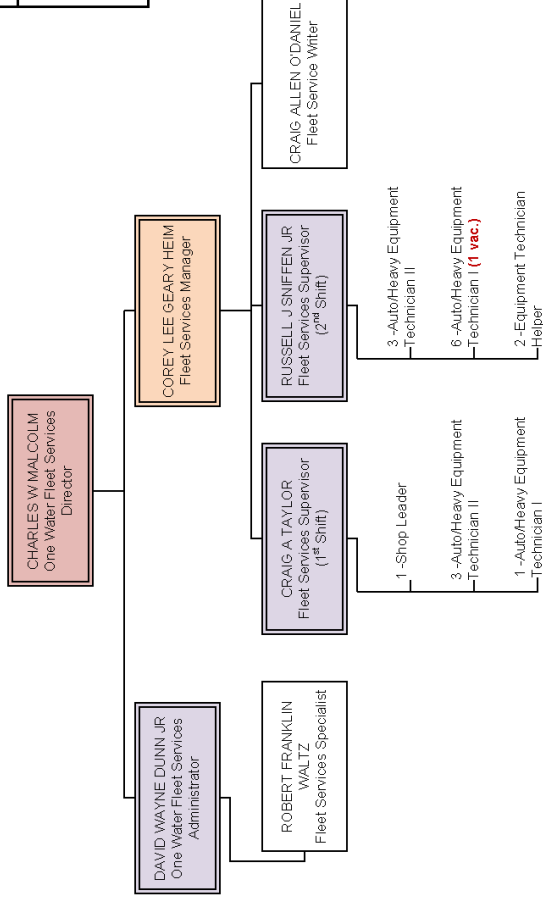
Assistant Director

Manager

Supervisor

Operations Division Fleet Services

BUDGET STATUS	
Actual	22
Vacant	1
Authorized	23
Exempt	5
Non-Exempt	2
Unit	16
Total	23



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APPENDIX M

SCAP BALANCE

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CREDIT BASIN	APPLICATION	APPLICATION NAME	TYPE	FLOW (GAL/DAY)	RELEASE DATE	APPROVED CREDIT REQUIRED OR FLOW REDUCTION (GAL/DAY)	RUNNING TOTAL (GAL/DAY)
Cedar Creek	235533	MAINTENANCE WORK FY06 AUG-FY09 NOV - CEDAR CREEK	SCAPCREDIT		11/1/2008	6521	6521
Cedar Creek	362888	MAINTENANCE WORK FY09A - CEDAR CREEK	SCAPCREDIT		12/31/2008	5	6526
Cedar Creek	236380	FY09 FAIRMOUNT ROAD MH REHAB	SCAPCREDIT		6/5/2009	10734	17260
Cedar Creek	362889	MAINTENANCE WORK FY09B - CEDAR CREEK	SCAPCREDIT		6/30/2009	201	17461
Cedar Creek	SC10/11254	MAINTENANCE WORK FY10A - CEDAR CREEK	SCAPCREDIT		12/31/2009	347	17808
Cedar Creek	SC10/11255	MAINTENANCE WORK FY10B - CEDAR CREEK	SCAPCREDIT		6/30/2010	194	18002
Cedar Creek	SC10/11259	MAINTENANCE WORK FY11A - CEDAR CREEK	SCAPCREDIT		12/31/2010	1720	19722
Cedar Creek	SC10/11262	MAINTENANCE WORK FY11B - CEDAR CREEK	SCAPCREDIT		6/30/2011	934	20656
Cedar Creek	SC10/11264	MAINTENANCE WORK FY12A - CEDAR CREEK	SCAPCREDIT		12/31/2011	269	20925
Cedar Creek	SC10/11267	MAINTENANCE WORK FY12B - CEDAR CREEK	SCAPCREDIT		6/30/2012	814	21739
Cedar Creek	SC1005519	CONTRACTED WORK FY12 - CEDAR CREEK	SCAPCREDIT		9/10/2012	21321	43060
Cedar Creek	320989	FY12 LITTLE CEDAR CREEK III REHABILITATION	SCAPCREDIT		9/27/2012	652907	695967
Cedar Creek	263934	ST JAMES CROSSINGS	LAT EXT	9000	11/30/2012	-19575	676392
Cedar Creek	196927	SONIC SPRINGS	LAT EXT	3600	12/5/2012	-7830	668562
Cedar Creek	350057	FMC EAST LOUISVILLE #1673-3	LAT EXT	3400	1/29/2013	-7395	661167
Cedar Creek	SC1074160	MAINTENANCE WORK FY13 JAN-JUN - CEDAR CREEK	SCAPCREDIT		6/30/2013	4443	665610
Cedar Creek	SC1005524	CONTRACTED WORK FY13 - CEDAR CREEK	SCAPCREDIT		8/19/2013	425	666035
Cedar Creek	14SC1000	MAINTENANCE WORK FY13A - CEDAR CREEK	SCAPCREDIT		12/31/2013	2220	669737
Cedar Creek	SC1082184	MAINTENANCE WORK FY14 JUL-DEC - CEDAR CREEK	SCAPCREDIT		12/31/2013	1482	667517
Cedar Creek	13LE1155	RAISING CANE'S CEDARLOOK DRIVE	LAT EXT	1175	5/23/2014	-2556	667181
Cedar Creek	SC1082223	MAINTENANCE WORK FY14 JAN-JUN - CEDAR CREEK	SCAPCREDIT		6/30/2014	4729	671910
Cedar Creek	SC1082493	MAINTENANCE WORK FY15 JUL-DEC - CEDAR CREEK	SCAPCREDIT		12/30/2014	4583	676493
Cedar Creek	239030	POPLAR LAKES PH 1	LAT EXT	18000	1/26/2015	-39150	637343
Cedar Creek	13LE1003	Bardstown Woods Sec 6	LAT EXT	5200	5/26/2015	-11310	626033
Cedar Creek	SC1082496	MAINTENANCE WORK FY15 JAN-JUN - CEDAR CREEK	SCAPCREDIT		6/30/2015	21	626054
Cedar Creek	LE916330	Allwood Development	LAT EXT	1600	9/14/2015	-3480	622574
Cedar Creek	SC1003694	CONTRACTED WORK FY16 - CEDAR CREEK	SCAPCREDIT		9/25/2015	328	622903
Cedar Creek	SC1006188	CONTRACTED WORK FY15 - CEDAR CREEK	SCAPCREDIT		9/25/2015	1	622975
Cedar Creek	SC1109797	FY16 JEFFERSONTOWN WQTC ELIMINATION CREDIT CREEK	SCAPCREDIT		12/23/2015	-81624	541279
Cedar Creek	SC1082497	MAINTENANCE WORK FY16 JUL-DEC - CEDAR CREEK	SCAPCREDIT		12/30/2015	16	541295
Cedar Creek	LE915727	BARDSTOWN WOODS SEC 7	LAT EXT	4400	5/25/2016	-9570	531725
Cedar Creek	SC1082498	MAINTENANCE WORK FY16 JAN-JUN - CEDAR CREEK	SCAPCREDIT		6/30/2016	169	531894
Cedar Creek	LE981692	Meredith Machinery	LAT EXT	400	8/9/2016	-870	531024
Cedar Creek	SC1006171	CONTRACTED WORK FY14 - CEDAR CREEK	SCAPCREDIT		10/26/2016	45900	576924
Cedar Creek	SC1082499	MAINTENANCE WORK FY17 JUL-DEC - CEDAR CREEK	SCAPCREDIT		12/30/2016	2396	579320
Cedar Creek	LE979589	Air Hydro Power Expansion	LAT EXT	3120	2/9/2017	-6786	572534
Cedar Creek	LE979025	Single Family Residence	LAT EXT	2000	3/8/2017	-4350	568184



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CREDIT BASIN	APPLICATION	APPLICATION NAME	TYPE	FLOW (GAL/DAY)	RELEASE DATE	APPROVED CREDIT REQUIRED OR FLOW REDUCTION (GAL/DAY)	RUNNING TOTAL (GAL/DAY)
Cedar Creek	SC1082500	MAINTENANCE WORK FY17 JAN-JUN-CEDAR CREEK	SCAPCREDIT		6/30/2017	3464	571648
Cedar Creek	SC1107176	CONTRACTED WORK FY17 - CEDAR CREEK	SCAPCREDIT		7/11/2017	309	571957
Cedar Creek	SC1107180	FY17 PROVIDENCE COURTPS REHABILITATION	SCAPCREDIT		7/21/2017	1275	573232
Cedar Creek	LE974484	Blue Sky Logistical Center	LAT EXT	2250	7/26/2017	-4894	568338
Cedar Creek	LE983107	Poplar Lakes Phase 3	LAT EXT	12000	8/14/2017	-26100	542238
Cedar Creek	LE971176	Cedar Ridge	LAT EXT	18800	10/24/2017	-40880	501348
Cedar Creek	SC1082801	MAINTENANCE WORK FY18 JUL-DEC-CEDAR CREEK	SCAPCREDIT		12/30/2017	3067	504415
Cedar Creek	LE1027406	Cheroweth Run, LLC	LAT EXT	1600	3/13/2018	-3480	500935
Cedar Creek	LE1005655	Carrier Court	LAT EXT	400	4/2/2018	-870	500065
Cedar Creek	SC1107051	FY18 BARDSTOWN RD // REMEDIATION	SCAPCREDIT		6/25/2019	22963	523028
Cedar Creek	SC1109831	MAINTENANCE WORK FY19 CEDAR CREEK	SCAPCREDIT		6/30/2019	9348	532376
Cedar Creek	LE1048252	Landherr Estates Phase II	LAT EXT	17600	7/23/2019	-38280	494096
Cedar Creek	LE1039387	Tuscany Ridge Section 3	LAT EXT	8000	8/16/2019	-17400	476696
Cedar Creek	LE1049657	Little Spring Farm, Section 4B	LAT EXT	14000	9/12/2019	-30450	427106
Cedar Creek	LE1015579	Glenmary Commons	LAT EXT	8800	9/12/2019	-19140	487556
Cedar Creek	LE978334	Houchens Industries	LAT EXT	780	10/2/2019	-1697	425409
Cedar Creek	LE1049477	Heartstone Meadows	LAT EXT	14400	1/30/2020	-31320	394089
Cedar Creek	LE1085520	Jefferson Trace Blvd. Sewer Extension	LAT EXT	400	2/27/2020	-870	393219
Cedar Creek	SC1109841	MAINTENANCE WORK FY20 CEDAR CREEK	SCAPCREDIT		6/30/2020	3365	396584
Cedar Creek	LE1099947	Cedar Creek Subdivision - Section 1	LAT EXT	16000	9/10/2020	-34800	361784
Cedar Creek	LE1057197	Cedar Brook Subdivision Section 4	LAT EXT	1200	10/27/2020	-2610	359174
Cedar Creek	LE1105493	Heritage Creek East Lot 384, PSC	LAT EXT	400	2/19/2021	-870	358304
Cedar Creek	SC1109851	MAINTENANCE WORK FY21 CEDAR CREEK	SCAPCREDIT		6/30/2021	2229	360533
Cedar Creek	LE1089846	Cedar Brook Subdivision, Section 5A FKA 5	LAT EXT	16400	11/3/2021	-36670	324863
Cedar Creek	SC1109766	CONTRACTED WORK FY22 - CEDAR CREEK	SCAPCREDIT		6/29/2022	25770	380633
Cedar Creek	SC1109881	MAINTENANCE WORK FY22 CEDAR CREEK	SCAPCREDIT		6/30/2022	4466	385099
Cedar Creek	LE1031168	Wingfield Road Office Building	LAT EXT	400	7/21/2022	-870	384229
Cedar Creek	SC1110773	MAINTENANCE WORK FY23 CEDAR CREEK	SCAPCREDIT		6/30/2023	1604	385833
Cedar Creek	SC1107537	CONTRACTED WORK FY23 - CEDAR CREEK	SCAPCREDIT		9/8/2023	67365	423198
Cedar Creek	SC1110942	MAINTENANCE WORK FY24 CEDAR CREEK	SCAPCREDIT		6/30/2024	4643	427841
Cedar Creek							427841
Floyds Fork	235557	MAINTENANCE WORK FY06 AUG-FY09 NOV - FLOYDS FORK	SCAPCREDIT		11/1/2008	14540	14540
Floyds Fork	362638	MAINTENANCE WORK FY09A - FLOYDS FORK	SCAPCREDIT		12/31/2008	1	14541
Floyds Fork	362647	MAINTENANCE WORK FY09B - FLOYDS FORK	SCAPCREDIT		6/30/2009	4	14545
Floyds Fork	362651	MAINTENANCE WORK FY10A - FLOYDS FORK	SCAPCREDIT		12/31/2009	524	15069
Floyds Fork	230379	SHAKES RUN SECTION 4	LAT EXT	3770	1/5/2010	-8200	6869
Floyds Fork	362655	MAINTENANCE WORK FY10B - FLOYDS FORK	SCAPCREDIT		6/30/2010	82	6951

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Floyds Fork	362661	MAINTENANCE WORK FY11A - FLOYDS FORK	SCAPCREDIT		12/31/2010	14163	21114
Floyds Fork	362669	MAINTENANCE WORK FY11B - FLOYDS FORK	SCAPCREDIT		6/30/2011	22707	43821
Floyds Fork	309608	BLANKENBAKER TRAIL OFFICE LN-B	LAT EXT	2880	10/12/2011	-6284	37557
Floyds Fork	242480	CLAIRBOURNE CROSSINGS PHASE 2	LAT EXT	0	10/17/2011	0	37557
Floyds Fork	359320	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2011	4000	41874
Floyds Fork	362674	MAINTENANCE WORK FY12A - FLOYDS FORK	SCAPCREDIT		12/31/2011	317	37874
Floyds Fork	319027	PREMIER SURGERY CENTER	LAT EXT	5740	3/13/2012	-12485	28389
Floyds Fork	362678	MAINTENANCE WORK FY12B - FLOYDS FORK	SCAPCREDIT		6/30/2012	338	29727
Floyds Fork	332823	SINGLE FAMILY HOME	LAT EXT	400	7/13/2012	-870	28857
Floyds Fork	315945	BROOKFIELD SEC 3	LAT EXT	12800	10/26/2012	-27840	1017
Floyds Fork	361689	FY13 LAKE FOREST REHAB PH1	SCAPCREDIT		12/18/2012	174789	175786
Floyds Fork	362683	MAINTENANCE WORK FY13A - FLOYDS FORK	SCAPCREDIT		12/31/2012	10	175796
Floyds Fork	331397	BROOKFIELD SEC 2A	LAT EXT	14400	5/8/2013	-31320	144476
Floyds Fork	SC1082514	MAINTENANCE WORK FY13 JAN-JUN-FLOYDS FORK	SCAPCREDIT		6/30/2013	161	158820
Floyds Fork	13SC1000	FY14 STARVIEW REHABILITATION	SCAPCREDIT		6/30/2013	14183	158659
Floyds Fork	SC1082517	MAINTENANCE WORK FY14 JUL-DEC-FLOYDS FORK	SCAPCREDIT		12/30/2013	991	159811
Floyds Fork	SC1082518	MAINTENANCE WORK FY14 JAN-JUN-FLOYDS FORK	SCAPCREDIT		6/30/2014	662	160473
Floyds Fork	SC1082519	MAINTENANCE WORK FY15 JUL-DEC-FLOYDS FORK	SCAPCREDIT		12/30/2014	1318	161791
Floyds Fork	13LE1062	SPEEDWAY #9451	LAT EXT	540	2/18/2015	-1175	160616
Floyds Fork	SC1082520	MAINTENANCE WORK FY15 JAN-JUN-FLOYDS FORK	SCAPCREDIT		6/30/2015	661	273935
Floyds Fork	LE932084	Donan Engineering Co., Inc Main Office	LAT EXT	1335	6/30/2015	-2904	271031
Floyds Fork	SC1003909	FY14 BERRY TOWN WQTC III REMEDIATION	SCAPCREDIT		6/30/2015	116834	277460
Floyds Fork	LE939188	Speckman Center	LAT EXT	1920	6/30/2015	-4176	273274
Floyds Fork	SC1003723	FY16 MIDDLE TOWN SSR P2S2 III REMEDIATION	SCAPCREDIT		11/6/2015	102	271133
Floyds Fork	LE959076	Edwards Restaurant	LAT EXT	1750	11/23/2015	-3806	264717
Floyds Fork	LE965189	The Meadows at the Polo Fields Patio Homes	LAT EXT	1200	11/23/2015	-2610	268523
Floyds Fork	SC1082521	MAINTENANCE WORK FY16 JUL-DEC-FLOYDS FORK	SCAPCREDIT		12/30/2015	659	265376
Floyds Fork	LE941673	Locust Creek Section 8B	LAT EXT	2000	1/7/2016	-4350	261026
Floyds Fork	SC1082523	MAINTENANCE WORK FY16 JAN-JUN-FLOYDS FORK	SCAPCREDIT		6/30/2016	3578	264604
Floyds Fork	SC1003331	CONTRACTED WORK FY16 - FLOYDS FORK	SCAPCREDIT		7/7/2016	35	264639
Floyds Fork	LE932677	Shakes Run Sec 9	LAT EXT	12000	9/20/2016	-26100	238539
Floyds Fork	SC1082524	MAINTENANCE WORK FY17 JUL-DEC-FLOYDS FORK	SCAPCREDIT		12/30/2016	1804	240343
Floyds Fork	LE945783	Uton Woods, Section 2B	LAT EXT	17200	1/4/2017	-37410	202933
Floyds Fork	LE983784	Catalpa Farms Subdivision	LAT EXT	16000	1/6/2017	-34800	168133
Floyds Fork	LE971261	Notting Hills Section 4 and Clubhouse	LAT EXT	10400	2/27/2017	-22620	145513
Floyds Fork	SC1082525	MAINTENANCE WORK FY17 JAN-JUN-FLOYDS FORK	SCAPCREDIT		6/30/2017	1320	146833
Floyds Fork	LE992628	Blankenbaker Centre II	LAT EXT	2340	10/6/2017	-5090	141743



