



**Louisville and Jefferson County
Metropolitan Sewer District
Second Amended Consent Decree
Annual Report FY22**

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

Reporting Period:

July 1, 2021 through June 30, 2022

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, 2022





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Subject: Annual Report
July 1, 2021 through June 30, 2022
Civil Action No. 3:05-cv-236-S
DOJ Case No. 90-5-1-1-08254

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, 2021, through June 30, 2022.

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,

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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 is anticipated to be signed by United States District Judge and filed in United States District Court, Western Division of Kentucky, Louisville Division in 2021.

Annual Reporting Period

This is the first Annual Report submitted in accordance with Paragraph 42 of the 2ACD. This report covers the time period from July 1, 2021, through June 30, 2022. 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 – This section describes the scope, schedule and status for activities that were active during the current reporting period for continued compliance with the 2ACD.

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

1.1. 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.

1.2. RAINFALL

The number and the volume of wet weather overflows are directly related to the amount of rain that has fallen during the reporting period. No new rain gauges have been installed by MSD during the reporting period, and the total network currently has 46 rain gauges, as shown in Figure 1.1. Nine gauges are located within Indiana,

Figure 1.1. MSD Rain Gauge Network

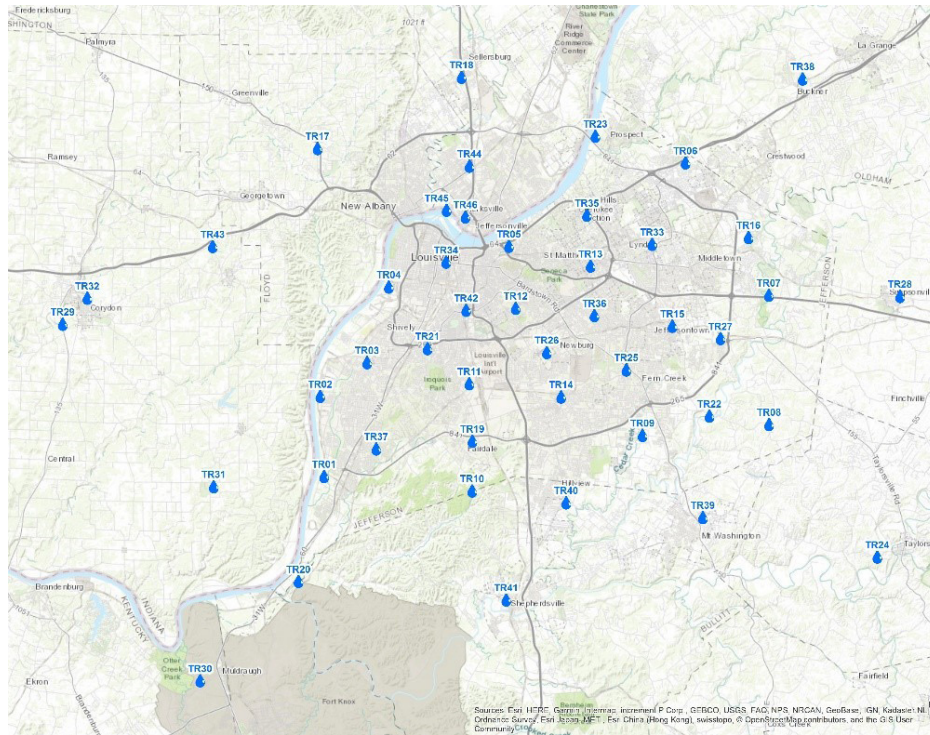
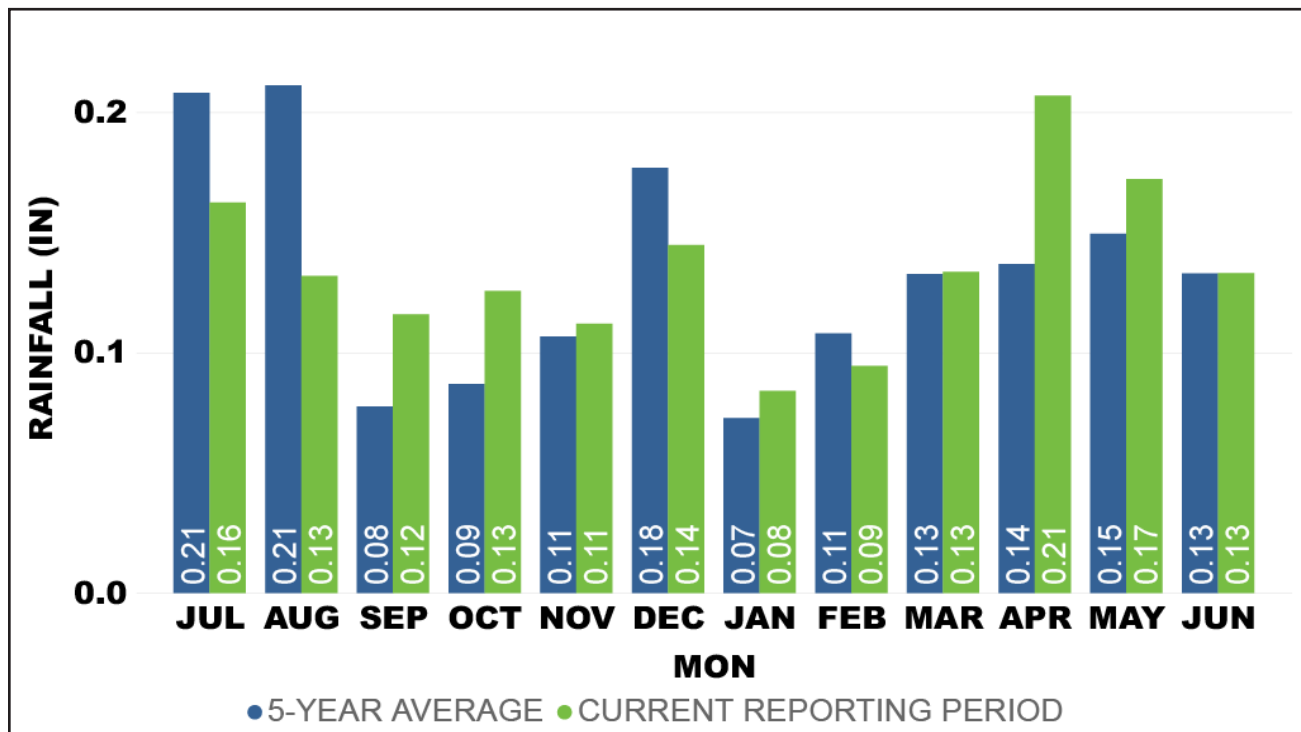


Figure 1.2. Daily Average Rainfall by Month





eight within adjacent Kentucky counties and the remaining 29 are within Jefferson County. MSD plans to continue to expand the rain gauge network as appropriate sites are identified. Figure 1.2 shows the Jefferson County average daily rainfall amounts by month for the reporting period, based on the monthly average of all MSD rain gauges, compared with the average since FY17.

1.3. 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.

1.3.1. CURRENT REPORTING PERIOD

Table 1.1 includes a summary of wet weather CSO 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	1,708	461

Refer to Appendix A for a detailed listing of discharges that occurred during the current reporting period.

1.3.2. CUMULATIVE DISCHARGE REDUCTIONS

When fully implemented and operational, MSD’s suite of wet weather CSO control projects are modeled to achieve 95 percent capture of the wet weather combined sewage generated in the service area during the Typical Year, which greatly exceeds EPA’s Presumption Approach requirement of 85 percent. Compliance with the 85 percent capture will be achieved with completion of the Waterway Protection Tunnel by December 31, 2022. MSD expects to achieve 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. The Annual Average Overflow Volume (AAOV), derived from the InfoWorks CSO hydraulic model, includes the modeled AAOV for the permitted CSOs as currently constructed, and is included as Appendix B.

1.4. UNAUTHORIZED DISCHARGES — WET WEATHER SSOs

1.4.1. CURRENT REPORTING PERIOD

Table 1.2 includes volumes and Table 1.3 includes occurrences of wet weather SSO discharges by cause and fiscal year from FY17 through the current reporting period. 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. FY19 was the wettest year within the 5-year trend and resulted in much greater overflow volumes and occurrences.

1.4.2. 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, 2022). Actual projections are subject to change as future projects are designed in detail and constructed. Table 1.6 shows the modeled baseline and reduction in number and volume of SSOs. Figure 1.3 shows the modeled reduction in volume of SSOs for the 2-, 5-, and 10-year storm events and Figure 1.4 shows the modeled reduction in occurrences.

Table 1.2. 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	UTILITY DAMAGED MSD ASSET
FY17	7,155	9,268,788	11,600	0	9,000	0	0	1,240	0
FY18	40,750	54,120,134	13,000	32,400	5,980	1,233,600	50,160	50	0
FY19	11,500	393,105,321	51,075	30,000	0	10,000	0	252,225	0
FY20	0	64,032,304	468,080	0	0	2,000	0	316,505	50,000
FY21	0	88,991,206	200	537,600	0	156,000	0	57,705	0
FY22	0	77,043,803	326	263,000	8,950	0	24,612	0	0

Table 1.3. 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	UTILITY DAMAGED MSD ASSET
FY17	2	63	2	0	1	0	0	1	0
FY18	2	184	2	2	2	1	2	2	0
FY19	1	405	5	1	0	1	0	6	0
FY20	0	113	5	0	0	1	0	3	1
FY21	0	152	1	3	0	1	0	2	0
FY22	0	233	1	4	2	0	5	0	0

Table 1.4. Dry Weather CSO Discharge Volume (gal) - Historic and Current Reporting Periods

DUE TO	ELECTRICAL PROBLEMS AT MSD	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET	PUMPED DUE TO COE MANUAL	POWER OUTAGE (LG&E)
FY17	260,000	0	3,231	0	277,022	0	0
FY18	142,000	0	30,754	210,578,054	206,888,000	0	0
FY19	9,000	42,667	324,090	27,340,197	0	13,680,000	0
FY20	0	0	15,430	0	0	0	0
FY21	0	0	100,000	2,657	25,028	0	1,200,000
FY22	0	0	0	0	364,658	0	0

Table 1.5. Dry Weather CSO Discharge Occurrence - Historic and Current Reporting Periods

DUE TO	ELECTRICAL PROBLEMS AT MSD	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET	PUMPED DUE TO COE I/MANUAL	POWER OUTAGE (LG&E)
FY17	1	0	2	0	4	0	0
FY18	1	0	2	2	6	0	0
FY19	1	1	6	5	0	1	0
FY20	0	0	1	0	0	0	0
FY21	0	0	1	1	2	0	1
FY22	0	0	0	0	2	0	0

Table 1.6. 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	21	211	48	218	75
2022	63	4	167	13	193	34
2034	0	0	137	5	178	21

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

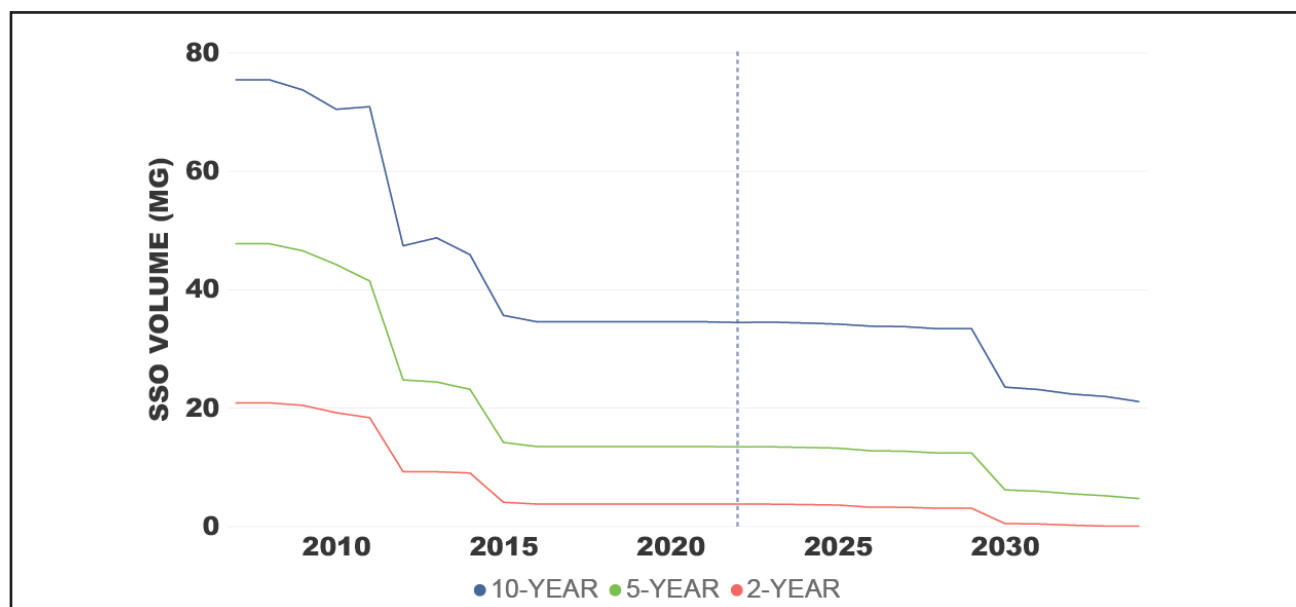
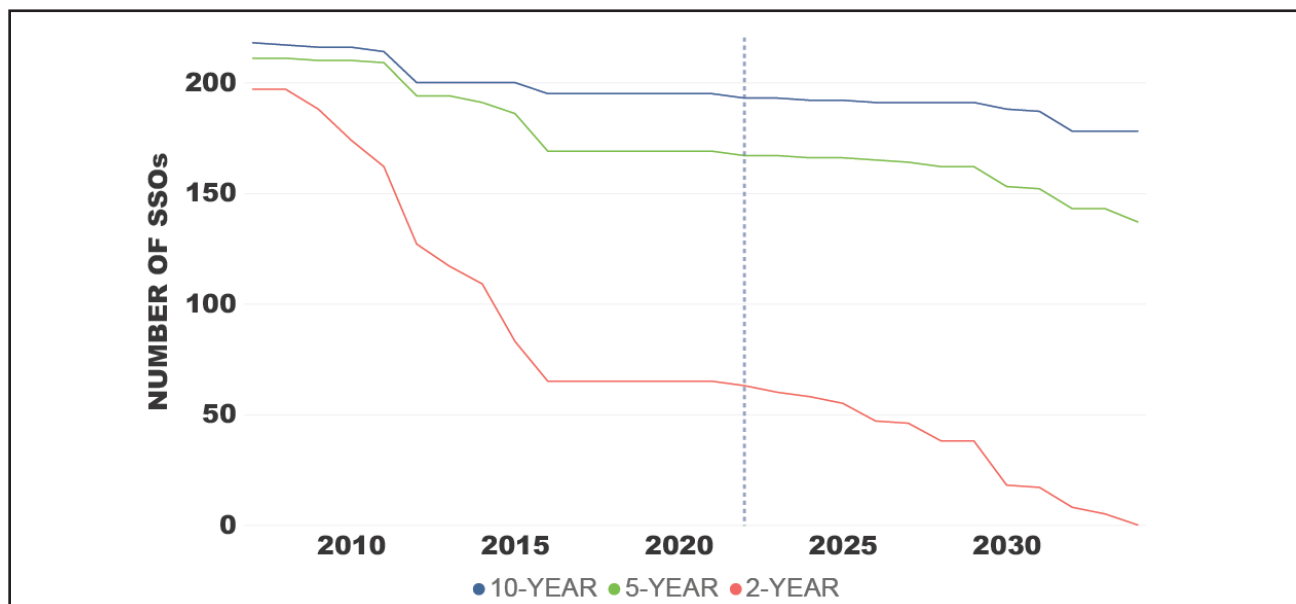


Figure 1.4. Wet Weather SSO Cumulative Reduction Modeled Projection - Occurrences



1.5. UNAUTHORIZED DISCHARGES — DRY WEATHER CSOs

Table 1.4 includes volumes and Table 1.5 includes occurrences of dry weather CSO discharges by cause and fiscal year from FY17 through the current reporting period. Refer to Appendix D for a detailed listing of discharges that occurred during the current reporting period.

1.6. 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 from FY17 through the current reporting period. Refer to Appendix E for a detailed listing of discharges that occurred during the current reporting period.

1.7. BYPASSES AT WATER QUALITY TREATMENT CENTERS

Project WIN Quarterly Report 18 included a memorandum, included 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 the four categories, including 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 from FY17 through the current reporting period. There were no bypasses during the current reporting period, so a detailed listing of bypasses is not included as an appendix.

1.8. OVERFLOWS

1.8.1. WET INTERIOR OVERFLOWS

Table 1.11 includes occurrences of wet interior overflows by cause and fiscal year through the current reporting period. Refer to Appendix F for a detailed listing of overflows that occurred during the current reporting period.

1.8.2. DRY INTERIOR OVERFLOWS

Table 1.12 includes occurrences of dry interior overflows by cause and fiscal year through the current reporting period. Refer to Appendix F for a detailed listing of overflows that occurred during the current reporting period.

1.8.3. WET EXTERIOR OVERFLOWS

Table 1.13 includes occurrences of wet exterior overflows by cause and fiscal year through the current reporting period. Refer to Appendix G for a detailed listing of overflows that occurred during the current reporting period.

1.8.4. DRY EXTERIOR OVERFLOWS

Table 1.14 includes occurrences of dry exterior overflows by cause and fiscal year through the current reporting period. Refer to Appendix G for a detailed listing of overflows that occurred during the current reporting period.

1.9. SSOs PER 100 MILES OF SEWER

Per the request of EPA, and in keeping with benchmarks from other utilities, MSD has prepared the following analysis of SSOs per 100 Miles of sewer by cause for the reporting period, as well as by year and compared to national benchmarks. The background shading in Figure 1.5 represents benchmarking from other utilities and EPA studies of overflows per 100 miles of sewer. Although overflow occurrences are significantly influenced by rainfall, it is shown that MSD is trending favorably against benchmarks, and efforts documented in this Annual Report are proving effective at reducing overflows.



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
FY17	0	100	1,060	5,036	0	157,780	925
FY18	0	150	50	3,590	400	101,007	0
FY19	750	100	7,900	675	600	118,830	13,315
FY20	500	0	350	408	0	1,228,790	8,415
FY21	35	200	300	1,895	0	12,250	24,000
FY22	50	51	2,125	40,100	1,000	154,207	0

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
FY17	0	1	2	7	0	8	3
FY18	0	1	1	4	1	4	0
FY19	1	1	3	5	1	11	2
FY20	1	0	1	2	0	12	2
FY21	1	1	1	9	0	3	1
FY22	1	2	2	4	1	4	0

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

DUE TO	OVERFLOW - CAPACITY	OVERFLOW - EQ FAIL ELECTRICAL	OVERFLOW - EQ FAIL MECHANICAL	OVERFLOW - EQ FAIL STRUCTURAL	OVERFLOW - HUMAN ERROR	OVERFLOW - POWER FAILURE LG&E
FY17	0	99000	150000	0	0	917620
FY18	0	500	0	1210000	0	0
FY19	0	9450000	0	0	300	0
FY20	0	0	1150	92040	0	0
FY21	0	0	0	0	0	0
FY22	500000	0	0	12743000	896500	0

Table 1.10. Bypass Occurrence - Historic and Current Reporting Periods

DUE TO	OVERFLOW - CAPACITY	OVERFLOW - EQ FAIL ELECTRICAL	OVERFLOW - EQ FAIL MECHANICAL	OVERFLOW - EQ FAIL STRUCTURAL	OVERFLOW - HUMAN ERROR	OVERFLOW - POWER FAILURE LG&E
FY17	0	2	1	0	0	2
FY18	0	1	0	1	0	0
FY19	0	1	0	0	1	0
FY20	0	0	2	1	0	0
FY21	0	0	0	0	0	0
FY22	1	0	0	2	3	0

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

DUE TO	GREASE BLOCKAGE	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	ROOTS	LACK OF SYSTEM CAPACITY	STRUCTURAL FAILURE
FY17	1	0	0	6	1	0
FY18	0	0	8	7	22	0
FY19	2	1	12	7	62	0
FY20	2	0	3	3	0	0
FY21	2	0	5	6	10	0
FY22	2	0	3	5	6	1

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	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET
FY17	18	0	96	154	3	1
FY18	7	0	31	22	3	0
FY19	6	0	17	8	0	0
FY20	5	1	18	8	0	0
FY21	2	0	17	2	0	0
FY22	4	0	5	12	0	0

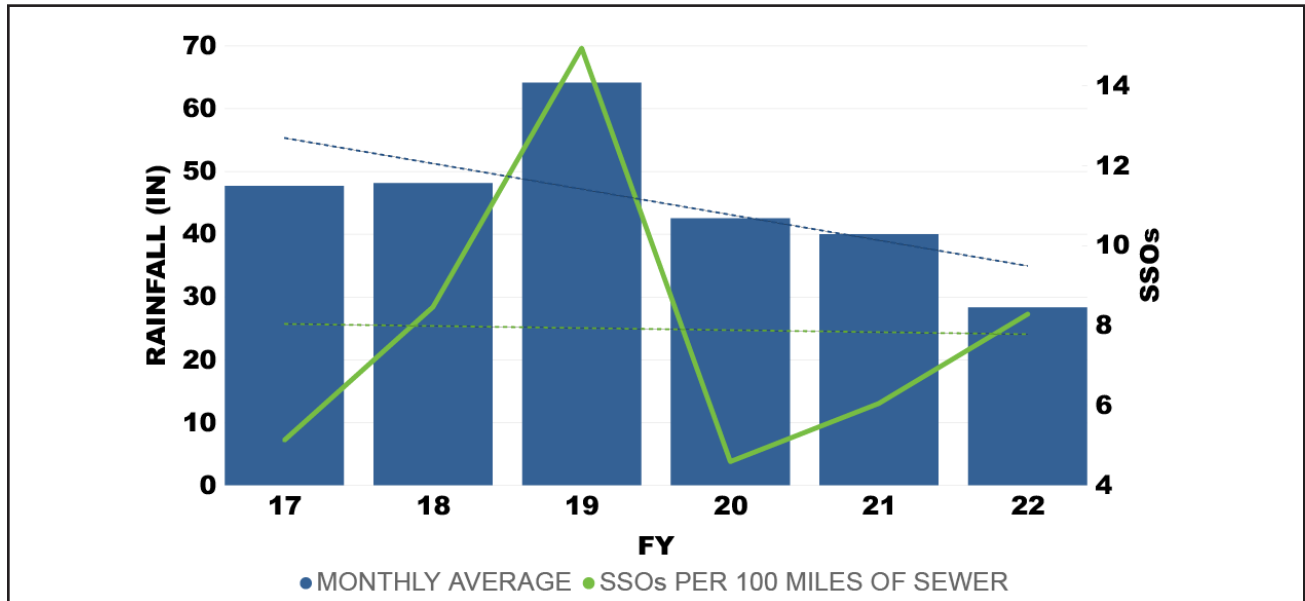
Table 1.13. Wet Overflow to the Exterior Occurrence - Historic and Current Reporting Periods

DUE TO	GREASE BLOCKAGE	MECHANICAL FAILURE	OBSTRUCTION-NOT GREASE / ROOTS	ROOTS	LACK OF SYSTEM CAPACITY	ELECTRICAL PROBLEMS AT MSD	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET
FY17	0	0	0	0	4	1	1	0
FY18	1	2	1	3	6	0	1	0
FY19	0	2	2	0	5	0	0	1
FY20	1	1	1	2	2	0	1	0
FY21	0	0	4	0	2	0	2	0
FY22	0	0	0	1	1	0	1	0

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
FY17	10	5	23	22	9	0	0	0
FY18	5	13	17	6	9	1	0	0
FY19	2	11	7	5	7	0	0	0
FY20	1	3	3	3	7	0	0	0
FY21	2	4	15	1	4	0	1	1
FY22	4	11	16	6	1	0	1	0

Figure 1.5. SSOs per 100 Miles of Sewer



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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 KEEC/EPA 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 KEEC/EPA 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 (DAP) 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 modeling. However, MSD had spent approximately \$1B on CD and ACD implementation, and was experiencing changed circumstances for other assets that KEEC and EPA agreed required additional work to be completed in the system and a reprioritization of the work required under the ACD. The 2ACD requires Additional Early Action Plan (AEAP) projects to remediate the Morris Forman WQTC, nine critical interceptors, and Paddy's Run Flood Pump Station (FPS), and the inclusion of an Asset Management Plan. 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.

A Gantt chart including progress of all IOAP projects during the reporting period, along with anticipated progress for the upcoming reporting period, can be found in Figure 2.1. The Asset Management Plan is discussed in Section 7.

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, submitted on May 19, 2021, conditioned and effective upon entry of the 2ACD. 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 H.

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. 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. No projects were certified as completed during the current reporting period. Raintree & Marian Ct 1 - Raintree PS Elimination was completed during the reporting period, however certification will be

delayed until the Raintree and Marian Ct 2 - Pipe Upgrades project is complete. The Monticello PS Elimination project is anticipated to be completed during the upcoming reporting period.

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, conditioned and effective upon entry of the 2ACD. 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 H.

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 cannot extend beyond December 31, 2022. A Gantt chart including progress of LTCP projects during the reporting period, along with anticipated progress for the upcoming reporting period, can be found in Figure 2.1. The Waterway Protection Tunnel and associated projects were certified as complete on June 27, 2022.

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. Under the 2ACD, MSD is required to implement new projects, including the following :

- Replacement of the Paddy's Run Pump Station by December 31, 2026, with an estimated additional cost of \$124M (up from \$79M estimated in FY21). It is noted that this project is dependent on partnership and cooperation with the US Army Corps of Engineers (USACE), and as such the deadline may be extended.
- Repair and replacement of nine critical interceptors by December 31, 2026, with an estimated additional cost of \$101M (up from \$70M estimated in FY21). The critical interceptor projects include the following:
 - Buechel Trunk Sewer Rehabilitation
 - Harrods Creek Force Main Repair
 - Prospect Phase II Area Sewers Rehabilitation
 - Broadway Interceptor Infrastructure Rehabilitation
 - I-64 & Grinstead Infrastructure Rehabilitation
 - Large Diameter Sewer Rehabilitation
 - Rudd Ave Sewer Infrastructure Rehabilitation
 - Western Outfall Infrastructure Rehabilitation
 - Nightingale Rehabilitation
- Replacement of the Morris Forman WQTC Biosolids Facility by December 31, 2030, with an estimated additional cost of \$198M.

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. The Broadway Interceptor Infrastructure Rehabilitation project was certified as complete on June 30, 2021, the Nightingale Rehabilitation project was certified as complete on November 1, 2021, and the Harrods Creek Force Main Repair project was certified as complete

on June 30, 2022. The I-64 & Grinstead Infrastructure Rehabilitation, Rudd Avenue Sewer Infrastructure Rehabilitation, Prospect Phase II Area Sewers Rehabilitation, and Large Diameter Sewer Rehabilitation projects are anticipated to be complete 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 partnered with the University of Louisville Center for Infrastructure Research (UofL) for the majority of the project PCCM evaluations.

Table 2.1. SSDP PCCM Project Status

DESCRIPTION	CERTIFICATION DATE	STATUS / REMEDIAL MEASURES
Beargrass Interceptor Rehabilitation Ph 2	December 14, 2010	While this is an SSDP project, it is hydraulically impacted by the full implementation of all LTCP projects as outlined in the IOAP, and PCCM will be conducted at the project level concurrent with LTCP PCCM.
Goose Creek PS Improvements & Wet Weather Storage 2 - Devondale Wet Weather Storage	April 15, 2016	Phased project - will be analyzed after completion of Goose Creek PS Improvements & Wet Weather Storage 2 - PS & FM Upgrade.
Lantana #1 PS I/I Investigation & Rehabilitation	December 29, 2011	A revised solution will be developed and implemented.
Mellwood System Improvements and PS Eliminations 1 - Mellwood PS & FM Improvements	December 27, 2012	Phased project - will be analyzed after completion of Mellwood System Improvements and PS Eliminations 2 - Winton Avenue and Mockingbird Valley PS Eliminations.
Middle Fork Relief Interceptor, Wet Weather Storage And UMFPS Diversion 1 - Buechel Basin	December 27, 2013	Phased project - will be analyzed after completion of Middle Fork Relief Interceptor, Wet Weather Storage and UMFPS Diversion 2 - PS Diversion and Storage.
Southeastern Diversion Structure & Interceptor	April 19, 2012	While this is an SSDP project, it is hydraulically impacted by the full implementation of all LTCP projects as outlined in the IOAP, and PCCM will be conducted at the project level concurrent with LTCP PCCM.

MSD begins reporting PCCM results 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 FY21 2ACD Annual Report included a detailed listing of completed IOAP project post-compliance performance status for projects completed through June 30, 2020, with data through June 30, 2021. 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 2.1, including anticipated remedial measures to achieve compliance as needed.