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Floyds Fork	SC1082526	MAINTENANCE WORK FY18 JUL-DEC-FLOYDS FORK	SCAPCREDIT		12/30/2017	6158	147901
Floyds Fork	LE1026269	Valencia Villas at Landis Lakes	LAT EXT	1600	12/27/2018	-3480	144421
Floyds Fork	LE1039193	Glen Lakes Section 4 - Phase 3	LAT EXT	16400	1/7/2019	-35670	108751
Floyds Fork	LE1030166	Victory Knoll Apartments - Phase 1	LAT EXT	91400	2/7/2019	-198795	-90044
Floyds Fork	LE1024277	St. Joseph's Property	LAT EXT	70128	4/19/2019	-152528	-242572
Floyds Fork	LE1030172	Victory Knoll Apartments - Phase 2	LAT EXT	36100	6/25/2019	-78518	-321090
Floyds Fork	SC1109833	MAINTENANCE WORK FY19 FLOYDS FORK	SCAPCREDIT		6/30/2019	4820	-316470
Floyds Fork	SC1107197	CONTRACTED WORK FY19 - FLOYDS FORK	SCAPCREDIT		8/27/2019	1554	-314916
Floyds Fork	LE1050932	Courtyard at Curry Farms Section 1	LAT EXT	17000	10/21/2019	-36975	-351891
Floyds Fork	LE1025883	Vinings at Claiborne	LAT EXT	69800	12/6/2019	-151815	-503706
Floyds Fork	SC1109843	MAINTENANCE WORK FY20 FLOYDS FORK	SCAPCREDIT		6/30/2020	1137	-502569
Floyds Fork	SC1109853	MAINTENANCE WORK FY21 FLOYDS FORK	SCAPCREDIT		6/30/2021	747	-501822
Floyds Fork	SC1107226	CONTRACTED WORK FY22 - FLOYDS FORK	SCAPCREDIT		5/16/2022	1520	-500302
Floyds Fork	SC1109883	MAINTENANCE WORK FY22 FLOYDS FORK	SCAPCREDIT		6/30/2022	1880	-498422
Floyds Fork	SC1107528	CONTRACTED WORK FY23 - FLOYDS FORK	SCAPCREDIT		5/30/2023	343896	-154526
Floyds Fork	SC1110775	MAINTENANCE WORK FY23 FLOYDS FORK	SCAPCREDIT		6/30/2023	2286	-152240
Floyds Fork	LE1106366	Echo Trail Force Main Phase 1	LAT EXT	0	9/14/2023	0	-152240
Floyds Fork	LE1106365	Echo Trail Pump Station	LAT EXT	0	9/14/2023	0	-152240
Floyds Fork	LE1106367	Echo Trail Force Main Phase 2	LAT EXT	0	9/14/2023	0	-152240
Floyds Fork	SC1110946	MAINTENANCE WORK FY24 FLOYDS FORK	SCAPCREDIT		6/30/2024	990	-151250
Floyds Fork							-151250
Hite Creek	SC1006307	CONTRACTED WORK FY08 - HITE CREEK	SCAPCREDIT		5/15/2006	656	656
Hite Creek	235561	MAINTENANCE WORK FY08 AUG-FY09 NOV - HITE CREEK	SCAPCREDIT		11/1/2008	6404	7060
Hite Creek	362641	MAINTENANCE WORK FY09A - HITE CREEK	SCAPCREDIT		12/31/2008	2	7062
Hite Creek	SC1006214	CONTRACTED WORK FY09 - HITE CREEK	SCAPCREDIT		6/1/2009	328	7390
Hite Creek	362648	MAINTENANCE WORK FY09B - HITE CREEK	SCAPCREDIT		6/30/2009	7	7397
Hite Creek	362652	MAINTENANCE WORK FY10A - HITE CREEK	SCAPCREDIT		12/31/2009	10	7407
Hite Creek	362657	MAINTENANCE WORK FY10B - HITE CREEK	SCAPCREDIT		6/30/2010	332	7739
Hite Creek	320906	FY11 FLOYDSBURG ROAD III REHABILITATION	SCAPCREDIT		12/17/2010	28437	36176
Hite Creek	362662	MAINTENANCE WORK FY11A - HITE CREEK	SCAPCREDIT		12/31/2010	9	36185
Hite Creek	362670	MAINTENANCE WORK FY11B - HITE CREEK	SCAPCREDIT		6/30/2011	9	36194
Hite Creek	SC1011058	FY12 MEADOW STREAM FWS AND FM EXPANSION	SCAPCREDIT		9/7/2011	2304000	2340194
Hite Creek	246638	CHAPMAN COURT S/S	LAT EXT	800	9/28/2011	-1740	2338454
Hite Creek	362675	MAINTENANCE WORK FY12A - HITE CREEK	SCAPCREDIT		12/31/2011	340	2338794
Hite Creek	362679	MAINTENANCE WORK FY12B - HITE CREEK	SCAPCREDIT		6/30/2012	5007	2343801
Hite Creek	290181	CAMDEN WOOD APARTMENTS	LAT EXT	12400	8/31/2012	-26970	2316831
Hite Creek	304536	MAGNOLIA SPRINGS EAST PRIV P/S	LAT EXT	9500	12/1/2012	-20663	2296168

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Hite Creek	335610	ROCK SPRINGS FARM SEC 4B	LAT EXT	6400	12/7/2012	-13920	2282248
Hite Creek	362684	MAINTENANCE WORK FY13A - HITE CREEK	SCAPCREDIT		12/31/2012	7	2282255
Hite Creek	SC1005530	CONTRACTED WORK FY13 - HITE CREEK	SCAPCREDIT		4/1/2013	1442	2283697
Hite Creek	SC1082527	MAINTENANCE WORK FY13 JAN-JUN-HITE CREEK	SCAPCREDIT		6/30/2013	967	2284664
Hite Creek	13LE1150	SINGLE FAMILY 5800 MOUNT PLEASANT RD	LAT EXT	400	11/26/2013	-870	2283794
Hite Creek	SC1082528	MAINTENANCE WORK FY14 JUL-DEC-HITE CREEK	SCAPCREDIT		12/30/2013	3211	2287005
Hite Creek	SC1082529	MAINTENANCE WORK FY14 JAN-JUNE-HITE CREEK	SCAPCREDIT		6/30/2014	2207	2289212
Hite Creek	SC1082530	MAINTENANCE WORK FY15 JUL-DEC-HITE CREEK	SCAPCREDIT		12/30/2014	360	2289572
Hite Creek	SC1006178	CONTRACTED WORK FY14 - HITE CREEK	SCAPCREDIT		1/27/2015	77660	2367232
Hite Creek	SC983697	FY13 MEADOWSTREAM REHABILITATION	SCAPCREDIT		3/13/2015	448447	2815679
Hite Creek	SC1082531	MAINTENANCE WORK FY15 JAN-JUN-HITE CREEK	SCAPCREDIT		6/30/2015	124	2815803
Hite Creek	SC1082532	MAINTENANCE WORK FY16 JUL-DEC-HITE CREEK	SCAPCREDIT		12/30/2015	1191	2816994
Hite Creek	LE967612	Camden Wood Apartments - Phase III	LAT EXT	2400	3/2/2016	-5220	2811774
Hite Creek	SC1082533	MAINTENANCE WORK FY16 JAN-JUN-HITE CREEK	SCAPCREDIT		6/30/2016	336	2812110
Hite Creek	LE943178	Rock Springs Farm Section 5A	LAT EXT	6800	9/13/2016	-14790	2797320
Hite Creek	SC1006192	CONTRACTED WORK FY15 - HITE CREEK	SCAPCREDIT		10/26/2016	1	2797321
Hite Creek	SC1082534	MAINTENANCE WORK FY17 JUL-DEC-HITE CREEK	SCAPCREDIT		12/30/2016	3599	2800920
Hite Creek	LE971406	Old Henry Business Park	LAT EXT	930	3/17/2017	-2023	2798897
Hite Creek	SC1082535	MAINTENANCE WORK FY17 JAN-JUN-HITE CREEK	SCAPCREDIT		6/30/2017	4109	2803006
Hite Creek	LE1008225	LINAK Expansion	LAT EXT	3610	8/25/2017	-7852	2795154
Hite Creek	SC1082536	MAINTENANCE WORK FY18 JUL-DEC-HITE CREEK	SCAPCREDIT		12/30/2017	6823	2801977
Hite Creek	SC1107182	FY18 FLOYDSBURG ROAD PS REHABILITATION	SCAPCREDIT		8/9/2018	7825	2809802
Hite Creek	LE1042390	Norton Commons North Village Phase 7	LAT EXT	12000	1/7/2019	-26100	2725412
Hite Creek	LE1031180	Norton Commons North Village Phase 6	LAT EXT	26800	1/7/2019	-59290	2751512
Hite Creek	LE1079340	Norton Commons North Village Phase 6A	LAT EXT	6800	1/10/2019	-14790	2710622
Hite Creek	LE1066431	Norton Commons North Village The Grove Pool	LAT EXT	400	3/15/2019	-870	2709752
Hite Creek	LE1088579	A & L Expansion	LAT EXT	400	3/28/2019	-870	2708882
Hite Creek	14LE1103	Accomack Mini Warehouses	LAT EXT	400	5/8/2019	-870	2708012
Hite Creek	LE1086886	Ghasern/Factory Lane Project	LAT EXT	685	5/29/2019	-1490	2706522
Hite Creek	SC1109934	MAINTENANCE WORK FY19 HITE CREEK	SCAPCREDIT		6/30/2019	12162	2718694
Hite Creek	LE1103150	Anchorage Plaza II Phase II	LAT EXT	2300	11/18/2019	-5003	2713681
Hite Creek	LE1104289	LYRIC AT NORTON COMMONS	LAT EXT	71357	2/20/2020	-155201	2558480
Hite Creek	LE1054784	Norton Commons North Village Phase 8	LAT EXT	9600	2/21/2020	-20880	2537600
Hite Creek	LE1102996	Thomas Eastpoint Warehouse Expansion	LAT EXT	400	3/3/2020	-870	2536730
Hite Creek	LE1104592	EPOP II	LAT EXT	510	6/3/2020	-1109	2535621
Hite Creek	LE1102431	Tony's Wrecker Service	LAT EXT	400	6/12/2020	-870	2534751
Hite Creek	LE1089366	Norton Commons North Village Phase 10	LAT EXT	29200	6/30/2020	-63510	2477326



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Hite Creek	SC1109844	MAINTENANCE WORK FY20 HITE CREEK	SCAPCREDIT		6/30/2020	6085	2540636
Hite Creek	LE1104374	KEN TOWERY	LAT EXT	400	7/16/2020	-870	2476456
Hite Creek	SC1109854	MAINTENANCE WORK FY21 HITE CREEK	SCAPCREDIT		6/30/2021	4296	2480752
Hite Creek	SC1107225	CONTRACTED WORK FY22 - HITE CREEK	SCAPCREDIT		6/8/2022	237	2480989
Hite Creek	SC1109884	MAINTENANCE WORK FY22 HITE CREEK	SCAPCREDIT		6/30/2022	4448	2485437
Hite Creek	SC1110720	CONTRACTED WORK FY23 - HITE CREEK	SCAPCREDIT		5/19/2023	1248	2486685
Hite Creek	LE1106275	Rollington Ridge Subdivision	LAT EXT	33800	5/31/2023	-73080	2413605
Hite Creek	SC1110779	MAINTENANCE WORK FY23 HITE CREEK	SCAPCREDIT		6/30/2023	4260	2417865
Hite Creek	SC1107229	FY23 II REMEDIATION - PROSPECT PHASE II	SCAPCREDIT		5/17/2024	347816	2765681
Hite Creek	SC1110947	MAINTENANCE WORK FY24 HITE CREEK	SCAPCREDIT		6/30/2024	742	2766423
Hite Creek							2766423
Jeffersontown	2355563	MAINTENANCE WORK FY06 AUG-FY09 NOV - JEFFERSONTOWN	SCAPCREDIT		11/1/2008	6203	6203
Jeffersontown	359323	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2008	4000	10203
Jeffersontown	254871	LAKESIDE BAPT CHURCH PRIV PS	LAT EXT	2500	8/10/2010	-5438	4765
Jeffersontown	340213	FY12 JEFFERSONTOWN ENG REHAB	SCAPCREDIT		8/11/2011	897448	1002213
Jeffersontown	359324	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2011	4000	1006213
Jeffersontown	14SC1002	MAINTENANCE WORK FY13A - JEFFERSONTOWN	SCAPCREDIT		12/31/2012	3490	1009703
Jeffersontown	337261	SINGLE FAMILY 2909 PELHAM CT	LAT EXT	400	5/28/2013	-870	1008833
Jeffersontown	13LE1010	SWOPE HR & TRAINING BLDG	LAT EXT	400	6/28/2013	-870	1007963
Jeffersontown	13LE1092	BALE EQUIPMENT	LAT EXT	450	10/25/2013	-979	1006984
Jeffersontown	13LE1098	UNIPAK	LAT EXT	720	2/27/2014	-1566	1005418
Jeffersontown	LE924043	Bluegrass Indoor Center	LAT EXT	400	5/1/2014	-870	1004548
Jeffersontown	13LE1153	VALUE PLACE	LAT EXT	12400	7/9/2014	-26970	977578
Jeffersontown	14LE1082	Single Family Home	LAT EXT	400	7/22/2014	-870	976708
Jeffersontown	13LE1067	PARK COMMUNITY	LAT EXT	2200	12/31/2014	-4785	971923
Jeffersontown	LE952541	TYLER RETAIL CTR & KROGER EXPAN	LAT EXT	0	8/17/2015	0	971923
Jeffersontown	SC1109796	FY16 JEFFERSONTOWN WQTC ELIMINATION CREDIT JTOWN	SCAPCREDIT		12/23/2015	-887196	84727
Jeffersontown	14LE1149	Grand Lakes Section 3	LAT EXT	5600	2/1/2016	-12180	72547
Jeffersontown	LE924049	Blankenbaker Road S/S	LAT EXT	9010	3/10/2016	-19597	52950
Jeffersontown	LE948691	Kowaleski Salon	LAT EXT	600	3/15/2016	-1305	51645
Jeffersontown	326360	WATTERSON TRAIL CENTER	LAT EXT	2745	5/4/2016	-5970	45675
Jeffersontown	LE972153	Tova Industries	LAT EXT	400	5/9/2016	-870	44805
Jeffersontown	LE930127	Vantage Point Sec 3B	LAT EXT	7200	6/21/2016	-15660	29145
Jeffersontown	13LE1158	GOODWILL INDUSTRIES OF KENTUCKY	LAT EXT	400	7/28/2016	-870	28275
Jeffersontown	14LE1148	Grand Lakes Section 2	LAT EXT	4400	1/18/2016	-9570	18705
Jeffersontown	LE950059	Embassy Square Office Park	LAT EXT	600	11/17/2016	-1305	17400
Jeffersontown	LE926081	Monticello Manors Sec 2	LAT EXT	7600	3/23/2017	-16530	870

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Jeffersonstown	LE967619	Louis F. Zoeller, Jr. Minor Plat	LAT EXT	400	3/31/2017	-870	0
Jeffersonstown							0
Middle Fork Beargrass Creek	359400	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2007	84000	104000
Middle Fork Beargrass Creek	359328	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2007	20000	20000
Middle Fork Beargrass Creek	235566	MAINTENANCE WORK FY06AUG-FY09 NOV - MIDDLE FORK	SCAPCREDIT		11/1/2008	43779	147779
Middle Fork Beargrass Creek	359329	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2008	8000	155792
Middle Fork Beargrass Creek	SC1011287	MAINTENANCE WORK FY09A - MIDDLE FORK	SCAPCREDIT		12/31/2008	13	147792
Middle Fork Beargrass Creek	236517	FY11 ANCHOR ESTATES MH REHAB	SCAPCREDIT		1/16/2009	15552	171344
Middle Fork Beargrass Creek	217235	FY09 SINKING FORK ICA PHASE I REHAB	SCAPCREDIT		3/30/2009	437967	609311
Middle Fork Beargrass Creek	235376	FY09 MIDDLE FORK INT REHAB PH1	SCAPCREDIT		5/15/2009	487744	1097055
Middle Fork Beargrass Creek	179246	SHADY GLEN OF LYNDON PERSONAL	LAT EXT	-500	5/26/2009	1088	1088143
Middle Fork Beargrass Creek	SC1011288	MAINTENANCE WORK FY09B - MIDDLE FORK	SCAPCREDIT		6/30/2009	4208	1102351
Middle Fork Beargrass Creek	250572	1316 WITAWANGA AVE	LAT EXT	400	1/14/2009	-870	1101481
Middle Fork Beargrass Creek	359401	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2009	4000	1105531
Middle Fork Beargrass Creek	SC1011290	MAINTENANCE WORK FY10A - MIDDLE FORK	SCAPCREDIT		12/31/2009	50	1101531
Middle Fork Beargrass Creek	359331	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2009	24000	1129531
Middle Fork Beargrass Creek	197432	ALMOST HOME KENNELS - ALL PET	LAT EXT	3700	3/16/2010	-8048	1121483
Middle Fork Beargrass Creek	260064	OXMOOR GOLF FRONT 9	LAT EXT	400	4/15/2010	-870	1120613
Middle Fork Beargrass Creek	260065	OXMOOR GOLF BACK 9	LAT EXT	400	4/15/2010	-870	1119743
Middle Fork Beargrass Creek	229834	THE BROOK-HOS- DUPONT ADDITION	LAT EXT	1763	4/27/2010	-3835	1115908
Middle Fork Beargrass Creek	SC1011292	MAINTENANCE WORK FY10B - MIDDLE FORK	SCAPCREDIT		6/30/2010	1113	1117021
Middle Fork Beargrass Creek	265723	Z-XPRESS CAR WASH	LAT EXT	5449	7/2/2010	-11852	1105169
Middle Fork Beargrass Creek	255793	HERR LANE APARTMENTS - 4 PLEX	LAT EXT	1200	7/14/2010	-2610	1087339
Middle Fork Beargrass Creek	255792	HERR LANE APARTMENTS - 8 PLEX	LAT EXT	2400	7/14/2010	-5220	1089949
Middle Fork Beargrass Creek	274303	FARM CREDIT SERVICES	LAT EXT	525	9/9/2010	-1142	1086197



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Middle Fork Beargrass Creek	278015	METROPOLITAN UROLOGY	LAT EXT	400	12/16/2010	-870	1085327
Middle Fork Beargrass Creek	359402	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2010	8000	1116532
Middle Fork Beargrass Creek	359333	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2010	12000	1108532
Middle Fork Beargrass Creek	SC1011293	MAINTENANCE WORK FY11A - MIDDLE FORK	SCAPCREDIT		12/31/2010	1205	1086532
Middle Fork Beargrass Creek	285637	SHELBYHURST OFFICE BUILDING 1	LAT EXT	6600	1/20/2011	-14355	1102177
Middle Fork Beargrass Creek	313465	DORSEY POINTE/CODOMINIUMS 8-13	LAT EXT	2400	1/27/2011	-5220	1086957
Middle Fork Beargrass Creek	291283	BROWNS LANE BUILDING	LAT EXT	400	4/14/2011	-870	1086087
Middle Fork Beargrass Creek	293400	FOUR PLEX APARTMENTS	LAT EXT	1200	6/14/2011	-2610	1083477
Middle Fork Beargrass Creek	SC1011294	MAINTENANCE WORK FY11B - MIDDLE FORK	SCAPCREDIT		6/30/2011	7183	1100660
Middle Fork Beargrass Creek	330019	FY11 ANCHOR ESTATES REHAB	SCAPCREDIT		8/11/2011	1359	1102019
Middle Fork Beargrass Creek	310046	EL NAPEL - MCMAHAN CENTER	LAT EXT	3100	10/31/2011	-6743	1085276
Middle Fork Beargrass Creek	314591	CHOCOLATE MARTINI BARRIEST	LAT EXT	3275	11/29/2011	-7123	1088153
Middle Fork Beargrass Creek	320883	FY12 HURSTBOURNE III INVESTIGATION	SCAPCREDIT		12/27/2011	1408279	2486432
Middle Fork Beargrass Creek	359335	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2011	16000	2512432
Middle Fork Beargrass Creek	SC1011295	MAINTENANCE WORK FY12A - MIDDLE FORK	SCAPCREDIT		12/31/2011	919	2513351
Middle Fork Beargrass Creek	321228	SINGLE FAMILY UNIT	LAT EXT	400	2/15/2012	-870	2512481
Middle Fork Beargrass Creek	SC1005671	CONTRACTED WORK FY12 - MIDDLE FORK	SCAPCREDIT		3/16/2012	7305	2519786
Middle Fork Beargrass Creek	321647	SINGLE FAMILY	LAT EXT	400	3/27/2012	-870	2518916
Middle Fork Beargrass Creek	328074	SINGLE FAMILY-703 FOUNTAIN AVE	LAT EXT	400	6/22/2012	-870	2518046
Middle Fork Beargrass Creek	SC1011297	MAINTENANCE WORK FY12B - MIDDLE FORK	SCAPCREDIT		6/30/2012	949	2518995
Middle Fork Beargrass Creek	193195	CEDAR LAKE LODGE WASHBURN	LAT EXT	1900	8/20/2012	-4133	2514862
Middle Fork Beargrass Creek	320823	FY12 ST MATTHEWS III REHABILITATION	SCAPCREDIT		8/23/2012	20841	2535703
Middle Fork Beargrass Creek	337796	CHAMPPS	LAT EXT	635	9/5/2012	-1381	2534322
Middle Fork Beargrass Creek	347126	ADVANCE PRODUCTION SYSTEMS	LAT EXT	400	12/28/2012	-870	2533452
Middle Fork Beargrass Creek	145C1003	MAINTENANCE WORK FY13A - MIDDLE FORK	SCAPCREDIT		12/31/2012	3309	2536761

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Middle Fork Beargrass Creek	359336	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2012	92000	2628761
Middle Fork Beargrass Creek	339367	BAPTIST RADIATION ONCOLOGY	LAT EXT	1500	1/4/2013	-3263	2625498
Middle Fork Beargrass Creek	340778	PANDA RESTAURANT	LAT EXT	1725	1/16/2013	-3752	2621746
Middle Fork Beargrass Creek	349044	BLAIRWOOD POOL ADDITION	LAT EXT	400	1/29/2013	-870	2620876
Middle Fork Beargrass Creek	328659	SINGLE FAMILY HOME - 6911 AMBR	LAT EXT	400	2/4/2013	-870	2620006
Middle Fork Beargrass Creek	352805	POOL HOUSE 9213 REIGATE COURT	LAT EXT	200	2/20/2013	-435	2619571
Middle Fork Beargrass Creek	14LE1001	MIRANDA LAGRANGE RD	LAT EXT	400	3/19/2013	-870	2618701
Middle Fork Beargrass Creek	350246	SINGLE FAMILY - 218 BLISS AVE	LAT EXT	400	3/20/2013	-870	2617831
Middle Fork Beargrass Creek	349874	SINGLE FAMILY 205 N WATTERSON	LAT EXT	400	3/26/2013	-870	2616961
Middle Fork Beargrass Creek	342433	SHELBYHURST 700 OFFICE BLDG	LAT EXT	7500	4/15/2013	-16313	2600648
Middle Fork Beargrass Creek	350340	JARED THE GALLERY OF JEWELRY	LAT EXT	770	4/16/2013	-1675	2598973
Middle Fork Beargrass Creek	SC1005632	CONTRACTED WORK FY13 - MIDDLE FORK	SCAPCREDIT		5/30/2013	6480	2605453
Middle Fork Beargrass Creek	13LE1009	Single family 11716 Wetherby Ave	LAT EXT	400	6/7/2013	-870	2604583
Middle Fork Beargrass Creek	SC1082545	MAINTENANCE WORK FY13 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6/30/2013	6989	2611572
Middle Fork Beargrass Creek	13LE1001	Single Family 835 Fountain Ave	LAT EXT	400	8/28/2013	-870	2610702
Middle Fork Beargrass Creek	344385	WALDORF SCHOOL OF LOUISVILLE	LAT EXT	400	9/3/2013	-870	2609832
Middle Fork Beargrass Creek	355162	PROPOSED RESTAURANT	LAT EXT	7540	9/10/2013	-16400	2593432
Middle Fork Beargrass Creek	13LE1045	SINGLE FAMILY 8325 WHIPPS MILL RD	LAT EXT	400	9/30/2013	-870	2592562
Middle Fork Beargrass Creek	319292	WATERMARK ON HURSTBOURNE	LAT EXT	71600	10/22/2013	-155730	2436832
Middle Fork Beargrass Creek	331542	DENTAL/MEDICAL OFFICE BLDG	LAT EXT	400	10/28/2013	-870	2435962
Middle Fork Beargrass Creek	13LE1144	SINGLE FAMILY 1328 ETAWAH AVE	LAT EXT	400	11/5/2013	-870	2435092
Middle Fork Beargrass Creek	13LE1128	SINGLE FAMILY HOME 1327 ETAWAH AVE	LAT EXT	400	11/5/2013	-870	2434222
Middle Fork Beargrass Creek	13LE1165	SINGLE FAMILY 8504 LORE LANE	LAT EXT	400	11/25/2013	-870	2433352
Middle Fork Beargrass Creek	13LE1146	CITY OF ST MATTHEWS COMMUNITY CTR PARK RESTROOM	LAT EXT	1500	11/26/2013	-3263	2430089
Middle Fork Beargrass Creek	13LE1099	NICKLIES - ST MATTHEWS	LAT EXT	1920	12/11/2013	-4176	2425913



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Middle Fork Beargrass Creek	353963	DORSEY COMMONS TRACTS 1,2,3	LAT EXT	1960	12/18/2013	-4263	2421650
Middle Fork Beargrass Creek	SC1082546	MAINTENANCE WORK FY14 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		12/30/2013	9183	2512833
Middle Fork Beargrass Creek	352026	MCMAHAN PLAZA PHASE II BLDG B	LAT EXT	766	12/31/2013	-1666	2511167
Middle Fork Beargrass Creek	13LE1117	THE VININGS	LAT EXT	850	4/10/2014	-1849	2509318
Middle Fork Beargrass Creek	14LE1021	KODA KENTUCKY ORGAN DONOR AFFILIATES	LAT EXT	400	6/18/2014	-870	2508448
Middle Fork Beargrass Creek	14LE1128	WALDORF SCHOOL OF LOUISVILLE	LAT EXT	400	6/30/2014	-870	2507578
Middle Fork Beargrass Creek	SC1082547	MAINTENANCE WORK FY14 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6/30/2014	4404	2511982
Middle Fork Beargrass Creek	13LE1163	FIRSTWATCH RESTAURANT	LAT EXT	925	7/7/2014	-2012	2509970
Middle Fork Beargrass Creek	14LE1114	Madison Station	LAT EXT	1640	7/17/2014	-3567	2506403
Middle Fork Beargrass Creek	356879	MARYHURST CAMPUS ADDITION	LAT EXT	1800	8/1/2014	-3915	2502488
Middle Fork Beargrass Creek	14LE1040	SFU-206 Wood Road	LAT EXT	400	8/18/2014	-870	2501618
Middle Fork Beargrass Creek	354880	ADULT DAY CARE	LAT EXT	630	8/19/2014	-1370	2500248
Middle Fork Beargrass Creek	14LE1081	Woodlawn Center - Lot 2	LAT EXT	540	9/8/2014	-1175	2489073
Middle Fork Beargrass Creek	LE921312	Oxmoor Ford Car Wash	LAT EXT	2520	12/29/2014	-5481	2483592
Middle Fork Beargrass Creek	SC1082548	MAINTENANCE WORK FY15 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		12/30/2014	3664	2487256
Middle Fork Beargrass Creek	14LE1097	TOWNPPLACE SUITES & HAMPTON INN	LAT EXT	15700	1/29/2015	-34148	2463108
Middle Fork Beargrass Creek	SC1006201	FY14 GOOSE CREEK PLANTATION III REHABILITATION	SCAPCREDIT		2/10/2015	163919	2627027
Middle Fork Beargrass Creek	SC1006179	CONTRACTED WORK FY14 - MIDDLE FORK	SCAPCREDIT		2/11/2015	15043	2642070
Middle Fork Beargrass Creek	LE917106	ETSCORN - DAISEY LANE	LAT EXT	400	2/25/2015	-870	2641200
Middle Fork Beargrass Creek	LE924108	City of Middletown City Hall	LAT EXT	400	5/13/2015	-870	2640330
Middle Fork Beargrass Creek	LE943173	Single Family - 11707 Hazelwood Road	LAT EXT	400	6/30/2015	-870	2642028
Middle Fork Beargrass Creek	LE943174	Single Family - 11707 Hazelwood Road	LAT EXT	400	6/30/2015	-870	2641158
Middle Fork Beargrass Creek	SC1082549	MAINTENANCE WORK FY15 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6/30/2015	2568	2642898
Middle Fork Beargrass Creek	LE927810	The Vinings Apartments	LAT EXT	38100	10/2/2015	-82868	2558290
Middle Fork Beargrass Creek	LE940742	LOUVINO	LAT EXT	1930	10/5/2015	-4198	2554092

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Middle Fork Beargrass Creek	SC1082550	MAINTENANCE WORK FY16 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		12/30/2015	15216	2569308
Middle Fork Beargrass Creek	LE971036	Robison Park Splash Pad Bathroom	LAT EXT	400	2/4/2016	-870	2568438
Middle Fork Beargrass Creek	LE969593	First Watch	LAT EXT	760	2/22/2016	-1653	2566785
Middle Fork Beargrass Creek	14LE1026	HIGHLANDS LATIN SCHOOL GYM ADDITION	LAT EXT	400	4/18/2016	-870	2565915
Middle Fork Beargrass Creek	LE982217	Dropping Bird #12	LAT EXT	1600	5/9/2016	-3480	2562435
Middle Fork Beargrass Creek	LE939199	Westport Road Apartments	LAT EXT	62800	6/8/2016	-136590	2425845
Middle Fork Beargrass Creek	LE972151	Baptist Hospital Easter Expansion	LAT EXT	1856	6/15/2016	-4037	2421808
Middle Fork Beargrass Creek	SC1082552	MAINTENANCE WORK FY16 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6/30/2016	3573	2425381
Middle Fork Beargrass Creek	LE971405	Lyndon Lane Office Condos	LAT EXT	2652	8/30/2016	-5768	2419613
Middle Fork Beargrass Creek	LE987390	Oxmoor Park Condominiums	LAT EXT	1800	10/17/2016	-3915	2415698
Middle Fork Beargrass Creek	SC1003387	CONTRACTED WORK FY16 - MIDDLE FORK	SCAPCREDIT		10/18/2016	91264	2506962
Middle Fork Beargrass Creek	SC1006194	CONTRACTED WORK FY15 - MIDDLE FORK	SCAPCREDIT		10/24/2016	3	2506965
Middle Fork Beargrass Creek	LE986129	Norton Women's & Kosair Children's Hospital	LAT EXT	1000	11/17/2016	-2175	2504790
Middle Fork Beargrass Creek	LE1009529	Single Family Residence , 12006 Birnley	LAT EXT	400	12/14/2016	-870	2503920
Middle Fork Beargrass Creek	LE938563	The Paddock at Sawyer Park	LAT EXT	99800	12/20/2016	-217065	2286855
Middle Fork Beargrass Creek	SC1082554	MAINTENANCE WORK FY17 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		12/30/2016	2385	2289240
Middle Fork Beargrass Creek	LE1008219	BMW Certified Pre-Owned	LAT EXT	800	2/14/2017	-1740	2287500
Middle Fork Beargrass Creek	LE994524	Warwick Storage	LAT EXT	400	2/28/2017	-870	2286630
Middle Fork Beargrass Creek	LE998260	North Hurstbourne Storage	LAT EXT	400	3/28/2017	-870	2285760
Middle Fork Beargrass Creek	LE1005641	City of Anchorage Sewer Extension	LAT EXT	800	5/9/2017	-1740	2284020
Middle Fork Beargrass Creek	LE1005633	Louisville Family Chiropractor	LAT EXT	400	5/11/2017	-870	2283150
Middle Fork Beargrass Creek	SC1107188	CONTRACTED WORK FY17 - MIDDLE FORK	SCAPCREDIT		6/30/2017	51809	2338758
Middle Fork Beargrass Creek	SC1082555	MAINTENANCE WORK FY17 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6/30/2017	3799	2286949
Middle Fork Beargrass Creek	SC1082557	MAINTENANCE WORK FY18 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		12/30/2017	5851	2344609
Middle Fork Beargrass Creek	LE1017531	526 & 528 Fountain Ave	LAT EXT	800	2/19/2018	-1740	2342869