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 louisvillemsd.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 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

Budget_ID	Task Name	% Complete	ACD Date	Start	Finish	3rd Quarter Jul-Aug-Sep-Oct	4th Quarter Nov-Dec-Jan-Feb	1st Quarter Mar-Apr-May-Jun	2nd Quarter Jul-Aug-Sep-Oct
	MSD IOAP Commitments Schedule								
	LONG TERM CONTROL PLAN								
H09133	Waterway Protection Tunnel	100%	12/31/22	Mon 9/12/16	Wed 6/1/22				
	SANITARY SEWER DISCHARGE PLAN								
H09180	Raintree and Marian Ct 1 - Raintree PS Elimination	100%	12/31/25	Mon 9/17/18	Thu 7/29/21				
H09164	Idlewood Inline Storage	64%	12/31/25	Tue 3/30/21	Sun 4/30/23				
H09182	Monticello PS Elimination	50%	12/31/25	Sat 1/1/22	Thu 2/23/23				
H09196	Leven PS Elimination	32%	12/31/25	Wed 2/2/22	Tue 8/8/23				
	ADDITIONAL EARLY ACTION PLAN (SRP)								
D22100	Morris Forman Water Quality Treatment Plant Biosolids Facility	16%	12/31/30	Wed 12/1/21	Sun 6/29/25				
F18515	Paddy's Run Flood Pump Station Capacity Upgrade	37%	12/31/26	Tue 11/2/21	Wed 12/2/26				
	ADDITIONAL EARLY ACTION PLAN (CRITICAL SEWER)								
A20244	Large Diameter Sewer Rehabilitation	69%	12/31/26	Wed 8/19/20	Fri 6/30/23				
A20280	Harrods Creek Force Main Repair	100%	12/31/26	Wed 1/15/20	Tue 5/24/22				
H16075	Prospect Phase 2 Rehab	44%	12/31/26	Thu 8/5/21	Wed 6/14/23				
H18503	I-64 and Grinstead Infrastructure Rehab.	68%	12/31/26	Mon 4/12/21	Mon 1/23/23				
H20147	Western Outfall Infrastructure Rehabilitation	11%	12/31/26	Fri 4/2/21	Wed 1/1/25				
H21019	Rudd Avenue Infrastructure Rehabilitation	71%	12/31/26	Thu 4/1/21	Mon 1/23/23				

Data date: 09/19/2022

Task Summary

Manual Task Progress

Manual Progress

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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 KEEC/EPA 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

FY22 Reporting Period

- Continued to inspect, maintain and properly operate the CSS pump stations and the Morris Forman WQTC.
- Continued projects to create improved access to selected CSO sites to facilitate cleaning activities.
- Continued to review catch basin areas against the CSS and explored re-alignment to confirm that the 15-month cleaning cycle is achieving regulatory commitments.
- Updated online CSO & Siphon Training modules for MSD Operations Division CSO/NMC staff and Morris Forman WQTC personnel to supplement CSO Field Training.
- Established performance measures and performance for the current reporting period are shown in Table 3.1
 - CSOs and flapgates are inspected weekly. Siphons are inspected monthly. Debris 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. Staff shortages due to COVID-19 as well as proximity of some CSOs to areas of civil unrest contributed to failure to achieve this goal.
 - Catch basins within the CSS are scheduled to be cleaned every 15 months. Cleaning totals have been annualized for reporting.
- 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 CLEANING	17,909	16,423	91.7%	100.0%
CSO INSPECTIONS	5,201	4,901	94.2%	95.0%
DEBRIS REMOVAL / REPAIR	612	607	99.2%	95.0%
SIPHON INSPECTIONS	612	612	100.0%	95.0%
FLAPGATE INSPECTIONS	1,092	1,071	98.1%	95.0%

Table 3.2. Other NMC 1 Activities Completed

ACTIVITY	LINEAR FEET
CLEANING ACTIVITIES	350
CHEMICAL ROOT CONTROL	0
CHEMICAL GREASE TREATMENT	0
INSPECTION ACTIVITIES	295412

FY23 Reporting Period

- Continue cleaning and inspection programs, and reporting on programmatic implementation goals.
- Continue implementation of field verification efforts to determine operation and maintenance enhancements to be incorporated into annual training.

- Review the CSO inventory schematics and revise as necessary.
- Update the CSO characterization sheets to reflect the updated and calibrated hydraulic model.
- Incorporate the results of the annual field investigation to adjust and enhance the annual CSO Field Training modules.
- Schedule and conduct the annual CSO Field Training with the MSD Operations Division CSO/NMC staff and Morris Forman WQTC personnel.
- Continue to review catch basin areas against the CSS and explored re-alignment to confirm that the 15-month cleaning cycle is achieving regulatory commitments.

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

3.2.1. REAL TIME CONTROL (RTC) OPTIMIZATION

FY22 Reporting Period

- Continued operation of Phase 1, 2, and 3 of the RTC system. Approximately 1,330.6 MG were stored in the system during rain events and routed to treatment once the system was able to handle the flow. See Appendix I for a detailed report.
- Continued review of CSOs upstream of Morris Forman WQTC, and noted that flow through the plant is optimized prior to overflows occurring.
- Continued to implement the wet weather standard operating procedures (SOPs) incrementally, starting with a period of manual operation to validate the control assumptions, followed by increasing levels of system automation as the automated controls for individual components are implemented, validated, and then incorporated into the overall RTC system.
- Continued to monitor and evaluate the performance of the RTC system against operational objectives and issue updates to configurations and site tuning as necessary to improve performance of the recently integrated facilities and Csoft 4.
- Identified draft metrics for Key Performance Indicators (KPIs) for development using the HydroWeb dashboard to assist in the evaluation of RTC performance.
- Prepared and reviewed a draft master programming guide for RTC facilities to document existing programming and parameters at each facility as a reference to ensure long term continuity of the RTC system.
- Updated to the master RTC SOP manual based on comments received and completed the draft Rowan PS SOP.
- Completed the integration of the Logan CSO Interceptor into the RTC system and completed validation of the CSO instrumentation associated with the Logan CSO Interceptor.
- Completed 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 RTC Hydraulic Model updates in advance of the integration of the Rowan PS facility into RTC.

FY23 Reporting Period

- Continue to monitor system operability in the automated mode and refine the local site tuning of RTC facilities as needed based on performance during varying rain events.

-
- Continue implementing RTC SOPs and validating operations.
 - Finalize the Rowan Pump Station SOP and integrate the facility into RTC.
 - Complete the master programming and Modules guide update.
 - Review, finalize, and implement the RTC flood mode for facilities along the Ohio River influenced by high river levels.
 - Develop 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.

FY22 Reporting Period

- Implemented several improvements related to operating the Southwestern Parkway CSO Basin under RTC. These included:
 - Updated programming to ensure the Southwestern Parkway CSO Basin switches from dewatering mode to fill mode.
 - Completed evaluation of level instrument options to provide additional instrumentation at Gate 7 to allow for development of a flow under the gate equation when flow meters are out of service or invalid.
 - Completed design to strengthen the mounted brackets for the FIT 830 flow meter immediately downstream of Gate 7 to reduce likelihood of meter failure due to water turbulence and improve the reliability of the installation.
- Completed a review of gate operations at the SOR1 facility to identify the cause of excessive gate movements, actuator failures, and excessive stem nut wear to identify modes of failure and developed an action plan to address identified issues. Began implementing the plan by performing field testing of actuator signals to eliminate electrical interference as a cause for repetitive and cyclic pulsing of actuator start switches.
- Completed implementation of revised tag transfer protocols, enabling most RTC data to bypass iFix and be directly gathered from MSD's Industrial Gateway Server (IGS) OLE for Process Control server to improve reliability of the tag data transfer process and deployed a Csoft update to accommodate the longer IGS TAG names.
- Completed implementation of a real time validation routine for level instrumentation at the MDS and SOR1 facilities to improve the reliability of RTC data and proactively identify maintenance issues. Identified inconsistencies between level instruments and developed plan to survey and validate scaling.
- Corrected programming inconsistencies that cause a critical alarm associated with a regulator dysfunction at Logan CSO Basin and the Southwestern Parkway CSO Basin due to interceptor surcharging.
- Corrected programming at the Portland CSO Basin to ensure site follows RTC setpoint inputs.
- Completed programming of HydroWeb dashboard for production of CSO and storage-related tables for use by MSD to report information.
- Completed repairs of the Accusonic Flow Meter at the SWOR2 facility and continued evaluation 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 SWOR1 facility to enable increasing the maximum level setpoint.
- Completed design of the Sneads Branch Pump Station Elimination Project to allow gravity dewatering to the Logan CSO Basin.
- Began operating the Rowan PS in Manual.

FY23 Reporting Period

- During the next reporting period, MSD staff and the RTC consultant will continue to implement hardware, software, and set-point changes as applicable on a site-by-site basis.
- Continue to refine the local site tuning of RTC facilities as needed based on performance during varying rain events.
- Continue to improve and automate operations of the facilities integrated into the system.
- Continue development of the Hydroweb dashboard to add KPIs designed to quantify RTC performance.
- Complete design of improvements to the SWOR1 facility to enable increasing the maximum level setpoint.
- Complete evaluation of level sensors to improve monitoring of the Southwest Outfall and the Nightingale Pump Station Force Main discharge to the Manning Road sewer and install as recommended.
- Install hydrostat level instrument upstream of Gate 7 at the Southwestern Parkway CSO Basin and develop flow under the gate equation to allow dewatering under RTC control to occur when flow meters are out of service or invalid.
- Complete survey of Main Diversion Structure instrumentation and verify scaling
- Begin construction of the Sneads Branch Pump Station Elimination project
- During the next reporting period, MSD staff and the RTC consultant will continue to implement hardware, software, and setpoint changes as applicable on a site-by-site basis.
- Continue to refine the local sit tuning of RTC facilities as needed based on performance during varying rain events.

3.3. NMC 3: REVIEW AND MODIFICATION OF PRETREATMENT REQUIREMENTS

FY22 Reporting Period

- Completed FY22 NMC 3 Trunk Sewer Water Quality Data Collection in September 2021. Finalized pollutants of concern (POCs) and trunkline sewer data (contributory to CSOs) for FY22 Dry Weather Sampling Result Report. Reviewed and evaluated FY21 trunk sewer data against prior trunk sewer data to determine if changes in pollutants warrant review of contributory Non-Domestic Dischargers (NDDs). Determined POCs and trunkline sewer (contributory to CSOs) dry weather sampling strategy for FY23. Prepared a report to document the findings and recommendations resulting from sampling efforts.
- Continued to send 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 84 measurable rain events and 46 events with only trace rainfall. MSD sent email notices to NDDs 49 times prior to precipitation events. The email notices contain information regarding expected precipitation expected for a seven day period. There are currently eight NDDs that voluntarily implement controls during wet weather by alternating their cleaning schedule and/or by storing wastewater during a rain event.



- Continued to track 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 3.3. The typical results of pollutants kept out of the CSS when all NDDs participate are presented Table 3.3, quantified based on the actual rain events when NDDs detained their flow or otherwise reduced their discharge.

Table 3.3. 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	335,000	1,780	1,100
Total Quantity FY22	9	84	19,898,000	86,600	72,000

*Peerless began participating in the program in FY22.

- Continued to include 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 22 wastewater discharge permits to users discharging to or immediately upstream of the CSS. There were 13 UDRs processed for discharges to Morris Forman WQTC in FY22. The UDRs included 8 locations in the CSS and 5 locations in the SSS which 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.
- Conducted five NMC 3 site inspections at an NDD facility as part of the permit renewal process.
- Conducted three NMC 3 site inspections 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.
- Continued to include 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 this requirement to two permits during the reporting period. MSD also documented which permitted industries have 'hold and release' permit requirements.
- Continued to seek 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.
- Reviewed improvements made to the combined sewer system infrastructure and the potential impact on the NMC 3 program. Updated CSS flows from the most recent calibrated hydraulic model.
- Conducted staff training on implementation of the NMC 3 program.

FY23 Reporting Period

- Complete FY23 NMC 3 Trunk Sewer Water Quality Data Collection effort. Compare FY23 trunk sewer data against prior trunk sewer data to determine if changes in pollutants warrant review of contributory NDDs.

-
- Determine POCs, NDDs (based on historical data), and trunkline sewers (contributory to CSOs) for FY23. Review 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. Prepare a file report to document the findings and recommendations resulting from FY23 NMC 3 trunk sewer collection data.
 - Continue to send wet weather alerts to NDDs of concern prior to rain events, reminding them of their commitment to implement voluntary controls during wet weather events.
 - Continue to include specific NMC 3 related language, as appropriate, in new and re-issued wastewater discharge permits to facilities located in the CSS, as well as in all Unusual Discharge Requests approved for discharge to the CSS.
 - Conduct NMC 3 site inspections at Industrial User permitted facilities not currently in the formal NMC 3 program as part of the permit renewal process.
 - Discuss NMC 3 program participation at each annual site inspection for Industrial Users who are currently in the NMC 3 program.
 - Track performance measures to monitor the effectiveness of the implementation of NMC 3 within the Pre-treatment Program.
 - Review new industrial users and existing industrial users with increased discharges in the combined sewer system to determine if hold and release requirements need to be added into their permits. Continue to document which permitted industries have hold and release permit requirements. Continue to document which permitted industries use green infrastructure to trade off for their 'hold and release' program.
 - Document which NDDs have ceased operation and quantify the impact/reduction on CSS operation.
 - Continue to review improvements made to the combined sewer system infrastructure and their potential impact on the NMC 3 program. Consider updated flows from the most recent calibrated hydraulic model. Some CSS improvements may result in changes to the ongoing NMC 3 program. Document the changes and impacts in a memo to the file.
 - Conduct staff training on implementation of the NMC 3 program.

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

3.4.1. CAPITAL PROJECTS

NMC capital project schedules for the current and upcoming reporting periods are provided in Figure 3.4.

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 J. Refer to Figure 3.1 for location of the CSOs closest to Morris Forman WQTC.
- The Final Effluent PS was in service 91 days during the reporting period.
- Morris Forman WQTC experienced plant violations throughout the reporting period due to continuing failure of the solids handling equipment and the limited availability of alternate solids disposal. Morris Forman WQTC compliance from FY17 through the current reporting period is included in Table 3.4

Figure 3.1. CSO Locations Relative to Morris Forman WQTC



Table 3.4. Morris Forman WQTC Permit Compliance

FY	EXCEEDANCES	MONTHS COMPLIANT
FY17	31	4
FY18	53	1
FY19	60	0
FY20	69	0
FY21	60	1
FY22	77	0

Note: Table 3.4 has been revised to include corrections to Exceedances previously reported for FY21.

3.4.3. WET WEATHER CAPTURE

Historically, the long term trend continues to show that MSD has increased the amount of wet weather flow diverted at the 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). CY 2022 (through June 30) shows a significant increase in base flow compared to CY2020, as seen in Figure 3.2. Overall, the long-term base flow trend is decreasing. The 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.

Figure 3.2. Morris Forman WQTC Wet Weather Capture Trend

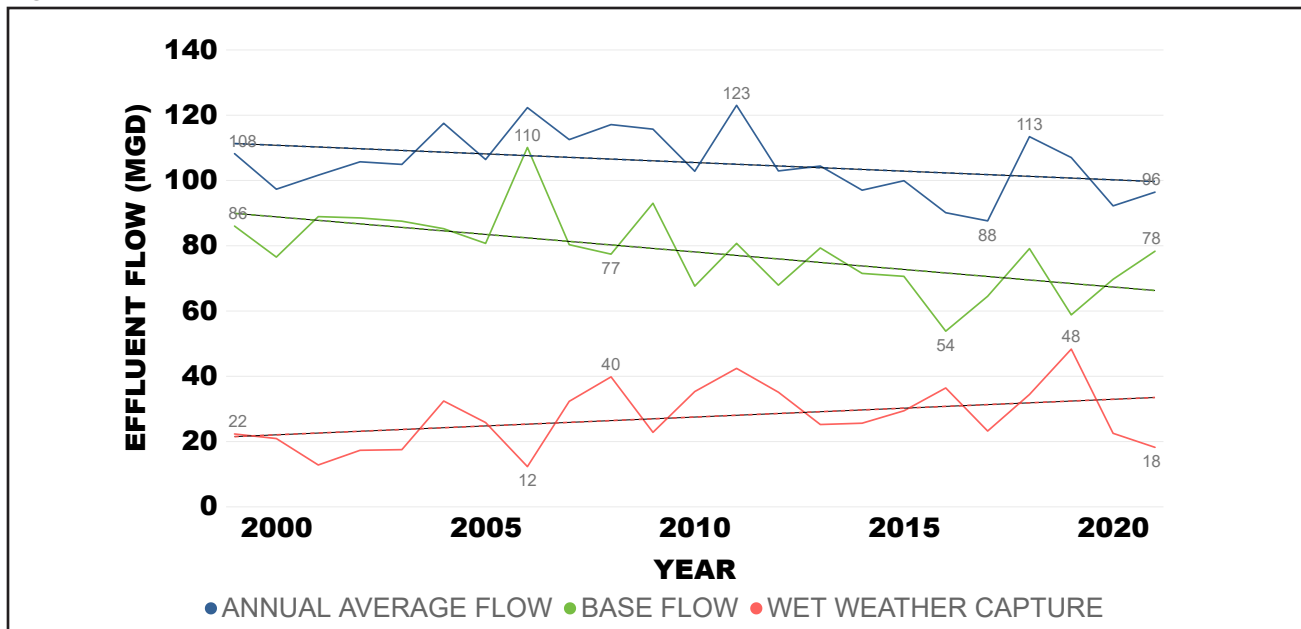
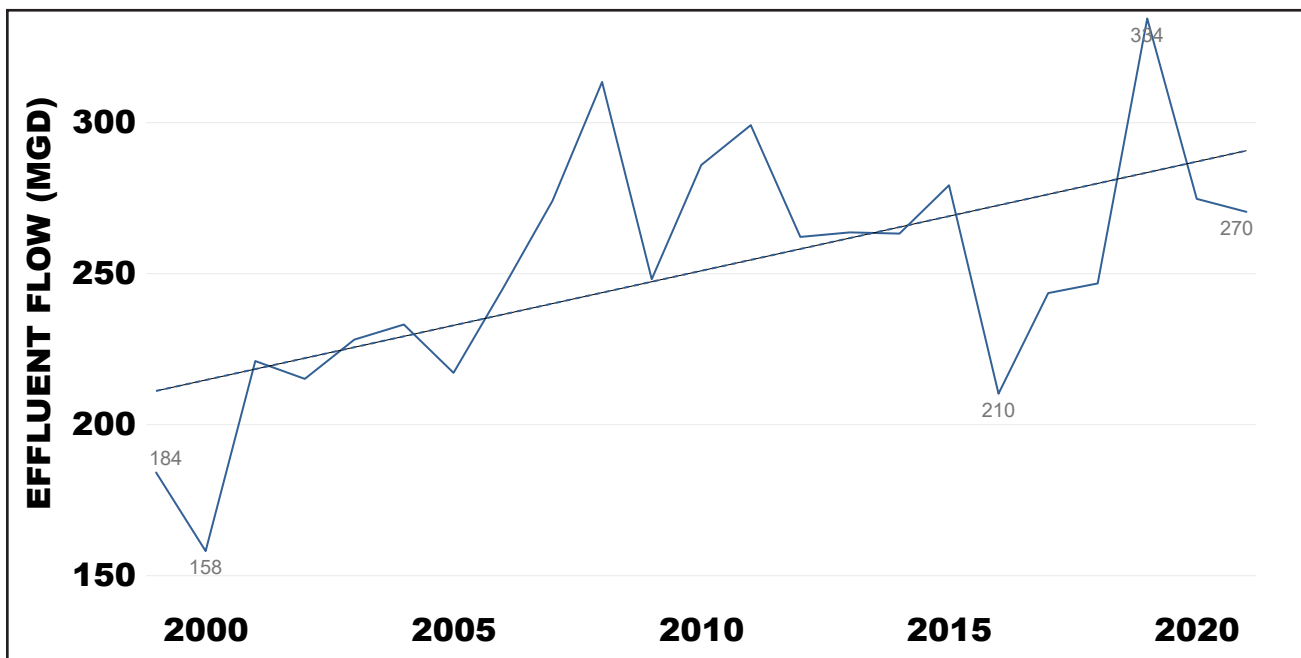


Figure 3.3. Morris Forman WQTC Peak Daily Flow



The long term trend in the peak daily flow treated at the Morris Forman WQTC shows improvement. However, MSD has experienced failures of major equipment or components resulting in a decrease in peak wet weather capacity over portions of the past six years. Numerous improvements and system replacements have occurred or are ongoing to restore the peak capacity and improve reliability. Each data point represents the maximum daily flow treated during the year. 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. While individual years are highly variable 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..

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

FY22 Reporting Period

- Continued updates of the U.S. Army Corps of Engineers (USACE) Flood Operations and Maintenance Manual to reflect changes in operations that have occurred with the IOAP projects and operational SOP improvements. This will be an ongoing task until all the projects in the IOAP are completed and an ongoing task as NMC programmatic activities are completed.
- Monitored flood pump stations (FPS) for opportunities to pump trapped flow back into the combined sanitary sewer system to avoid dry weather overflows as a result of operation of the flood protection system from the 34th Street, Starkey and 4th Street FPSs. This practice and inspection have been put into place and is accomplished from the associated floodgate in-service work order located in-line with the related CSOs.
- Performed evaluations of dry weather unauthorized discharges to the WUS, with emphasis on the CSS, to determine causes and to determine if there is a need for corrective activities.
- 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.

FY23 Reporting Period

- Continue to implement additional operational modifications at FPSs within the CSS to prevent dry weather overflows. Discussions with the USACE to continue regarding proposed modifications to these pumping stations that will minimize dry weather CSOs due to high river levels. This will be an ongoing activity until all the IOAP projects are completed and as staff implements programmatic NMC activities.
- Continue to review SOPs for the FPSs to reflect ongoing operational changes that occur as capital projects and NMC programmatic activities are completed.
- Perform a quarterly evaluation of dry weather overflows to the WUS, with emphasis on the CSS, to determine causes and to determine if there is a need for corrective activities.
- Perform inspection and cleaning of FOG focus areas within the CSS, in accordance with CMOM commitments.

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

FY22 Reporting Period

- Continued to monitor and document performance of the CSO108 S&F Control Continuous Deflection Separator (CDS) operation in accordance with the Memorandum of Understanding (MOU) with the Kentucky Nature Preserve (KNP). Copies of the semi-annual CSO108 efficacy reports have been included as Appendix N.
- Continued to review new S&F technologies for potential incorporation into the program.
- Continued inspection and maintenance procedures for the S&F structures as part of the weekly CSO inspections and PM cleaning routines, outlined under NMC 1. During the reporting period, 629 work orders were issued for debris removal at the S&F structures.
- Continued working 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 3.5.

FY23 Reporting Period

- Continue to monitor and document performance of the CSO108 S&F structure operation in accordance with the MOU with the KNP by MSD crews. Reports will be submitted to KNP on January 30 and July 30 and included as an appendix to subsequent 2ACD Annual Reports.

Table 3.5. Debris Removed from System

SOURCE	DEBRIS REMOVED (TONS)
Catch Basin & Sewer Cleaning	10,113
Morris Forman WQTC Headworks	1,682

- Continue to review new S&F technologies for potential incorporation into the program.
- Continued inspection and maintenance procedures for the S&F structures as part of the weekly CSO inspections and PM cleaning routines, outlined under NMC 1.
- Track the volume of S&F materials removed from the CSS.
- Develop revised process to track S&F removal at CSO basins.
- Review and refine S&F control operations and maintenance training and administer to appropriate staff.
- Perform CSO S&F Efficacy assessments for approximately 15 CSOs including pre- and post-storm site visits to determine where S&F control devices could be improved or replaced.

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

FY22 Reporting Period

- Continued administration of the Erosion Prevention and Sediment Control (EPSC) Ordinance. Continued use of a tracking system for EPSC Notices of Violation (NOVs) and Field Correction Notices (FCNs) within the CSS.
- Continued administration of the Hazardous Materials Ordinance, which requires users with hazardous materials on site to submit a spill prevention and control plan. Continued response 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.
- Continued issuance of Wastewater Discharge Permits under the Industrial Pretreatment Program.
- Distributed literature and annual newsletter to significant industrial users (SIUs) on best management practices for prevention of pollution.
- Promoted Green Infrastructure initiatives within Jefferson County, such as guidance on downspout disconnection and rain garden installation.
- Continued to prepare and distribute 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.
- Reviewed and implemented enhancements for training on Stormwater Pollution Prevention Plans (SWPPPs) for the WQTCs, major pump stations, and the Central Maintenance Facility (CMF).
- Continued enhancement of the framework for the IOAP green infrastructure program tracking in IPS.

-
- Utilized and distributed the rain garden handbooks to the public to encourage green infrastructure.
 - Partnered with stakeholder groups for a rain garden workshop. MSD demonstrated the steps to plan, build, and maintain a rain garden, and covered native plant characteristics.
 - 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.
 - Partnered with Louisville Metro Council District 21 (Nicole George), Louisville Grows, Louisville Metro's Division of Community Forestry, and Brightside to plant 167 trees in the Iroquois and Southside neighborhoods.
 - Supported the continued use of rain gardens and their maintenance needs at both Male and Fern Creek High Schools. Replacement native plants and support for science classes provided.
 - Coordinated trash pick-up and education and outreach event in Mill Creek watershed in partnership with the SW Regional Library, Park and Recreation, The Nature Conservancy and University of Louisville.
 - Development and approval of the first Urban Watershed Plan focused on non-point source pollution control and reduction in Jefferson County. The plan outlines the use of green infrastructure and community engagement to reduce impacts of non-point source pollution including infiltration, capture and treatment of stormwater on site to reduce impacts to the CSS.
 - Hosted summer works students at MSD facilities where they received a water quality certification for EPSC, Post Construction and Green Infrastructure training they received.
 - Distributed Industrial Waste Department newsletter to all 212 industrial contacts which included updated local limits for Water Quality Treatment Centers, implementation of Unusual Discharge Request fees, and the new database software system that streamlines our documentation processes.

FY23 Reporting Period

- Continue daily inspections and documentation for EPSC NOVs, FCNs, and all enforcement activities within the CSS with an inspection web application for FCNs.
- Continue inspection of hazardous materials from facilities. Continue issuance of Wastewater Discharge Permits under the Industrial Pretreatment Program. Continue distribution of literature to SIUs on best management practices for prevention of pollution.
- Utilize and distribute the rain garden handbook to the public in order to encourage green infrastructure.
- Continue to develop and promote new informational pieces, targeted to inform customers and residents on green infrastructure initiatives within Jefferson County, such as guidance on downspout disconnection and rain gardens.
- Continue to track green infrastructure projects and initiatives in IPS and SharePoint.
- Continue to prepare and distribute 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 collection system.
- Continue planning and hosting rain garden events for community groups and students.
- Host summer works students at MSD facilities where they will receive a water quality certification for EPSC, Post Construction and Green Infrastructure training they received.
- Continue to coordinate watershed planning and outreach efforts in Mill Creek Watershed in accordance with the 319 Grant.

-
- Continued to enhance and train on Stormwater Pollution Prevention Plans (SWPPPs) for the WQTCs, major pump stations, and the Central Maintenance Facility (CMF).
 - Continue working on watershed planning efforts in Mill Creek and Middle Fork Beargrass Creek watersheds.

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 3.4.

Additional emergency projects may be classified as NMC. Following a thorough review of individual categorizations appropriate projects will be included in the FY23 Mid-Year Status Report.

Figure 3.4. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	3rd Quarter Jul Aug Sep	4th Quarter Oct Nov Dec	1st Quarter Jan Feb Mar	2nd Quarter Apr May Jun
	MSD NMC Commitments Schedule							
A20244	Large Diameter Sewer Rehabilitation	59%	Mon 3/12/18	Tue 12/31/30				
A20244	DESIGN	72%	Mon 9/16/19	Thu 12/31/26				
A21241	26th Street Sewer Repair Emergency	72%	Wed 8/19/20	Fri 6/30/23				
A21241	CONSTRUCTION	86%	Thu 4/1/21	Sat 12/10/22				
A21241	CLOSEOUT	100%	Thu 4/1/21	Tue 11/30/21				
A21241	CLOSEOUT	77%	Tue 11/30/21	Sat 12/10/22				
C22053	7th St Community Gardens	100%	Thu 7/8/21	Mon 6/13/22				
C22053	INITIATION & PROCUREMENT	100%	Thu 7/8/21	Wed 7/14/21				
C22053	DESIGN	100%	Wed 7/14/21	Mon 6/13/22				
C22053	CLOSEOUT	100%	Tue 6/7/22	Mon 6/13/22				
C22172	Phase 1 ESA on 5 MSD Properties for Community Gardens	100%	Thu 7/1/21	Thu 6/30/22				
C22172	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Tue 2/15/22				
C22172	SERVICE PERIOD	100%	Tue 2/15/22	Tue 5/31/22				
C22172	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
D15020	MFWQTC Wet Cake Pump Phase II	100%	Mon 3/12/18	Fri 3/4/22				
D15020	CLOSEOUT	100%	Thu 3/4/21	Fri 3/4/22				
D15024	MFWQTC Chiller Replacement	92%	Fri 4/27/18	Thu 11/24/22				
D15024	CONSTRUCTION	100%	Tue 12/15/20	Fri 8/20/21				
D15024	CLOSEOUT	83%	Sat 8/21/21	Thu 11/24/22				
D18160	MFWQTC Secondary Clarifiers Structural Repairs	0%	Wed 12/1/21	Sun 9/30/29				
D18160	INITIATION & PROCUREMENT	100%	Wed 12/1/21	Wed 12/1/21				
D18453	FY21 MFWQTC Equipment RR	100%	Wed 7/1/20	Thu 12/30/21				
D18453	INITIATION & PROCUREMENT	100%	Wed 7/1/20	Thu 12/30/21				
D18453	CLOSEOUT	100%	Wed 7/1/20	Thu 12/30/21				
D18454	FY22 MFWQTC Equipment RR	100%	Thu 12/16/21	Thu 12/30/21				
D18454	CONSTRUCTION	100%	Thu 7/1/21	Thu 6/30/22				
D18454	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Tue 9/28/21				
D18454	SERVICE PERIOD	100%	Wed 9/29/21	Tue 5/31/22				
D18454	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
D18473	FY22 MFWQTC Other Facilities Repairs	100%	Thu 7/1/21	Thu 6/30/22				
D18473	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Tue 9/28/21				
D18473	SERVICE PERIOD	100%	Wed 9/29/21	Tue 5/31/22				
D18473	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
Data Date: 09/19/22								

Legend: █ NMC Project █ Project Progress

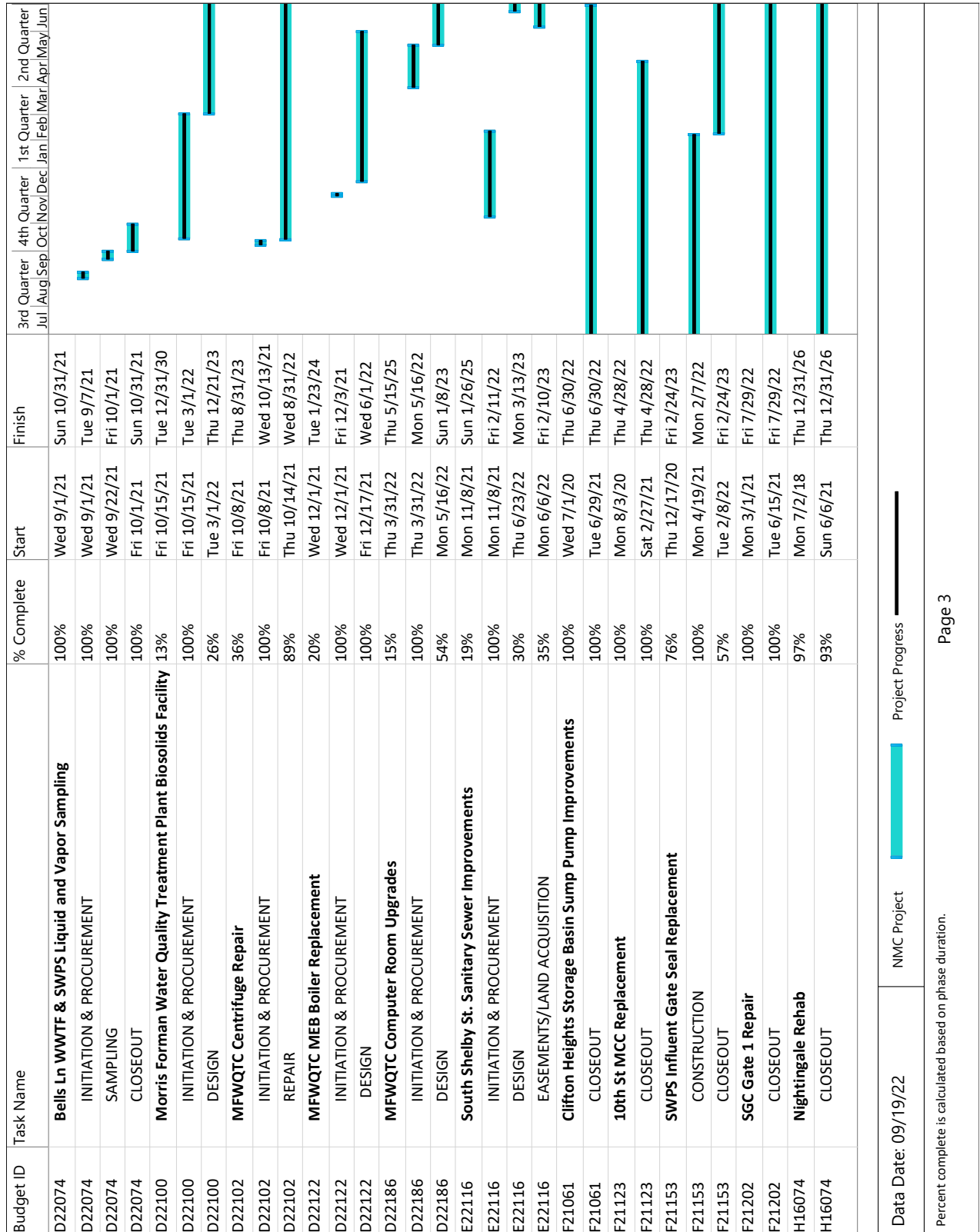
Percent complete is calculated based on phase duration.