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Middle Fork Beargrass Creek	LE960104	ShelbyHurst Office - 805 Building	LAT EXT	9500	3/9/2018	-20663	2322206
Middle Fork Beargrass Creek	LE960135	ShelbyHurst Office - 815 Building	LAT EXT	5000	3/15/2018	-10875	2311331
Middle Fork Beargrass Creek	LE1032029	The Enclave at Douglas Hills Section 1	LAT EXT	27200	4/23/2018	-59160	2252171
Middle Fork Beargrass Creek	LE960133	ShelbyHurst Office - 435 Building	LAT EXT	7125	5/17/2018	-15497	2236674
Middle Fork Beargrass Creek	LE1056615	Bennett & Bloom Medical Office	LAT EXT	585	6/6/2018	-1272	2235402
Middle Fork Beargrass Creek	LE1041043	Single Family Unit (Lot 11)	LAT EXT	400	7/24/2018	-870	2234532
Middle Fork Beargrass Creek	166053	616 & 618 FOUNTAIN AVE S/S	LAT EXT	400	9/7/2018	-870	2233662
Middle Fork Beargrass Creek	LE1074826	Tri-Plex Apartments	LAT EXT	900	10/6/2018	-1858	2231704
Middle Fork Beargrass Creek	LE1085525	Brown Park	LAT EXT	400	1/15/2019	-870	2230834
Middle Fork Beargrass Creek	SC1107196	CONTRACTED WORK FY19 - MIDDLE FORK	SCAPCREDIT		4/22/2019	1476	2232310
Middle Fork Beargrass Creek	LE1082291	Taco Bell	LAT EXT	1100	5/29/2019	-2393	2229917
Middle Fork Beargrass Creek	SC1109835	MAINTENANCE WORK FY19 MIDDLE FORK	SCAPCREDIT		6/30/2019	23947	2253864
Middle Fork Beargrass Creek	LE1102470	Hurstbourne Town Center - Hyatt House Louisville E	LAT EXT	15275	7/1/2019	-33223	2220641
Middle Fork Beargrass Creek	LE1051776	Bluegrass Manor - Tract 2	LAT EXT	450	7/23/2019	-979	2219662
Middle Fork Beargrass Creek	LE1020250	LFPL - Northeast Regional Library	LAT EXT	800	7/26/2019	-1740	2217922
Middle Fork Beargrass Creek	LE1024084	Morat Avenue Apartments	LAT EXT	62250	7/26/2019	-13594	2082528
Middle Fork Beargrass Creek	LE1039542	Meadowview - Breckenridge Lane	LAT EXT	2080	8/28/2019	-4524	2078004
Middle Fork Beargrass Creek	LE1083952	1700 Cold Spring Rd & 12004 Osage Rd	LAT EXT	800	11/4/2019	-1740	2076264
Middle Fork Beargrass Creek	LE1086406	Stewart Condos	LAT EXT	4500	12/2/2019	-9788	2066476
Middle Fork Beargrass Creek	LE1104174	JAGGERS	LAT EXT	1460	1/30/2020	-3176	2063300
Middle Fork Beargrass Creek	LE1089288	Portland Christian School System Inc	LAT EXT	400	2/13/2020	-870	2062430
Middle Fork Beargrass Creek	LE1059259	904 Browns Lane	LAT EXT	1600	4/24/2020	-3480	2058950
Middle Fork Beargrass Creek	LE1061684	Hurstbourne Town Center - Tract1	LAT EXT	54730	4/30/2020	-119038	1927480
Middle Fork Beargrass Creek	LE1093858	Hurstbourne Town Center - Tract 5 & 6	LAT EXT	5716	4/30/2020	-12432	2046518
Middle Fork Beargrass Creek	LE1102767	Parks - Herr Lane Office Building	LAT EXT	560	5/5/2020	-1218	1926262

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Middle Fork Beargrass Creek	LE1104476	Breckenridge Center	LAT EXT	4000	5/14/2020	-8700	1917562
Middle Fork Beargrass Creek	LE1082329	St Luke's Episcopal Church	LAT EXT	920	6/5/2020	-2001	1915561
Middle Fork Beargrass Creek	SC1109845	MAINTENANCE WORK FY20 MIDDLE FORK	SCAPCREDIT		6/30/2020	7443	1923004
Middle Fork Beargrass Creek	LE11010450	Ormsby Lane Senior Apartments	LAT EXT	11900	8/28/2020	-25883	1897121
Middle Fork Beargrass Creek	LE1098358	Golden Retriever Rescue & Adoption	LAT EXT	400	9/11/2020	-870	1896251
Middle Fork Beargrass Creek	LE1104887	Episcopal Home - Dudley Square Condominiums	LAT EXT	1300	9/28/2020	-2828	1893423
Middle Fork Beargrass Creek	LE1090567	4229 Taylorsville Road	LAT EXT	11200	10/5/2020	-24360	1869063
Middle Fork Beargrass Creek	LE1105277	Partridge Meadows New Maintenance and Laundry Bldg	LAT EXT	3200	11/9/2020	-6860	1862103
Middle Fork Beargrass Creek	LE1097560	North Hursbourne Climate Controlled Storage	LAT EXT	400	2/1/2021	-870	1861233
Middle Fork Beargrass Creek	SC1109855	MAINTENANCE WORK FY21 MIDDLE FORK	SCAPCREDIT		6/30/2021	8766	1869999
Middle Fork Beargrass Creek	LE1102535	Endeavor at Warwick Village	LAT EXT	5100	11/22/2021	-11053	1858906
Middle Fork Beargrass Creek	LE1106282	Aspen Dental	LAT EXT	1395	12/2/2021	-3034	1855872
Middle Fork Beargrass Creek	LE1106661	Walgreens	LAT EXT	0	3/15/2022	0	1855872
Middle Fork Beargrass Creek	SC1107223	CONTRACTED WORK FY22 - MIDDLE FORK	SCAPCREDIT		6/6/2022	442	1856314
Middle Fork Beargrass Creek	SC1109885	MAINTENANCE WORK FY22 MIDDLE FORK	SCAPCREDIT		6/30/2022	6186	1862500
Middle Fork Beargrass Creek	LE1104269	OXMOOR CENTER RESTAURANT OUTPARCEL #1	LAT EXT	12250	11/10/2022	-26644	1835856
Middle Fork Beargrass Creek	SC1107178	FY22 I&I REMEDIATION - GRINSTEAD AREA PHASE 3	SCAPCREDIT		5/4/2023	169	1836025
Middle Fork Beargrass Creek	SC110780	MAINTENANCE WORK FY23 MIDDLE FORK	SCAPCREDIT		6/30/2023	5804	1841829
Middle Fork Beargrass Creek	LE1107725	Scooters - Westport Road	LAT EXT	400	11/7/2023	-870	1840959
Middle Fork Beargrass Creek	LE1064289	Oxmoor Center	LAT EXT	15750	11/27/2023	-34256	1806703
Middle Fork Beargrass Creek	LE1107398	Bull Run Townhomes	LAT EXT	22000	3/11/2024	-47850	1758853
Middle Fork Beargrass Creek	SC1110948	MAINTENANCE WORK FY24 MIDDLE FORK	SCAPCREDIT		6/30/2024	4314	1763167
Middle Fork Beargrass Creek							1763167
Mill Creek	359380	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2005	12000	12000
Mill Creek	359381	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2007	24000	36000
Mill Creek	235568	MAINTENANCE WORK FY06 AUG-FY09 NOV - MILL CREEK	SCAPCREDIT		11/1/2008	51530	87530



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Mill Creek	362642	MAINTENANCE WORK FY09A - MILL CREEK	SCAPCREDIT		12/31/2008	93	103623
Mill Creek	359382	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2008	16000	103530
Mill Creek	362649	MAINTENANCE WORK FY09B - MILL CREEK	SCAPCREDIT		6/30/2009	1507	105130
Mill Creek	238614	DEVEROES	LAT EXT	960	9/9/2009	-2088	103042
Mill Creek	359383	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2009	32000	160314
Mill Creek	362653	MAINTENANCE WORK FY10A - MILL CREEK	SCAPCREDIT		12/31/2009	25272	128314
Mill Creek	253586	KINGSFORD RETAIL CENTER	LAT EXT	480	1/6/2010	-1044	159270
Mill Creek	238421	6840 DIXIE HWY OUTLOT	LAT EXT	2100	4/28/2010	-4568	154702
Mill Creek	362658	MAINTENANCE WORK FY10B - MILL CREEK	SCAPCREDIT		6/30/2010	6216	160918
Mill Creek	259408	FAMILY DOLLAR 5105 DIXIE	LAT EXT	1200	7/2/2010	-2610	158308
Mill Creek	264294	SAINT PETER THE APOSTLE CATHOL	LAT EXT	2000	7/23/2010	-4350	153958
Mill Creek	276215	FAMILY DOLLAR - KRISTIN WAY	LAT EXT	400	10/12/2010	-870	153088
Mill Creek	362664	MAINTENANCE WORK FY11A - MILL CREEK	SCAPCREDIT		12/31/2010	22745	187833
Mill Creek	359384	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2010	4000	165088
Mill Creek	359325	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2010	8000	161088
Mill Creek	362671	MAINTENANCE WORK FY11B - MILL CREEK	SCAPCREDIT		6/30/2011	11745	199578
Mill Creek	320916	FY11 SONNE AVE PS REHABILITATION	SCAPCREDIT		6/30/2011	120800	320378
Mill Creek	299399	FAMILY DOLLAR - GREENWOOD RD	LAT EXT	800	10/4/2011	-1740	318638
Mill Creek	309018	PRP PERFORMING ARTS ADDITION	LAT EXT	1134	11/6/2011	-2466	316172
Mill Creek	362676	MAINTENANCE WORK FY12A - MILL CREEK	SCAPCREDIT		12/31/2011	4800	344972
Mill Creek	359326	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2011	12000	340172
Mill Creek	359385	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2011	12000	328172
Mill Creek	318096	CRACKER BARREL OLD COUNTRY	LAT EXT	6000	1/19/2012	-13050	331922
Mill Creek	SC1005678	CONTRACTED WORK FY12 - MILL CREEK	SCAPCREDIT		3/16/2012	22	331944
Mill Creek	262545	DIXIE MANOR SHOPPING CENTER	LAT EXT	965	5/21/2012	-2099	329845
Mill Creek	300374	FORT KNOX FEDERAL CREDIT UNION	LAT EXT	400	6/26/2012	-870	328975
Mill Creek	361693	FY12 MILL CREEK REHAB	SCAPCREDIT		6/30/2012	81675	414783
Mill Creek	362680	MAINTENANCE WORK FY12B - MILL CREEK	SCAPCREDIT		6/30/2012	4133	333108
Mill Creek	231800	PIONEER MOBILE HOME PARK	LAT EXT	11200	7/24/2012	-24360	390423
Mill Creek	237457	WAVERLY HILLS	LAT EXT	400	9/18/2012	-870	389553
Mill Creek	341883	NHK SPRING PRECISION	LAT EXT	17800	10/19/2012	-38715	350638
Mill Creek	334997	BEECHLAND BAPTIST CHURCH	LAT EXT	2715	12/5/2012	-5905	344933
Mill Creek	359327	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2012	148000	519929
Mill Creek	362685	MAINTENANCE WORK FY13A - MILL CREEK	SCAPCREDIT		12/31/2012	22996	371929
Mill Creek	359386	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2012	4000	348933
Mill Creek	343763	SOUTHEAST CHRISTIAN CHURCH SW	LAT EXT	6000	1/18/2013	-13050	506879
Mill Creek	224875	ASHBY GREEN APARTMENT HOMES	LAT EXT	36400	3/20/2013	-79170	427709

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Mill Creek	265944	RIVERPORT PHASE 4A - MICHELIN	LAT EXT	400	6/6/2013	-870	426839
Mill Creek	SC1082559	MAINTENANCE WORK FY13 JAN-JUN-MILL CREEK	SCAPCREDIT		6/30/2013	32425	459264
Mill Creek	314887	DAYTON FREIGHT	LAT EXT	1200	9/10/2013	-2610	456654
Mill Creek	13LE1014	LOUISVILLE FREE PUBLIC LIBRARY SOUTHWEST	LAT EXT	2400	9/26/2013	-5220	451434
Mill Creek	357140	FAMILY DOLLAR CANE RUN ROAD	LAT EXT	832	10/3/2013	-1810	446624
Mill Creek	SC1082560	MAINTENANCE WORK FY14 JUL-DEC-MILL CREEK	SCAPCREDIT		12/30/2013	11451	461075
Mill Creek	13LE1007	Cane Run Generating Station	LAT EXT	485	1/3/2014	-1077	459988
Mill Creek	13LE1171	SINGLE FAMILY HOME 3700 ROMANIA DR	LAT EXT	400	1/29/2014	-870	459128
Mill Creek	SC1082562	MAINTENANCE WORK FY14 JAN-JUN-MILL CREEK	SCAPCREDIT		6/30/2014	7753	466881
Mill Creek	14LE1120	Shively Center - Additional Office Space	LAT EXT	400	7/23/2014	-870	466011
Mill Creek	14LE1124	Raising Cane's - 5212 Dixie Highway	LAT EXT	1400	8/16/2014	-3045	462966
Mill Creek	14LE1075	Global Drive Warehouse Addition	LAT EXT	1200	9/15/2014	-2610	460356
Mill Creek	14LE1171	Planet Fitness	LAT EXT	3400	9/16/2014	-7395	452961
Mill Creek	14LE1164	Nair Office Building Expansion	LAT EXT	795	11/25/2014	-1729	451232
Mill Creek	SC1082563	MAINTENANCE WORK FY15 JUL-DEC-MILL CREEK	SCAPCREDIT		12/30/2014	4491	455723
Mill Creek	SC1005536	FY13 ROSA TERRACE III REHABILITATION	SCAPCREDIT		3/10/2015	156635	612358
Mill Creek	SC1082564	MAINTENANCE WORK FY15 JAN-JUN-MILL CREEK	SCAPCREDIT		6/30/2015	4861	617219
Mill Creek	LE941671	Key Oil	LAT EXT	400	6/30/2015	-870	616349
Mill Creek	SC1003690	CONTRACTED WORK FY15 - MILL CREEK	SCAPCREDIT		7/31/2015	58	616407
Mill Creek	LE937142	ZAXBYS DIXIE HWY	LAT EXT	924	8/10/2015	-2010	614397
Mill Creek	LE945721	Thorntons Convenience Store/Gas Station	LAT EXT	1000	10/6/2015	-2175	612222
Mill Creek	LE938172	Miss Metals	LAT EXT	400	10/6/2015	-870	611352
Mill Creek	LE947311	Chick-fil-A	LAT EXT	1500	10/28/2015	-3263	608089
Mill Creek	LE959150	Miss Metals Processing Warehouse Expansion	LAT EXT	1000	11/23/2015	-2175	605914
Mill Creek	LE942399	Restaurant - 6800 Dixie Highway	LAT EXT	860	12/14/2015	-1871	604043
Mill Creek	SC1082565	MAINTENANCE WORK FY16 JUL-DEC-MILL CREEK	SCAPCREDIT		12/30/2015	6892	610735
Mill Creek	LE971379	Discount Tires	LAT EXT	400	2/22/2016	-870	609865
Mill Creek	LE953021	Thorntons - 4136 Cane Run Road	LAT EXT	1000	5/9/2016	-2175	607690
Mill Creek	LE967622	1719 Leroy Ave. Town Homes	LAT EXT	4200	5/9/2016	-9135	598555
Mill Creek	SC1082566	MAINTENANCE WORK FY16 JAN-JUN-MILL CREEK	SCAPCREDIT		6/30/2016	3523	602078
Mill Creek	LE944727	Britz Deer Hollow Lane	LAT EXT	800	7/28/2016	-1740	600338
Mill Creek	SC1082567	MAINTENANCE WORK FY17 JUL-DEC-MILL CREEK	SCAPCREDIT		12/30/2016	12857	613195
Mill Creek	SC1107184	CONTRACTED WORK FY17 - MILL CREEK	SCAPCREDIT		2/20/2017	11	613206
Mill Creek	LE978336	Blue Iguana Car Wash	LAT EXT	20217	4/7/2017	-43972	569234
Mill Creek	SC1082568	MAINTENANCE WORK FY17 JAN-JUN-MILL CREEK	SCAPCREDIT		6/30/2017	5103	574337
Mill Creek	LE991553	Greenwood Plaza	LAT EXT	1256	10/19/2017	-2732	571605
Mill Creek	LE1025905	RussTech, Inc	LAT EXT	875	11/13/2017	-1903	569702