Figure 3.4. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	3rd Quarter Jul Aug Sep	4th Quarter Oct Nov Dec	1st Quarter Jan Feb Mar	2nd Quarter Apr May Jun
D19048	MSD Radio Repeaters	59%	Mon 7/2/18	Thu 10/5/23				
D19048	DESIGN	100%	Thu 11/5/20	Thu 8/5/21				
D19048	CONSTRUCTION	100%	Thu 8/5/21	Sun 7/31/22				
D19275	MDS Downstream Flow Meter	100%	Tue 1/1/19	Sat 9/4/21				
D19275	CLOSEOUT	100%	Fri 9/4/20	Sat 9/4/21				
D19307	MFWQTC FEPS VFD Replacement	100%	Mon 4/1/19	Sun 1/30/22				
D19307	CLOSEOUT	100%	Mon 11/30/20	Sun 1/30/22				
D20012	SGC RTC Enhancements	34%	Tue 11/19/19	Thu 5/7/26				
D20012	DESIGN	60%	Tue 2/18/20	Sat 10/14/23				
D20167	MFWQTC East Headworks HVAC	100%	Sat 6/1/19	Sat 10/23/21				
D20167	CLOSEOUT	100%	Fri 10/23/20	Sat 10/23/21				
D20223	Bells Lane WWTF Polymer Feed System Improvements	51%	Mon 11/4/19	Sat 11/30/24				
D20223	DESIGN	100%	Fri 11/22/19	Thu 7/8/21				
D20223	CONSTRUCTION	44%	Mon 9/27/21	Tue 10/31/23				
D20224	Bells Lane Disinfection System Upgrades	63%	Tue 7/23/19	Wed 11/15/23				
D20224	CONSTRUCTION	97%	Mon 6/7/21	Thu 9/15/22				
D20231	FY20 MFWQTC FEPS Pump and Motor Repair	100%	Mon 7/1/19	Thu 9/2/21				
D20231	CLOSEOUT	100%	Tue 3/31/20	Thu 9/2/21				
D20304	MFWQTC Headworks and Dumpster Building Structural and Prim	100%	Sun 9/1/19	Sat 6/25/22				
D20304	CLOSEOUT	100%	Fri 6/25/21	Sat 6/25/22				
D20314	MFWQTC Sewer and Manhole Condition Assmt and Repair	96%	Sun 2/16/20	Tue 10/4/22				
D20314	CONSTRUCTION	100%	Tue 3/30/21	Mon 10/4/21				
D20314	CLOSEOUT	93%	Mon 10/4/21	Tue 10/4/22				
D21237	MFWQTC Secondary Clarifiers Assessment	87%	Sat 5/1/21	Mon 10/31/22				
D21237	INITIATION & PROCUREMENT	100%	Sat 5/1/21	Thu 9/30/21				
D21237	ACTIVITIES	100%	Mon 1/3/22	Sun 7/31/22				
D21247	MFWQTC MEB HVAC Replacement	30%	Tue 6/15/21	Fri 6/13/25				
D21247	DESIGN	92%	Mon 6/21/21	Thu 10/27/22				
D22041	District Wide High Voltage Maintenance Program	100%	Tue 6/1/21	Wed 6/15/22				
D22041	MEMOS	100%	Tue 6/8/21	Sat 5/28/22				
D22041	CLOSEOUT	100%	Sat 5/28/22	Wed 6/15/22				
Data Date: 09/19/22		NMC Project		Project Progress				

Percent complete is calculated based on phase duration.

Figure 3.4. NMC Activity Schedule



Data Date: 09/19/22

NMC Project

Project Progress

Percent complete is calculated based on phase duration.

Figure 3.4. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	3rd Quarter Jul Aug Sep	4th Quarter Oct Nov Dec	1st Quarter Jan Feb Mar	2nd Quarter Apr May Jun
H17020	FY21 NMC Support	100%	Wed 7/1/20	Sat 7/31/21				
H17020	SERVICE PERIOD	100%	Thu 10/1/20	Thu 7/1/21				
H17020	CLOSEOUT	100%	Thu 7/1/21	Sat 7/31/21				
H18013	FY22 NMC Support	100%	Thu 7/1/21	Thu 6/30/22				
H18013	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Tue 8/31/21				
H18013	SERVICE PERIOD	100%	Wed 9/1/21	Tue 5/31/22				
H18013	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
H18443	FY21 NMC RTC	100%	Wed 7/1/20	Sat 7/31/21				
H18443	CLOSEOUT	100%	Thu 7/1/21	Sat 7/31/21				
H18503	I-64 and Grinstead Infrastructure Rehabilitation	46%	Mon 4/12/21	Thu 12/31/26				
H18503	CONSTRUCTION	78%	Mon 4/12/21	Mon 1/23/23				
H19034	FY22 Envl Data Collection - MS4 and IOAP	84%	Wed 9/1/21	Wed 9/28/22				
H19034	INITIATION & PROCUREMENT	100%	Wed 9/1/21	Sat 10/2/21				
H19034	CLOSEOUT	84%	Sat 10/2/21	Wed 9/28/22				
H19116	FY22 NMC RTC	100%	Thu 7/1/21	Thu 6/30/22				
H19116	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Fri 8/27/21				
H19116	SERVICE PERIOD	100%	Wed 9/1/21	Tue 5/31/22				
H19116	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
H20049	FY22 NMC CSO Inspection Cameras	100%	Thu 7/1/21	Thu 6/30/22				
H20049	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Mon 2/28/22				
H20049	SERVICE PERIOD	100%	Tue 3/1/22	Tue 5/31/22				
H20049	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
H20147	Western Outfall Infrastructure Rehabilitation	7%	Fri 4/2/21	Sat 1/30/27				
H20147	DESIGN	100%	Fri 4/2/21	Thu 7/1/21				
H20153	SWPS Flood Repair	100%	Tue 6/4/19	Mon 11/1/21				
H20153	CLOSEOUT	100%	Wed 9/2/20	Mon 11/1/21				
H21019	Rudd Avenue Infrastructure Rehabilitation	49%	Thu 4/1/21	Fri 1/15/27				
H21019	DESIGN	100%	Thu 4/1/21	Fri 12/31/21				
H21019	CONSTRUCTION	66%	Thu 11/18/21	Mon 1/23/23				
H22014	MFWQTC Groundwater Dewatering System Automation	27%	Thu 6/3/21	Thu 8/29/24				
H22014	DESIGN	85%	Tue 12/28/21	Tue 11/1/22				

Data Date: 09/19/22

NMC Project

Project Progress

Percent complete is calculated based on phase duration.

Figure 3.4. NMC Activity Schedule

Budget ID	Task Name	% Complete	Start	Finish	3rd Quarter Jul Aug Sep	4th Quarter Oct Nov Dec	1st Quarter Jan Feb Mar	2nd Quarter Apr May Jun
H22017	Regional Biosolids Management Study	72%	Thu 7/1/21	Mon 2/27/23	█	█		
H22017	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Wed 11/3/21	█	█		
H22017	DESIGN	76%	Wed 12/15/21	Mon 1/16/23		█		
H22022	SGC Gate Replacements	34%	Thu 7/1/21	Sat 9/14/24				
H22022	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Wed 7/7/21	█			
H22022	CONSTRUCTION	52%	Thu 7/8/21	Fri 9/15/23	█	█		
H22038	Sneads Branch Pump Replacement	28%	Tue 9/7/21	Tue 10/15/24				
H22038	INITIATION & PROCUREMENT	100%	Tue 9/7/21	Tue 11/16/21	█			
H22038	DESIGN	100%	Wed 11/17/21	Tue 7/26/22		█		

Data Date: 09/19/22	NMC Project	Project Progress
Percent complete is calculated based on phase duration.		

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

4.1. CAPACITY MANAGEMENT OPERATIONS AND MAINTENANCE PROGRAM ACTIVITIES

4.1.1. MANAGEMENT PROGRAMS

Per Paragraph 37.b. of the 2ACD, the CMOM Self-Assessment Report was approved by the KEEC/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.

4.1.1.1. TABLE OF ORGANIZATION

M-A-1 Organizational Chart

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

M-A-2 Relationship to Other Departments

FY22 Reporting Period

- Carried 744 approved positions at the beginning of the reporting period and 775 approved positions at the end of the reporting period. This is an increase of 31 positions.
- Carried 81 vacant positions at the beginning of the reporting period and 103 vacant positions at the end of the reporting period.
- Utilized services of executive recruiter to find qualified candidates to fill specialty and senior/mid/upper management positions critical to the success of the ACD.

FY23 Reporting Period

Continue to hire qualified staff to fill vacant positions, including specialty and senior/mid/upper management positions critical to the success of the ACD.

4.1.1.2. TRAINING PROGRAMS

This section describes MSD's Training Programs. The goal of this section 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

FY22 Reporting Period

Training for the current reporting period is summarized in Table 4.1.

- Conducted Administrative Training sessions including such topics as New Employee Orientation, Project Management, 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 Reporting training sessions including such topics as Power BI, Telog, Budget Software and eB basics.
- 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 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.
- 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.

Table 4.1. Training Program

TRAINING TYPE	SESSION	HOURS
Administrative	266	235
Collections System	280	340
Equipment	444	1268
Reporting	21	38
Safety	652	511
Wastewater Operations	168	272

FY23 Reporting Period

- Continue to increase access to digital training and resource materials for collection system and wastewater treatment employees.
- Continue development of enhanced Fleet mechanic training program.
- Continue to develop competent and capable employees through technical and skills training related to job duties.
- Continue to implement employee performance-based goals as a part of the annual appraisal process and utilize performance results to identify additional training needs.
- Continue to train employees on MSD Standard Safety Procedures.
- Develop processes to better link organizational goals to individual employee goals.

4.1.1.3. SAFETY PROGRAMS

This section describes MSD's Safety Programs. The goal of this section 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

FY22 Reporting Period

- Conducted meetings with the Safety Committee. This Committee includes representatives from across the Operations Division, including Treatment, Collections System, and Drainage and Flood Protection representatives.
- Performed random job site inspections on Drainage/Sanitary crews, and inspections at all MSD facilities.

FY23 Reporting Period

- Continue Safety Committee meetings to perform inspections and review policies and incidents. Address safety concerns presented by safety committee members.
- Continue to improve safety culture with quarterly meetings of the CMF Safety Committee, Treatment Safety Committee, Flood Protection Committee and Collections Safety Committee. Maintain a focus on safety culture that includes all personnel.
- Continue to perform random job site inspections on Drainage/Sanitary crews, inspections at Morris Forman WQTC, and quarterly inspections with Operations of WQTCs and flood & viaduct pump stations.

M-C-2 Confined Space Entry

FY22 Reporting Period

- Conducted training and monitoring procedures on confined space entries in order to maintain compliance with 29 CFR 1910.146. Health and Safety personnel has spot-checked confined space entries to determine compliance with company procedure.
- Maintained entry equipment and personal protective equipment to provide for safe entry conditions and to maintain compliance with 29 CFR 1910.146.
- Contracted with vendor to conduct annual inspections on confined space entry equipment such as tripods, wenchers, and harnesses.
- Continued to advise personnel on the purchase of multi-gas monitors to replace older models that will no longer be maintained or manufactured.
- Continued to assess confined space monitor calibration status and purchase calibration gas for the six calibration stations.
- Began to utilize the Confined Space Trainer to train employees on entries under controllable conditions.

FY23 Reporting Period

- Continue to administer training and monitor procedures on confined space entry in order to maintain compliance with 29 CFR 1910.146. Health and Safety personnel will spot-check confined space entries to determine compliance with company procedure.
- Continue to ensure that all “Permit Required Confined Spaces” are properly labeled in Operations.
- Continue to advise personnel on the purchase of multi-gas monitors to replace older models that will no longer be maintained or manufactured.
- Continue to assess confined space monitor calibration status and purchase calibration gas for the six calibration stations.

- Continue utilizing the Confined Space trainer to train employees on entries under controllable conditions.

M-C-3 General Safety Procedures

FY22 Reporting Period

- Conducted Emergency Response Team (ERT) fire drills and tornado drills at the Main Office, CMF and Morris Forman WQTC.
- Conducted 8-hour refresher training on hazardous materials for the ERTs.
- Conducted 40-hour HAZ-MAT Technician Level training for newly hired employees.
- Conducted fire extinguisher training district-wide.
- Conducted annual audiograms district-wide.
- Replaced physical Safety Data Sheets at all treatment facility entrances with updated safety data sheets compliant with the Globally Harmonized System (GHS) standard.

FY23 Reporting Period

- Continue to conduct training with employees on the new OSHA Hazardous Communications Standard to include Globally Harmonized Systems for material safety data sheets and container labeling.
- Continue to assess the need to update existing procedures and/or create new procedures as conditions and regulatory requirements dictate.
- Continue to conduct 8-hour refresher training on hazardous materials for the ERTs and other required safety sensitive positions.
- Continue to conduct fire extinguisher training district-wide.
- Continue to conduct fire and tornado drills.
- Continue to conduct annual audiograms district-wide.
- Continue Monthly Safety Day Training as a refresher for safety topics.
- Schedule 40-hour HAZ-MAT Technician Level training for newly hired employees as needed based on hiring demands.
- Replace current Safety Data Sheets in the MSDS Pro database with updated safety data sheets compliant with the Globally Harmonized System (GHS) standard.
- Continue required safety orientations with contractors to ensure compliance with MSD & KYOSHA regulations and promote a strong safety culture.
- Continue to review and update the MSD Confined Space, Trenching, LOTO and Fall Protection Safety Programs.

M-C-4 Traffic Management

FY22 Reporting Period

- Purchased and maintained traffic control equipment to reduce hazardous operational exposure.
- Provided training on traffic control on all job sites and as employees are hired or as employee job duties require.

FY23 Reporting Period

- Continue traffic control training for employees to ensure continued compliance with MSD standards.
- Inspect and replace traffic control equipment regularly to ensure compliance with safety standards.
- Conduct traffic control audits of job sites in streets and roadways.

M-C-5 Lock Out/Tag Out

FY22 Reporting Period

- Maintained and communicated enhanced lock out/tag out procedures to employees as required by the OSHA Control of Hazardous Energy standard.
- Continued to develop lock out/tag out procedures as equipment was added or replaced, or as processes were changed.
- Worked with staff at Morris Forman WQTC to train on new machine specific procedures. The SOPs were made available through IPS and eB for improved accessibility.

FY23 Reporting Period

- Continue to implement lock out/tag out, machine-specific procedures as equipment is added or replaced, or as processes are changed.
- Continue working with staff at Morris Forman WQTC to train on new machine specific procedures.
- Getting new LOTO equipment ordered for all MSD staff to coordinate with the new policy.

M-C-6 Safety Equipment

FY22 Reporting Period

- Continued to review and provide required personal protective equipment to employees.
- Conducted NFPA 1852 required annual testing and maintenance for self-contained breathing apparatus respirators.
- Explored options for more comfortable safety equipment to maintain employee adherence to safety policies and procedures.

FY23 Reporting Period

- Maintain safety related equipment or replace the equipment per governing policies or as the need arises.
- Continue purchasing additional equipment for confined space, fall protection, trenching and Hazardous Materials.
- Look into making equipment purchased based on recommendations from the FY22 safety equipment exploration.

M-C-7 Performance Measures

FY22 Reporting Period

- Maintained compliance with OSHA standards.

- Ensured that appropriate staff attended mandatory training on trench excavation safety, confined space, first aid, hazmat response and fire extinguisher usage.
- Safety / worker compensation performance measures for MSD employees are detailed in Table 4.2.

Table 4.2. Safety Incidents and Worker Compensation Claims

PERFORMANCE MEASURE	RESULT
Days Worked (8 Hours)	151,561
Safety Incidents	89
Incidents per Days Worked	0.0006
Worker Comp Claims	60
Worker Comp Claims per Days Worked	0.0004
Days Off due to Work-Related Issues	108
Days Off due to Work-Related Issues per Days Worked	0.0007

FY23 Reporting Period

- Maintain field inspections as discussed under M-C-1 Safety Committee to reduce the number of incidents.
- Continue to improve compliance with NFPA 70E and the GHS standard as discussed under M-C-3 General Safety Procedures.
- Continue to foster a strong culture of workplace safety.

4.1.1.4. UTILITY INFORMATION MANAGEMENT SYSTEMS

Table 4.3. Utility Information Management Applications

This section describes MSD’s Utility Information Management System. The goal of this section 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.

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

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

FY22 Reporting Period

- 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
- Replaced FASTER with cloud-based AssetWorks.
- Completed Project WIN redesign and rewrite.
- Completed eB upgrade.
- Deployed McAfee’s next-generation endpoint protection to servers and workstations.
- Deployed MaaS360 mobile device management solution.

-
- Refreshed SolarWinds monitoring and alerting environment and deploy enhanced capabilities.
 - Completed end-to-end network resiliency testing.
 - Completed IPS Field Inspector Mobile use by Flood and Collections staff, and Rhythm for Civics web portal for service requests.
 - Completed deployment of LOJIC ArcGIS Enterprise 10.8.1 and Enterprise Geodatabase Production tier architecture.

FY23 Reporting Period

- Complete LOJIC planimetric/topographic map updates for Jefferson, Oldham, Bullitt Counties.
- Expand use of IPS Field Inspector Mobile throughout operations, and expand Rhythm for Civics web portal for online permit application submissions.
- Complete upgrade of Telog.
- Continue planning for SAP upgrade to S/4HANA.

4.1.1.5. ENGINEERING PROGRAMS

This section describes MSD's Engineering CMOM activities. The goal of this section 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 drawing, a scanned image is 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.

FY22 Reporting Period

- Captured assets in the GIS and IPS. Added 1,199 property service connection records and 71 miles of sewer assets.
- Corrected 35 sewer errata.
- Scanned 119 construction plan sets into the eB Imaging System.

FY23 Reporting Period

- Continue to scan plans and to add and update data in the GIS and asset management software based on new construction drawings and feedback from MSD field personnel.
- Update the GIS sewershed layer as projects are completed to support SCAP implementation.

- Continue routine audits and QA/QC methods to ensure data accuracy.

M-E-4 Sewer System Design

FY22 Reporting Period

- Continued to hold 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.
- Continued use of AutoCAD templates available on the MSD public website, including AutoCAD 3D templates, for use by private firms as well as in-house design.

FY23 Reporting Period

- Continue to review and update the MSD Design Manual.
- Gather additional data on GMP implementation and update design manual as needed.
- Continue to administer training on the green infrastructure review and inspection process.

M-E-5 Sewer Construction

M-E-6 Construction Inspection

FY22 Reporting Period

- Maintained the practice on significant capital projects to utilize the design engineer as the engineer of record or resident project representative (RPR).
- Continued reviews and revisions of the Construction Inspector Field Handbook.
- Continued utilization of contract inspectors due to workloads.

FY23 Reporting Period

- Continue construction inspection activities in-house and continue to supplement with contract inspection as needed.
- Continue acquisition of RPR services for significant capital projects.
- Continue review and updates of the Construction Inspector Field Handbook.

M-E-7 Acquisition Considerations

FY22 Reporting Period

- Financed capital expenditures of \$163,869,209.
- Committed professional services funds of \$37,432,243.
- Committed construction funds of \$107,141,180.

FY23 Reporting Period

- Budget for capital expenditures up to \$195,366,148.
- Monitor expenditures related to professional services and construction.

M-E-8 Continuing Sewer System Assessment

FY22 Reporting Period

- Continued to perform 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 shown in Table 4.4.

Table 4.4. Continuing Sewer System Assessment Activities

ACTIVITY	LINEAR FEET
CHEMICAL ROOT CONTROL	116,346
CLEANING ACTIVITIES	66,667
INSPECTION ACTIVITIES	926,936

FY23 Reporting Period

- Complete cleaning and inspection activities as scheduled in IPS.

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 for rehabilitation projects not specifically identified in the IOAP.

M-E-10 System Capacity Assurance Program

FY22 Reporting Period

- Continued to collect 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 quarterly reports.
- Reviewed wastewater capacity requests from private development as shown in Table 4.5. Running SCAP Balance by sewershed can be found in Appendix L.
- Generated inflow and infiltration reduction projects and calculated related capacity credits.

Table 4.5. SCAP Wastewater Capacity Request Reviews

RESULT	REVIEWS	FLOW
APPROVED	60	226,127
CONDITIONALLY APPROVED	438	12,610,453
DENIED	3	160,400

FY23 Reporting Period

- Continue to perform inspection of sewer lines in various sewersheds across the service area as scheduled. Continue tracking pump station capacities through testing, investigation and capacity evaluations.
- Update WQTC capacities and track new development flows.
- Continue to generate inflow and infiltration reduction projects and calculate related capacity credits.
- Continue to enhance credit calculation protocols and tracking in IPS.
- Continue to enhance the procedures for documentation of rehabilitation and the calculation of SCAP credits.
- Update SCAP areas based on pump station elimination projects that have been completed.

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 section 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 section 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

FY22 Reporting Period

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

FY23 Reporting Period

- Set the operating budget at \$176,668,000 and the capital budget at \$195,306,000.

Table 4.6. Financing and Cost Analysis Program Performance

PERFORMANCE MEASURE	BUDGET	ACTUAL
Operating Revenue Growth	7%	11%
Operating Revenue	\$347,257,358	\$365,367,574
Wastewater / Stormwater Revenue	\$342,758,875	\$356,870,298
Investment Income	\$11,526,000	\$8,877,380
Senior Debt Service Coverage Ratio	183%	186%
Total Operating Expenses	\$162,203,358	\$161,144,196
Total Capital Expenses	\$202,965,600	\$163,869,209

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 section 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

FY22 Reporting Period

- Attended regular safety inspections and meetings, and supported safety standards as part of participation in CMF and Morris Forman Safety Committees.
- Trained all employees in advanced safety of material handling and storeroom functionality.
- Continued annual audit of SOPs for tooling inspections and implement improved security measures for cost savings initiatives and asset management.
- Implemented an electronic UPS terminal for shipping at CMF and MF (This is an ongoing project). Work with MF leadership to designate proper location to place pallet/floor digital scale and computer terminal. This allows the end user to directly set up ground, air, or overnight shipments on their own. This also helps MSD’s UPS accounts continue without being delinquent.
- Developed a capital spare parts process with MSD Engineering and Operations Divisions. Currently in phase I of implementation.

FY23 Reporting Period

- Continue participation on CMF and Morris Forman WQTC Safety Committees by attending regular safety inspections, safety meetings, and supporting safety standards.
- Continue training on safety related storeroom processes and inventory for all employees.
- Continue annual audit of SOP for tooling inspections and implement improved security measures for cost savings initiatives and asset management that aligned with departmental goals when necessary.
- Continue barcode scanning initiatives for inventory control.
- Continue to develop the capital spare parts process with MSD Engineering and Operations Divisions.

M-H-3 Vehicle Repair

MSD's vehicle repair maintenance program addresses over 600 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.

FY22 Reporting Period

- Monitored equipment and work order data using FASTER and AssetWorks 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.
- Heavy Duty Vacuum Sewer / Catch Basin Cleaner Truck: Received one unit and placed in service in November 2021.
- Jetter / Flusher Truck: Received one unit and placed in service in November 2021.
- Analyzed FY22 capital purchasing needs, including the evaluation of MCE for replacement.
 - Heavy Duty Vacuum Sewer / Catch Basin Cleaner Truck: Ordered four new units to replace aging equipment.
 - Jetter / Flusher Truck: Ordered four new units to replace aging equipment.
 - Catch Basin Cleaner: Ordered one new unit to replace aging equipment.
- Continued efforts associated with One Water Initiative with LWC to capitalize on fleet services opportunities to realize cost savings while better serving our customers and increasing levels of service to the community. Remain 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 targeting each equipment type's overall average goals. MCE metrics include measures for availability and shop turnaround time as shown in Table 4.7.

FY23 Reporting Period

- Continue monitoring equipment and work order data using AssetWorks system reports to analyze and target areas where improvement is needed and to plan future replacements.
- Continue monitoring 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 Operations Division.
- Analyze FY23 capital purchasing needs, including the evaluation of all MCE for replacement.
- Continue to explore One Water Initiatives with LWC to capitalize on fleet services opportunities to realize cost savings while better serving our customers and increasing levels of service to the community.
- Continue monitoring and reporting availability and turnaround time of MCE targeting each equipment type's overall average goals.



- Heavy Duty Vacuum Sewer / Catch Basin Cleaner Truck: Procure and place in service one new unit to replace aging equipment and improve availability. Coordinate operator and fleet technician training upon receipt.
- Jetter / Flusher Truck: Procure and place in service one new unit to replace aging equipment and improve availability. Coordinate operator and fleet technician training upon receipt.
- Tele-Inspection Vehicle: Upon contract award, will order two new units to replace aging equipment.

Table 4.7. Mission Critical Equipment and Fleet Performance Measures

PERFORMANCE MEASURE	GOAL	RESULT
MCE Availability	80%	86%
Fleet Availability		96%

M-H-4 Supplies Management

FY22 Reporting Period

- Continued weekly meetings with departments for improved customer service, inventory management of critical spare parts, reorganization of new storeroom locations, and PPE/safety upgrades.
- Reviewed current SOPs to verify compatibility with current organizational direction. Updated SOPs for quality improvements and determined best practices to improve operations through continuous training of Store-room applications.
- Annual Organizational events (i.e. River Sweep); helping trace the life, valuation and spend of assets for proper & transparent auditing purposes.
- Continued asset management process to replace identified spare parts from Morris Forman WQTC flood event.
- Continued Bar-Code Scanning initiatives for inventory control.
- Began to update inventory descriptions and relocating like parts.

FY23 Reporting Period

- Continue to update SOPs for quality improvements and determine best practices to improve operations, utilizing “Back to Basics” guidelines.
- Continue to resubmit selected Material Master Forms for reprocessing to reconcile vendor’s Unit of Measure with storeroom’s Unit of Issue, in order to improve inventory and ordering processes.
- Complete upgrade security of Cedar Creek Storeroom with camera surveillance.
- Continue improvements to Material Master Form.
- Continue to implement plan to reorganize CMF North Warehouse.
- Continue barcode scanning initiatives for inventory control.
- Continue to update inventory descriptions and relocate like parts. Explore possible layout plans to include, but not limited to; climate controls for ESD’s, security, RFID technologies, and storing “like-spares” that belong to specific fixed assets together.
- Continue cycle counts after each morning rush and before system processing.

- Continue storeroom follow-up program to ensure accountability of vendors and visibility of incoming assets.
- Continue “Back to Basics” training for goal setting and incorporate focus commodities for team members

4.1.1.9. CUSTOMER SERVICE PROGRAMS

This section describes MSD’s Customer Service Programs. The goal of this section 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

FY22 Reporting Period

- Mailed out 398 Project WIN and Plumbing Modification Program packets of information or applications.
- Launched a new customer service portal for customers to submit service request online, eservice.louisvillemad.org. Added 424 new users and accepted 294 service requests online.
- Table 4.8 illustrates the number of calls accepted and answered by our Customer Relations Specialists. The monthly average number of calls accepted and answered for FY22 was 41,947 and 40,193, respectively.
- Filled 4 vacant positions, two supervisory and two agent positions.

FY23 Reporting Period

- Continue efforts to keep the number of abandoned calls below target level.
- Fill vacant Customer Relations positions to better serve customer needs.
- Continue to improve the functionality of the portal for service request submission and routing.

4.1.1.10. LEGAL SUPPORT PROGRAMS

Table 4.8. Customer Service Call Data

PERFORMANCE MEASURE	GOAL MAXIMUM	RESULT
Calls Received		41,947
Calls Abandoned		1,754
Abandoned Call Rate	5%	4%

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”

FY22 Reporting Period

Over the past fiscal year, the MSD legal department has provided 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.

FY23 Reporting Period

- Continue to provide legal services to support MSD.