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Mill Creek	SC1082569	MAINTENANCE WORK FY18 JUL-DEC-MILL CREEK	SCAPCREDIT		12/30/2017	27293	596995
Mill Creek	LE986760	Algood Food Company Warehouse	LAT EXT	750	3/8/2018	-1631	595364
Mill Creek	LE1049057	Advanced ENT	LAT EXT	705	5/15/2018	-1533	593831
Mill Creek	LE995375	1105 Dorsey lane	LAT EXT	10300	4/10/2019	-22403	571428
Mill Creek	LE1041776	Terry Road Gas & Retail	LAT EXT	788	4/12/2019	-1714	569714
Mill Creek	SC1109836	MAINTENANCE WORK FY19 MILL CREEK	SCAPCREDIT		6/30/2019	14217	583931
Mill Creek	LE1039415	Delcour Multi-Family Apartments	LAT EXT	60400	10/31/2019	-131370	452561
Mill Creek	SC1109846	MAINTENANCE WORK FY20 MILL CREEK	SCAPCREDIT		6/30/2020	7866	460247
Mill Creek	SC1109856	MAINTENANCE WORK FY21 MILL CREEK	SCAPCREDIT		6/30/2021	3901	464148
Mill Creek	SC1107224	CONTRACTED WORK FY22 - MILL CREEK	SCAPCREDIT		5/31/2022	15742	479890
Mill Creek	SC1109866	MAINTENANCE WORK FY22 MILL CREEK	SCAPCREDIT		6/30/2022	4062	483952
Mill Creek	SC1110781	MAINTENANCE WORK FY23 MILL CREEK	SCAPCREDIT		6/30/2023	8820	492772
Mill Creek	SC1110949	MAINTENANCE WORK FY24 MILL CREEK	SCAPCREDIT		6/30/2024	2433	495205
Mill Creek							495205
Northern Ditch	359404	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2007	28000	28000
Northern Ditch	235569	MAINTENANCE WORK FY06 AUG-FY09 NOV - NORTHERN DIT	SCAPCREDIT		11/1/2008	11147	39147
Northern Ditch	236363	FY09 NORTHERN DITCH INT REHAB PH1	SCAPCREDIT		11/25/2008	108760	147907
Northern Ditch	SC1011338	MAINTENANCE WORK FY09A - NORTHERN DITCH	SCAPCREDIT		12/31/2008	11	147918
Northern Ditch	SC1011339	MAINTENANCE WORK FY09B - NORTHERN DITCH	SCAPCREDIT		6/30/2009	1884	149802
Northern Ditch	359339	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2009	4000	154979
Northern Ditch	SC1011340	MAINTENANCE WORK FY10A - NORTHERN DITCH	SCAPCREDIT		12/31/2009	1177	150979
Northern Ditch	234678	THE LIGHTHOUSE PROMISE COMPLEX	LAT EXT	2825	3/5/2010	-6144	148835
Northern Ditch	SC1011343	MAINTENANCE WORK FY10B - NORTHERN DITCH	SCAPCREDIT		6/30/2010	2532	151367
Northern Ditch	284728	SUBWAY - NEW CUT RD	LAT EXT	1314	12/21/2010	-2858	148509
Northern Ditch	SC1011344	MAINTENANCE WORK FY11A - NORTHERN DITCH	SCAPCREDIT		12/31/2010	2456	154965
Northern Ditch	359340	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2010	4000	152909
Northern Ditch	320908	FY11 PARKVIEW ESTATES REHABILITATION	SCAPCREDIT		6/28/2011	36	155001
Northern Ditch	SC1011345	MAINTENANCE WORK FY11B - NORTHERN DITCH	SCAPCREDIT		6/30/2011	1989	156990
Northern Ditch	312810	WILLOW PLACE APT COMMUNITY CEN	LAT EXT	400	11/11/2011	-870	156120
Northern Ditch	359341	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2011	24000	193031
Northern Ditch	359405	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2011	12000	169031
Northern Ditch	SC1011346	MAINTENANCE WORK FY12A - NORTHERN DITCH	SCAPCREDIT		12/31/2011	911	157031
Northern Ditch	315723	JCPS EARLY CHILDHOOD DEVELOP	LAT EXT	6000	1/26/2012	-13050	179981
Northern Ditch	312057	DOLLAR GENERAL - MEDALLION CT	LAT EXT	400	3/21/2012	-870	179111
Northern Ditch	SC1011336	MAINTENANCE WORK FY12B - NORTHERN DITCH	SCAPCREDIT		6/30/2012	7893	187004
Northern Ditch	312659	KROGER L-350 FUEL STATION	LAT EXT	400	8/20/2012	-870	186134
Northern Ditch	14SC1004	MAINTENANCE WORK FY13A - NORTHERN DITCH	SCAPCREDIT		12/31/2012	4239	214373

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Northern Ditch	359343	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2012	24000	210134
Northern Ditch	SC1082570	MAINTENANCE WORK FY13 JAN-JUN-NORTH DITCH	SCAPCREDIT		6/30/2013	6459	220832
Northern Ditch	13LE1147	CARLON ROOFING	LAT EXT	992	12/5/2013	-2158	218674
Northern Ditch	13LE1126	JENNINGS CROSSING TRACT 3	LAT EXT	2100	12/12/2013	-4568	214106
Northern Ditch	SC1082571	MAINTENANCE WORK FY14 JUL-DEC-NORTH DITCH	SCAPCREDIT		12/30/2013	2707	218813
Northern Ditch	SC1082572	MAINTENANCE WORK FY14 JAN-JUN-NORTH DITCH	SCAPCREDIT		6/30/2014	9044	225857
Northern Ditch	SC1006180	CONTRACTED WORK FY14 - NORTHERN DITCH	SCAPCREDIT		10/21/2014	5	225862
Northern Ditch	14LE1136	Single Family - 5220 Petersburg Road	LAT EXT	400	12/29/2014	-870	221860
Northern Ditch	14LE1065	Jennings Crossings Tracts 1 & 2	LAT EXT	1440	12/29/2014	-3132	222730
Northern Ditch	SC1082573	MAINTENANCE WORK FY15 JUL-DEC-NORTH DITCH	SCAPCREDIT		12/30/2014	8330	230190
Northern Ditch	LE918332	Trei Louisville - HVAC Distributors	LAT EXT	4225	5/20/2015	-9189	221001
Northern Ditch	SC1082575	MAINTENANCE WORK FY15 JAN-JUN-NORTH DITCH	SCAPCREDIT		6/30/2015	5584	226585
Northern Ditch	LE947316	Heimbrock I	LAT EXT	400	8/14/2015	-870	224825
Northern Ditch	LE947318	Heimbrock II	LAT EXT	400	8/14/2015	-870	225695
Northern Ditch	SC1082576	MAINTENANCE WORK FY16 JUL-DEC-NORTH DITCH	SCAPCREDIT		12/30/2015	6074	230899
Northern Ditch	LE968510	Hugh Ave. Warehouse	LAT EXT	400	1/5/2016	-870	230029
Northern Ditch	SC1082577	MAINTENANCE WORK FY16 JAN-JUN-NORTH DITCH	SCAPCREDIT		6/30/2016	5519	235548
Northern Ditch	LE978344	Townplace Suites	LAT EXT	9500	11/7/2016	-20863	214885
Northern Ditch	SC1082578	MAINTENANCE WORK FY17 JUL-DEC-NORTH DITCH	SCAPCREDIT		12/30/2016	9266	224151
Northern Ditch	SC1082579	MAINTENANCE WORK FY17 JAN-JUN-NORTH DITCH	SCAPCREDIT		6/30/2017	6441	230592
Northern Ditch	SC1082580	MAINTENANCE WORK FY18 JUL-DEC-NORTH DITCH	SCAPCREDIT		12/30/2017	7810	238402
Northern Ditch	LE1042541	5051 Poplar Level	LAT EXT	7600	4/9/2018	-16530	221872
Northern Ditch	LE1053453	Durrett Lane & Preston Highway Convenience Store/G	LAT EXT	1880	8/28/2018	-4089	217783
Northern Ditch	LE1056400	Thomas Car Wash	LAT EXT	4670	10/10/2018	-10157	207626
Northern Ditch	LE1032761	TRACKSIDE at Churchill Downs	LAT EXT	13400	10/22/2018	-29145	178481
Northern Ditch	SC1107188	CONTRACTED WORK FY19 - NORTHERN DITCH	SCAPCREDIT		6/18/2019	14321	192802
Northern Ditch	SC1108837	MAINTENANCE WORK FY19 NORTHERN DITCH	SCAPCREDIT		6/30/2019	27535	220337
Northern Ditch	SC1108847	MAINTENANCE WORK FY20 NORTHERN DITCH	SCAPCREDIT		6/30/2020	10114	230451
Northern Ditch	SC1108857	MAINTENANCE WORK FY21 NORTHERN DITCH	SCAPCREDIT		6/30/2021	8580	239031
Northern Ditch	SC1108887	MAINTENANCE WORK FY22 NORTHERN DITCH	SCAPCREDIT		6/30/2022	4359	243390
Northern Ditch	SC1110782	MAINTENANCE WORK FY23 NORTHERN DITCH	SCAPCREDIT		6/30/2023	14752	258142
Northern Ditch	SC1110950	MAINTENANCE WORK FY24 NORTHERN DITCH	SCAPCREDIT		6/30/2024	2961	261103
Northern Ditch							261103
Ohio River FM	359344	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2007	4000	60000
Ohio River FM	359433	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2007	56000	56000
Ohio River FM	235572	MAINTENANCE WORK FY06 AUG-FY09 NOV - ORFM	SCAPCREDIT		11/1/2008	19826	79826
Ohio River FM	362643	MAINTENANCE WORK FY09A - ORFM	SCAPCREDIT		12/31/2008	2	79828



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Ohio River FM	362650	MAINTENANCE WORK FY09B - ORFM	SCAPCREDIT		6/30/2009	3835	83663
Ohio River FM	362654	MAINTENANCE WORK FY10A - ORFM	SCAPCREDIT		12/31/2009	7330	90993
Ohio River FM	263548	SINGLE FAMILY CONNECTION	LAT EXT	400	5/18/2010	-870	90123
Ohio River FM	213488	NORTHEAST CHRISTIAN CHURCH	LAT EXT	10000	6/28/2010	-21750	68373
Ohio River FM	362660	MAINTENANCE WORK FY10B - ORFM	SCAPCREDIT		6/30/2010	6773	75146
Ohio River FM	254819	TRILOGY HEALTH SERVICES, LLC	LAT EXT	8200	8/30/2010	-17835	57311
Ohio River FM	362665	MAINTENANCE WORK FY11A - ORFM	SCAPCREDIT		12/31/2010	181	57492
Ohio River FM	362672	MAINTENANCE WORK FY11B - ORFM	SCAPCREDIT		6/30/2011	4139	61631
Ohio River FM	280837	SPRINGHURST TOWNE CTR LOT C	LAT EXT	400	9/20/2011	-870	60761
Ohio River FM	320920	FY11 SHADOW WOOD // REHABILITATION	SCAPCREDIT		9/30/2011	14279	75040
Ohio River FM	311412	SPRINGHURST CHEVROLET	LAT EXT	855	10/14/2011	-1860	73180
Ohio River FM	359434	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2011	16000	112448
Ohio River FM	359345	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2011	16000	96448
Ohio River FM	362677	MAINTENANCE WORK FY12A - ORFM	SCAPCREDIT		12/31/2011	7268	80448
Ohio River FM	320921	FY12 DERINGTON COURT // REHABILITATION	SCAPCREDIT		3/1/2012	56208	186656
Ohio River FM	213450	GLENVIEW PARK SUB, SEC 2	LAT EXT	5600	3/5/2012	-12180	146906
Ohio River FM	187028	GLENVIEW PARK SUBD SECTION 1	LAT EXT	4400	3/5/2012	-9570	159086
Ohio River FM	322455	FIRST LADY NAILS	LAT EXT	400	3/12/2012	-870	146036
Ohio River FM	SC1011315	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		6/30/2012	19941	185918
Ohio River FM	362681	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		6/30/2012	19941	165977
Ohio River FM	292239	SPRINGHURST RESTAURANT/ RETAIL	LAT EXT	3440	7/5/2012	-7482	178436
Ohio River FM	323821	TIRE DISCOUNTERS WESTPORT RD	LAT EXT	400	12/11/2012	-870	177566
Ohio River FM	341319	RAISING CANES RETAIL CENTER	LAT EXT	1225	12/18/2012	-2664	247605
Ohio River FM	363238	FY13 PROSPECT MANHOLE REHAB	SCAPCREDIT		12/18/2012	72703	260269
Ohio River FM	359346	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2012	24000	314419
Ohio River FM	362686	MAINTENANCE WORK FY13A - ORFM	SCAPCREDIT		12/31/2012	1161	290419
Ohio River FM	363235	FY13 MUDDY FORK MH REHAB	SCAPCREDIT		12/31/2012	41653	289258
Ohio River FM	322458	KROGER L-707 STORE EXPANSION	LAT EXT	400	3/12/2013	-870	313549
Ohio River FM	360262	SINGLE FAMILY 34-19 HILLVALE RD	LAT EXT	400	5/13/2013	-870	312679
Ohio River FM	343729	RETAIL & RESTAURANT	LAT EXT	3500	6/21/2013	-7613	305066
Ohio River FM	SC1082581	MAINTENANCE WORK FY13 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		6/30/2013	279	305345
Ohio River FM	13LE1145	SINGLE FAMILY 3930 1/2 OLD BROWNSBORO RD	LAT EXT	400	11/5/2013	-870	304475
Ohio River FM	334154	GLENVIEW PARK SUBD SEC 4	LAT EXT	3600	11/7/2013	-7830	296645
Ohio River FM	13LE1161	Single Family Residence 3221 Woodside Rd	LAT EXT	400	11/20/2013	-870	295775
Ohio River FM	SC1082582	MAINTENANCE WORK FY14 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		12/30/2013	1302	297077
Ohio River FM	13LE1024	Overlook at Beech Spring Farm Sec 4	LAT EXT	5600	12/31/2013	-12180	284897
Ohio River FM	199896	SPRINGDALE OFFICE BUILDING	LAT EXT	4210	3/11/2014	-9157	275740