4.1.1.11. WATER QUALITY MONITORING PROGRAMS

This section describes MSD’s Water Quality Monitoring Program. The goal of this section 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

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:

- Ambient monitoring at 28 Long Term Monitoring Network (LTMN) locations across Jefferson County to monitor multiple physical and biological indicator parameters in accordance with the MS4 permit.
 - Continuous monitoring for pH, conductivity, temperature, dissolved oxygen, and stream flow are currently collected at 25 of the 28 ambient locations.
 - Biological sampling and/or evaluation for algae, fish, habitat, and benthic macroinvertebrates are currently conducted every two years at 27 of the 28 ambient locations.
 - Quarterly sampling for Total Suspended Solids (TSS), E. coli, total nitrogen, oil and grease, copper, and pH is currently conducted on a quarterly basis at 27 of the 28 ambient locations.
 - Recreational contact monitoring is conducted seasonally from May through October is currently conducted at 27 of the 28 ambient monitoring sites for E. coli.
 - Wet weather monitoring is conducted over the course of the MS4 permit term for three storm events at 27 of the 28 ambient locations and an additional 15 locations.
- Combined Sewer Overflows (CSOs)/Significant Industrial Users (SIUs) point sampling monitors the risk of water quality impairment to discharges associated with SIUs and General Discharge Permits through the NMC 3 Pretreatment Program.
- 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 section 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

FY22 Reporting Period

- Continued efforts to improve disaster response protocols.
- Practiced annual floodwall closure installations.
- Practiced annual levee inspections.

-
- Continued collaboration with the National Weather Service, USGS, and Louisville Metro Emergency Management Agency (EMA) to develop a pilot project to install flow and level monitors at a site for early warning of significant weather events. Significant changes in both meters would trigger a notification at MSD and EMA.
 - Continued development of a Critical Asset Risk Management tool to perform risk and resiliency assessment for all hazards including natural, technology/accidental, human-caused/adversarial, and decaying of infrastructure.

FY23 Reporting Period

- Continue to practice annual floodwall closure installations.
- Continue to practice annual levee inspections.
- Continue development of the Critical Asset Risk Management tool.
- Continue work with the National Weather Service regarding monitors for early warning of significant weather events.
- Continue revision of Business Continuity Plan using the critical path.
- Continue to work with other agencies to develop Catastrophic Urban Flood Plan.
- Add redundant communication paths to provide improved network resiliency 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

MSD continues to improve and enhance the comprehensive disaster response and business continuity plan.

FY22 Reporting Period

- Continue development of 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.

FY23 Reporting Period

- Continue development of catastrophic urban flood plan.
- Continue development of operational emergency response SOPs from the comprehensive risk and vulnerability assessment of MSD operations and infrastructure assets, using industry best practices, and begin training.

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 section is to maintain pump stations for optimal use during routine and emergency operations through well documented operating procedures.

O-A-1 Routine Operating Programs

FY22 Reporting Period

- Continued review and updates, as needed, of 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.
- Continued Operations staff training for pump stations and diversion structures at newly constructed CSO storage basins.
- Replaced 17 sanitary pumps in the collections system. Repaired or rehabilitated an additional 45 pumps throughout the collections system.
- Telemetry panel replacements at pump stations began with new systems being procured, received, and installed at several stations within the collections system.
- The control panel for Muddy Fork PS and the new motor starters for Hasbrook PS were procured and received.
- The spare screw compactor for the Grand Avenue PS was procured and received.

FY23 Reporting Period

- Continue regular meetings with MSD Operations and Engineering staff to determine capital project priorities and advise on the budgetary needs on a quarterly basis.
- Continue Operations staff training for pump stations and diversion structures at newly constructed CSO storage basins.
- Continue reviewing pump stations for the installation of level sensors in support of improved monitoring capability.
- Continue to provide backup power at critical pump stations.

-
- Continue telemetry panel replacement projects for pump stations with outdated processors, at risk of submergence, or with multiple PLC or communications failures.
 - Install 4 replacement sanitary pumps for the collections system.
 - Install control panel for Muddy Fork PS and new motor starters for Hasbrook PS.

O-A-2 Emergency Operating Programs

FY22 Reporting Period

- Reviewed and updated procedures for installation and hand off of backup power supply and mobile generator staging and operation.
- Standby generator at West Goose Creek PS was replaced.

FY23 Reporting Period

- Continue to evaluate pump stations for inclusion in the Green Line program.

4.1.2.2. PRETREATMENT PROGRAM

This section describes MSD's Pretreatment Programs. The goal of this section 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

Administered pretreatment limitations at Hite Creek, Floyds Fork, Derek R. Guthrie and Morris Forman WQTCs. 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.

FY22 Reporting Period

- Continue to administer the DAP for MSD service areas and identify new dental office(s) that submit a one-time compliance dental amalgam report.

FY23 Reporting Period

- Continue to administer the DAP for MSD service areas and identify new dental office(s) that submit a one-time compliance dental amalgam report.
- Submit for approval to the EPA's Cross-Media Electronic Reporting Rule to utilize third-party software and allow online submission of self-monitoring report data from permitted industries.
- Submit to MSD board policy committee approved ERP changes.

4.1.2.3. CORROSION CONTROLS PROGRAM

This section describes MSD's Corrosion Controls Program. The goal of this section 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 some instances, it is possible to respond to odor complaints and treat H₂S without addressing corrosion concerns.

FY22 Reporting Period

- Continued to clean MSD facilities to minimize impact of corrosion and odors. Completed 63 cleaning work orders on collection system.
- Continued to enhance asset review and documentation by further defining service request responsibilities related to odor complaints.
- Continued contracts in order to provide professional engineering services to assist MSD with odor control for the collection system, regional WQTCs, and Ohio River Force Main (ORFM).
- Continued to monitor and evaluate gravity lines within the collections system through the CSSA/Blockage Abatement Program using the corrosion indexes.
- Continued to have monthly meetings with Evoqua to review their full-service contract to track H₂S and odor mitigation efforts.
- Replaced 8 ARV's on the ORFM.
- Pump station oxygen generation system was completed at the Barbour Lane PS to treat a portion of the ORFM.

FY23 Reporting Period

- Continue to clean MSD facilities to minimize impact of odors and corrosion caused by H₂S on the collection system.
- Create further training and documentation on maintenance activities and work flow for better tracking of work performed and time and materials used.
- Monitor and evaluate gravity lines within the collections system through the CSSA/Blockage Abatement Program.
- Continue to monitor Evoqua's Full Service Odor Control Contract.
- Continue review of underground tank pump station sites, which may be susceptible to corrosion. Projects include application of epoxy coatings as for corrosion control and calcium nitrate as for H₂S elimination.
- Design and construct air release valve replacement using resistant materials on the ORFM. Six ARV's have been identified to be replaced during this reporting period.

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 section 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

FY22 Reporting Period

- Issued 536 enforcement actions to include FCNs, NOV's and NOV's with fines to food service establishments (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 45 plan review inspections to insure proper grease control equipment was installed at new and/or modified FSEs.
- Mailed 138 FOG residential public service notifications. The public service outreach informed residents of a recent sanitary sewer blockage occurrence near their home. Information sent to residents informs the customer of measures that could be taken within a residential dwelling to prevent any further occurrences.
- Conducted two 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. Class number 25 was held on November 22, 2021, and class number 26 held virtually on May 17, 2022. CGWHs as well as master and journeyman plumbers that service or repair grease traps or grease interceptors within Jefferson County service area are required to participate and receive approval to service grease control equipment. FSEs in Jefferson County must only utilize MSD's CGWHs or plumbers that have obtained the appropriate certification.
- Continued to track FOG removal by CGWHs. Collectively, 3,360,864 gallons of FOG was removed from grease control equipment maintained by area FSEs during the reporting period. Collectively, CGWHs in Jefferson County serviced approximately 5,603 items of grease control equipment.
- Continued to track FOG program performance measures.
- Contracted with a consultant and pertinent employees to conduct a comprehensive FOG Program Assessment Report to identify program areas for improvements and enhancements. Developed a comprehensive FOG Program Guidance Document to define the scope of program initiatives, proper documents, policies and procedures.

FY23 Reporting Period

- Continue to conduct inspections at FSEs and issue enforcement actions as appropriate for violations of the MSD Wastewater/Stormwater Discharge Regulations.
- Continue to send FOG residential public outreach letters to residents in neighborhoods in the MSD service area that had FOG issues.
- Participate in public education and outreach programs to inform the public regarding MSD's FOG program.
- Continue to host at least two CGWH training classes per year.
- Continue to track FOG program performance measures and develop reporting tools.

- Develop a framework for periodic performance of a FOG Characterization Study.
- Continue work with consultant to develop interface between IPS and LINKO for reporting and portal access.

4.1.2.5. NEW CONNECTION TAP-IN PROGRAM

This section describes MSD's New Connection Tap-In Program. The goal of this section 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 that have a master plumber on staff. New connections made to public sanitary sewers are inspected by MSD personnel.

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

FY22 Reporting Period

- Refer to Table 4.5 for details regarding new connections approved through the SCAP process.
- Inspected installation of 79 new property service connections (PSCs) on existing MSD's sewers.

FY23 Reporting Period

- Continue to review projects for capacity available through SCAP program.
- Implement 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 section 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 section 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

FY22 Reporting Period

- Contracted with locating company to locate all requests with the MSD service area. Contract is set up to handle Louisville Water Company (LWC) requests as well (invoiced separately). Invoices totaled \$1,008,329 to 107,679 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 \$163,227.00 to participate in this program for the reporting period.
- Requested 108,818 to the BUD Center for the marking of other utilities during this reporting period.

FY23 Reporting Period

- Continue to contract for utility locating services.

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 section 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

FY22 Reporting Period

- Continued to annually train staff to use the IPS asset management system to track pump station work orders as well as associated pump station assets.
- Ensured collaboration between Engineering and Operations on the design and construction of pump stations at CSO storage basins and diversion structures.
- Continued 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.

Table 4.9. Sanitary PS Structured Maintenance

PERFORMANCE MEASURE	GOAL	RESULT
Sanitary PS Structured Maintenance Completion Rate	60.0%	94.4%

FY23 Reporting Period

- Continue structured maintenance for sanitary and flood pump stations.
- Continue to annually train staff to use the IPS asset management system to track pump station work orders as well as associated pump station assets.
- Continue collaboration between Operations and Engineering staff, designers and contractors to incorporate changes to the system with the elimination of the non-regional WQTCs and the addition of storage basins and associated pump stations as required by the IOAP.
- Continue to develop and improve SOPs, training, and reporting related to subsequent repairs.

4.1.3.2. FORCE MAIN PREVENTIVE MAINTENANCE

This section describes MSD’s Force Main Preventive Maintenance program. The goal of this section 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

FY22 Reporting Period

- Conducted the Annual Force Main Program evaluation and completed inspections on force mains listed in Table 4.10, covering 301,418 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.
- Continued to initiate corrective work orders for defects found on other assets during inspections.

FY23 Reporting Period

4.1.3.3. GRAVITY LINE PREVENTIVE MAINTENANCE

This section describes MSD’s Gravity Line Preventive Maintenance program. The goal of this section 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.

Table 4.10. Force Main Inspections

FORCE MAIN	INSPECTED LENGTH
	13
ADAMS RUN #1 FM	3,877
APPLE PATCH FM	1,942
ARBOR MANOR FM	4,174
ASHBURTON FM	438
BARDSTOWN ROAD FM	2,532
BAY HARBOR FM	3,810
BECKLEY STATION FM	7,291
BERRYTOWN FM	466
BLUEGRASS FIELDS FM	1,503
BRANDYWYNE FM	575
BRIDGE POINTE FM	4,007
CINDERELLA FM	2,964
COVERED COVE FM	3,683
CROSSGATE FM	450
DENBEIGH FM	416
DOMINION WAY FM	2,346
EASTWOOD-FISHERVILLE FM	12,089
EDITH AVENUE FM	13,469
FAIRMOUNT ROAD FM	5,371
FAIRWAY VIEW FM	4,964
FARMVIEW PLAZA FM	918
GRAND AVENUE FM	26,967
GUNPOWDER FM	3,476
HARRODS CREEK FM	27,370
INDUSTRIAL FM	1,741
JARVIS LANE FM	304
LAKE FOREST FM	1,428
ORFM	81,929
ROSA TERRACE FM	1,509
RUBBERTOWN FM	9,485
ST. PATRICK SCHOOL FM	404
WEST COUNTY SLUDGE MAIN	69,331
WORTHING FM	308

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.

FY22 Reporting Period

- All four operational regional WQTCs have achieved the NACWA Silver Award goal since FY17. Cedar Creek WQTC has maintained NACWA Platinum Award status since FY09 as shown in Table 4.11.
- Continued structured maintenance for WQTCs as shown in Table 4.12. Additional emphasis and planning have been performed to improve performance.

FY23 Reporting Period

- Continue to track exceedances at the regional WQTCs.
- Continue structured maintenance for all WQTCs and refine program metrics including interim targets to ensure continued performance and attainment of the goal. This performance goal target will be increased in FY24.

Table 4.11. Regional WQTC Permit Compliance

PLANT NAME	FY	EXCEEDANCES	MONTHS COMPLIANT
CEDAR CREEK	FY17	0	12
CEDAR CREEK	FY18	0	12
CEDAR CREEK	FY19	0	12
CEDAR CREEK	FY20	0	12
CEDAR CREEK	FY21	0	12
CEDAR CREEK	FY22	0	12
DEREK R. GUTHRIE	FY17	1	11
DEREK R. GUTHRIE	FY18	3	10
DEREK R. GUTHRIE	FY19	2	10
DEREK R. GUTHRIE	FY20	0	12
DEREK R. GUTHRIE	FY21	0	12
DEREK R. GUTHRIE	FY22	2	10
FLOYDS FORK	FY17	1	11
FLOYDS FORK	FY18	2	11
FLOYDS FORK	FY19	0	12
FLOYDS FORK	FY20	0	12
FLOYDS FORK	FY21	1	11
FLOYDS FORK	FY22	0	12
HITE CREEK	FY17	1	11
HITE CREEK	FY18	1	11
HITE CREEK	FY19	0	12
HITE CREEK	FY20	0	12
HITE CREEK	FY21	3	11
HITE CREEK	FY22	0	12

Table 4.12. WQTC Structured Maintenance

PERFORMANCE MEASURE	GOAL	RESULT
WQTC Structured Maintenance Completion Rate	60%	35%

4.2.2. HITE CREEK WATER QUALITY TREATMENT CENTER

FY22 Reporting Period

- Continued expansion project construction throughout the year.
- Dewatering of sludge on-site began.

FY23 Reporting Period

- Complete expansion project.

4.2.3. FLOYDS FORK WATER QUALITY TREATMENT CENTER

FY22 Reporting Period

- No major capital projects were completed.

FY23 Reporting Period

- Tertiary Building Roof to be replaced.

4.2.4. DEREK R. GUTHRIE WATER QUALITY TREATMENT CENTER

FY22 Reporting Period

- Completed construction of the Clarifier Grout Repair and RAS Gate Replacement project.
- Completed construction of the Dewatering Emergency Contract Project. Began dewatering sludge in the new system.
- Completed construction of the Elevator Repairs project.
- Completed construction of Grit Handling Building Roof Replacement.
- Completed construction of Radio Repeaters (DRG and MFWQTC)

FY23 Reporting Period

- Design of the RAS Pumps 2&3 Replacement and the New Sodium Biosulfite Building will begin.
- A Lab Upgrade project will begin construction.
- Wet Weather Pump Station WWSB HVAC will begin construction.

4.2.5. CEDAR CREEK WATER QUALITY TREATMENT CENTER

FY22 Reporting Period

- Completed construction of the Effluent Parshall Flume Upgrade Project.
- Completed construction of a new Sodium Aluminate Building.

FY23 Reporting Period

- A project to install new decanters, tank covers, and odor control for the Solids Holding Tanks will be constructed.
- A project to allow re-rating of the plant capacity to 9.0 MGD will begin construction.

4.3. CMOM ACTIVITY SCHEDULE

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

Additional emergency projects may be classified as CMOM. Following a thorough review of individual categorizations appropriate projects will be included in the FY23 Mid-Year Status Report.

Figure 4.1. CMOM Activity Schedule

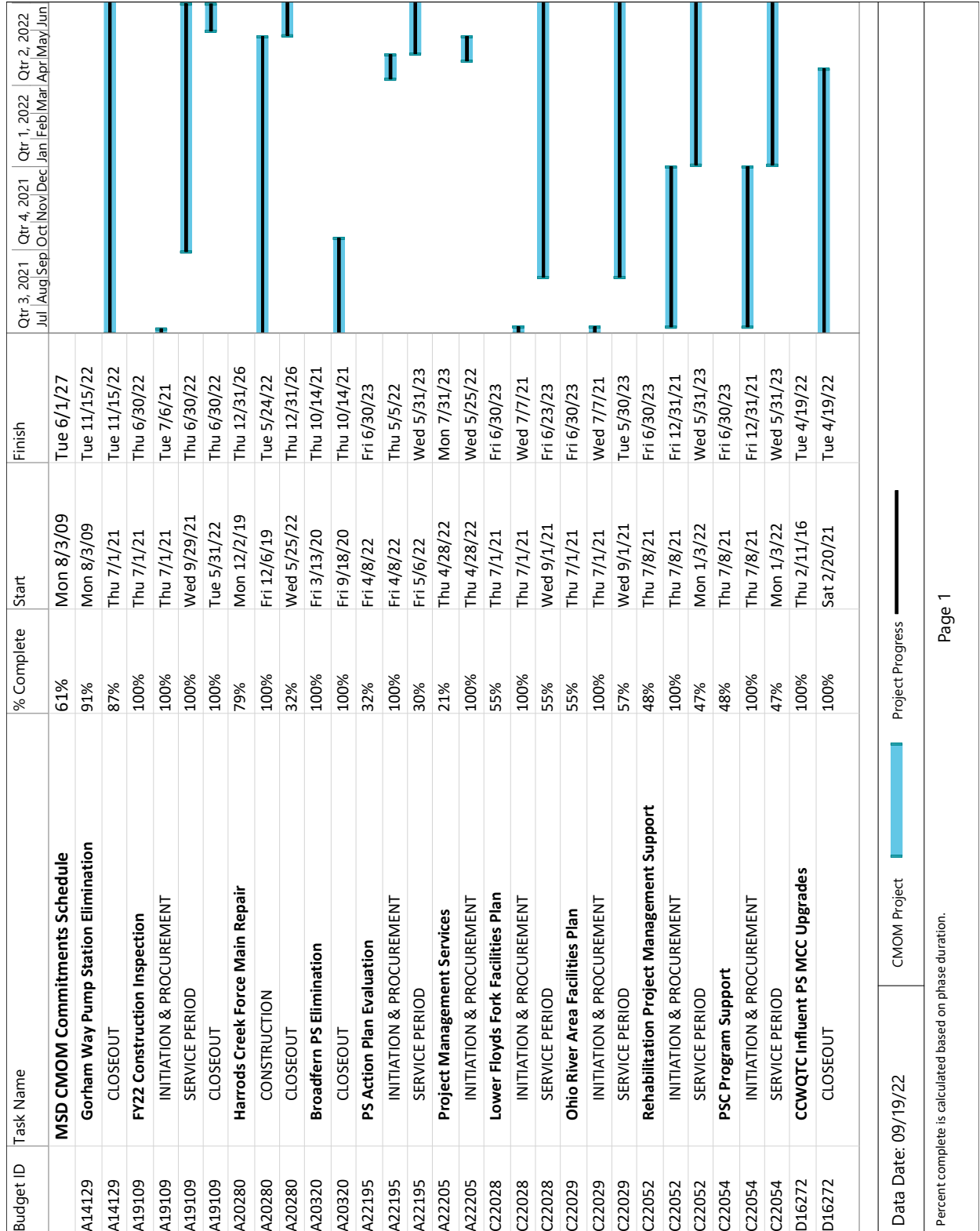


Figure 4.1. CMOM Activity Schedule

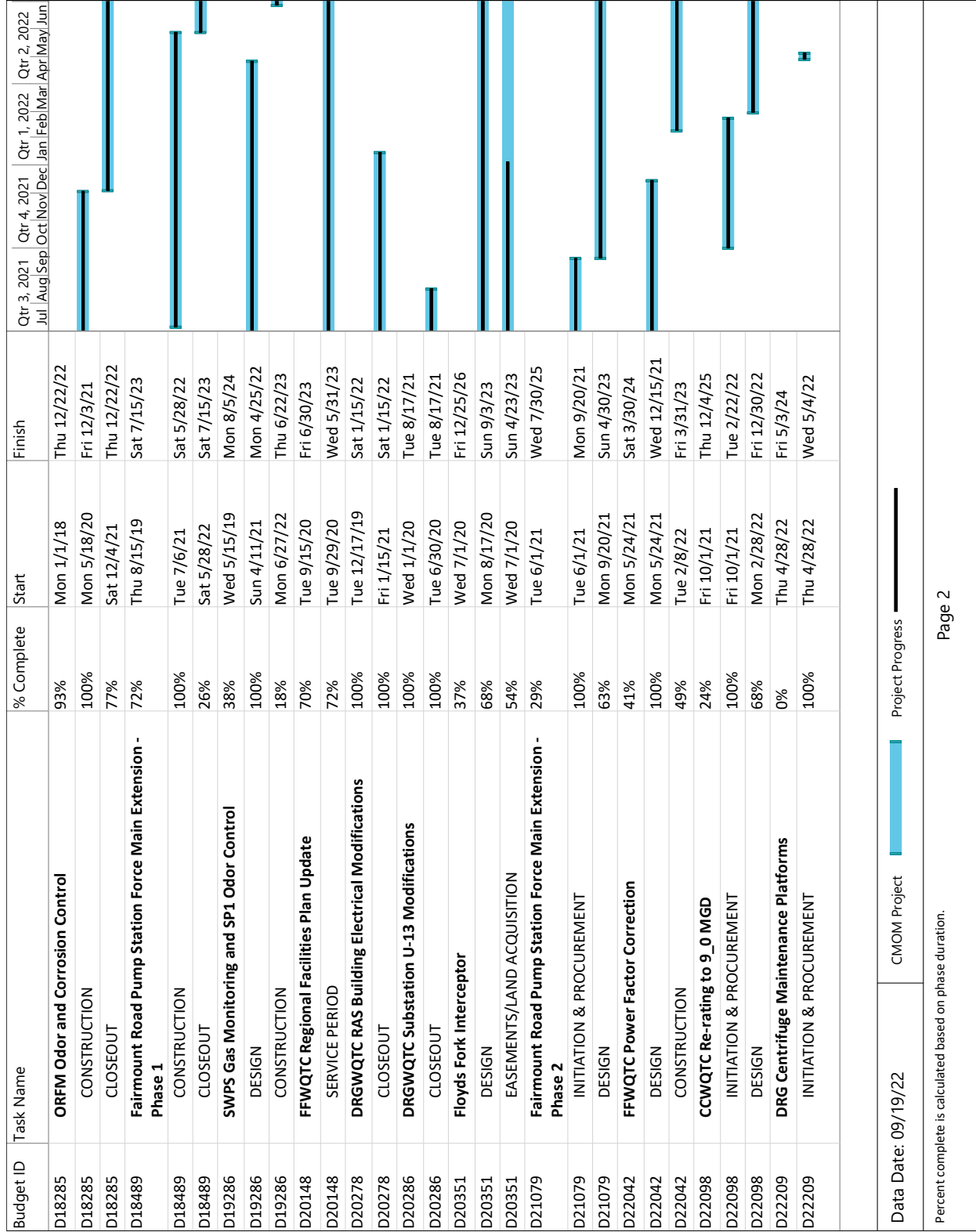
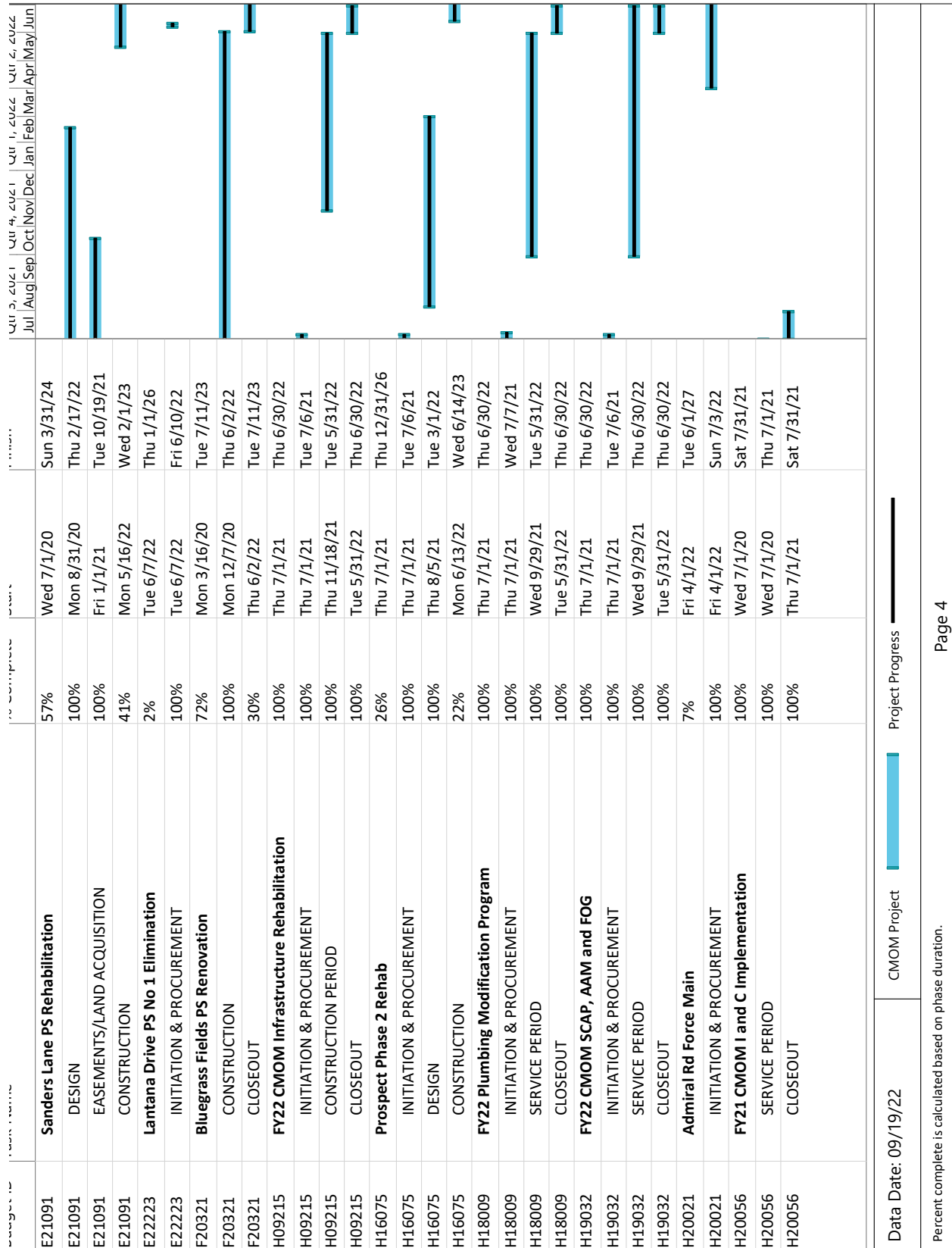


Figure 4.1. CMOM Activity Schedule



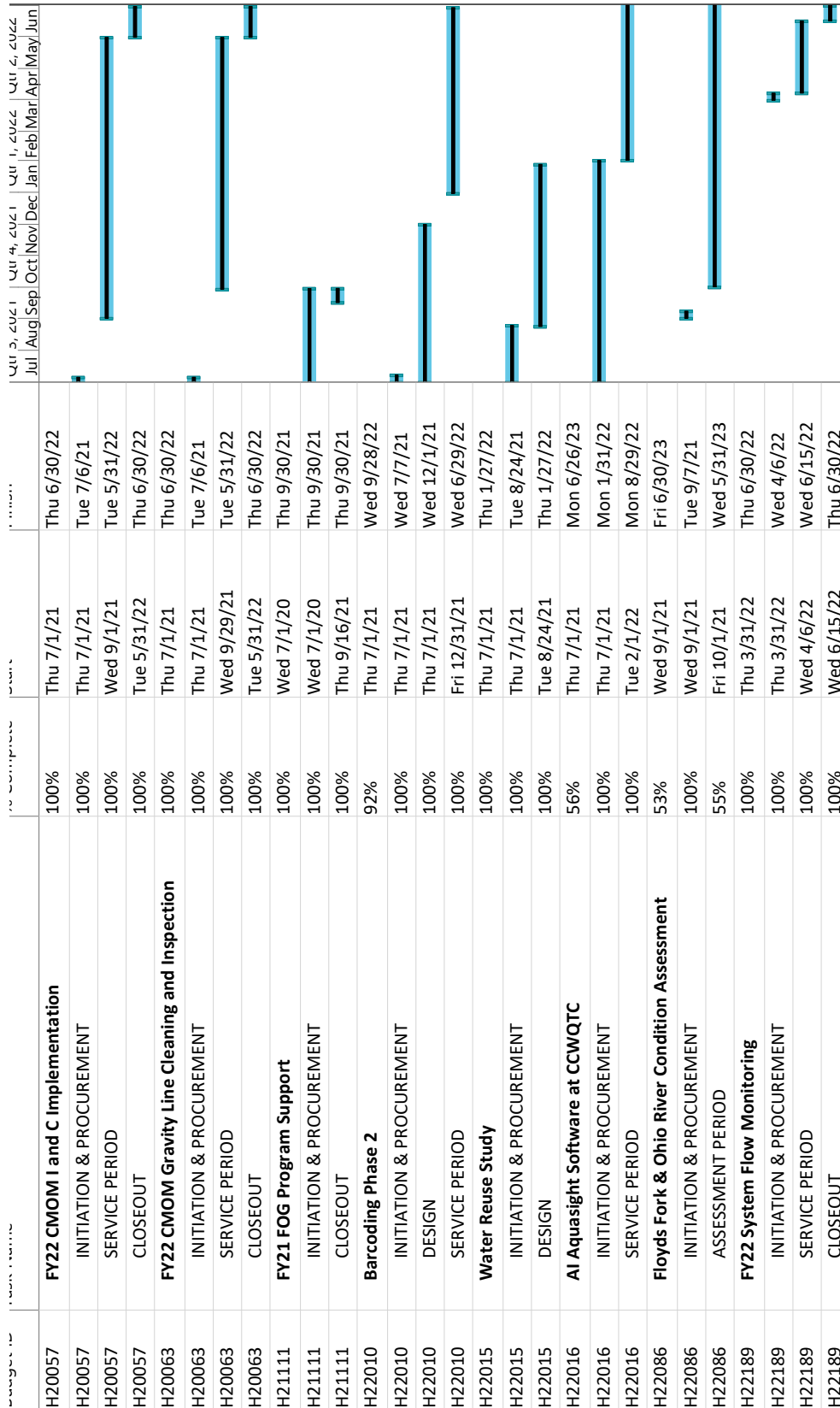
Data Date: 09/19/22

CMOM Project

Project Progress

Percent complete is calculated based on phase duration.

Figure 4.1. CMOM Activity Schedule



Data Date: 09/19/22

Legend: CMOM Project (blue bar), Project Progress (black bar)

Percent complete is calculated based on phase duration.

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SECTION 5: PROGRAM ACTIVITIES FOR SEWER OVERFLOW RESPONSE PROTOCOL

5.1. PROGRAM BACKGROUND

Per Paragraph 38.c. of the 2ACD, MSD’s initial Sewer Overflow Response Protocol (SORP) was approved by KEEC/EPA 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.

The following activities were performed during this reporting period.

5.2. OVERFLOW MANAGEMENT AND FIELD DOCUMENTATION

FY22 Reporting Period

- Documented overflows and unauthorized discharges to waters of the US (WUS) during the reporting period as documented in Section 1.1. Discharge Definitions and Documentation.
- Reported discharges that reached the WUS within 24 hours as shown in Table 5.1. Discharges that were not reported within 24 hours are explained in Table 5.4.

Table 5.1. Discharge Notifications

TOTAL DISCHARGES	REPORTED WITHIN 24 HOURS	RESULT
259	245	95%

- Hauled sewage from pump stations to mitigate sanitary overflows as indicated in Table 5.2. No sites were routinely (3 or more times per year) hauled to prevent overflows during rain events, depending on the magnitude and location of the storm.
- 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 928 wet weather inspections on a total of 10 days, and documented 180 unauthorized discharges through route reconnaissance.
- Monitored the West County route via telemetry. Discharge work orders are created as required based on telemetry observations.
- Continued to monitor over 300 sites via telemetry.

FY23 Reporting Period

- Continue to monitor data, train staff and update information as needed.
- Continue to monitor over 300 sites via telemetry.
- Continue to haul to prevent overflows and backups during rain events until system improvements are completed.
- Continue to monitor documented collections system SSO sites, which have been grouped into routes based on the range of rainfall rates necessary to cause a SSO.

Table 5.2. Hauling Operations

FY	ELECTRICAL PROBLEMS AT MSD	GENERAL NATURE	LACK OF SYSTEM CAPACITY	MECHANICAL FAILURE	POWER OUTAGE (LG&E)	STRUCTURAL FAILURE	UTILITY DAMAGED MSD ASSET
FY15	14,500	0	84,000	0	0	70,000	3,000
FY16	50	5,000	37,660	7,500	0	3,000	0
FY17	29,000	2,000	767,500	13,700	38,700	91,800	1,000
FY18	7,000	0	410,200	26,000	0	5,055,100	0
FY19	0	0	716,670	25,000	0	232,750	3,000
FY20	0	0	112,400	20,000	0	104,000	0
FY21	0	0	131,100	20,000	0	20,000	0
FY22	0	0	100,000	41,000	5	132,500	0

- Continue the daily, monthly and quarterly data reviews with staff from Engineering and Operations Divisions to ensure accuracy and consistency in reporting.
- Schedule 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

FY22 Reporting Period

- Conducted daily review with staff to perform quality control on discharge work orders.
- Conducted a monthly review of the discharge work orders and updated the associated assets in IPS as needed.
- Performed a detailed review and trend analysis on the discharge data and incorporated the findings into the quarterly SORP training.

FY23 Reporting Period

- Continue to perform quality control on discharge work orders with appropriate staff.
- Update assets in IPS when new overflow locations are identified.
- Continue to review the overflow data for trends. These trends are discussed with staff in the Quarterly SORP training and documented in the Quarterly Reports.

5.4. STAFF TRAINING & COMMUNICATION

FY22 Reporting Period

- Continued training through the online training delivery system, which allows more flexibility for employees to complete training at convenient times during the quarter and to integrate SORP training with new employee and contractor orientation. SORP training activities are detailed in Table 5.3. Training module descriptions can be found in the latest version of the SORP manual, available at msdprojectwin.org.

FY23 Reporting Period

- Continue to integrate SORP training with new employee and contractor orientation.
- Schedule and administer SORP Quarterly and Annual Training.
- Continue to review and update 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.

Table 5.3. SORP Training Details

TRAINING MODULE	STAFF TRAINED
Annual	380
Assessment, Mitigation, & Documentation	273
Preparing for Overflows, Monitoring, & Mobilization	256
Public Notification & Overflow Cleanup	249
Reporting & Follow-up	252

Table 5.4. Late Discharge Notifications

WORK ORDER #	REPORT TIME (HRS)	CAUSE
3439645	1681	DWO at CSO182. Entered and reported late. No alert was issued from Telog. Discovered by Ryan Fisher in Regulatory Compliance during monthly CSO flow monitoring review, delayed one month while onboarding new radar rainfall contractor / data. Ryan worked with the Telog vendor and IT to schedule reboots twice weekly to clear the server cache.
3427477	98	Rain Event SSO Route 9/20/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3428150	97	Rain Event SSO Route 9/20/2021. Entered and reported late. One of 4 discharges reported for the team, missed in paperwork and corrected. Staff was instructed to follow the 10 hour rule. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427498	95	Rain Event SSO Route 9/20/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427499	95	Rain Event SSO Route 9/20/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427989	46	Rain Event SSO Route 9/22/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427984	44	Rain Event SSO Route 9/22/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427983	44	Rain Event SSO Route 9/22/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427980	44	Rain Event SSO Route 9/22/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.

**SECOND AMENDED CONSENT DECREE
ANNUAL REPORT FY22
JULY 1, 2021 - JUNE 30, 2022**



WORK ORDER #	REPORT TIME (HRS)	CAUSE
3427985	44	Rain Event SSO Route 9/22/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427986	43	Rain Event SSO Route 9/22/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427987	43	Rain Event SSO Route 9/22/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3427988	43	Rain Event SSO Route 9/22/2021. Entered on time but reported late. No apparent issues in IPS or IT. IT server migration occurred that weekend, and may have prevented internal application from performing properly. IT developing new alert from server and application if there are issues. Asking state about any issues on their side.
3467760	28	DWO at SSL 70388. Sanitary responded to a discharge on the cleanout on the SSL on 1/23 but could not locate the cleanout and referred to TVI for location / inspection. Discharge 3467568 was created for the SSL on 1/23 (non-WUS). TVI responded on 1/24, inspected, flushed and root cut main line. TVI observed the discharge from the cleanout and saw the discharge reported in IPS under 3467568. When the SR was reviewed for further inspection work, the DWO 3467760 was created for the WUS overflow.
3480802	74	WWO at SMH 108956. Entered on time but reported late. Due to onboarding of BCSD assets in November, made a change to the DNS workflow that used Agency IDs from an IPS table instead of hard-coded in DNS app. The AI stored for Hite Creek WQTC had a typo, and it took time to track down the error. Once the data was corrected the report was submitted through the normal process. An additional notification has been requested from IT for AI failures. Until implemented, staff are reviewing daily logs.
3483099	33	DWO at SMN 90872-90875. Entered on time but reported late. Due to onboarding of BCSD assets in November, made a change to the DNS workflow that used Agency IDs from an IPS table instead of hard-coded in DNS app. The AI stored for Hite Creek WQTC had a typo, and it took time to track down the error. Once the data was corrected the report was submitted through the normal process. An additional notification has been requested from IT for AI failures. Until implemented, staff are reviewing daily logs.

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

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

FY22 Reporting Period

- Updated sign inventory to ensure all needed signs are in place.
- Performed the annual sign inspection process in the spring. There were 1,165 signs inspected, 1,200 signs cleaned, and 42 replaced.

FY23 Reporting Period

- Perform an evaluation comparing the documented overflows with existing sign locations to ensure all needed signs are in place.
- Perform the annual sign inspections as scheduled in IPS.

6.1.2. ELECTRONIC NOTIFICATIONS

FY22 Reporting Period

- Continued to utilize the Louisville Metro e-mail alert system to notify customers who voluntarily signed up to receive email alerts regarding sewer overflows and to broadcast messages to the public.
- Provided notification on the MSD's 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.

FY23 Reporting Period

- Continue email alerts to customers who signed up to receive the information.
- Continue to provide web notification for wet weather overflows and significant unauthorized discharges.

6.1.3. PRINT NOTIFICATIONS

FY22 Reporting Period

- Sent 138 public outreach letters to residents in areas that have FOG issues.
- Mailed 311 Project WIN information packets to customers who called with questions about the Amended Consent Decree – specifically regarding overflows, discharges, plumbing modification and the surcharge fee.

Table 6.1. Metro TV Broadcasts

PROJECT	PHASE	AIRINGS
Portland CSO Basin	Conceptual Design Meeting	12
Southwestern Parkway CSO Basin	Construction Meeting	38
Waterway Protection Tunnel	Construction Meeting	51

- In April 2022, distributed the annual mailing to over 20,000 residents within 500 feet of Beargrass Creek and the Ohio River, advising the use of caution around streams during and immediately following rain events as they may contain untreated sewage.
- Provided annual notification to community at large in the Courier Journal in a newspaper advertisement to use caution around streams during and immediately following rain events as they may contain untreated sewage.

FY23 Reporting Period

- Continue to send out FOG residential public outreach letters to areas that have FOG issues.
- Continue to mail Project WIN information packets to customers who call with questions about the Amended Consent Decree – specifically regarding overflows, discharges, plumbing modification and the surcharge fee.
- Provide annual notification and informational material to the community, providing a general overview and awareness relating to public health impacts associated with sewer overflows and an update of Project WIN initiatives by May 1, 2023.
- Distribute, prior to May 1, 2023, the annual mailing to residents within 500 feet of Beargrass Creek and the Ohio River, advising the use of caution around streams during and immediately following rain events as they 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.

FY22 Reporting Period

- Continued to identify areas of public knowledge requiring additional effort and attention and target public education efforts to fill the gaps, including completing the Project WIN / MS4 Public Behavior Change Assessment Survey.
- Shared the benefits of fostering good water quality.
- In partnership with UofL, MSD launched a "Cornerstone" course where freshman engineering students 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.
- Continued to provide information on MSD's Green Infrastructure incentive programs, Louisville's tree canopy, sewer overflow prevention, pollution prevention and other topics, including the events listed in Table 6.2.

FY23 Reporting Period

- Continue to re-tool public education efforts to address areas of public knowledge requiring additional effort and attention.
- Pursue partnerships and funding in order to expand the UofL Cornerstone course to a spring semester audience (up to 480 students).

Table 6.2. Public Education Workshops & Activities

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
July 9, 2021	UofL Green Infrastructure Walking Tour	Louisville MSD staff host a tour of green infrastructure, stormwater and sanitary facilities on the University of Louisville Belknap Campus.
August 19-29, 2021	Kentucky State Fair Booth	MSD partnered with Ripple Effects to host a booth at the Kentucky State Fair. Displays included native plants and information regarding how rain gardens benefit water quality and stormwater. Native plant seed packets, rain garden handbooks, rain garden plant guides and Mandy the Salamander books were distributed.
September 22 and 23, 2021	KAMM Presentation	Virtual presentations at the Kentucky Association of Mitigations Managers Annual Conference about the Maple Street flood buyout and future land use, and the Three Forks of Beargrass Creek Planning Study
October 17-19, 2021	WEFTEC Presentations	Presentations at the Water Environment Federation Technical Exhibit & Conference (WEFTEC) on water equity and management.
October 26, 2021	USACE Press Conference	MSD Executive Director, Tony Parrot, conducted a press conference at the Louisville Water Tower announcing funding for the Cleaner Water Program to be used for upgrades to the Paddy's Run Flood Pump Station.
October 29, 2021	Virtual Kentucky Stormwater Association Quarterly Meeting Presentation	Colette Easter presented at a KSA Quarterly meeting about Louisville MSD's watershed planning efforts.
November 18, 2021	Enviroscape Model presentation at Dunn Elementary School	MSD staff talked to elementary aged children about watersheds. The enviroscape was used as a visual demonstration.
January 11, 2022	MSD Clarity (Odor Control) Public Meeting	Online public meeting hosted by MSD to discuss odor control program. Slide 30 of the presentation included information to remove leaves and debris from catch basins and to put leaves and sticks in compost or yard waste.
January 20, 2022	Virtual MSD "Can You Dig It?" Event	Virtual event to inform contractors about upcoming capital construction projects and other contract opportunities with MSD.
May 11, 2022	MSD Field Day	MSD conducted the Annual Field Day event with presentations about green infrastructure, current projects, and outreach opportunities.
May 25, 2022	Smart Fence Presentation	Manufacturer of EPSC product demonstration to MSD and local contractors.
June 9, 2022	Greater Louisville Homes Floodplain Presentation	Presented floodplain information, including regulations, flood insurance, permitting requirements, and available resources to realtors.
May 16-July 25, 2022	UofL Cornerstone Course	Launched MSD-specific course where students design, build, and optimize a physical model of a combined system, including wet-weather storage and treatment

6.2.1. RADIO AND TV ACTIVITIES

FY22 Reporting Period

- Coordinated with Metro TV to air broadcasts of public input meetings listed in Table 6.1. More information about public information meetings can be found in 6.3.1. IOAP Project and Program Meetings.
- Continued to utilize various media outlets, including TV, radio and the newspaper, to serve as a conduit for disseminating information to the public.

FY23 Reporting Period

- Continue to utilize radio and TV to serve as a conduit for disseminating information to the public.
- Continue coordination with Metro TV to show IOAP project public input meetings and special interest material.

6.2.2. PRINTED MEDIA ACTIVITIES

FY22 Reporting Period

- Purchased public service advertising messages in the Courier Journal, Business First, Oldham Era, and Pioneer News, reaching an estimated 959,600 for 2ACD messaging.
- Provided printed copies of the StreamLine to 700 customers and staff quarterly. 2ACD-related articles are contained in each issue of this newsletter.
- Augmented print ads with a digital campaign, reaching more than 240,000. The digital online campaign continued to increase awareness of the Waterway Protection Tunnel project, sewer overflows and What Not To Flush.
- Continued to distribute 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.

FY23 Reporting Period

- Continue to utilize printed media to serve as a conduit for disseminating information to the public.
- Continue to send the MSD Streamline to customers and staff each month.

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, Twitter and Instagram.

FY22 Reporting Period

- 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. Released posts on topics including environmental awareness, outreach programs, events, health and safety, and public meetings, receiving over 150,000 impressions. Public outreach campaigns supported included World Environment Day, World Oceans Day, World Water Day, World Toilet Day, National Rivers Month, and Earth Day.
 - Posted the Streamline to Twitter and Facebook accounts, and online.
 - Posted the Waterfront and Beargrass Creek Walking & Paddling Guide online at louisvillemsd.org/programs/education and louisvillemsd.org/at-home.
 - Continued to provide information on MSD's green infrastructure incentive programs, Louisville's tree canopy, sewer overflow prevention, pollution prevention and other topics.
 - Posted videos illustrating wastewater treatment, stormwater/drainage, and flood protection online at louisvillemsd.org/what-we-do.
 - Released 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.
 - Rebuilt 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.
 - Rebuilt the Careers web-page (louisvillemsd.org/careers) to add information about MSD's role in the community and potential employment opportunities.

FY23 Reporting Period

- Continue to post Project WIN information on the website.
- Continue to provide information through social media platforms.

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.

Due to COVID-19 restrictions, outreach programs were limited during the reporting period.

FY22 Reporting Period

- 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.
- Presented, attended, and / or facilitated student outreach as detailed in Table 6.5.
- Conducted the Annual Field Day event to present on green infrastructure, current projects, and outreach opportunities.

Table 6.3. Green Infrastructure Workshops & Activities

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
September 9, 2021	California Dreamin' Maple Street Greenspace Project	Shared information, activities, and giveaways at a neighborhood event. Provided live demonstrations with help from a vacator truck and CCTV crew to ignite interest in careers and better educate about safe, clean waterways.
September 24, 2021	Portland Basin Rain Garden Rehab	MSD staff volunteered to replant an MSD owned rain garden.
January 27, 2022	Westwood Garden Club Virtual Presentation	Presentation to Westwood Garden Club about the Urban Reforestation Program and discussion of the application process.
March 1, 2022	Rain Garden Workshop – Rambler Garden Club	Rain garden presentation to the Rambler Garden Club. Presentation included information about how you can improve water quality, including how to build a rain garden at your home. Margaret Shea with Dropseed Nursery also spoke about native plants that would do well in a rain garden.
April 9, 2022	Southend Beautification Campaign Tree Planting	Tree planting event sponsored by Louisville Grows and Metro Council Districts 21 & 25. Tree were donated through the MSD tree grant program.
May 11, 2022	MSD Field Day	MSD conducted the Annual Field Day event with presentations about green infrastructure, current projects, and outreach opportunities.

Table 6.4. Clean Stream Workshops & Activities

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
March 26, 2022	Metro Council District 21 Stream Cleanup	Guardian Creek cleanup along Wilderness Park.
April 26, 2022	Mill Creek Trash Cleanup and Community Event	Trash cleanup around the Southwest Regional Library on Dixie Highway.

6.3.1. IOAP PROJECT AND PROGRAM MEETINGS

6.3.1.1. WET WEATHER TEAM

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

FY22 Reporting Period

- Wet Weather Team meetings were held on December 16, 2021 and April 21, 2022.

FY23 Reporting Period

- Schedule Wet Weather Team meetings as needed.

6.3.1.2. STRUCTURED PUBLIC INVOLVEMENT MEETINGS

MSD has developed a partnership with Louisville Metro for providing project information and soliciting feedback from stakeholders using a Structured Public Involvement approach. Structured Public Involvement is meant to facilitate relevant input on the design process as illustrated in Figure 6.1. The current IOAP outreach activ-

Table 6.5. Outreach Activities for Students

DATE(S)	EVENT	BENEFIT / RELEVANCE / IMPACT
March 3, 2022	Liberty High School Field Trip to Floyds Fork WQTC	MSD hosted a small group of High School students to the Floyds Fork Water Quality Treatment Center for a tour of the plant and a stream sampling activity.
March 15, 2022	Salamander Spring	Presented by the Parklands of Floyds Fork with Director of Education & Programming Curtis Carman.
May 9, 2022	Ripple Effects Photo Workshop	2nd annual Ripple Effects Photo Contest – open to students from kindergarten through high school. Youth are asked to take photographs reflecting how water impacts them – from precipitation in their daily lives to their connection with local waterways. In support of the contest, Waterfront Park hosted a free workshop that included an Enviroscape demonstration.
June 7, 16, and 29, 2022	LFPL Summer Reading Program - Mandy the Salamander	MSD staff shared a brief video with young children about Mandy the Salamander before reading the Mandy children's book. Activities were provided to the children that included coloring and puzzles.
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.

ities and public meetings are using this process to elicit qualitative and quantitative information and enhance engagement with customers. Additional information regarding the Structured Public Involvement Process and meetings held during this reporting period may be found at the Project WIN Public Input Website, available at msdprojectwin.org/public-input.

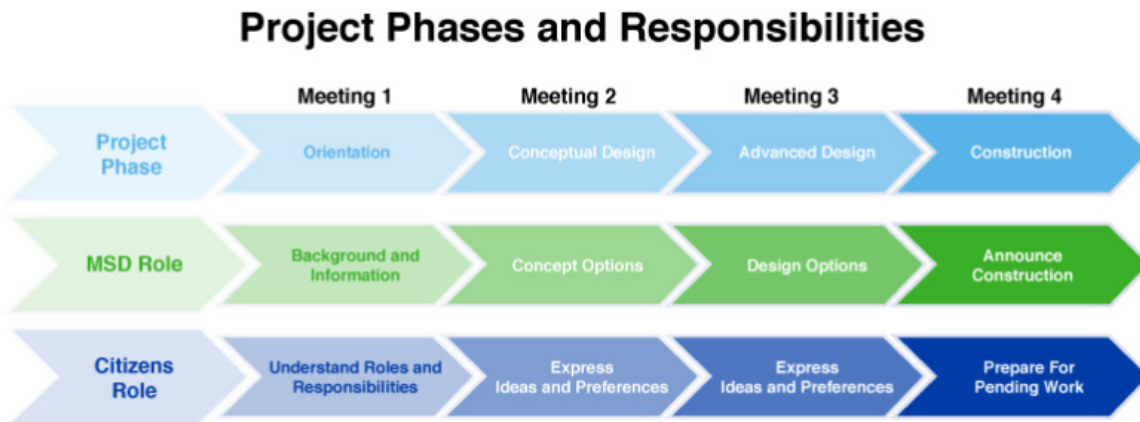
FY22 Reporting Period

- MSD held no Structured Public Involvement meetings during the current reporting period.

FY23 Reporting Period

- Schedule Structured Public Involvement meetings as needed.

Figure 6.1. MSD’s Structured Public Involvement Meeting Process



SECTION 7: PROGRAM ACTIVITIES FOR ASSET MANAGEMENT

Per Paragraph 40 of the 2ACD, MSD was required to submit an Asset Management (AM) Plan to KEEC/EPA for review and joint approval by June 30, 2021. The Strategic Asset Management Plan was submitted on June 30, 2021 and is currently under review by KEEC/EPA. The unapproved document 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.

Per Paragraph 40.d., KEEC, EPA 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 SAMP will be reviewed annually, and any significant changes to the SAMP submitted on June 30, 2021 will be documented in subsequent 2ACD Annual Reports and the updated document will be posted on MSD's 2ACD website, msdprojectwin.org.

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. MORRIS FORMAN WQTC TAMP

FY22 Reporting Period

- Completed TAMP development October 21, 2021. TAMP includes facility overview; definitions of levels of service and performance measures to be developed; documentation of asset classes and hierarchy; documentation of critical processes/subprocesses and risk register; documentation of condition assessment methods; and documentation of renewal/replacement justification.
- Implemented asset hierarchy updates.
- Completed physical asset inventory, labeling and condition assessment March 2022 and imported to IPS development environment for refinement.

FY23 Reporting period

- Finalize asset inventory refinement and move to IPS production.
- Continue development of buried asset registry.
- Document asset class plans and structured maintenance job plans for review.
- Begin development of dashboards in Power BI to monitor asset inventory compliance, work documentation compliance, and levels of service/performance measure attainment.

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

FY22 Reporting Period

- Completed TAMP development March 24, 2022. TAMP includes system overview; definitions of levels of service and performance measures to be developed; documentation of asset classes and hierarchy; documentation of critical processes/subprocesses and risk register; documentation of condition assessment methods; and documentation of renewal/replacement justification.
- Implemented asset hierarchy updates.

FY23 Reporting Period

- Complete physical asset inventory, labeling and condition and import to IPS.
- Begin development of dashboards in Power BI to monitor asset inventory compliance, work documentation compliance, and levels of service/performance measure attainment.

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 costs to be counted 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 M 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 completion dates in a prior reporting period that exclude their inclusion from Figure 7.1. Cumulative tracking of asset management spending after June 30, 2020 is shown in Table 7.1.

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

FISCAL YEAR	ACTUAL EXPENDITURES
FY21	\$21,130,281
FY22	\$35,960,568
Grand Total	\$57,090,848

When reviewing the look-ahead for future asset management needs, the Admiral Way Force Main Diversion Project will be critical for SSO reductions and system Asset Management commitments. This budgeted solution will help mitigate capacity issues in the Fishpool Interceptor and address existing overflows at manholes 93703 and 93705 to a 2-year level of control. This project has also been reported in Appendix H as the Asset Management Program solution for resolving SSOs at these locations. The project is currently in design with spending to be reflected in the next reporting period's Asset Management costs.

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

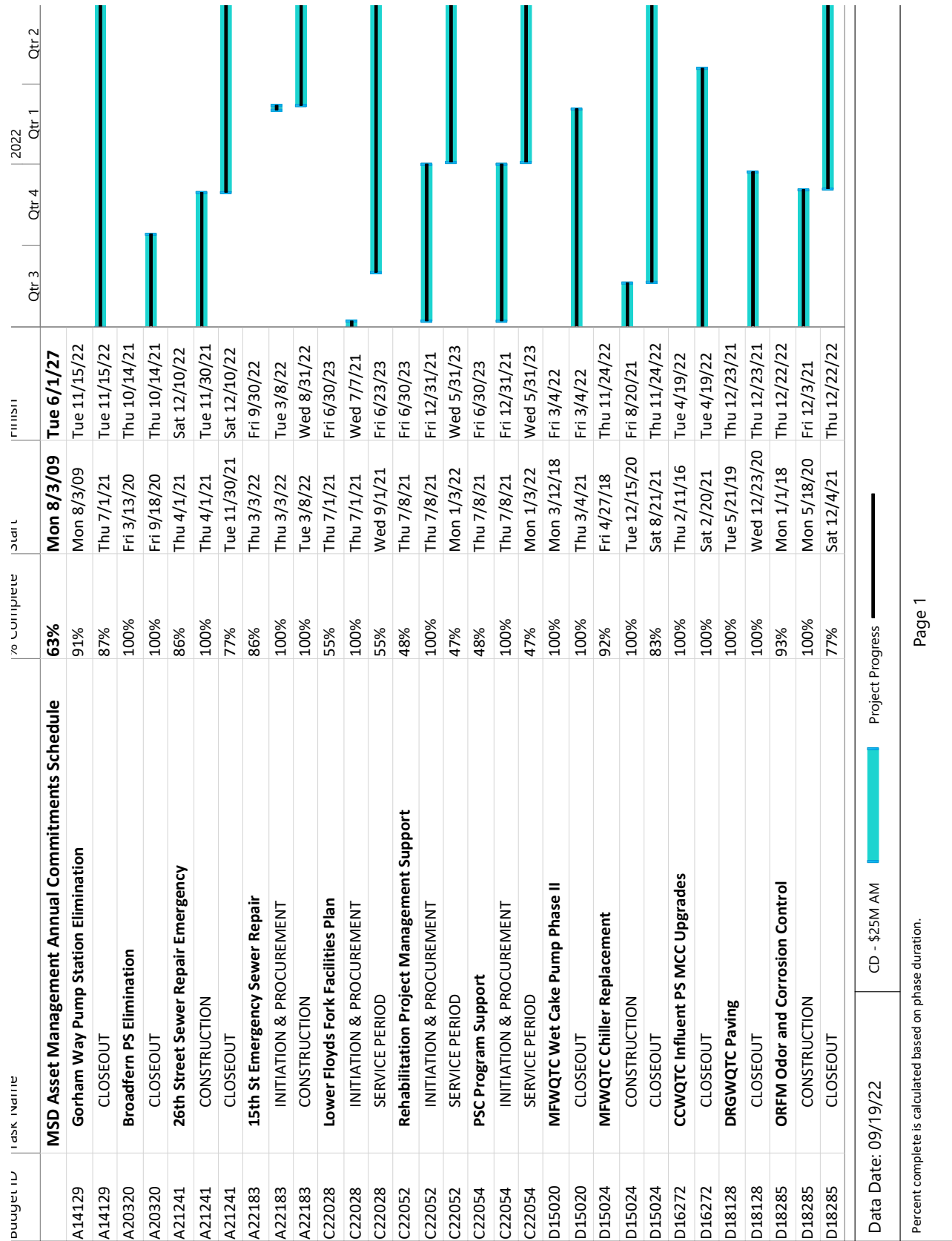


Figure 7.1. Asset Management Schedule

Budget ID	Task Name	% Complete	Start	Finish	2022			
					Qtr 3	Qtr 4	Qtr 1	Qtr 2
D18292	DRGWQTC Clarifier Grout Repair and RAS Gate Replacement	87%	Wed 1/31/18	Sun 4/16/23				
D18292	CONSTRUCTION	100%	Mon 12/9/19	Fri 4/1/22				
D18292	CLOSEOUT	44%	Sat 4/2/22	Sun 4/16/23				
D18453	FY21 MFWQTC Equipment RR	100%	Wed 7/1/20	Thu 12/30/21				
D18453	INITIATION & PROCUREMENT	100%	Wed 7/1/20	Thu 12/30/21				
D18453	CLOSEOUT	100%	Thu 12/16/21	Thu 12/30/21				
D18454	FY22 MFWQTC Equipment RR	100%	Thu 7/1/21	Thu 6/30/22				
D18454	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Tue 9/28/21				
D18454	SERVICE PERIOD	100%	Wed 9/29/21	Tue 5/31/22				
D18454	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
D18473	FY22 MFWQTC Other Facilities Repairs	100%	Thu 7/1/21	Thu 6/30/22				
D18473	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Tue 9/28/21				
D18473	SERVICE PERIOD	100%	Wed 9/29/21	Tue 5/31/22				
D18473	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
D18489	Fairmount Road Pump Station Force Main Extension - Ph 1	72%	Thu 8/15/19	Sat 7/15/23				
D18489	CONSTRUCTION	100%	Tue 7/6/21	Sat 5/28/22				
D18489	CLOSEOUT	26%	Sat 5/28/22	Sat 7/15/23				
D19039	CCWQTC Effluent Parshall Flume Upgrade	92%	Tue 6/4/19	Wed 11/30/22				
D19039	CONSTRUCTION	100%	Tue 2/23/21	Tue 11/30/21				
D19039	CLOSEOUT	82%	Tue 11/30/21	Wed 11/30/22				
D19275	MDS Downstream Flow Meter	100%	Tue 1/1/19	Sat 9/4/21				
D19275	CLOSEOUT	100%	Fri 9/4/20	Sat 9/4/21				
D19286	SWPS Gas Monitoring and SP1 Odor Control	38%	Wed 5/15/19	Mon 8/5/24				
D19286	DESIGN	100%	Sun 4/11/21	Mon 4/25/22				
D19286	CONSTRUCTION	18%	Mon 6/27/22	Thu 6/22/23				
D20012	SGC RTC Enhancements	34%	Tue 11/19/19	Thu 5/7/26				
D20012	DESIGN	60%	Tue 2/18/20	Sat 10/14/23				
D20016	DRGWQTC Admin and RAS Buildings HVAC	100%	Fri 5/3/19	Mon 6/20/22				
D20016	CLOSEOUT	100%	Wed 4/21/21	Mon 6/20/22				
D20017	CCWQTC Sodium Aluminate Building	100%	Tue 6/4/19	Thu 7/28/22				
D20017	CONSTRUCTION	100%	Mon 1/4/21	Wed 7/28/21				
D20017	CLOSEOUT	100%	Wed 7/28/21	Thu 7/28/22				

Data Date: 09/19/22 CD - \$25M AM Project Progress

Percent complete is calculated based on phase duration.