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Ohio River FM	352090	DRURY INN	LAT EXT	11508	5/13/2014	-25030	250710
Ohio River FM	225863	SPRING FARM LAKES SEC 1	LAT EXT	4800	5/16/2014	-10440	240270
Ohio River FM	SC1082583	MAINTENANCE WORK FY14 JAN-JUN-OHIO RIVER FORCE IMAI	SCAPCREDIT		6/30/2014	1293	241563
Ohio River FM	177756	SUMMIT GARDENS PHASE 1	LAT EXT	32000	9/22/2014	-69600	171963
Ohio River FM	14LE1121	Riverside Sewer Extension	LAT EXT	1200	11/10/2014	-2610	169353
Ohio River FM	SC1082584	MAINTENANCE WORK FY15 JUL-DEC-OHIO RIVER FORCE IMAI	SCAPCREDIT		12/30/2014	4394	173747
Ohio River FM	SC1006181	CONTRACTED WORK FY14 - ORFM	SCAPCREDIT		12/31/2014	1654	175401
Ohio River FM	13LE1071	SPRING FARM LAKE SEC 2	LAT EXT	6000	1/16/2015	-13050	162351
Ohio River FM	352634	BAUER PROPERTY	LAT EXT	2920	2/12/2015	-6351	156000
Ohio River FM	SC1082585	MAINTENANCE WORK FY15 JAN-JUN-OHIO RIVER FORCE IMAI	SCAPCREDIT		6/30/2015	2547	158547
Ohio River FM	SC983704	FY13 PROSPECT I&I REHABILITATION - PHASE IA	SCAPCREDIT		7/12/2015	1034758	1193305
Ohio River FM	SC1003730	FY15 RIVER ROAD III REMEDIATION	SCAPCREDIT		8/5/2015	120418	1313723
Ohio River FM	LE929244	Summit Gardens Phase 2	LAT EXT	18000	10/21/2015	-39150	1274573
Ohio River FM	SC1006195	CONTRACTED WORK FY15 - ORFM	SCAPCREDIT		11/19/2015	1	1274574
Ohio River FM	LE938166	Spring Farm Lake Section 3	LAT EXT	3200	12/14/2015	-6860	1267614
Ohio River FM	SC1082586	MAINTENANCE WORK FY16 JUL-DEC-OHIO RIVER FORCE IMAI	SCAPCREDIT		12/30/2015	1478	1269092
Ohio River FM	LE950063	Panda Express - 10600 Westport Road	LAT EXT	2000	4/6/2016	-4350	1264742
Ohio River FM	SC1082587	MAINTENANCE WORK FY16 JAN-JUN-OHIO RIVER FORCE IMAI	SCAPCREDIT		6/30/2016	460	1268373
Ohio River FM	SC1082589	MAINTENANCE WORK FY17 JUL-DEC-OHIO RIVER FORCE IMAI	SCAPCREDIT		6/30/2016	3171	1267913
Ohio River FM	SC1003696	CONTRACTED WORK FY16 - ORFM	SCAPCREDIT		8/10/2016	17566	1285939
Ohio River FM	SC1003728	FY16 PROSPECT I&I REHABILITATION - PHASE IB	SCAPCREDIT		10/6/2016	199036	1484975
Ohio River FM	LE923204	Indian Springs Hotel	LAT EXT	13000	11/16/2016	-28275	1456700
Ohio River FM	SC1082590	MAINTENANCE WORK FY17 JAN-JUN-OHIO RIVER FORCE IMAI	SCAPCREDIT		6/30/2017	1630	1458330
Ohio River FM	SC1082592	MAINTENANCE WORK FY18 JUL-DEC-OHIO RIVER FORCE IMAI	SCAPCREDIT		12/30/2017	3330	1461660
Ohio River FM	SC1107187	CONTRACTED WORK FY18 - ORFM	SCAPCREDIT		6/20/2018	656	1462316
Ohio River FM	SC1109838	MAINTENANCE WORK FY19 ORFM	SCAPCREDIT		6/30/2019	7891	1470007
Ohio River FM	SC1107194	CONTRACTED WORK FY19 - ORFM	SCAPCREDIT		7/30/2019	32673	1502680
Ohio River FM	LE997630	GSR Automations, Inc.	LAT EXT	3300	9/12/2019	-7178	1495502
Ohio River FM	LE971285	Clyscap - Simcoe Lane	LAT EXT	66700	12/6/2019	-145073	1350429
Ohio River FM	LE937450	Poplar Hill Place	LAT EXT	4000	6/16/2020	-8700	1341729
Ohio River FM	SC1109848	MAINTENANCE WORK FY20 ORFM	SCAPCREDIT		6/30/2020	2650	1344379
Ohio River FM	SC1109858	MAINTENANCE WORK FY21 ORFM	SCAPCREDIT		6/30/2021	3855	1348234
Ohio River FM	LE1056413	Schuhmann - Blankenbaker Lane	LAT EXT	800	10/14/2021	-1740	1346494
Ohio River FM	SC1109782	CONTRACTED WORK FY22 - ORFM	SCAPCREDIT		6/1/2022	864	1347358
Ohio River FM	SC1109888	MAINTENANCE WORK FY22 ORFM	SCAPCREDIT		6/30/2022	2276	1349634
Ohio River FM	SC1110784	MAINTENANCE WORK FY23 ORFM	SCAPCREDIT		6/30/2023	2347	1351981
Ohio River FM	SC1110951	MAINTENANCE WORK FY24 ORFM	SCAPCREDIT		6/30/2024	1509	1353490



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Ohio River FM							1353490
Pond Creek	235574	MAINTENANCE WORK FY08 AUG-FY09 NOV - POND CREEK	SCAPCREDIT		11/1/2008	71782	71782
Pond Creek	SC1011298	MAINTENANCE WORK FY09A - POND CREEK	SCAPCREDIT		12/31/2008	1913	81695
Pond Creek	359438	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2008	4000	79782
Pond Creek	359847	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2008	4000	75782
Pond Creek	SC1011299	MAINTENANCE WORK FY08B - POND CREEK	SCAPCREDIT		6/30/2009	6403	88098
Pond Creek	359848	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2009	4000	126435
Pond Creek	SC1011305	MAINTENANCE WORK FY10A - POND CREEK	SCAPCREDIT		12/31/2009	22337	122435
Pond Creek	359439	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2009	12000	100098
Pond Creek	192513	BANNON CROSSINGS SECTION 3A-1	LAT EXT	800	2/17/2010	-1740	124895
Pond Creek	219734	DSL LIFE LONG LEARNING CENTER	LAT EXT	900	3/26/2010	-1958	122737
Pond Creek	261115	EMERGENCY RESTORATION	LAT EXT	400	4/27/2010	-870	121867
Pond Creek	SC1011307	MAINTENANCE WORK FY10B - POND CREEK	SCAPCREDIT		6/30/2010	11060	132927
Pond Creek	276977	DADISMAN BUILDERS-POPLAR TREE	LAT EXT	400	10/13/2010	-870	132057
Pond Creek	266833	THORNTONS @ PRESTON HWY	LAT EXT	400	12/1/2010	-870	131187
Pond Creek	280751	NOTTINGTON HILLS SEC 1	LAT EXT	4400	12/29/2010	-9570	121617
Pond Creek	359350	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2010	12000	153390
Pond Creek	SC1011308	MAINTENANCE WORK FY11A - POND CREEK	SCAPCREDIT		12/31/2010	19773	141390
Pond Creek	187739	GLENGARRY INDUSTRIAL PARK	LAT EXT	4300	1/13/2011	-9353	144037
Pond Creek	277777	TIRE DISCOUNTERS - BOERSTE WAY	LAT EXT	2960	3/21/2011	-6438	137599
Pond Creek	SC1011309	MAINTENANCE WORK FY11B - POND CREEK	SCAPCREDIT		6/30/2011	10562	148161
Pond Creek	304408	UPS SUPPLY CHAIN SOLUTIONS #7	LAT EXT	2250	9/14/2011	-4894	143267
Pond Creek	320918	FY12 EDSEL III REHABILITATION	SCAPCREDIT		9/27/2011	108700	249867
Pond Creek	313444	PLANET FITNESS - JEFF BLVD	LAT EXT	1600	11/4/2011	-3480	246487
Pond Creek	312391	LONGHORN STEAKHOUSE RESTAURANT	LAT EXT	4840	11/29/2011	-10527	235960
Pond Creek	320919	FY12 LANTANA III REHABILITATION	SCAPCREDIT		12/29/2011	5000	240960
Pond Creek	SC1011310	MAINTENANCE WORK FY12A - POND CREEK	SCAPCREDIT		12/31/2011	5380	286340
Pond Creek	359351	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2011	20000	260960
Pond Creek	310845	ZAXBY'S RESTAURANT	LAT EXT	3750	2/28/2012	-8156	258184
Pond Creek	255044	ISA-RECYCLING CENTER	LAT EXT	400	3/13/2012	-870	257314
Pond Creek	312814	MILLER TRANSPORTATION	LAT EXT	1800	3/19/2012	-3915	253399
Pond Creek	324554	NORTONS TEMPORARY OFFICE	LAT EXT	900	4/16/2012	-1858	251441
Pond Creek	234102	ETHOS AT VALLEY FARM SR LIVING	LAT EXT	7050	6/19/2012	-15334	236107
Pond Creek	322367	SHEPHERDS CARE MEMORY HOME	LAT EXT	2000	6/21/2012	-4350	231757
Pond Creek	SC1011313	MAINTENANCE WORK FY12B - POND CREEK	SCAPCREDIT		6/30/2012	3877	235634
Pond Creek	307332	LOUISVILLE INDUSTRIAL BLDG B	LAT EXT	2520	8/6/2012	-5481	230153
Pond Creek	SC1005884	CONTRACTED WORK FY12 - POND CREEK	SCAPCREDIT		8/10/2012	3812	213085

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Pond Creek	279860	BANNON CROSSINGS SEC 3B-2	LAT EXT	9600	8/10/2012	-20880	209273
Pond Creek	312053	DOLLAR GENERAL - CLEARWATER FA	LAT EXT	400	8/13/2012	-870	212215
Pond Creek	343465	SINGLE FAMILY 1812 GREYLING DR	LAT EXT	400	10/12/2012	-870	211345
Pond Creek	243109	OVERBROOK APARTMENTS	LAT EXT	41200	11/9/2012	-89610	121735
Pond Creek	359354	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2012	56000	203719
Pond Creek	145C1005	MAINTENANCE WORK FY13A - POND CREEK	SCAPCREDIT		12/31/2012	25984	147719
Pond Creek	329624	COPART	LAT EXT	400	2/20/2013	-870	202849
Pond Creek	320924	FY12 LEA ANN WAY INTERCEPTOR I&I RE	SCAPCREDIT		4/8/2013	1195676	1398525
Pond Creek	348882	SOUTHGATE BUSINESS CTR RETAIL	LAT EXT	2060	4/15/2013	-4481	1394044
Pond Creek	346082	ZAXBYS	LAT EXT	2065	5/2/2013	-4491	1389553
Pond Creek	SC1082593	MAINTENANCE WORK FY13 JAN-JUN-POND CREEK	SCAPCREDIT		6/30/2013	41995	1431548
Pond Creek	335385	HARRISON LOW PRESSURE SIS	LAT EXT	1600	7/2/2013	-3480	1428068
Pond Creek	SC1005534	FY13 PICADILLY III REHABILITATION	SCAPCREDIT		7/12/2013	187564	1615632
Pond Creek	320940	4 RESIDENCE SFU 7821 MANSLUK	LAT EXT	400	8/16/2013	-870	1614762
Pond Creek	SC1005538	CONTRACTED WORK FY13 - POND CREEK	SCAPCREDIT		8/27/2013	18958	1633720
Pond Creek	361336	RENAISSANCE SOUTH BUSINESS	LAT EXT	540	9/6/2013	-1175	1631675
Pond Creek	324886	PNC BANK	LAT EXT	400	9/6/2013	-870	1632850
Pond Creek	13LE1083	SINGLE FAMILY HOME 5402 (H) E WANSLUK RD	LAT EXT	400	9/26/2013	-870	1630905
Pond Creek	331546	BLAIR JEFFERSON BLVD	LAT EXT	3500	10/7/2013	-7613	1623192
Pond Creek	SC1005319	FY13 FEENBUSH III REHABILITATION	SCAPCREDIT		11/12/2013	226201	1849393
Pond Creek	353125	PEGASUS TRANSPORTATION	LAT EXT	250	12/9/2013	-544	1848849
Pond Creek	341439	PRESTON GARDENS APTS	LAT EXT	22200	12/10/2013	-48285	1676154
Pond Creek	308206	APPLEGATE FARMS	LAT EXT	57200	12/10/2013	-124410	1724439
Pond Creek	SC1082594	MAINTENANCE WORK FY14 JUL-DEC-POND CREEK	SCAPCREDIT		12/30/2013	19491	1695645
Pond Creek	13LE1179	TIMBERBEND SUBDIVISION SEC 5B	LAT EXT	6400	2/14/2014	-13920	1681725
Pond Creek	13LE1035	RENAISSANCE SOUTH BUSINESS PARK TRACT 4	LAT EXT	5415	4/10/2014	-11778	1669947
Pond Creek	13LE1115	VERIZON-OUTER LOOP	LAT EXT	400	4/22/2014	-870	1669077
Pond Creek	348014	ASHTON PARK TOWN HOMES	LAT EXT	9000	4/24/2014	-19575	1649502
Pond Creek	280180	LOUISVILLE INDUSTRIAL CTR F	LAT EXT	2480	5/16/2014	-5394	1644108
Pond Creek	14LE1085	Williams Properties - Self Storage Facility	LAT EXT	400	5/28/2014	-870	1643238
Pond Creek	13LE1034	6300 GEIL LANE WAREHOUSE	LAT EXT	720	6/9/2014	-1666	1641672
Pond Creek	14LE1052	Stor-All Fairdale	LAT EXT	400	6/12/2014	-870	1640802
Pond Creek	SC1082595	MAINTENANCE WORK FY14 JAN-JUN-POND CREEK	SCAPCREDIT		6/30/2014	14457	1655259
Pond Creek	284215	HURSTBOURNE POINTE APTS	LAT EXT	9600	7/7/2014	-20880	1634379
Pond Creek	344230	AUSTIN PARK APARTMENTS PH6	LAT EXT	27600	8/25/2014	-60030	1574349
Pond Creek	14LE1177	Valley Farm Subd.	LAT EXT	0	8/29/2014	0	1574349
Pond Creek	13LE1105	JEFFERSON COMMONS	LAT EXT	17075	11/13/2014	-37138	1537211



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Pond Creek	SC1005323	FY13 FERN CREEK III REHABILITATION	SCAPCREDIT		11/18/2014	551108	2088319
Pond Creek	SC1082596	MAINTENANCE WORK FY15 JUL-DEC-POND CREEK	SCAPCREDIT		12/30/2014	26095	2114414
Pond Creek	13LE1017	APEX ON PRESTONAPT HOMES(Formerly CITYSCAPE APTS	LAT EXT	84400	1/13/2015	-183570	1930844
Pond Creek	14LE1145	Murphy USA - Outer Loop	LAT EXT	2000	2/6/2015	-4350	1926494
Pond Creek	SC1005541	FY13 STONY BROOK III REHABILITATION	SCAPCREDIT		3/10/2015	345397	2271891
Pond Creek	SC995942	FY13 CAVEN AVE III REMEDIATION	SCAPCREDIT		3/11/2015	225645	2497536
Pond Creek	354207	COOPER FARMS SEC 11B	LAT EXT	12400	4/29/2015	-26970	2441856
Pond Creek	354209	COOPER FARMS SEC 11A	LAT EXT	13200	4/29/2015	-28710	2468826
Pond Creek	LE939897	Thorntons - 8405 National Turnpike	LAT EXT	1000	5/14/2015	-2175	2433681
Pond Creek	SC1082597	MAINTENANCE IWORK FY15 JAN-JUN-POND CREEK	SCAPCREDIT		6/30/2015	10279	2449960
Pond Creek	LE948692	Jim's Express Wash	LAT EXT	10500	7/28/2015	-22838	2427122
Pond Creek	LE951121	Algester Site	LAT EXT	400	8/7/2015	-870	2426252
Pond Creek	13LE1086	WOODS OF PENN RUN OFFSITE SS	LAT EXT	1000	8/25/2015	-2175	2424077
Pond Creek	LE950066	Challinger Lifts New Assembly	LAT EXT	1010	10/1/2015	-2197	2421880
Pond Creek	13LE1140	JEFFERSON POST APARTMENTS	LAT EXT	28800	10/2/2015	-62640	2359240
Pond Creek	LE950068	Single Family Home - 1707 Greyling Drive	LAT EXT	400	10/6/2015	-870	2357500
Pond Creek	LE950067	Single Family Home - 1801 Greyling Drive	LAT EXT	400	10/6/2015	-870	2356630
Pond Creek	14LE1116	CATALPA SPRINGS	LAT EXT	2800	12/30/2015	-6090	2365404
Pond Creek	SC1082598	MAINTENANCE WORK FY16 JUL-DEC-POND CREEK	SCAPCREDIT		12/30/2015	13994	2371494
Pond Creek	13LE1056	MORNING POINTE AT HURSTBOURNE	LAT EXT	13000	2/4/2016	-28275	2337129
Pond Creek	358356	WOODS OF PENN RUN Section 1	LAT EXT	18800	2/12/2016	-40890	2296239
Pond Creek	LE971260	Louisville Free Public Library South Central	LAT EXT	2325	2/22/2016	-5057	2291182
Pond Creek	LE947322	Renaissance South Business Park Tract 5B	LAT EXT	10140	3/14/2016	-22055	2269127
Pond Creek	LE971269	Renaissance South Business Park, Tract 5	LAT EXT	9336	3/22/2016	-20306	2248821
Pond Creek	SC1003699	CONTRACTED WORK FY16 - POND CREEK	SCAPCREDIT		5/17/2016	36063	2284884
Pond Creek	LE936598	Jefferson Commerce Center Tract 1A	LAT EXT	5250	6/6/2016	-11419	2273465
Pond Creek	14LE1170	Austin Park Phase 7 & 8	LAT EXT	26400	6/21/2016	-57420	2179505
Pond Creek	LE918484	AUSTIN PARK SS PHASE 8	LAT EXT	16800	6/21/2016	-36540	2236925
Pond Creek	SC1082599	MAINTENANCE WORK FY16 JAN-JUN-POND CREEK	SCAPCREDIT		6/30/2016	12650	2192155
Pond Creek	SC1003087	FY14 HILLRIDGE III REMEDIATION	SCAPCREDIT		6/5/2016	308164	2500339
Pond Creek	SC939830	FY15 LEAANN WAY WEST (LAWW) III REHABILITATION	SCAPCREDIT		8/20/2016	538285	3038624
Pond Creek	SC1003292	FY14 LEAANN WAY WEST (LAWW) QUAD3 III REMEDIATION	SCAPCREDIT		8/31/2016	311526	3350150
Pond Creek	SC1006197	CONTRACTED WORK FY15 - POND CREEK	SCAPCREDIT		10/24/2016	310	3350460
Pond Creek	SC1006182	CONTRACTED WORK FY14 - POND CREEK	SCAPCREDIT		10/26/2016	8390	3359850
Pond Creek	SC1005631	FY14 LEAANN WAY WEST (LAWW) QUAD4 III REHAB	SCAPCREDIT		10/31/2016	692905	4336891
Pond Creek	SC1005639	FY16 SILVER HEIGHTS SEWER REHAB	SCAPCREDIT		10/31/2016	284936	3643786
Pond Creek	SC1082601	MAINTENANCE WORK FY17 JUL-DEC-POND CREEK	SCAPCREDIT		12/30/2016	14699	4351390

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Pond Creek	LE942402	Preston Crossing Apartments	LAT EXT	46400	1/17/2017	-100920	4250470
Pond Creek	LE954229	Jefferson Commerce Center Bldg.2	LAT EXT	3150	2/2/2017	-6851	4243619
Pond Creek	LE971220	Woods of Penn Run Sec. 2	LAT EXT	20000	3/28/2017	-43500	4200119
Pond Creek	SC1082602	MAINTENANCE WORK FY17 JAN-JUN-POND CREEK	SCAPCREDIT		6/30/2017	14076	4214195
Pond Creek	LE967615	Cooper Farms Section 12	LAT EXT	21200	7/6/2017	-46110	4168085
Pond Creek	SC1107179	CONTRACTED WORK FY17 - POND CREEK	SCAPCREDIT		7/31/2017	39	4168124
Pond Creek	LE1020224	Renaissance South Business Park Tract 11	LAT EXT	6000	9/20/2017	-13050	4155074
Pond Creek	SC1082603	MAINTENANCE WORK FY18 JUL-DEC-POND CREEK	SCAPCREDIT		12/30/2017	10803	4165877
Pond Creek	LE1016885	Poplar Logistics	LAT EXT	3212	2/19/2018	-6986	4158891
Pond Creek	LE1029503	Texas Roadhouse	LAT EXT	700	3/15/2018	-1523	4157368
Pond Creek	LE1053286	Yokomori Manufacturing Facility	LAT EXT	1750	4/9/2018	-3806	4153562
Pond Creek	SC1107183	FY18 MOUNT WASHINGTON ROAD PS REHABILITATION	SCAPCREDIT		6/4/2018	4810	4202172
Pond Creek	SC1096902	FY17 ADMIRAL PS	SCAPCREDIT		6/30/2018	97768	5179940
Pond Creek	LE1049512	Poplar Logistics Center - Building 3	LAT EXT	3364	2/14/2019	-7317	5164410
Pond Creek	LE1049509	Poplar Logistics Center building 2	LAT EXT	3776	2/14/2019	-8213	5171727
Pond Creek	LE1047077	Orell Station 1C	LAT EXT	10400	6/10/2019	-22620	5141790
Pond Creek	SC1107191	FY18 OAKLAWN	SCAPCREDIT		6/21/2019	198872	5340662
Pond Creek	SC1109839	MAINTENANCE WORK FY19 POND CREEK	SCAPCREDIT		6/30/2019	4263264	9603926
Pond Creek	LE1053368	Ferndale Place Subdivision	LAT EXT	9600	7/10/2019	-20880	9583046
Pond Creek	LE1055055	Convington by the Lake Area 1	LAT EXT	33600	8/9/2019	-73080	9509966
Pond Creek	LE1048948	Estates of St Anthony Sec 3	LAT EXT	4000	11/22/2019	-8700	9501266
Pond Creek	LE1013108	Menards	LAT EXT	18450	1/6/2020	-40129	9461137
Pond Creek	LE1092680	Hidden Forest Section 2	LAT EXT	10000	1/13/2020	-21750	9439387
Pond Creek	LE1102769	L & N Federal Credit Union	LAT EXT	1950	2/18/2020	-4241	9435146
Pond Creek	LE1047091	New Cut Road Retail Shop	LAT EXT	1381	5/12/2020	-3004	9432142
Pond Creek	LE1078674	Frontgate Apartments	LAT EXT	30600	6/10/2020	-66555	9365587
Pond Creek	SC1109849	MAINTENANCE WORK FY20 POND CREEK	SCAPCREDIT		6/30/2020	15509	9381096
Pond Creek	LE1104752	Carwash USA	LAT EXT	9000	12/10/2020	-19575	9361521
Pond Creek	SC1109859	MAINTENANCE WORK FY21 POND CREEK	SCAPCREDIT		6/30/2021	8651	9370172
Pond Creek	LE1104279	Parkside at Mt. Washington Section 2	LAT EXT	48800	3/9/2022	-106140	9264032
Pond Creek	SC1107222	CONTRACTED WORK FY22 - POND CREEK	SCAPCREDIT		6/22/2022	80941	9344973
Pond Creek	SC1109889	MAINTENANCE WORK FY22 POND CREEK	SCAPCREDIT		6/30/2022	18845	9361818
Pond Creek	LE1105623	The Preserve at Cedar Creek Section 3	LAT EXT	28800	9/27/2022	-62640	9299178
Pond Creek	LE1106463	Fern Valley Road & Shepherdsville Road Commercial	LAT EXT	10060	1/6/2023	-21881	9277297
Pond Creek	SC1107191	CONTRACTED WORK FY23 - POND CREEK	SCAPCREDIT		5/19/2023	28816	9305134
Pond Creek	LE11059370	Stem Commercial Center	LAT EXT	450	5/19/2023	-979	9276318
Pond Creek	SC1110786	MAINTENANCE WORK FY23 POND CREEK	SCAPCREDIT		6/30/2023	15407	9320541
Pond Creek	LE1106887	Parkside at Mount Washington Section 3	LAT EXT	23200	2/8/2024	-50460	9270081



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Pond Creek	LE1106966	Nicolas Farms FKA Leisure Lane Subdivision	LAT EXT	20000	3/20/2024	-43500	9226581
Pond Creek	SC1110952	MAINTENANCE WORK FY24 POND CREEK	SCAPCREDIT		6/30/2024	16366	9242947
Pond Creek							9242947
Southeast Diversion	359355	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2007	8000	136000
Southeast Diversion	359440	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2007	128000	128000
Southeast Diversion	235575	MAINTENANCE WORK FY06 AUG-FY09 NOV. - SE DIVERSION	SCAPCREDIT		11/1/2008	71472	207472
Southeast Diversion	236296	FY09 BEARGRASS INT REHAB PH1 (SED)	SCAPCREDIT		12/22/2008	122688	644868
Southeast Diversion	236214	FY09 GOLDSMITH BUECHB ICA PHI REHAB	SCAPCREDIT		12/22/2008	314808	522280
Southeast Diversion	359441	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2008	16000	666523
Southeast Diversion	SC1011317	MAINTENANCE WORK FY09A - SE DIVERSION	SCAPCREDIT		12/31/2008	1555	650523
Southeast Diversion	359356	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2008	4000	648968
Southeast Diversion	SC1011318	MAINTENANCE WORK FY09B - SE DIVERSION	SCAPCREDIT		6/30/2009	2929	669452
Southeast Diversion	229854	TINY HANDS DAYCARE	LAT EXT	1225	10/20/2009	-2664	666788
Southeast Diversion	359443	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2009	8000	703762
Southeast Diversion	SC1011322	MAINTENANCE WORK FY10A - SE DIVERSION	SCAPCREDIT		12/31/2009	16974	695762
Southeast Diversion	359357	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2009	12000	678768
Southeast Diversion	235291	SULLIVAN COLLEGE OF TECHNOLOGY	LAT EXT	900	2/11/2010	-1958	701804
Southeast Diversion	236328	LOUISVILLE COLLEGIATE SPORTS	LAT EXT	400	3/1/2010	-870	700934
Southeast Diversion	241759	FRISCHS BIG BOY RESTAURANT	LAT EXT	2400	3/5/2010	-5220	695714
Southeast Diversion	257275	LOUISVILLE JUNIOR ACADEMY	LAT EXT	520	4/16/2010	-1131	694583
Southeast Diversion	270658	SINGLE FAMILY CONNECTION	LAT EXT	400	6/29/2010	-870	693713
Southeast Diversion	SC1011326	MAINTENANCE WORK FY10B - SE DIVERSION	SCAPCREDIT		6/30/2010	10739	704452
Southeast Diversion	320993	FY11 BEARGRASS CREEK PHASE II (SED)	SCAPCREDIT		12/14/2010	10368	714820
Southeast Diversion	359358	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2010	4000	753910
Southeast Diversion	359444	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2010	24000	749910
Southeast Diversion	SC1011328	MAINTENANCE WORK FY11A - SE DIVERSION	SCAPCREDIT		12/31/2010	11090	725910

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CREDIT BASIN	APPLICATION	APPLICATION NAME	TYPE	FLOW (GAL/DAY)	RELEASE DATE	APPROVED CREDIT REQUIRED OR FLOW REDUCTION (GAL/DAY)	RUNNING TOTAL (GAL/DAY)
Southeast Diversion	286513	GARDINER POINT RESIDENCE HALL	LAT EXT	10800	2/16/2011	-23490	730420
Southeast Diversion	276378	TIRE DISCOUNTERS - BARDSTOWN	LAT EXT	1500	5/6/2011	-3263	727157
Southeast Diversion	287888	BEVERAGE WAREHOUSE	LAT EXT	1180	5/30/2011	-2567	724590
Southeast Diversion	SC1011330	MAINTENANCE WORK FY11B - SE DIVERSION	SCAPCREDIT		6/30/2011	3861	728251
Southeast Diversion	296295	KEN TOWERY -3800 S HURSTBOURNE	LAT EXT	400	7/1/2011	-870	727381
Southeast Diversion	359359	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2011	64000	804452
Southeast Diversion	SC1011331	MAINTENANCE WORK FY12A - SE DIVERSION	SCAPCREDIT		12/31/2011	5071	740452
Southeast Diversion	359445	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2011	8000	735381
Southeast Diversion	325231	ASSUMPTION SPORTS AND REC CTR	LAT EXT	1800	4/20/2012	-3915	800537
Southeast Diversion	SC1011316	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		6/30/2012	24202	830880
Southeast Diversion	SC1011333	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		6/30/2012	6141	806678
Southeast Diversion	307018	HOOK PROPERTY FAMILY DOLLAR	LAT EXT	400	8/10/2012	-870	830010
Southeast Diversion	341828	SINGLE FAMILY - 3408 HUNSIGNER	LAT EXT	400	10/11/2012	-870	829140
Southeast Diversion	359361	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/2012	68000	925342
Southeast Diversion	14SC1006	MAINTENANCE WORK FY13A - SE DIVERSION	SCAPCREDIT		12/31/2012	24202	857342
Southeast Diversion	359446	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/2012	4000	831140
Southeast Diversion	187741	BROOKSTONE SENIOR APARTMENTS	LAT EXT	16800	3/11/2013	-36540	888802
Southeast Diversion	359068	SINGLE FAMILY 2233 BEARGRASS	LAT EXT	400	4/22/2013	-870	887932
Southeast Diversion	355163	ZOELLER APARTMENTS LOT 1	LAT EXT	2300	5/15/2013	-5003	882929
Southeast Diversion	232601	RAINTREE/MARIAN CT P/S ELIM	LAT EXT	105800	6/14/2013	-230115	652814
Southeast Diversion	SC1082605	MAINTENANCE WORK FY13 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6/30/2013	21761	674575
Southeast Diversion	13LE1052	BACHMAN PRE-OWNED CAR DEALERSHIP	LAT EXT	845	8/22/2013	-1838	672737
Southeast Diversion	SC1005539	CONTRACTED WORK FY13 - SOUTHEAST DIVERSION	SCAPCREDIT		9/18/2013	25344	698081
Southeast Diversion	13LE1041	RESTAURANT/RETAIL AT 2131 HURSTBOURNE PKWY	LAT EXT	1920	9/20/2013	-4176	693905
Southeast Diversion	330437	COLLEGIATE ATHLETIC FIELD	LAT EXT	800	11/26/2013	-1740	692165



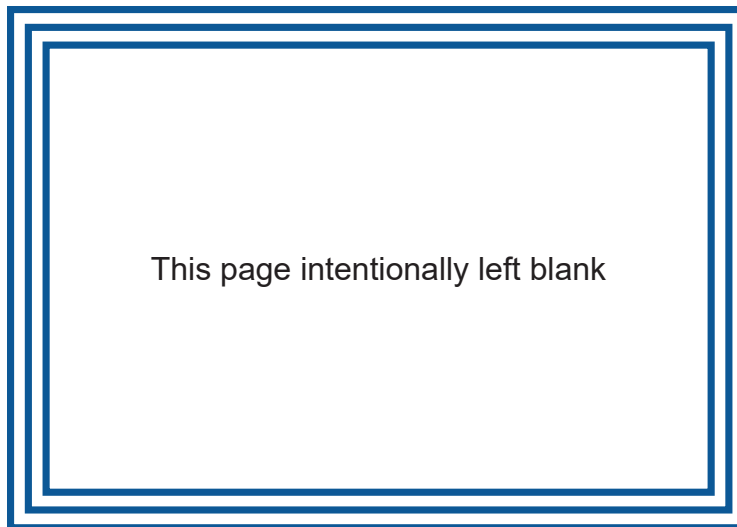
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Southeast Diversion	SC1082806	MAINTENANCE WORK FY14 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		12/30/2013	19491	711656
Southeast Diversion	SC1082807	MAINTENANCE WORK FY14 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6/30/2014	9087	720743
Southeast Diversion	14LE1156	Copper Chase Business Park, Phase	LAT EXT	840	12/29/2014	-1827	718916
Southeast Diversion	SC1082808	MAINTENANCE WORK FY15 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		12/30/2014	15321	734237
Southeast Diversion	SC1006185	CONTRACTED WORK FY14 - SOUTHEAST DIVERSION	SCAPCREDIT		2/11/2015	187478	921715
Southeast Diversion	LE939900	Thorntons - 4154 Bardstown Road	LAT EXT	1000	5/14/2015	-2175	919540
Southeast Diversion	LE932083	Commercial Shell Bldg Addition	LAT EXT	400	6/30/2015	-870	928943
Southeast Diversion	SC1082610	MAINTENANCE WORK FY15 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6/30/2015	10273	928913
Southeast Diversion	SC1006199	CONTRACTED WORK FY15 - SOUTHEAST DIVERSION	SCAPCREDIT		10/20/2015	1	928944
Southeast Diversion	LE919560	Todd's Place Express Car Wash	LAT EXT	4830	12/22/2015	-10505	918439
Southeast Diversion	SC1109798	FY16 JEFFERSONTOWN WQTC ELIMINATION CREDIT SEDIV	SCAPCREDIT		12/23/2015	968820	1887259
Southeast Diversion	SC1082611	MAINTENANCE WORK FY16 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		12/30/2015	7052	1894311
Southeast Diversion	LE948013	Unspecified Commercial Development	LAT EXT	2620	1/8/2016	-5689	1888612
Southeast Diversion	SC1003718	FY16 FSOUTHEAST DIVERSION AREA G (SEDS) II REHAB	SCAPCREDIT		2/16/2016	75998	1964610
Southeast Diversion	14LE1110	Bosniak-American Islamic Center	LAT EXT	1100	4/4/2016	-2393	1962217
Southeast Diversion	SC1003704	CONTRACTED WORK FY16 - SOUTHEAST DIVERSION	SCAPCREDIT		5/24/2016	66	1962283
Southeast Diversion	SC1082612	MAINTENANCE WORK FY16 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6/30/2016	19904	1982187
Southeast Diversion	LE943171	Costco Wholesale and Fuel Facility	LAT EXT	8000	7/28/2016	-17400	1964787
Southeast Diversion	SC1082613	MAINTENANCE WORK FY17 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		12/30/2016	5812	1970599
Southeast Diversion	LE967621	Chick-fil-A FSU #	LAT EXT	1500	1/6/2017	-3263	1967336
Southeast Diversion	SC1082614	MAINTENANCE WORK FY17 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6/30/2017	6961	1974297
Southeast Diversion	LE1019576	Bachman Subaru Dealership	LAT EXT	489	7/18/2017	-1064	1973233
Southeast Diversion	LE1030200	Wingate Hotel Pool	LAT EXT	400	8/10/2017	-870	1972363
Southeast Diversion	SC1082615	MAINTENANCE WORK FY18 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		12/30/2017	14909	1987272
Southeast Diversion	LE1031137	Collins Body Shop Expansion	LAT EXT	400	3/9/2018	-870	1986402