Figure 7.1. Asset Mangement Schedule

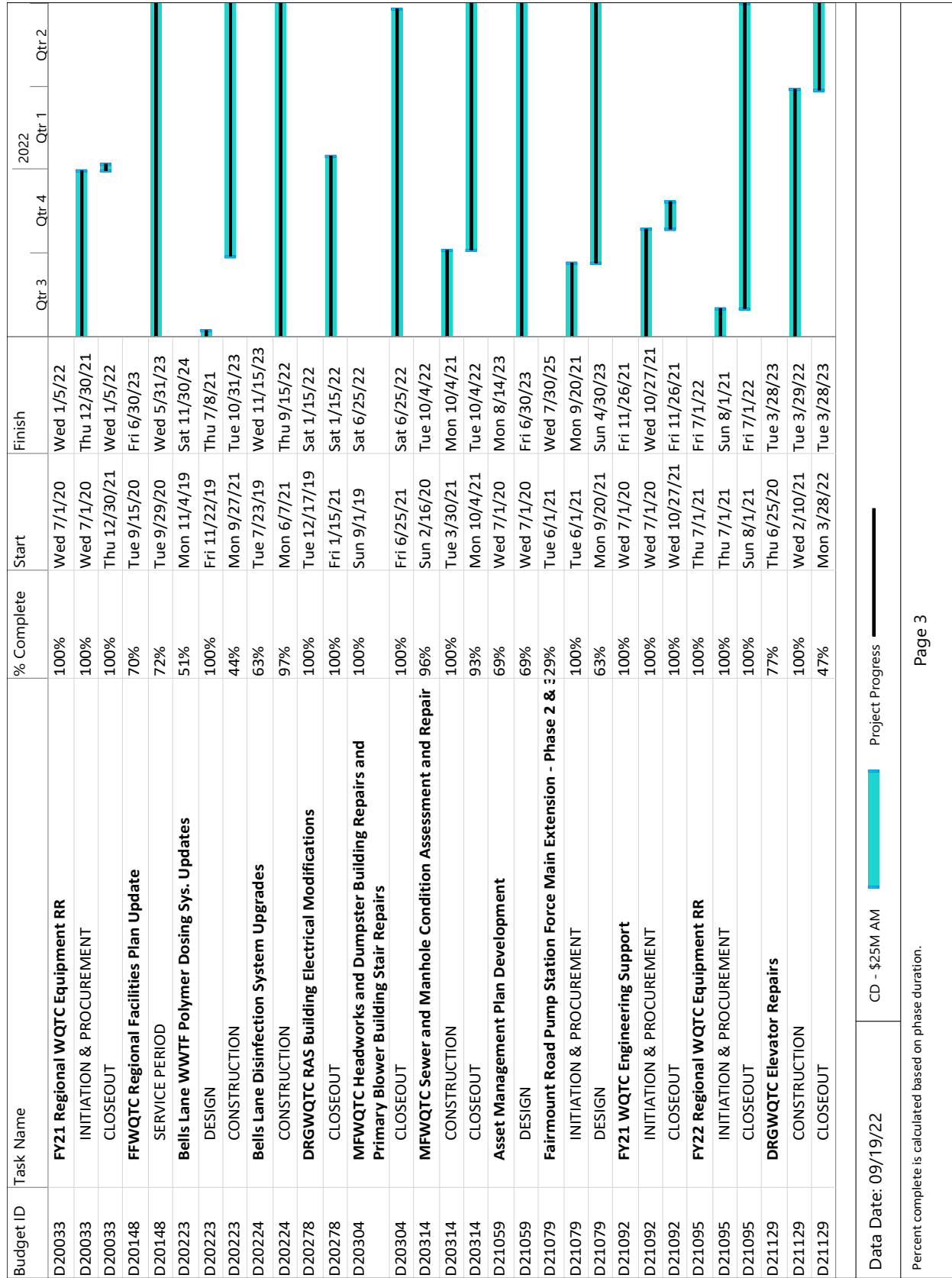


Figure 7.1. Asset Management Schedule

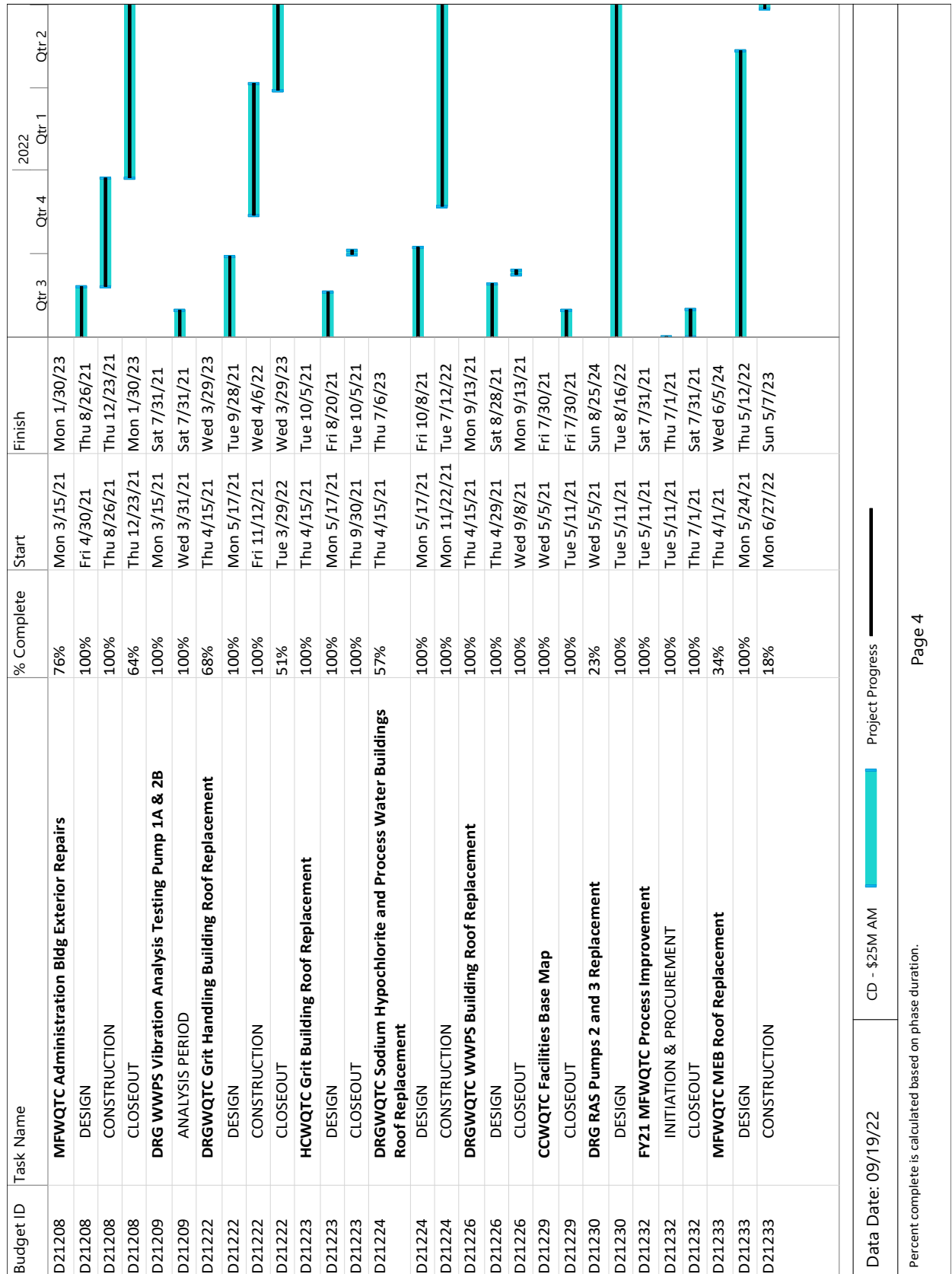


Figure 7.1. Asset Mangement Schedule

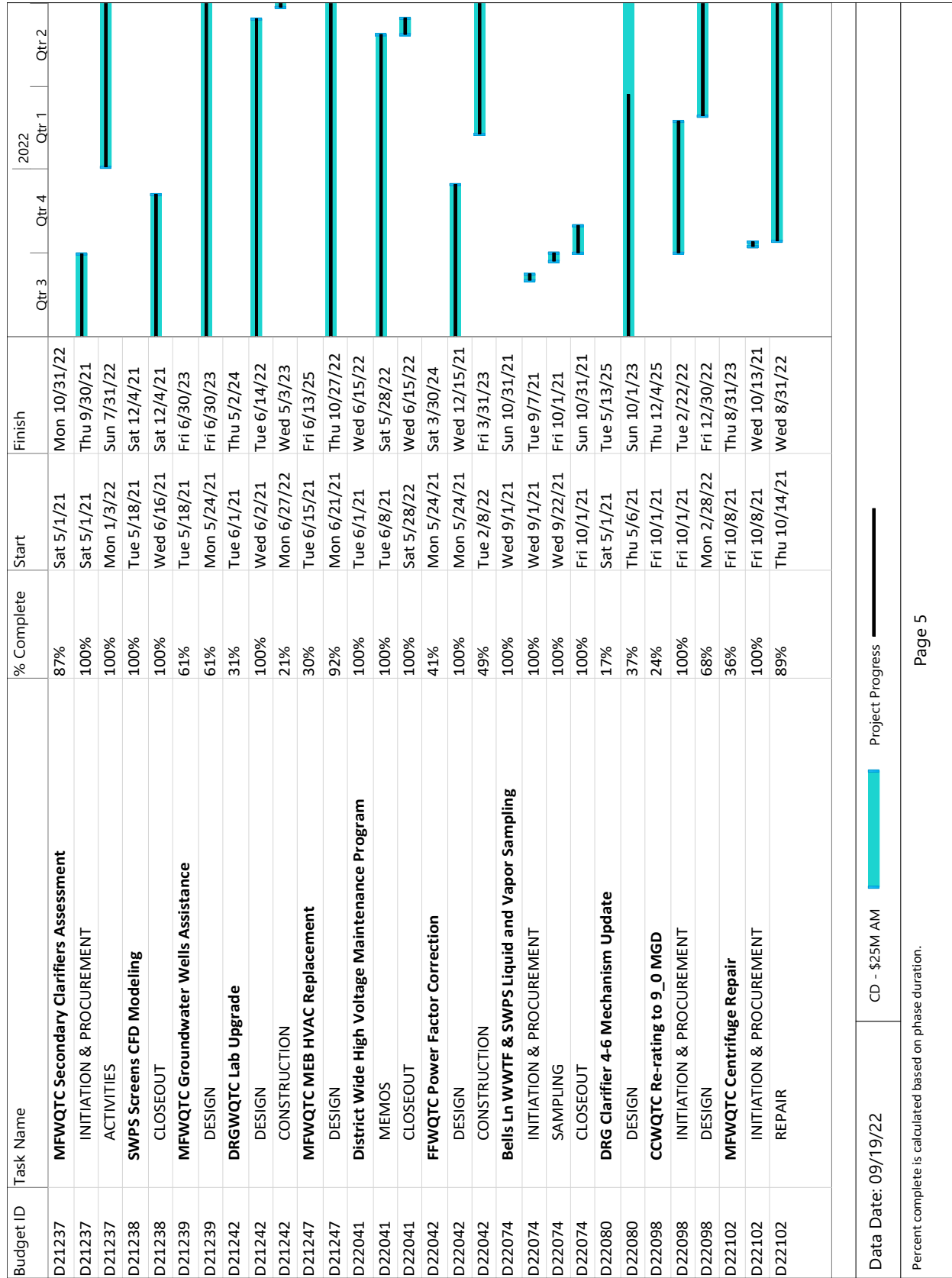


Figure 7.1. Asset Management Schedule

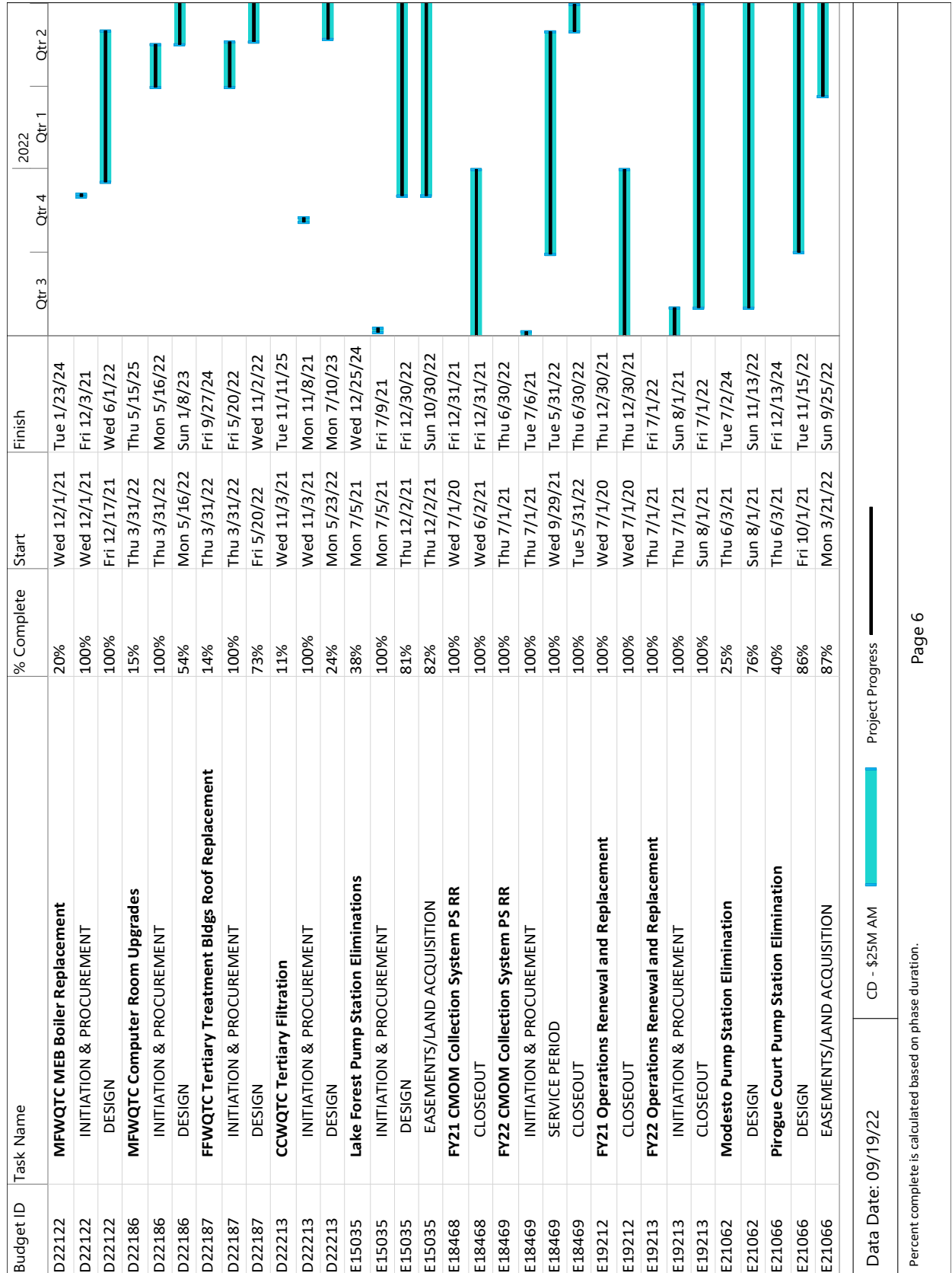


Figure 7.1. Asset Mangement Schedule

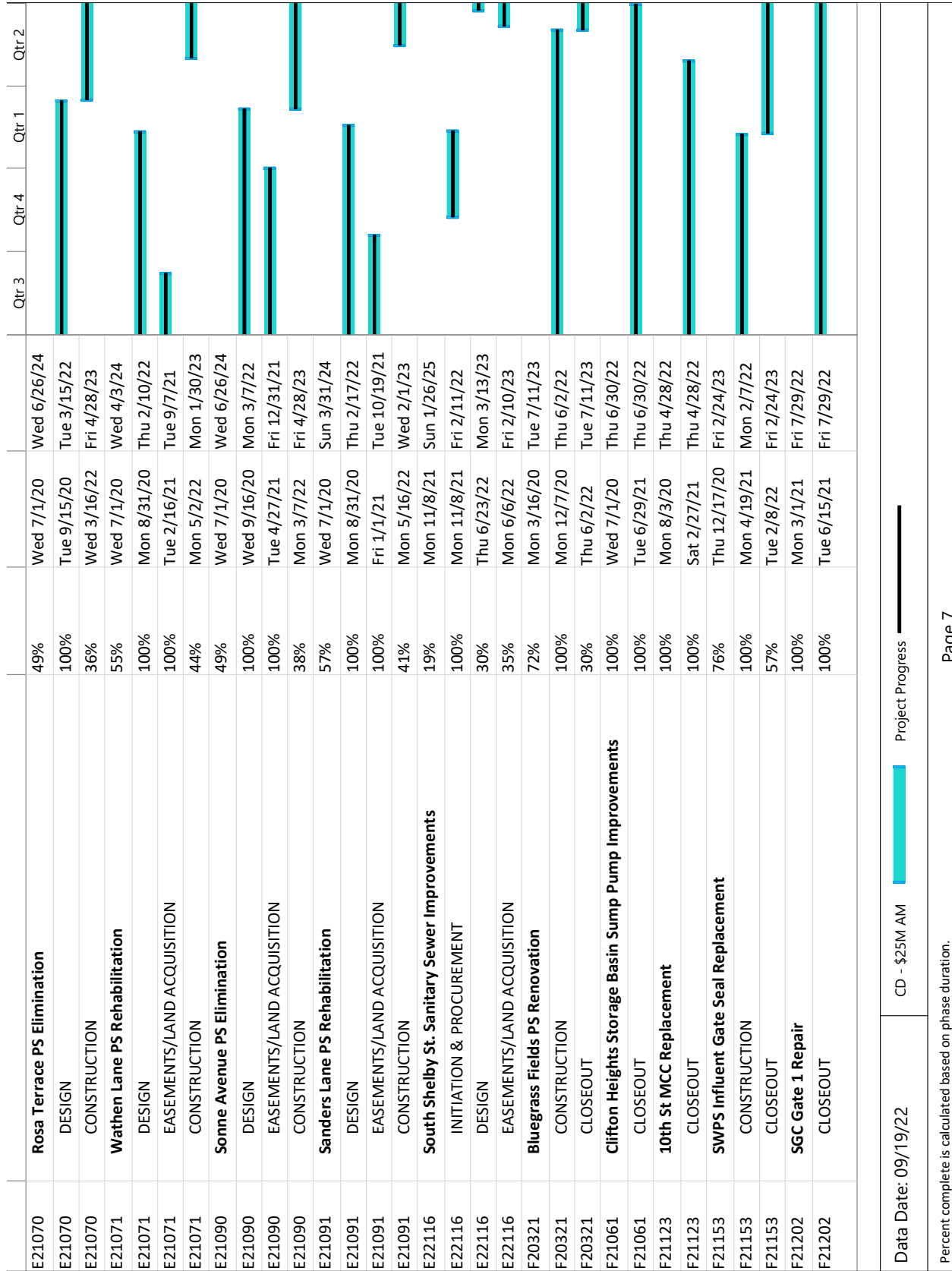




Figure 7.1. Asset Management Schedule

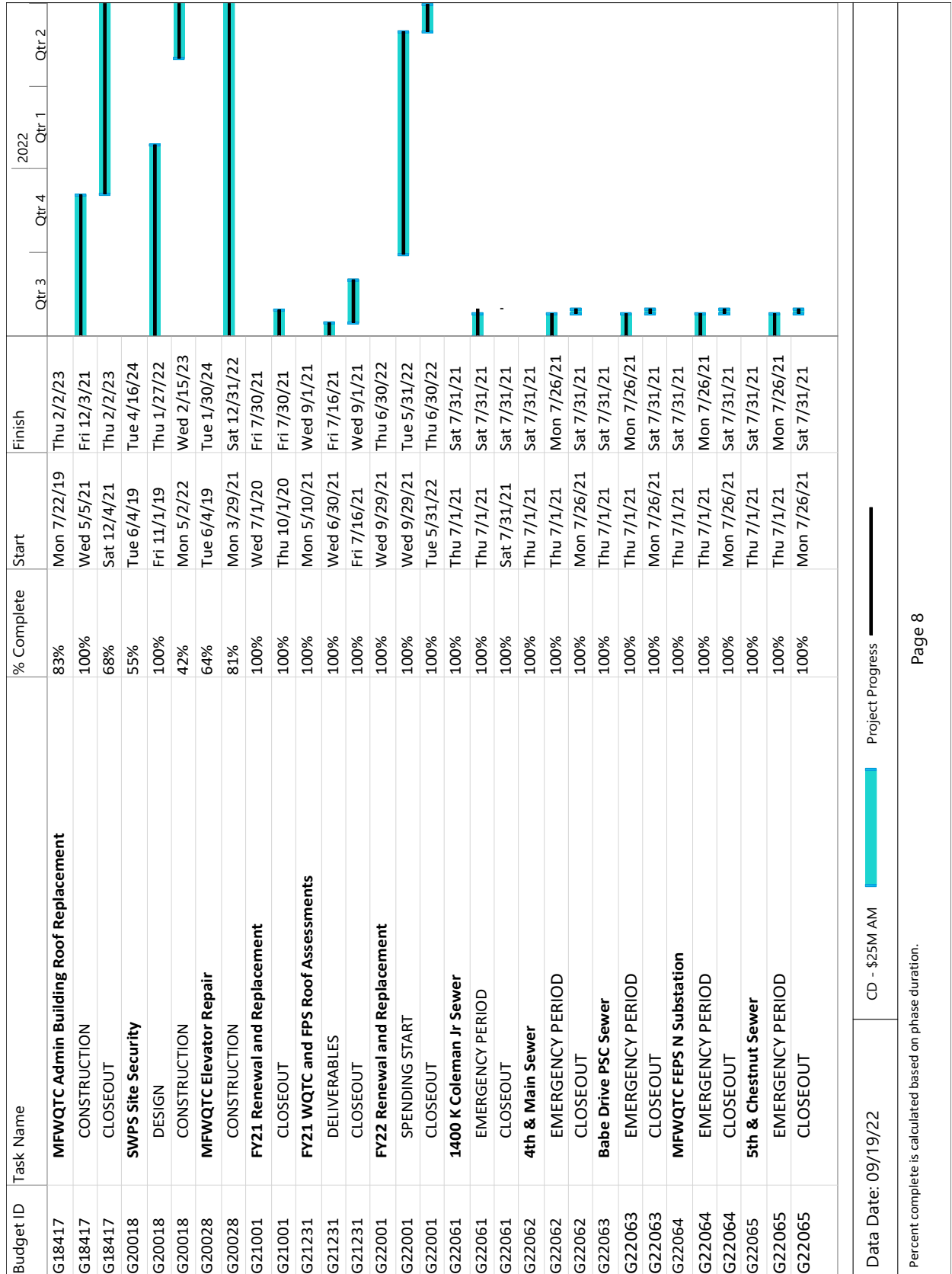


Figure 7.1. Asset Mangement Schedule

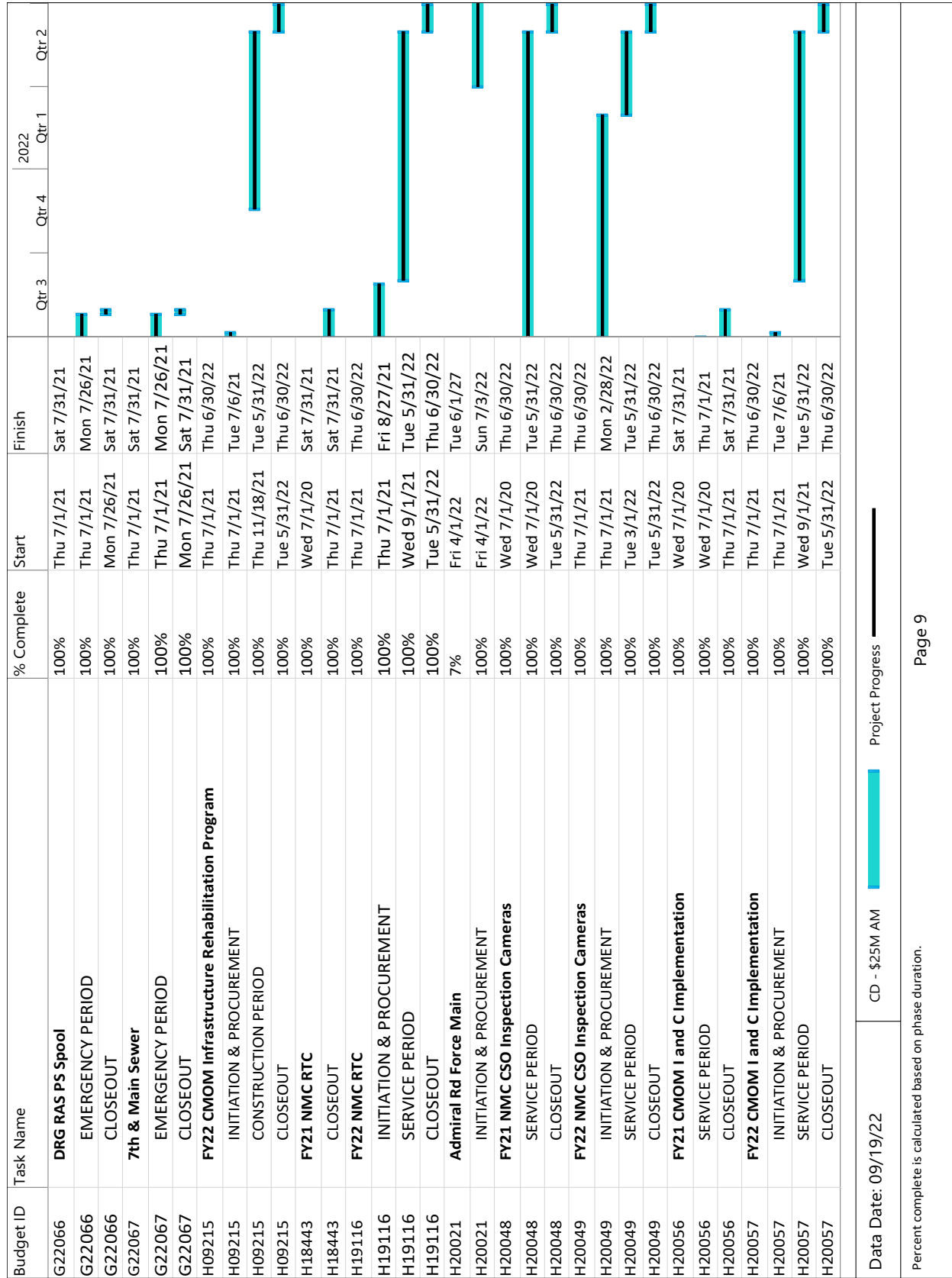




Figure 7.1. Asset Mangement Schedule

Budget ID	Task Name	% Complete	Start	Finish	2022			
					Qtr 3	Qtr 4	Qtr 1	Qtr 2
H20063	FY22 CMOM Gravity Line Cleaning and Inspection	100%	Thu 7/1/21	Thu 6/30/22				
H20063	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Tue 7/6/21				
H20063	SERVICE PERIOD	100%	Wed 9/29/21	Tue 5/31/22				
H20063	CLOSEOUT	100%	Tue 5/31/22	Thu 6/30/22				
H20153	SWPS Flood Repair	100%	Tue 6/4/19	Mon 11/1/21				
H20153	CLOSEOUT	100%	Wed 9/2/20	Mon 11/1/21				
H22009	FY22 WQTC Engineering Support	100%	Thu 7/1/21	Thu 6/30/22				
H22009	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Tue 7/6/21				
H22009	SERVICE PERIOD	100%	Wed 9/29/21	Thu 6/30/22				
H22009	CLOSEOUT	100%	Thu 6/30/22	Thu 6/30/22				
H22014	MFWQTC Groundwater Dewatering Sys. Automation	27%	Thu 6/3/21	Thu 8/29/24				
H22014	DESIGN	85%	Tue 12/28/21	Tue 11/1/22				
H22017	Regional Biosolids Management Study	72%	Thu 7/1/21	Mon 2/27/23				
H22017	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Wed 11/3/21				
H22017	DESIGN	76%	Wed 12/15/21	Mon 1/16/23				
H22018	CCWQTC Sludge Storage Tank Improvements	26%	Thu 7/1/21	Tue 1/14/25				
H22018	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Wed 7/7/21				
H22018	DESIGN	100%	Wed 9/1/21	Tue 7/19/22				
H22019	DRGWQTC Substation Unit 3 and 4 Elimination	100%	Thu 7/1/21	Thu 12/30/21				
H22019	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Wed 7/7/21				
H22019	DESIGN	100%	Thu 10/7/21	Thu 12/30/21				
H22022	SGC Gate Replacements	34%	Thu 7/1/21	Sat 9/14/24				
H22022	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Wed 7/7/21				
H22022	CONSTRUCTION	52%	Thu 7/8/21	Fri 9/15/23				
H22032	DRGWQTC Sodium Bisulfite Bldg Improvements	21%	Thu 7/1/21	Thu 11/28/24				
H22032	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Wed 7/7/21				
H22032	DESIGN	66%	Mon 2/7/22	Sun 2/12/23				
H22034	CC FF HC Sodium Aluminate Automation	33%	Thu 7/1/21	Sun 12/29/24				
H22034	INITIATION & PROCUREMENT	100%	Thu 7/1/21	Wed 7/7/21				
H22034	DESIGN	38%	Tue 11/2/21	Sun 10/22/23				

Data Date: 09/19/22

CD - \$25M AM

Project Progress

Data Date: 09/19/22

CD - \$25M AM

Project Progress

Percent complete is calculated based on phase duration.

Figure 7.1. Asset Mangement Schedule

Budget ID	Task Name	% Complete	Start	Finish	2022			
					Qtr 3	Qtr 4	Qtr 1	Qtr 2
H22038	Sneads Branch Pump Replacement	28%	Tue 9/7/21	Tue 10/15/24				
H22038	INITIATION & PROCUREMENT	100%	Tue 9/7/21	Tue 11/16/21				
H22038	DESIGN	100%	Wed 11/17/21	Tue 7/26/22				
H22086	Floyds Fork & Ohio River Condition Assessment	53%	Wed 9/1/21	Fri 6/30/23				
H22086	INITIATION & PROCUREMENT	100%	Wed 9/1/21	Tue 9/7/21				
H22086	ASSESSMENT PERIOD	55%	Fri 10/1/21	Wed 5/31/23				

Data Date: 09/19/22	CD - \$25M AM	Project Progress
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Percent complete is calculated based on phase duration.