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Southeast Diversion	LE1002002	ALDI #39	LAT EXT	400	3/15/2018	-870	1985532
Southeast Diversion	LE1039341	Silver Creek Place Apartments	LAT EXT	7200	4/9/2018	-15660	1969872
Southeast Diversion	LE1046891	Crown Packaging	LAT EXT	400	4/18/2018	-870	1969002
Southeast Diversion	LE1061616	Bob Hook Chevrolet	LAT EXT	400	6/4/2018	-870	1968132
Southeast Diversion	LE1088750	Nicklee Paragon Centre - Corporate Office Additio	LAT EXT	3040	1/10/2019	-6612	1961520
Southeast Diversion	SC1109940	MAINTENANCE WORK FY19 SE DIVERSION	SCAPCREDIT		6/30/2019	55936	2017456
Southeast Diversion	SC1107193	CONTRACTED WORK FY19 - SOUTHEAST DIVERSION	SCAPCREDIT		8/30/2019	15760	2033216
Southeast Diversion	SC1107192	FY18 SOUTHEAST DIVERSION AREA F (SEDF)	SCAPCREDIT		9/12/2019	167410	3650626
Southeast Diversion	LE1102994	Honda World - building expansion	LAT EXT	400	1/17/2020	-870	3649756
Southeast Diversion	SC1109850	MAINTENANCE WORK FY20 SE DIVERSION	SCAPCREDIT		6/30/2020	16393	3666149
Southeast Diversion	LE1074909	Bardstown Road Storage	LAT EXT	400	7/29/2020	-870	3665279
Southeast Diversion	LE1104178	DRAKES RESTAURANT	LAT EXT	3000	1/4/2021	-6525	3658754
Southeast Diversion	LE1104275	FKC WATTERSON DIALYSIS	LAT EXT	6180	1/5/2021	-13442	3645312
Southeast Diversion	SC1109860	MAINTENANCE WORK FY21 SE DIVERSION	SCAPCREDIT		6/30/2021	15519	3660831
Southeast Diversion	SC1107199	FY20 NIGHTINGALE (SEDC) REHABILITATION	SCAPCREDIT		9/2/2021	739758	4400589
Southeast Diversion	LE1054201	9603 Watterson Trail	LAT EXT	400	11/22/2021	-870	4389719
Southeast Diversion	SC1109890	MAINTENANCE WORK FY22 SE DIVERSION	SCAPCREDIT		6/30/2022	19738	4419457
Southeast Diversion	SC110722	CONTRACTED WORK FY23 - SOUTHEAST DIVERSION	SCAPCREDIT		6/5/2023	328	4419785
Southeast Diversion	SC110787	MAINTENANCE WORK FY23 SE DIVERSION	SCAPCREDIT		6/30/2023	11654	4431439
Southeast Diversion	LE1057793	Hursbourne Commons Subdivision Section 1	LAT EXT	22400	12/14/2023	-48720	4382719
Southeast Diversion	SC1109853	MAINTENANCE WORK FY24 SE DIVERSION	SCAPCREDIT		6/30/2024	20345	4403064
Southeast Diversion							4403064





APPENDIX N

FY24 ASSET MANAGEMENT PROGRAM COSTS

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Fiscal Year	Budget ID	Project Name	Actual Expenditures
FY24	A22183	15th St Emergency Sewer Repair	\$745,739
FY24	A23182	Campground Park Excess Cost-Jefferson Co	\$106,800
FY24	A23211	Concrete Repairs at DRG Dewatering Bldg	\$162,511
FY24	A24011	Asset Management Program Implementation - \$25M AM	\$791,857
FY24	A24044	Private Property I and I Program Design	\$-
FY24	A24060	Campbell St Lining Emergency Projects	\$542,203
FY24	A24069	Jackson St. Sewer Repl. EM Cont. 2024-001	\$1,023,577
FY24	A24101	Villages of Heritage Creek Sanitary Excess Cost	\$-
FY24	A24132	Southwestern CSO Basin Bar Screen Replacement	\$-
FY24	A24133	West Goose Creek PS Rehabilitation	\$-
FY24	A24176	Hancock St. Sewer Emergency Repair	\$-
FY24	C22028	Lower Floyds Fork Facilities Plan	\$68,263
FY24	C22029	Ohio River Area Facilities Plan	\$55,173
FY24	C24014	Park DuVall Catch Basin Rehab Project Phase 2	\$278,990
FY24	C24121	California Trap Catch Basin Replacement Phase 2	\$239,913
FY24	C24139	Shawnee Trap Catch Basin Replacement	\$-
FY24	D17039	MFWQTC DAFT Rehabilitation	\$602,800
FY24	D17042	MFWQTC Sedimentation Basin RR	\$13,675,282
FY24	D18090	CCWQTC Solids Dewatering Facility	\$791,935
FY24	D18130	MFWQTC FEPS Loadcenter and MCC Replacement	\$-
FY24	D18132	DRGWQTC WWPS & WWSB Rehabilitation	\$4,007,042
FY24	D18160	MFWQTC Mixed Liquor Channel and HPO Batteries A, B, C Improvements	\$-
FY24	D18161	MFWQTC Chlorine Contact Tanks Structural Repairs	\$108,192
FY24	D19045	MFWQTC Sodium Hypochlorite Bldg Relocation	\$39,561
FY24	D19048	MSD Radio Repeaters	\$-
FY24	D19286	SWPS Gas Monitoring and SP1 Odor Control	\$-
FY24	D20007	Peabody Gate Structure Rehabilitation	\$41,125
FY24	D20008	Kirby Lane Pump Station Elimination	\$58,868
FY24	D20011	Northern Ditch Pump Station Replacement	\$220,400
FY24	D20012	SGC RTC Enhancements	\$-
FY24	D20148	FFWQTC Regional Facilities Plan Update	\$37,690
FY24	D20149	CCWQTC Admin Bldg Expansion	\$612,764
FY24	D20223	Bells Lane WWTF Polymer Dosing System Updates	\$22,256
FY24	D20224	Bells Lane Disinfection System Upgrades	\$(23,458)
FY24	D20285	MFWQTC LG Dryer Replacements	\$3,463,921
FY24	D20351	Floyds Fork Interceptor	\$952,223
FY24	D21021	FY24 MFWQTC Equipment RR	\$610,482
FY24	D21059	Asset Mgmt Plan Development	\$684,308
FY24	D21063	Odor Management Plan	\$245,473



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FY24	D21079	Fairmount Road Pump Station Force Main Extension - Phaes 2	\$143,010
FY24	D21099	FY24 Regional WQTC Equipment RR	\$547,656
FY24	D21224	DRGWQTC Sodium Hypochlorite and Process Water Buildings Roof Replacement	\$1,192
FY24	D21230	DRG RAS Pumps 2 and 3 Replacement	\$968,962
FY24	D21233	MFWQTC MEB Roof Replacement	\$(108,034)
FY24	D21239	MFWQTC Groundwater Wells Assistance	\$8,331
FY24	D21242	DRGWQTC Lab Upgrade	\$569,908
FY24	D21247	MFWQTC MEB HVAC Replacement	\$4,187,789
FY24	D22042	FFWQTC Power Factor Correction	\$81,640
FY24	D22080	DRG Clarifier 4-6 Mechanism Update	\$1,496,141
FY24	D22098	CCWQTC Re-Rating to 9_0 MGD	\$1,971,296
FY24	D22102	MFWQTC Centrifuge Repair	\$-
FY24	D22122	MFWQTC MEB Boiler Replacement	\$920,496
FY24	D22175	HCWQTC Spare Parts Pole Barn	\$-
FY24	D22178	SWPS Bar Screen Evaluation	\$5,511
FY24	D22186	MFWQTC Computer Room Upgrades	\$1,762,046
FY24	D22187	FFWQTC Tertiary Treatment Bldgs Roof Replacement	\$279,264
FY24	D22209	DRG Centrifuge Maintenance Platforms	\$-
FY24	D22211	MFWQTC Secondary Improvements (Design Definition Memorandum)	\$41,712
FY24	D22213	CCWQTC Tertiary Filtration	\$332,187
FY24	D23159	CCWQTC Maintenance Offices Roof Replacement	\$34,271
FY24	D23160	CCWQTC Roof Repairs	\$273,149
FY24	D23161	DRG Clarifier MCC and Grit Electric MCC Buildings Roof Replacement	\$56,229
FY24	D23162	DRGWQTC Grit Electric MCC Building Roof Replacement	\$-
FY24	D23163	DRGWQTC Roof Repairs	\$209,036
FY24	D23165	HCWQTC Aeration Blower Buildings, Sec 1 & 2 Roof Replacement	\$117,280
FY24	D23166	MFWQTC Activated Sludge Building Roof Replacement	\$209,667
FY24	D23167	MFWQTC Dechlorination Building Roof Replacement	\$111,042
FY24	D23168	MFWQTC Odor Control Chemical Storage Building Roof Replacement	\$25,327
FY24	D23194	MFWQTC Emergency Elevator Project	\$1,274
FY24	D24009	AI Aquasight Software at HCWQTC	\$-
FY24	D24015	CCWQTC UV Improvements	\$236,207
FY24	D24021	FFWQTC Influent Pump VFDs	\$52,289
FY24	D24022	FFWQTC Sludge Storage Tank Improvements	\$112,155
FY24	D24038	HCWQTC Sludge Screens	\$166,050
FY24	D24043	OC Forcemain to HCWQTC	\$32,500
FY24	D24045	Regional WQTC Controls Upgrades	\$210,203

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FY24	D24104	MFWQTC Secondary Load Centers Replacement	\$97,511
FY24	D24106	CCWQTC South Electrical Service	\$82,329
FY24	D24142	DRG and CC Aquasight AI Dashboard Development	\$-
FY24	D24143	MFWQTC Dafts Nos 1-8 Emergency Repairs	\$573,746
FY24	D24169	Collection System Foul Air Extraction Study	\$-
FY24	D24170	Clay Street Emergency Sewer Repair	\$299,115
FY24	E15035	Lake Forest Pump Station Elimination	\$710,831
FY24	E20112	FY24 Operations Renewal & Replacement	\$82,903
FY24	E21022	FY24 PS Replacement, Overhaul or Elimination	\$1,152,903
FY24	E21062	Modesto Pump Station Elimination	\$(12,389)
FY24	E21070	Rosa Terrace PS Elimination	\$423,231
FY24	E21071	Wathen Ln PS Elimination	\$611,169
FY24	E21090	Sonne Ave PS Elimination	\$29,623
FY24	E21091	Sanders Ln PS Rehabilitation	\$103,639
FY24	E22116	South Shelby St. Sanitary Sewer Improvements	\$10,020
FY24	E22223	Lantana Drive PS No 1 Elimination	\$98,366
FY24	E23172	Liberty Street Emergency Sewer Repair	\$2,082,622
FY24	E24017	Cypress Springs PS Elimination	\$35,797
FY24	E24026	Fox Harbor 1 & 2 and Deep Trail Pump Station Eliminations	\$243,616
FY24	E24066	Taylor Boulevard RTC Vault Decommissioning	\$28,350
FY24	E24123	John Hancock Place Sanitary Sewer Improvements	\$13,311
FY24	E24135	Bellingham Park Phase 4 Excess Cost	\$-
FY24	E24190	Brown School Sewer Repair	\$-
FY24	F15010	Gate 102 Replacement	\$602,036
FY24	F20321	Bluegrass Fields PS Renovation	\$8,297
FY24	F22210	Gate 30 Replacement	\$184,437
FY24	F23052	Flood Gate 114 Replacement	\$411,374
FY24	F24062	Starkey PS Hydraulic Actuator Replacement	\$7,820
FY24	F24136	Southwestern Basin Emergency Cleaning	\$444,506
FY24	G18147	Admiral Rd Pump Station Improvements	\$23,932
FY24	G20028	MFWQTC Elevator Repair	\$-
FY24	G23001	FY23 Renewal and Replacement	\$6,164
FY24	G23086	McNeely Lake PS Elimination Excess Cost	\$-
FY24	G24001	FY24 Renewal & Replacement_Wastewater	\$2,207,406
FY24	H14126	HCWQTC Expansion	\$88,765
FY24	H19002	FY23 Plumbing Modification Program	\$4,200
FY24	H20021	Admiral Rd. Force Main	\$36,803
FY24	H20050	CSO 016 and CSO 210 Inspection Cameras	\$160,122
FY24	H20053	FY24 CMOM Infrastructure Rehabilitation Program	\$2,376,599
FY24	H20058	FY23 CMOM I and C Implementation	\$67,487



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FY24	H20060	FY24 Linear Assets RR	\$-
FY24	H20064	FY23 CMOM Gravity Line Cleaning and Inspection	\$309,188
FY24	H20065	FY24 CMOM Gravity Line Cleaning & Inspection	\$1,098,125
FY24	H20080	FY24 Plumbing Modification Program	\$173,223
FY24	H20113	FY24 CMOM SCAP, AAM, FOG	\$71,861
FY24	H22014	MFWQTC Groundwater Dewatering Sys. Automation	\$1,836,101
FY24	H22016	AI Aquasight Software at CCWQTC	\$49,500
FY24	H22017	Regional Biosolids Management Study	\$159,743
FY24	H22018	CCWQTC Sludge Storage Tank Improvements	\$844,483
FY24	H22022	SGC Gate Replacements	\$6,816,025
FY24	H22032	DRGWQTC Sodium Bisulfite Bldg Improvements	\$2,434,652
FY24	H22038	Sneads Branch Pump Replacement	\$868,679
FY24	H22086	Floyds Fork & Ohio River Condition Assessment	\$700,478
FY24	H23016	California Neighborhood Trap Catch Basin Rehab	\$262,820
FY24	H23018	Cedar Creek Main Interceptor	\$-
FY24	H23039	Middletown Station PS Elimination	\$14,859
FY24	H23041	Olde Copper Ct PS Elimination	\$2,544
FY24	H23043	Parkwood PS Elimination	\$9,358
FY24	H23050	WQTC Regional Lab Upgrade	\$155,661
FY24	H23175	California Maple St Trap Catch Basin Rehab	\$-
FY24	H23179	CSO 140 Outfall Reconstruction	\$-
FY24	H24016	CMOM Cleaning and Inspection Legacy Data Migration	\$19,580
	Total		\$74,345,193.94



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**Louisville and Jefferson County
Metropolitan Sewer District
Second Amended Consent Decree
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