APPENDIX A

AUTHORIZED DISCHARGES - WET WEATHER CSOs

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**SECOND AMENDED CONSENT DECREE
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CSO015	07/01/2021 11:00	07/01/2021 17:45	405	1.98	41,780,922	1.51	3	Atlas		82,726,225	1
	08/30/2021 13:30	08/30/2021 14:45	75	0.58	3,255,786	0.31	1	Atlas		1,878,589	1
	09/20/2021 06:00	09/20/2021 08:00	120	2.10	1,659,968	0.81	24	Atlas		3,485,933	1
	10/03/2021 10:00	10/03/2021 11:00	60	1.13	6,357,429	0.76	1	Atlas		7,209,324	1
	01/01/2022 07:45	01/01/2022 21:00	795	2.27	18,384,427	0.85	24	Atlas		41,806,188	1
	02/03/2022 10:00	02/22/2022 10:30	27390	2.25	121,904,614	0.73	48	Atlas		274,163,477	1
	02/23/2022 01:00	02/23/2022 01:15	15	0.00	5,869,215,647	0.00	1	Atlas		5,869,216	1
	02/24/2022 18:15	02/25/2022 01:30	435	1.17	6,869,002	0.54	12	Atlas		8,029,863	1
	03/07/2022 06:30	03/28/2022 23:00	31230	1.34	43,422,388	0.74	3	Atlas		58,055,733	1
	04/06/2022 12:15	04/06/2022 16:45	270	0.98	10,010,899	0.49	6	Atlas		9,780,648	1
	04/13/2022 19:45	04/14/2022 04:15	510	1.42	35,391,493	0.59	1	Atlas		50,149,745	1
	04/25/2022 12:15	04/25/2022 12:45	30	0.14	1,460,846	0.12	1	Atlas		208,901	1
CSO015 Total										543,363,841	12
CSO016	07/01/2021 11:15	07/01/2021 19:45	510	2.08	4,527,682	1.74	3	Atlas		9,426,634	1
	07/08/2021 19:45	07/08/2021 21:15	90	0.30	376,846	0.26	1	Atlas		112,241	1
	07/10/2021 09:30	07/10/2021 10:00	30	0.27	17,133	0.22	1	Atlas		4,643	1
	07/10/2021 19:15	07/11/2021 07:45	750	1.57	4,920,990	0.75	6	Atlas		7,730,875	1
	07/12/2021 09:00	07/12/2021 17:15	495	1.35	5,246,001	0.56	12	Atlas		7,087,347	1
	07/16/2021 22:30	07/17/2021 09:00	630	1.43	5,767,767	0.73	6	Atlas		8,270,978	1
	08/09/2021 11:15	08/09/2021 13:00	105	0.45	775,628	0.31	1	Atlas		349,033	1
	08/26/2021 19:45	08/26/2021 23:30	225	0.01	336,633,141	0.01	1	Atlas		3,702,965	1
	08/27/2021 15:00	08/27/2021 18:30	210	0.08	45,783,476	0.06	1	Atlas		3,800,028	1
	08/30/2021 13:00	08/30/2021 21:45	525	0.63	14,025,567	0.36	1	Atlas		8,780,005	1
	09/05/2021 05:15	09/05/2021 18:45	810	1.01	14,130,543	0.46	12	Atlas		14,271,848	1
	09/19/2021 15:30	09/19/2021 19:30	240	2.21	932,755	0.85	24	Atlas		2,058,590	1



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	09/20/2021 04:30	09/20/2021 19:30	900	2.21	7,203,280	0.85	24	Atlas		15,897,638	1
	09/22/2021 00:30	09/22/2021 21:15	1245	1.69	6,160,229	0.65	24	Atlas		10,435,428	1
	10/03/2021 09:45	10/03/2021 19:30	585	0.97	10,683,627	0.64	1	Atlas		10,331,067	1
	10/05/2021 20:45	10/06/2021 01:45	300	0.46	9,707,229	0.35	1	Atlas		4,455,618	1
	10/25/2021 05:30	10/25/2021 10:00	270	0.47	3,183,103	0.28	3	Atlas		1,511,974	1
	12/06/2021 07:15	12/06/2021 11:00	225	0.62	1,886,165	0.30	6	Atlas		1,165,650	1
	12/11/2021 01:30	12/11/2021 12:00	630	1.18	6,660,709	0.54	12	Atlas		7,859,637	1
	12/16/2021 17:00	12/16/2021 17:45	45	0.28	265,682	0.18	3	Atlas		73,328	1
	12/17/2021 18:15	12/18/2021 01:15	420	0.57	3,380,237	0.22	12	Atlas		1,916,594	1
	12/29/2021 00:15	12/29/2021 03:30	195	0.68	1,197,533	0.28	6	Atlas		809,532	1
	01/01/2022 05:45	01/02/2022 05:45	1440	2.19	12,334,331	0.82	24	Atlas		26,962,847	1
	01/09/2022 00:00	01/09/2022 12:45	765	1.52	5,500,547	0.66	12	Atlas		8,366,332	1
	02/03/2022 09:45	02/03/2022 15:15	330	2.24	1,187,534	0.72	48	Atlas		2,658,888	1
	02/17/2022 09:45	02/18/2022 01:30	945	2.07	7,690,620	0.92	12	Atlas		15,942,656	1
	02/22/2022 08:15	02/22/2022 15:00	405	1.37	6,041,318	0.65	6	Atlas		8,276,606	1
	02/24/2022 16:45	02/25/2022 05:15	750	1.17	8,446,679	0.54	12	Atlas		9,891,061	1
	03/07/2022 06:00	03/07/2022 11:15	315	1.36	4,985,565	0.73	3	Atlas		6,760,426	1
	03/19/2022 00:15	03/19/2022 00:45	30	0.18	13,068	0.15	1	Atlas		2,391	1
	04/06/2022 09:45	04/06/2022 19:00	555	0.92	8,241,001	0.46	6	Atlas		7,598,203	1
	04/13/2022 10:15	04/14/2022 02:45	990	1.41	3,327,744	0.59	1	Atlas		4,695,447	1
	05/03/2022 06:45	05/03/2022 08:00	75	0.66	99,033	0.30	12	Atlas		65,262	1
	05/18/2022 17:00	05/18/2022 18:45	105	0.29	1,731,601	0.23	1	Atlas		495,238	1
	05/25/2022 17:30	05/25/2022 20:45	195	0.27	2,354,605	0.20	1	Atlas		638,098	1
	05/26/2022 12:00	05/26/2022 13:30	90	0.63	183,047	0.24	12	Atlas		115,320	1
	05/26/2022 22:15	05/27/2022 01:00	165	0.63	947,186	0.24	12	Atlas		596,727	1

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	06/02/2022 01:15	06/02/2022 04:15	180	0.50	929,851	0.33	3	Atlas		461,206	1
	06/26/2022 20:15	06/27/2022 00:45	270	0.62	9,372,077	0.43	1	Atlas		5,782,571	1
CSO016 Total										219,360,932	39
CSO019	07/01/2021 07:00	07/29/2021 13:00	40680	1.32	2,683,421	0.68	3	Atlas		3,555,532	1
	08/09/2021 10:00	08/09/2021 13:30	210	0.32	34,090	0.21	3	Atlas		10,977	1
	08/17/2021 14:15	08/19/2021 07:30	2475	0.13	72,538	0.11	1	Atlas		9,430	1
	08/26/2021 19:15	09/27/2021 10:15	45540	0.89	2,434,470,095	0.65	1	Atlas		2,161,809,445	1
	10/03/2021 09:00	10/15/2021 19:15	17895	0.82	1,183,402	0.38	1	Atlas		966,839	1
	10/24/2021 07:00	10/25/2021 12:30	1770	0.55	149,287	0.40	1	Atlas		82,705	1
	12/10/2021 23:15	12/11/2021 18:45	1170	1.04	5,046,686	0.56	1	Atlas		5,243,507	1
	01/01/2022 13:15	01/02/2022 12:45	1410	1.96	1,077,387	0.73	24	Atlas		2,112,756	1
	01/08/2022 20:45	02/26/2022 00:00	69315	1.40	10,765,561	0.61	12	Atlas		15,039,489	1
	03/30/2022 22:30	04/11/2022 09:45	16515	0.23	465,946	0.13	3	Atlas		109,497	1
	04/11/2022 21:45	04/16/2022 03:00	6075	0.36	14,232,311	0.13	24	Atlas		5,152,097	1
	04/18/2022 04:15	04/25/2022 12:15	10560	0.33	185,946	0.18	6	Atlas		60,432	1
	05/03/2022 03:45	05/16/2022 02:15	18630	0.59	13,372,545	0.27	12	Atlas		7,916,547	1
	05/18/2022 14:45	05/23/2022 22:45	7680	0.29	298,368	0.24	1	Atlas		85,930	1
	05/25/2022 16:30	05/25/2022 22:30	360	0.39	89,152	0.33	1	Atlas		35,126	1
	05/26/2022 10:30	05/28/2022 05:30	2580	0.71	98,135	0.27	12	Atlas		69,381	1
	06/01/2022 23:45	06/03/2022 07:45	1920	0.57	59,711	0.36	3	Atlas		34,155	1
	06/06/2022 12:30	06/07/2022 07:30	1140	0.49	44,865	0.23	1	Atlas		22,119	1
CSO019 Total										2,202,315,964	18
CSO022	08/26/2021 20:15	08/26/2021 20:45	30	2.82	183,002	53.15	1	Atlas		516,798	1
	10/03/2021 10:30	10/03/2021 10:45	15	1.43	231,556	1.37	1	Atlas		332,051	1
	03/07/2022 05:45	03/07/2022 06:30	45	1.35	86,670	0.66	3	Atlas		116,657	1



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	04/13/2022 20:30	04/13/2022 21:00	30	1.21	249,967	0.47	24	Atlas		303,460	1
	05/14/2022 16:00	05/14/2022 17:00	60	0.60	3,350,825	0.44	1	Atlas		2,023,898	1
	05/26/2022 22:30	05/26/2022 22:45	15	0.89	352,328	0.35	1	Atlas		313,572	1
	06/26/2022 21:15	06/26/2022 21:45	30	0.77	1,040,286	0.51	3	Atlas		785,819	1
CSO022 Total										4,402,254	7
CSO023	08/26/2021 20:30	08/26/2021 20:45	15	2.82	234,109	53.15	1	Atlas		661,125	1
	09/20/2021 09:00	09/20/2021 09:15	15	2.07	9,283	0.80	24	Atlas		19,235	1
	02/17/2022 16:30	02/17/2022 16:45	15	1.95	54,922	0.87	12	Atlas		107,152	1
CSO023 Total										787,511	3
CSO027	08/26/2021 19:15	08/26/2021 19:30	15	2.80	598	60.19	1	Atlas		1,673	1
	10/03/2021 09:30	10/03/2021 10:00	30	1.56	3,250	1.87	1	Atlas		5,077	1
	06/26/2022 20:30	06/26/2022 20:45	15	0.99	547	0.70	1	Atlas		541	1
CSO027 Total										7,291	3
CSO028	08/26/2021 19:00	08/26/2021 20:00	60	2.80	414,999	60.19	1	Atlas		1,160,753	1
	08/27/2021 14:45	08/27/2021 15:00	15	0.56	8,207	0.46	1	Atlas		4,629	1
	10/03/2021 09:15	10/03/2021 10:00	45	1.56	260,105	1.87	1	Atlas		406,283	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.51	7,888	0.39	1	Atlas		3,999	1
	10/15/2021 08:15	10/15/2021 08:30	15	0.54	13,756	0.24	1	Atlas		7,470	1
	04/13/2022 19:30	04/13/2022 19:45	15	1.28	4,977	0.51	1	Atlas		6,391	1
	05/14/2022 15:00	05/14/2022 15:15	15	0.55	37,168	0.38	1	Atlas		20,480	1
	05/25/2022 16:45	05/25/2022 17:00	15	0.43	2,824	0.35	1	Atlas		1,228	1
	05/26/2022 21:30	05/26/2022 21:45	15	0.86	3,677	0.39	1	Atlas		3,147	1
	06/02/2022 00:00	06/02/2022 00:15	15	0.65	10,965	0.44	1	Atlas		7,073	1
	06/26/2022 20:15	06/26/2022 20:30	15	0.99	67,297	0.70	1	Atlas		66,624	1
CSO028 Total										1,888,078	11

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CSO029	08/26/2021 19:00	08/26/2021 19:45	45	2.80	401,910	60.19	1	Atlas		1,124,141	1
	08/27/2021 14:30	08/27/2021 15:00	30	0.56	11,319	0.46	1	Atlas		6,384	1
	10/03/2021 09:15	10/03/2021 10:00	45	1.56	144,255	1.87	1	Atlas		225,327	1
	10/05/2021 20:15	10/05/2021 20:30	15	0.51	531	0.39	1	Atlas		269	1
	04/13/2022 19:30	04/13/2022 19:45	15	1.28	18,940	0.51	1	Atlas		24,319	1
	05/14/2022 15:00	05/14/2022 15:15	15	0.55	6,678	0.38	1	Atlas		3,679	1
	06/26/2022 20:00	06/26/2022 20:30	30	0.99	52,834	0.70	1	Atlas		52,305	1
CSO029 Total										1,436,425	7
CSO031	08/26/2021 19:15	08/26/2021 20:00	45	2.80	437,370	60.19	1	Atlas		1,223,325	1
	08/27/2021 15:00	08/27/2021 15:15	15	0.56	84	0.46	1	Atlas		47	1
	04/13/2022 19:30	04/13/2022 19:45	15	1.28	90	0.51	1	Atlas		116	1
	05/06/2022 09:45	05/06/2022 23:30	825	0.21	31,810	0.08	24	Atlas		6,776	1
	06/14/2022 10:00	06/14/2022 08:15	1335	0.00	244,745	0.00	1	Atlas		489	1
CSO031 Total										1,230,753	5
CSO034	07/01/2021 12:00	07/01/2021 13:00	60	1.43	13,343	0.76	3	Atlas		19,121	1
	07/13/2021 09:30	07/13/2021 09:45	15	0.62	7,332	0.31	1	Atlas		4,524	1
	07/16/2021 21:45	07/16/2021 22:00	15	0.59	1,205	0.31	6	Atlas		710	1
	08/26/2021 19:00	08/26/2021 20:00	60	2.80	209,124	60.19	1	Atlas		584,919	1
	08/27/2021 14:30	08/27/2021 15:00	30	0.56	34,085	0.46	1	Atlas		19,224	1
	08/30/2021 12:30	08/30/2021 12:45	15	0.88	2,369	0.49	3	Atlas		2,075	1
	09/19/2021 15:00	09/19/2021 15:15	15	2.02	1,925	0.78	24	Atlas		3,894	1
	09/20/2021 05:30	09/20/2021 05:45	15	2.02	2,236	0.78	24	Atlas		4,524	1
	10/03/2021 09:15	10/03/2021 10:00	45	1.56	159,187	1.87	1	Atlas		248,649	1
	10/05/2021 20:15	10/05/2021 20:45	30	0.51	11,319	0.39	1	Atlas		5,739	1
	10/15/2021 08:15	10/15/2021 08:30	15	0.54	97,182	0.24	1	Atlas		52,770	1



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	03/07/2022 05:30	03/07/2022 06:00	30	1.18	3,078	0.68	3	Atlas		3,626	1
	04/13/2022 19:30	04/13/2022 20:00	30	1.28	65,078	0.51	1	Atlas		83,560	1
	05/14/2022 15:00	05/14/2022 15:15	15	0.55	68,835	0.38	1	Atlas		37,928	1
	05/25/2022 16:45	05/25/2022 17:00	15	0.43	14,797	0.35	1	Atlas		6,436	1
	05/26/2022 21:30	05/26/2022 21:45	15	0.86	14,018	0.39	1	Atlas		11,999	1
	06/02/2022 00:00	06/02/2022 00:15	15	0.65	146,334	0.44	1	Atlas		94,386	1
	06/26/2022 20:15	06/26/2022 20:30	15	0.99	105,598	0.70	1	Atlas		104,542	1
CSO034 Total										1,288,627	18
CSO035	07/01/2021 12:45	07/01/2021 13:00	15	1.30	1,839	0.71	3	Atlas		2,388	1
	08/26/2021 19:00	08/26/2021 20:00	60	2.55	640,792	36.96	1	Atlas		1,635,302	1
	09/19/2021 15:00	09/19/2021 15:15	15	2.02	4,950	0.78	24	Atlas		10,024	1
	09/20/2021 05:30	09/20/2021 05:45	15	2.02	1,875	0.78	24	Atlas		3,796	1
	10/03/2021 09:30	10/03/2021 10:00	30	1.40	678,263	1.22	1	Atlas		949,569	1
	04/13/2022 19:30	04/13/2022 20:00	30	1.29	39,087	0.54	1	Atlas		50,579	1
	05/14/2022 15:00	05/14/2022 15:15	15	0.40	10,204	0.26	3	Atlas		4,031	1
	05/25/2022 16:45	05/25/2022 17:00	15	0.37	3,238	0.31	1	Atlas		1,201	1
	05/26/2022 21:30	05/26/2022 21:45	15	0.77	6,355	0.30	1	Atlas		4,887	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.66	8,358	0.45	1	Atlas		5,483	1
	06/26/2022 20:15	06/26/2022 20:30	15	0.91	261,785	0.66	1	Atlas		238,748	1
CSO035 Total										2,906,007	11
CSO036	07/01/2021 12:15	07/01/2021 13:15	60	1.30	35,281	0.71	3	Atlas		45,830	1
	07/08/2021 18:45	07/08/2021 19:00	15	0.31	33,376	0.27	1	Atlas		10,246	1
	07/10/2021 23:00	07/10/2021 23:15	15	1.02	7,603	0.47	12	Atlas		7,755	1
	07/12/2021 09:45	07/12/2021 10:15	30	0.57	29,957	0.26	1	Atlas		16,986	1
	07/16/2021 22:00	07/16/2021 22:15	15	0.59	21,052	0.31	6	Atlas		12,316	1

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	08/26/2021 20:00	08/26/2021 20:15	15	2.55	3,213	36.96	1	Atlas		8,201	1
	08/27/2021 15:00	08/27/2021 15:15	15	0.32	72,871	0.25	1	Atlas		22,954	1
	09/19/2021 15:15	09/19/2021 15:30	15	2.02	7,040	0.78	24	Atlas		14,256	1
	09/20/2021 05:45	09/20/2021 08:00	135	2.02	11,235	0.78	24	Atlas		22,751	1
	10/03/2021 09:30	10/03/2021 09:45	15	1.40	19,525	1.22	1	Atlas		27,335	1
	10/05/2021 20:30	10/05/2021 21:00	30	0.54	43,370	0.42	1	Atlas		23,203	1
	12/11/2021 01:45	12/11/2021 02:00	15	0.93	3,420	0.43	12	Atlas		3,177	1
	03/07/2022 05:45	03/07/2022 06:15	30	1.16	19,647	0.67	3	Atlas		22,731	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.29	59,620	0.54	1	Atlas		77,149	1
	05/25/2022 17:00	05/25/2022 17:15	15	0.37	55,600	0.31	1	Atlas		20,628	1
	05/26/2022 21:45	05/26/2022 22:00	15	0.77	41,793	0.30	1	Atlas		32,139	1
	06/02/2022 00:15	06/02/2022 00:45	30	0.66	64,603	0.45	1	Atlas		42,380	1
	06/26/2022 20:30	06/26/2022 20:45	15	0.91	30,181	0.66	1	Atlas		27,525	1
CSO036 Total										437,560	18
CSO050	07/01/2021 07:30	07/01/2021 14:45	435	1.22	885,838	0.63	3	Atlas		1,079,837	1
	07/08/2021 18:30	07/08/2021 19:15	45	0.70	617,341	0.60	1	Atlas		430,286	1
	07/10/2021 08:00	07/10/2021 08:30	30	0.26	555,454	0.22	1	Atlas		143,863	1
	07/10/2021 18:45	07/11/2021 04:00	555	1.27	477,850	0.58	12	Atlas		609,258	1
	07/12/2021 09:15	07/12/2021 18:45	570	0.91	671,236	0.49	1	Atlas		611,496	1
	07/13/2021 16:00	07/13/2021 16:15	15	0.05	358,067	0.03	3	Atlas		16,829	1
	07/16/2021 22:00	07/17/2021 03:30	330	0.98	335,932	0.50	6	Atlas		329,885	1
	08/09/2021 10:00	08/09/2021 10:45	45	0.35	312,098	0.23	1	Atlas		110,171	1
	08/19/2021 04:45	08/19/2021 05:00	15	0.27	156,393	0.16	1	Atlas		42,226	1
	08/25/2021 13:15	08/25/2021 15:15	120	0.30	372,339	0.18	3	Atlas		112,819	1
	08/26/2021 19:15	08/26/2021 21:30	135	2.31	849,726	18.05	1	Atlas		1,967,116	1



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	08/27/2021 14:45	08/27/2021 16:00	75	1.04	656,685	0.88	1	Atlas		684,922	1
	08/30/2021 11:45	08/30/2021 19:00	435	0.70	1,044,716	0.36	3	Atlas		733,391	1
	08/31/2021 14:15	08/31/2021 15:30	75	0.35	4,765	0.16	12	Atlas		1,663	1
	09/05/2021 03:00	09/05/2021 11:45	525	1.05	793,602	0.47	12	Atlas		833,282	1
	09/08/2021 04:15	09/08/2021 04:30	15	0.10	6,625	0.06	3	Atlas		663	1
	09/19/2021 15:00	09/19/2021 16:30	90	2.24	197,719	0.86	24	Atlas		442,100	1
	09/20/2021 03:30	09/20/2021 12:00	510	2.24	831,633	0.86	24	Atlas		1,859,532	1
	09/21/2021 21:30	09/22/2021 16:45	1155	1.46	279,429	0.56	24	Atlas		408,804	1
	10/03/2021 09:30	10/03/2021 11:45	135	1.33	981,212	0.95	1	Atlas		1,302,069	1
	10/05/2021 20:15	10/05/2021 21:30	75	0.51	578,096	0.38	1	Atlas		294,251	1
	10/06/2021 16:15	10/06/2021 17:00	45	0.29	474,025	0.23	1	Atlas		139,363	1
	10/13/2021 14:45	10/13/2021 15:00	15	0.07	54,247	0.06	1	Atlas		3,743	1
	10/15/2021 08:30	10/15/2021 08:45	15	0.30	1,397	0.13	12	Atlas		426	1
	10/15/2021 17:15	10/15/2021 17:30	15	0.30	47,046	0.13	12	Atlas		14,349	1
	10/24/2021 07:15	10/24/2021 08:45	90	0.29	580,835	0.21	1	Atlas		169,604	1
	10/25/2021 04:30	10/25/2021 06:00	90	0.46	444,352	0.27	1	Atlas		204,846	1
	10/28/2021 14:15	10/28/2021 14:30	15	0.17	7,542	0.09	6	Atlas		1,312	1
	10/29/2021 21:15	10/29/2021 21:45	30	0.49	11,058	0.19	24	Atlas		5,374	1
	10/30/2021 08:00	10/30/2021 08:30	30	0.49	11,829	0.19	24	Atlas		5,749	1
	11/11/2021 12:30	11/11/2021 14:30	120	0.34	93,154	0.22	3	Atlas		31,952	1
	11/18/2021 01:00	11/18/2021 06:00	300	0.39	148,071	0.21	6	Atlas		57,155	1
	11/21/2021 08:45	11/21/2021 10:15	90	0.31	34,944	0.14	6	Atlas		10,903	1
	11/25/2021 07:45	11/25/2021 08:15	30	0.24	15,307	0.13	6	Atlas		3,750	1
	12/06/2021 02:30	12/06/2021 07:45	315	0.57	159,561	0.26	6	Atlas		91,428	1
	12/10/2021 22:45	12/11/2021 10:15	690	1.04	584,371	0.48	12	Atlas		608,331	1

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	12/16/2021 15:00	12/16/2021 16:45	105	0.25	137,387	0.17	3	Atlas		34,484	1
	12/17/2021 16:45	12/17/2021 21:30	285	0.52	78,431	0.21	12	Atlas		41,098	1
	12/28/2021 21:45	12/29/2021 01:30	225	0.61	239,092	0.26	6	Atlas		145,846	1
	12/31/2021 23:15	01/01/2022 22:15	1380	2.00	976,883	0.74	24	Atlas		1,955,721	1
	01/08/2022 21:00	01/09/2022 11:30	870	1.41	730,020	0.61	12	Atlas		1,030,058	1
	02/02/2022 07:30	02/02/2022 10:30	180	2.15	15,099	0.69	48	Atlas		32,432	1
	02/03/2022 19:45	02/03/2022 00:00	255	2.15	15,464	0.69	48	Atlas		33,217	1
	02/03/2022 08:15	02/03/2022 14:30	375	2.15	84,027	0.69	48	Atlas		180,490	1
	02/17/2022 08:15	02/17/2022 20:15	720	1.97	1,080,688	0.87	12	Atlas		2,125,713	1
	02/22/2022 00:00	02/22/2022 13:45	825	1.36	839,748	0.62	12	Atlas		1,143,737	1
	02/24/2022 15:15	02/25/2022 04:30	795	1.04	1,109,057	0.48	12	Atlas		1,148,983	1
	03/06/2022 06:00	03/06/2022 06:15	15	1.31	10,191	0.63	3	Atlas		13,310	1
	03/06/2022 21:45	03/07/2022 10:15	750	1.31	764,191	0.63	3	Atlas		986,034	1
	03/18/2022 22:45	03/18/2022 23:00	15	0.24	250,972	0.20	1	Atlas		59,982	1
	03/30/2022 23:00	03/30/2022 23:15	15	0.25	20,763	0.13	3	Atlas		5,108	1
	04/05/2022 06:45	04/05/2022 07:45	60	0.29	9,792	0.11	12	Atlas		2,879	1
	04/06/2022 08:30	04/06/2022 15:30	420	0.90	767,138	0.44	6	Atlas		691,958	1
	04/11/2022 21:45	04/11/2022 22:45	60	0.31	17,884	0.11	24	Atlas		5,508	1
	04/13/2022 08:30	04/13/2022 10:15	105	1.23	43,948	0.47	24	Atlas		54,144	1
	04/13/2022 19:30	04/14/2022 02:00	390	1.23	650,331	0.47	24	Atlas		801,208	1
	04/16/2022 00:00	04/16/2022 01:00	60	0.17	148,364	0.11	1	Atlas		25,074	1
	04/18/2022 04:15	04/18/2022 05:45	90	0.29	23,976	0.16	6	Atlas		7,001	1
	04/21/2022 05:15	04/21/2022 05:45	30	0.29	15,179	0.14	1	Atlas		4,387	1
	04/25/2022 10:45	04/25/2022 11:00	15	0.09	8,053	0.07	1	Atlas		741	1
	05/03/2022 04:15	05/03/2022 13:45	570	0.70	135,791	0.32	12	Atlas		94,510	1



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	05/06/2022 18:00	05/06/2022 18:15	15	0.18	12,769	0.08	12	Atlas		2,260	1
	05/14/2022 15:15	05/14/2022 16:15	60	1.00	460,394	0.79	1	Atlas		462,236	1
	05/18/2022 15:15	05/18/2022 16:00	45	0.32	231,255	0.26	1	Atlas		73,077	1
	05/25/2022 16:45	05/25/2022 17:45	60	0.49	483,053	0.39	1	Atlas		235,730	1
	05/26/2022 11:00	05/26/2022 11:30	30	0.90	48,451	0.34	1	Atlas		43,751	1
	05/26/2022 21:45	05/26/2022 22:30	45	0.90	226,038	0.34	1	Atlas		204,112	1
	06/02/2022 00:15	06/02/2022 02:15	120	0.57	455,108	0.38	3	Atlas		261,687	1
	06/06/2022 18:45	06/06/2022 19:00	15	0.32	20,684	0.15	12	Atlas		6,660	1
	06/22/2022 16:00	06/22/2022 16:30	30	0.13	447,436	0.12	1	Atlas		59,509	1
	06/26/2022 19:30	06/26/2022 22:15	165	0.84	862,197	0.57	1	Atlas		723,383	1
CSO050 Total										26,070,778	71
CSO051	07/01/2021 11:00	07/01/2021 14:15	195	1.22	64,974	0.63	3	Atlas		79,204	1
	07/08/2021 18:30	07/08/2021 18:45	15	0.70	12,925	0.60	1	Atlas		9,009	1
	07/10/2021 18:30	07/11/2021 00:00	330	1.27	17,255	0.58	12	Atlas		22,000	1
	07/12/2021 09:15	07/12/2021 10:30	75	0.91	32,851	0.49	1	Atlas		29,928	1
	07/13/2021 15:45	07/13/2021 16:00	15	0.05	107,185	0.03	3	Atlas		5,038	1
	07/16/2021 21:45	07/17/2021 02:30	285	0.98	17,650	0.50	6	Atlas		17,332	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.35	98	0.23	1	Atlas		35	1
	08/19/2021 04:30	08/19/2021 04:45	15	0.27	17,216	0.16	1	Atlas		4,648	1
	08/25/2021 13:00	08/25/2021 15:00	120	0.30	17,483	0.18	3	Atlas		5,297	1
	08/26/2021 19:00	08/26/2021 21:00	120	2.31	80,898	18.05	1	Atlas		187,278	1
	08/27/2021 14:30	08/27/2021 15:30	60	1.04	24,815	0.88	1	Atlas		25,882	1
	08/30/2021 11:45	08/30/2021 14:30	165	0.70	18,434	0.36	3	Atlas		12,940	1
	09/05/2021 05:15	09/05/2021 09:15	240	1.05	7,062	0.47	12	Atlas		7,415	1
	09/19/2021 15:00	09/19/2021 15:15	15	2.24	3,489	0.86	24	Atlas		7,802	1

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	09/20/2021 03:15	09/20/2021 11:00	465	2.24	49,026	0.86	24	Atlas		109,621	1
	10/03/2021 09:15	10/03/2021 11:00	105	1.33	41,289	0.95	1	Atlas		54,790	1
	10/05/2021 20:15	10/05/2021 20:45	30	0.51	10,562	0.38	1	Atlas		5,376	1
	10/06/2021 16:15	10/06/2021 16:30	15	0.29	3,293	0.23	1	Atlas		968	1
	10/15/2021 08:15	10/15/2021 08:30	15	0.30	13,151	0.13	12	Atlas		4,011	1
	10/25/2021 05:00	10/25/2021 05:15	15	0.46	8,636	0.27	1	Atlas		3,981	1
	12/06/2021 03:15	12/06/2021 03:30	15	0.57	906	0.26	6	Atlas		519	1
	12/10/2021 23:30	12/11/2021 06:00	390	1.04	7,342	0.48	12	Atlas		7,643	1
	12/28/2021 22:45	12/28/2021 23:00	15	0.61	13	0.26	6	Atlas		8	1
	01/01/2022 05:00	01/01/2022 14:30	570	2.00	26,237	0.74	24	Atlas		52,526	1
	01/09/2022 04:30	01/09/2022 06:30	120	1.41	15,657	0.61	12	Atlas		22,091	1
	02/17/2022 08:15	02/17/2022 18:30	615	1.97	56,271	0.87	12	Atlas		110,686	1
	02/22/2022 00:00	02/22/2022 13:00	780	1.36	44,952	0.62	12	Atlas		61,224	1
	02/24/2022 17:15	02/24/2022 20:00	165	1.04	43,613	0.48	12	Atlas		45,183	1
	03/07/2022 05:30	03/07/2022 09:00	210	1.31	33,093	0.63	3	Atlas		43,219	1
	03/18/2022 22:30	03/18/2022 22:45	15	0.24	8,312	0.20	1	Atlas		1,987	1
	04/13/2022 09:15	04/13/2022 09:30	15	1.23	3	0.47	24	Atlas		3	1
	04/13/2022 19:30	04/13/2022 21:15	105	1.23	32,637	0.47	24	Atlas		40,209	1
	05/03/2022 13:00	05/03/2022 13:15	15	0.70	7,444	0.32	12	Atlas		5,181	1
	05/14/2022 15:00	05/14/2022 15:30	30	1.00	18,917	0.79	1	Atlas		18,993	1
	05/18/2022 15:00	05/18/2022 15:15	15	0.32	5,208	0.26	1	Atlas		1,646	1
	05/25/2022 16:30	05/25/2022 17:00	30	0.49	13,724	0.39	1	Atlas		6,697	1
	05/26/2022 21:30	05/26/2022 22:00	30	0.90	7,695	0.34	1	Atlas		6,948	1
	06/02/2022 00:00	06/02/2022 00:15	15	0.57	13,736	0.38	3	Atlas		7,898	1
	06/22/2022 15:45	06/22/2022 16:00	15	0.13	70,505	0.12	1	Atlas		9,377	1



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	06/26/2022 19:15	06/26/2022 21:30	135	0.84	31,443	0.57	1	Atlas		26,381	1
CSO051 Total										1,060,976	40
CSO052	07/01/2021 12:45	07/01/2021 13:00	15	1.14	1,187	0.59	3	Atlas		1,358	1
	07/12/2021 09:15	07/12/2021 09:30	15	0.89	4,979	0.48	1	Atlas		4,407	1
	08/26/2021 19:00	08/26/2021 20:00	60	2.86	31,785	54.81	1	Atlas		90,906	1
	08/27/2021 14:30	08/27/2021 14:45	15	0.83	2,105	0.69	1	Atlas		1,737	1
	10/03/2021 09:15	10/03/2021 09:45	30	1.42	13,926	1.22	1	Atlas		19,816	1
	03/07/2022 09:45	03/07/2022 10:00	15	1.33	2,090	0.64	3	Atlas		2,788	1
	06/26/2022 20:00	06/26/2022 20:15	15	0.81	2,275	0.54	1	Atlas		1,840	1
CSO052 Total										122,851	7
CSO053	07/01/2021 11:00	07/01/2021 14:00	180	1.14	89,417	0.59	3	Atlas		102,293	1
	07/08/2021 18:30	07/08/2021 20:45	135	0.67	68,770	0.58	1	Atlas		45,938	1
	07/10/2021 08:00	07/10/2021 10:15	135	0.26	62,725	0.22	1	Atlas		16,183	1
	07/10/2021 18:45	07/11/2021 04:00	555	1.24	51,088	0.57	12	Atlas		63,349	1
	07/12/2021 09:30	07/12/2021 12:00	150	0.89	61,977	0.48	1	Atlas		54,850	1
	07/13/2021 16:00	07/13/2021 16:45	45	0.06	113,322	0.04	1	Atlas		6,346	1
	07/16/2021 22:00	07/17/2021 03:45	345	0.93	86,213	0.48	6	Atlas		79,747	1
	08/09/2021 10:00	08/09/2021 10:30	30	0.33	31,810	0.21	3	Atlas		10,402	1
	08/25/2021 13:15	08/25/2021 15:15	120	0.34	20,894	0.21	1	Atlas		7,104	1
	08/26/2021 19:00	08/26/2021 20:45	105	2.86	245,417	54.81	1	Atlas		701,891	1
	08/27/2021 14:45	08/27/2021 15:30	45	0.83	70,462	0.69	1	Atlas		58,131	1
	08/30/2021 11:45	08/30/2021 13:45	120	0.82	57,492	0.44	3	Atlas		47,316	1
	09/05/2021 03:00	09/05/2021 09:30	390	1.05	52,114	0.47	12	Atlas		54,616	1
	09/08/2021 04:15	09/08/2021 04:30	15	0.09	62,920	0.06	3	Atlas		5,726	1
	09/19/2021 15:00	09/19/2021 16:15	75	2.21	8,534	0.85	24	Atlas		18,834	1

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	09/20/2021 03:30	09/20/2021 10:30	420	2.21	50,751	0.85	24	Atlas		112,008	1
	09/21/2021 22:30	09/22/2021 12:15	825	1.24	28,972	0.48	24	Atlas		33,472	1
	10/03/2021 09:30	10/03/2021 11:00	90	1.42	71,303	1.22	1	Atlas		101,465	1
	10/05/2021 20:30	10/05/2021 21:15	45	0.49	59,529	0.36	1	Atlas		29,050	1
	10/06/2021 16:30	10/06/2021 17:00	30	0.25	36,406	0.19	1	Atlas		9,211	1
	10/13/2021 14:45	10/13/2021 15:00	15	0.06	6,192	0.05	1	Atlas		353	1
	10/15/2021 08:30	10/15/2021 08:45	15	0.31	59,351	0.14	12	Atlas		18,577	1
	10/15/2021 17:15	10/15/2021 17:30	15	0.31	11,678	0.14	12	Atlas		3,655	1
	10/24/2021 07:30	10/24/2021 08:45	75	0.28	41,561	0.20	1	Atlas		11,803	1
	10/25/2021 04:30	10/25/2021 05:45	75	0.47	84,483	0.27	3	Atlas		39,369	1
	10/28/2021 14:15	10/28/2021 14:30	15	0.17	1,048	0.09	6	Atlas		179	1
	11/11/2021 12:45	11/11/2021 14:15	90	0.34	12,662	0.21	3	Atlas		4,280	1
	11/18/2021 01:45	11/18/2021 05:15	210	0.39	14,308	0.21	6	Atlas		5,551	1
	11/21/2021 09:30	11/21/2021 09:45	15	0.31	736	0.14	6	Atlas		231	1
	11/25/2021 08:00	11/25/2021 08:15	15	0.24	6,434	0.13	6	Atlas		1,576	1
	12/06/2021 02:45	12/06/2021 07:30	285	0.58	37,583	0.27	6	Atlas		21,798	1
	12/10/2021 23:45	12/11/2021 06:15	390	1.03	47,390	0.47	12	Atlas		48,622	1
	12/16/2021 15:15	12/16/2021 16:45	90	0.26	28,371	0.17	3	Atlas		7,405	1
	12/17/2021 17:00	12/17/2021 21:30	270	0.50	9,950	0.20	12	Atlas		4,945	1
	12/28/2021 23:00	12/29/2021 01:30	150	0.62	43,257	0.26	6	Atlas		26,690	1
	12/31/2021 23:30	01/01/2022 21:15	1305	1.99	59,150	0.74	24	Atlas		118,004	1
	01/08/2022 22:45	01/09/2022 06:30	465	1.40	69,417	0.61	12	Atlas		97,184	1
	02/03/2022 09:00	02/03/2022 14:15	315	2.15	14,291	0.70	48	Atlas		30,796	1
	02/17/2022 08:30	02/17/2022 18:30	600	1.97	91,317	0.88	12	Atlas		180,078	1
	02/22/2022 00:15	02/22/2022 12:00	705	1.32	77,858	0.60	6	Atlas		102,539	1



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	02/24/2022 15:30	02/25/2022 00:45	555	1.02	86,810	0.47	12	Atlas		88,807	1
	03/06/2022 06:15	03/06/2022 06:30	15	1.33	2,203	0.64	3	Atlas		2,939	1
	03/06/2022 22:00	03/07/2022 08:15	615	1.33	68,092	0.64	3	Atlas		90,834	1
	03/18/2022 22:45	03/18/2022 23:15	30	0.30	30,608	0.26	1	Atlas		9,305	1
	03/30/2022 23:00	03/30/2022 23:15	15	0.26	14,216	0.13	3	Atlas		3,682	1
	04/06/2022 08:30	04/06/2022 13:45	315	0.90	65,083	0.43	6	Atlas		58,314	1
	04/13/2022 09:15	04/13/2022 10:00	45	1.21	14,141	0.47	24	Atlas		17,125	1
	04/13/2022 19:45	04/14/2022 01:30	345	1.21	73,679	0.47	24	Atlas		89,226	1
	04/16/2022 00:00	04/16/2022 00:30	30	0.17	65,461	0.11	1	Atlas		11,063	1
	04/21/2022 05:30	04/21/2022 05:45	15	0.28	4,029	0.13	1	Atlas		1,112	1
	05/03/2022 05:00	05/03/2022 13:45	525	0.70	36,678	0.32	12	Atlas		25,711	1
	05/06/2022 18:00	05/06/2022 18:15	15	0.17	26,940	0.08	6	Atlas		4,445	1
	05/14/2022 15:15	05/14/2022 15:45	30	0.82	48,053	0.63	1	Atlas		39,644	1
	05/18/2022 15:15	05/18/2022 16:00	45	0.30	36,389	0.25	1	Atlas		11,062	1
	05/25/2022 16:45	05/25/2022 17:30	45	0.46	28,415	0.38	1	Atlas		13,648	1
	05/26/2022 11:00	05/26/2022 11:30	30	0.89	6,531	0.37	1	Atlas		5,826	1
	05/26/2022 21:45	05/26/2022 22:15	30	0.89	23,178	0.37	1	Atlas		20,675	1
	06/02/2022 00:15	06/02/2022 01:00	45	0.57	41,123	0.38	3	Atlas		23,646	1
	06/22/2022 16:00	06/22/2022 16:15	15	0.16	26,703	0.14	1	Atlas		4,272	1
	06/26/2022 19:30	06/26/2022 21:15	105	0.81	51,101	0.54	1	Atlas		41,341	1
CSO053 Total										2,844,241	60
CSO054	07/01/2021 12:15	07/01/2021 14:00	105	1.14	148,945	0.59	3	Atlas		170,394	1
	07/10/2021 23:00	07/10/2021 23:45	45	1.24	34,613	0.57	12	Atlas		42,920	1
	07/12/2021 10:00	07/12/2021 10:30	30	0.89	22,759	0.48	1	Atlas		20,142	1
	08/26/2021 19:15	08/26/2021 21:00	105	2.86	64,738	54.81	1	Atlas		185,150	1

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	08/30/2021 13:00	08/30/2021 14:30	90	0.82	53,669	0.44	3	Atlas		44,170	1
	09/05/2021 09:00	09/05/2021 09:45	45	1.05	8,791	0.47	12	Atlas		9,212	1
	09/20/2021 05:45	09/20/2021 11:00	315	2.21	166,285	0.85	24	Atlas		366,991	1
	10/03/2021 09:45	10/03/2021 11:00	75	1.42	73,397	1.22	1	Atlas		104,443	1
	12/11/2021 05:45	12/11/2021 06:15	30	1.03	10,256	0.47	12	Atlas		10,523	1
	01/01/2022 10:15	01/01/2022 14:30	255	1.99	120,624	0.74	24	Atlas		240,646	1
	01/09/2022 04:45	01/09/2022 06:30	105	1.40	103,783	0.61	12	Atlas		145,296	1
	02/17/2022 13:30	02/17/2022 18:30	300	1.97	273,288	0.88	12	Atlas		538,924	1
	02/22/2022 09:45	02/22/2022 13:00	195	1.32	266,575	0.60	6	Atlas		351,079	1
	02/24/2022 17:00	02/25/2022 01:00	480	1.02	249,368	0.47	12	Atlas		255,103	1
	03/07/2022 06:45	03/07/2022 09:00	135	1.33	171,601	0.64	3	Atlas		228,915	1
	04/13/2022 20:30	04/13/2022 21:30	60	1.21	38,431	0.47	24	Atlas		46,539	1
	06/26/2022 21:00	06/26/2022 21:30	30	0.81	12,053	0.54	1	Atlas		9,751	1
CSO054 Total										2,770,199	17
CSO055	07/01/2021 11:15	07/01/2021 14:45	210	1.14	315,133	0.59	3	Atlas		360,512	1
	07/08/2021 18:30	07/08/2021 19:00	30	0.67	76,571	0.58	1	Atlas		51,150	1
	07/10/2021 08:00	07/10/2021 08:15	15	0.26	61,021	0.22	1	Atlas		15,743	1
	07/10/2021 18:45	07/11/2021 00:30	345	1.24	132,024	0.57	12	Atlas		163,710	1
	07/12/2021 09:30	07/12/2021 11:15	105	0.89	251,826	0.48	1	Atlas		222,866	1
	07/16/2021 22:00	07/17/2021 02:45	285	0.93	45,278	0.48	6	Atlas		41,882	1
	08/19/2021 04:45	08/19/2021 05:00	15	0.23	36,418	0.12	1	Atlas		8,522	1
	08/26/2021 19:15	08/26/2021 21:15	120	2.86	290,002	54.81	1	Atlas		829,406	1
	08/27/2021 14:45	08/27/2021 15:15	30	0.83	62,622	0.69	1	Atlas		51,663	1
	08/30/2021 11:45	08/30/2021 15:30	225	0.82	426,288	0.44	3	Atlas		350,835	1
	09/05/2021 03:15	09/05/2021 11:15	480	1.05	328,292	0.47	12	Atlas		344,050	1



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	09/19/2021 15:00	09/19/2021 15:15	15	2.21	5.835	0.85	24	Atlas		12,879	1
	09/20/2021 04:15	09/20/2021 11:30	435	2.21	386,902	0.85	24	Atlas		853,892	1
	09/22/2021 07:15	09/22/2021 07:30	15	1.24	77	0.48	24	Atlas		95	1
	09/22/2021 16:00	09/22/2021 16:15	15	1.24	546	0.48	24	Atlas		678	1
	10/03/2021 09:30	10/03/2021 11:15	105	1.42	287,869	1.22	1	Atlas		409,637	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.49	17,391	0.36	1	Atlas		8,487	1
	10/06/2021 16:15	10/06/2021 16:30	15	0.25	1,025	0.19	1	Atlas		259	1
	10/25/2021 04:45	10/25/2021 05:15	30	0.47	3,797	0.27	3	Atlas		1,770	1
	12/11/2021 05:15	12/11/2021 06:45	90	1.03	871	0.47	12	Atlas		893	1
	01/01/2022 09:30	01/01/2022 22:00	750	1.99	88,377	0.74	24	Atlas		176,311	1
	01/09/2022 03:15	01/09/2022 07:45	270	1.40	2,184	0.61	12	Atlas		3,058	1
	02/03/2022 13:30	02/03/2022 14:15	45	2.15	4,341	0.70	48	Atlas		9,355	1
	02/17/2022 08:30	02/17/2022 19:15	645	1.97	624,863	0.88	12	Atlas		1,232,230	1
	02/22/2022 09:45	02/22/2022 14:00	255	1.32	667,044	0.60	6	Atlas		878,497	1
	02/24/2022 16:30	02/25/2022 04:15	705	1.02	1,157,508	0.47	12	Atlas		1,184,131	1
	03/07/2022 05:45	03/07/2022 10:15	270	1.33	561,602	0.64	3	Atlas		749,177	1
	03/18/2022 22:45	03/18/2022 23:00	15	0.30	26,324	0.26	1	Atlas		8,003	1
	04/06/2022 09:45	04/06/2022 15:00	315	0.90	12,127	0.43	6	Atlas		10,866	1
	04/13/2022 09:15	04/13/2022 09:45	30	1.21	6,916	0.47	24	Atlas		8,375	1
	04/13/2022 19:45	04/14/2022 01:45	360	1.21	397,522	0.47	24	Atlas		481,399	1
	04/16/2022 00:00	04/16/2022 00:15	15	0.17	3,769	0.11	1	Atlas		637	1
	05/14/2022 15:15	05/14/2022 15:45	30	0.82	72,671	0.63	1	Atlas		59,954	1
	05/18/2022 15:15	05/18/2022 15:45	30	0.30	25,408	0.25	1	Atlas		7,724	1
	05/25/2022 17:00	05/25/2022 17:15	15	0.46	64,354	0.38	1	Atlas		29,860	1
	05/26/2022 10:45	05/26/2022 11:00	15	0.89	75	0.37	1	Atlas		67	1

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	05/26/2022 21:45	05/26/2022 22:15	30	0.89	21,000	0.37	1	Atlas		18,732	1
	06/02/2022 00:15	06/02/2022 00:45	30	0.57	81,471	0.38	3	Atlas		46,846	1
	06/26/2022 19:30	06/26/2022 20:45	75	0.81	86,611	0.54	1	Atlas		70,069	1
CSO055 Total										8,704,218	39
CSO056	07/01/2021 12:30	07/01/2021 13:45	75	1.14	50,250	0.59	3	Atlas		57,486	1
	07/08/2021 18:45	07/08/2021 19:00	15	0.67	61,022	0.58	1	Atlas		40,763	1
	07/10/2021 23:00	07/10/2021 23:30	30	1.24	11,424	0.57	12	Atlas		14,166	1
	07/12/2021 09:30	07/12/2021 10:15	45	0.89	116,846	0.48	1	Atlas		103,409	1
	09/19/2021 15:15	09/19/2021 15:30	15	2.21	2,911	0.85	24	Atlas		6,426	1
	09/20/2021 05:45	09/20/2021 10:30	285	2.21	38,481	0.85	24	Atlas		84,927	1
	10/03/2021 09:30	10/03/2021 11:00	90	1.42	153,049	1.22	1	Atlas		217,788	1
	10/05/2021 20:45	10/05/2021 21:00	15	0.49	7,794	0.36	1	Atlas		3,804	1
	12/11/2021 01:45	12/11/2021 06:00	255	1.03	6,460	0.47	12	Atlas		6,628	1
	01/01/2022 13:30	01/01/2022 14:15	45	1.99	6,598	0.74	24	Atlas		13,164	1
	01/09/2022 05:15	01/09/2022 05:45	30	1.40	2,496	0.61	12	Atlas		3,494	1
	02/17/2022 13:30	02/17/2022 17:15	225	1.97	55,980	0.88	12	Atlas		110,392	1
	02/22/2022 10:00	02/22/2022 12:15	135	1.32	56,226	0.60	6	Atlas		74,049	1
	02/24/2022 19:00	02/24/2022 19:45	45	1.02	7,626	0.47	12	Atlas		7,801	1
	03/07/2022 05:45	03/07/2022 08:30	165	1.33	37,200	0.64	3	Atlas		49,625	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.21	23,961	0.47	24	Atlas		29,017	1
	05/14/2022 15:15	05/14/2022 15:30	15	0.82	13,358	0.63	1	Atlas		11,020	1
	05/26/2022 21:45	05/26/2022 22:00	15	0.89	1,671	0.37	1	Atlas		1,491	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.57	996	0.38	3	Atlas		572	1
CSO056 Total										836,022	19
CSO057	05/25/2022 16:30	05/25/2022 16:45	15	0.38	13	0.32	1	Atlas		5	1



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	05/26/2022 21:30	05/26/2022 21:45	15	0.88	5	0.35	1	Atlas		5	1
	06/26/2022 19:15	06/26/2022 19:30	15	0.79	16	0.56	1	Atlas		13	1
CSO057 Total										22	3
CSO062	07/01/2021 13:15	07/01/2021 13:30	15	0.97	94,448	0.49	3	Atlas		91,426	1
	10/03/2021 09:45	10/03/2021 11:00	75	1.53	2,540,991	1.78	1	Atlas		3,887,716	1
	01/01/2022 13:30	01/01/2022 13:45	15	2.00	98,338	0.75	24	Atlas		196,971	1
	02/17/2022 15:00	02/17/2022 18:30	210	1.95	3,320,236	0.87	12	Atlas		6,481,101	1
	02/22/2022 08:30	02/22/2022 23:45	915	1.26	30,075,666	0.60	6	Atlas		37,925,415	1
	02/24/2022 16:30	02/25/2022 02:30	600	1.04	26,234,786	0.48	12	Atlas		27,284,177	1
	03/07/2022 06:00	03/07/2022 10:15	255	1.14	12,837,764	0.66	3	Atlas		14,609,375	1
	04/13/2022 19:45	04/13/2022 20:45	60	1.26	2,323,486	0.53	1	Atlas		2,929,915	1
CSO062 Total										93,406,097	8
CSO082	07/01/2021 12:30	07/01/2021 14:00	90	1.09	33,360	0.57	3	Atlas		36,363	1
	10/03/2021 09:45	10/03/2021 11:15	90	1.39	83,181	1.07	1	Atlas		115,206	1
	03/07/2022 06:15	03/07/2022 10:00	225	1.12	289,046	0.66	3	Atlas		324,888	1
	04/13/2022 19:45	04/13/2022 20:00	15	1.28	1,996	0.55	1	Atlas		2,563	1
CSO082 Total										479,020	4
CSO083	08/26/2021 19:15	08/26/2021 20:00	45	1.61	816	4.02	1	Atlas		1,317	1
	08/30/2021 13:00	08/30/2021 13:15	15	1.07	1	0.63	3	Atlas		1	1
	09/20/2021 05:45	09/20/2021 06:00	15	2.02	247	0.78	24	Atlas		497	1
	10/03/2021 10:15	10/03/2021 10:30	15	1.18	14	0.81	1	Atlas		17	1
	04/13/2022 20:00	04/13/2022 20:15	15	1.31	255	0.59	1	Atlas		335	1
	06/02/2022 00:30	06/02/2022 00:45	15	0.70	70	0.50	1	Atlas		49	1
CSO083 Total										2,215	6
CSO088	10/03/2021 10:00	10/03/2021 10:15	15	1.49	1,403	1.52	1	Atlas		2,091	1

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	02/22/2022 10:45	02/22/2022 11:15	30	1.26	3,481	0.60	6	Atlas		4,379	1
	02/24/2022 17:00	02/24/2022 19:45	165	1.05	23,006	0.48	12	Atlas		24,134	1
	04/13/2022 20:00	04/13/2022 20:15	15	1.26	2,557	0.55	1	Atlas		3,227	1
CSO088 Total										33,832	4
CSO092	07/01/2021 13:00	07/01/2021 13:15	15	1.22	48	0.63	3	Atlas		59	1
	08/17/2021 14:00	08/17/2021 14:15	15	0.46	109	0.39	1	Atlas		50	1
	08/26/2021 19:00	08/26/2021 19:30	30	1.09	459	0.95	1	Atlas		501	1
	08/27/2021 14:30	08/27/2021 15:00	30	0.34	95	0.28	1	Atlas		32	1
	08/30/2021 11:45	08/30/2021 12:45	60	1.03	305	0.63	1	Atlas		313	1
	09/05/2021 05:00	09/05/2021 05:15	15	1.00	1	0.45	12	Atlas		1	1
	09/19/2021 14:45	09/19/2021 15:00	15	1.97	12	0.76	24	Atlas		24	1
	09/20/2021 03:15	09/20/2021 08:15	300	1.97	16	0.76	24	Atlas		32	1
	09/22/2021 00:15	09/22/2021 00:30	15	1.07	10	0.41	24	Atlas		11	1
	10/03/2021 09:15	10/03/2021 10:15	60	1.04	3,471	0.65	1	Atlas		3,617	1
	10/15/2021 08:15	10/15/2021 08:30	15	0.43	38	0.17	12	Atlas		17	1
	12/11/2021 01:30	12/11/2021 05:30	240	1.03	92	0.47	12	Atlas		95	1
	12/31/2021 23:15	12/31/2021 23:30	15	2.06	5	0.78	24	Atlas		10	1
	02/24/2022 15:15	02/24/2022 15:30	15	0.99	1	0.46	6	Atlas		1	1
	03/07/2022 05:30	03/07/2022 06:30	60	1.19	54	0.64	3	Atlas		65	1
	03/18/2022 22:30	03/18/2022 22:45	15	0.29	68	0.24	1	Atlas		19	1
	04/13/2022 09:00	04/13/2022 09:15	15	1.33	2	0.63	1	Atlas		3	1
	04/13/2022 19:30	04/13/2022 20:00	30	1.33	652	0.63	1	Atlas		867	1
	05/18/2022 15:00	05/18/2022 15:30	30	0.34	90	0.23	1	Atlas		30	1
	05/26/2022 10:45	05/26/2022 11:00	15	0.72	69	0.26	12	Atlas		50	1
	05/26/2022 21:30	05/26/2022 21:45	15	0.72	14	0.26	12	Atlas		10	1



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	06/02/2022 00:00	06/02/2022 00:45	45	0.76	1.971	0.55	1	Atlas		1,488	1
	06/07/2022 02:00	06/07/2022 02:15	15	0.44	3	0.22	6	Atlas		1	1
	06/23/2022 15:45	06/23/2022 07:00	915	0.09	4,516	0.08	1	Atlas		411	1
	06/26/2022 20:15	06/26/2022 20:30	15	0.90	1,548	0.67	1	Atlas		1,399	1
CSO092 Total										9,107	25
CSO093	08/30/2021 12:45	08/30/2021 13:00	15	1.16	435	0.69	3	Atlas		502	1
	09/20/2021 04:15	09/20/2021 05:00	45	1.81	5,589	0.71	6	Atlas		10,102	1
	10/03/2021 09:45	10/03/2021 10:00	15	1.34	5,982	0.95	1	Atlas		8,028	1
	04/13/2022 19:45	04/13/2022 20:00	15	1.28	260	0.57	1	Atlas		333	1
	05/25/2022 17:00	05/25/2022 17:15	15	0.67	266	0.54	1	Atlas		177	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.64	910	0.45	1	Atlas		584	1
CSO093 Total										19,726	6
CSO097	07/01/2021 11:00	07/01/2021 14:45	225	1.30	257,210	0.67	3	Atlas		333,859	1
	07/10/2021 22:45	07/11/2021 00:00	75	0.87	40,406	0.40	12	Atlas		34,991	1
	07/16/2021 21:45	07/16/2021 22:30	45	0.75	17,575	0.41	6	Atlas		13,234	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.41	4,389	0.26	3	Atlas		1,786	1
	08/17/2021 13:45	08/17/2021 14:30	45	0.74	145,566	0.58	1	Atlas		107,573	1
	08/27/2021 14:30	08/27/2021 15:15	45	0.51	131,525	0.44	1	Atlas		67,078	1
	08/30/2021 12:15	08/30/2021 13:45	90	0.95	246,733	0.60	1	Atlas		234,150	1
	09/20/2021 04:15	09/20/2021 10:15	360	1.76	83,924	0.74	6	Atlas		147,370	1
	09/22/2021 00:30	09/22/2021 01:00	30	1.33	3,289	0.51	24	Atlas		4,374	1
	09/22/2021 11:30	09/22/2021 15:45	255	1.33	18,530	0.51	24	Atlas		24,645	1
	10/03/2021 09:30	10/03/2021 10:45	75	0.91	177,148	0.52	1	Atlas		161,382	1
	10/05/2021 20:15	10/05/2021 21:15	60	0.54	185,546	0.43	1	Atlas		100,195	1
	10/06/2021 16:15	10/06/2021 17:00	45	0.26	41,664	0.19	1	Atlas		10,708	1

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	10/25/2021 05:00	10/25/2021 05:30	30	0.43	14,550	0.28	1	Atlas		6,271	1
	12/10/2021 23:45	12/11/2021 06:00	375	0.99	49,693	0.45	12	Atlas		49,394	1
	12/31/2021 23:15	01/01/2022 22:30	1395	2.07	272,732	0.78	24	Atlas		565,373	1
	01/08/2022 22:45	01/09/2022 12:15	810	1.41	181,565	0.60	12	Atlas		255,099	1
	02/03/2022 10:00	02/03/2022 17:45	465	2.12	56,596	0.69	48	Atlas		119,984	1
	02/17/2022 08:45	02/17/2022 22:45	840	2.00	535,962	0.89	12	Atlas		1,072,996	1
	02/22/2022 07:45	02/22/2022 13:30	345	1.09	260,825	0.51	6	Atlas		283,777	1
	02/24/2022 15:30	02/25/2022 02:00	630	1.00	185,928	0.47	6	Atlas		185,184	1
	03/06/2022 21:45	03/07/2022 10:00	735	1.44	240,699	0.69	3	Atlas		346,847	1
	03/18/2022 22:45	03/18/2022 23:45	60	0.20	385,657	0.17	1	Atlas		78,288	1
	04/06/2022 08:45	04/06/2022 20:00	675	0.93	1,657,729	0.43	6	Atlas		1,540,031	1
	04/11/2022 21:45	04/11/2022 23:30	105	0.28	473,766	0.10	3	Atlas		131,233	1
	04/13/2022 08:30	04/13/2022 10:30	120	1.33	173,517	0.64	1	Atlas		230,257	1
	04/13/2022 19:30	04/15/2022 14:30	2580	1.33	2,430,717	0.64	1	Atlas		3,225,562	1
	04/15/2022 23:45	04/16/2022 03:00	195	0.20	1,570,187	0.14	1	Atlas		320,318	1
	04/18/2022 04:00	04/18/2022 09:30	330	0.29	891,792	0.16	6	Atlas		255,063	1
	04/21/2022 05:45	04/21/2022 07:45	120	0.27	963,090	0.12	3	Atlas		255,219	1
	05/03/2022 05:15	05/03/2022 14:15	540	0.48	616,087	0.22	12	Atlas		297,570	1
CSO097 Total										10,459,801	31
CSO105	08/26/2021 19:30	08/30/2021 12:30	5340	0.14	4,441,217,788	0.11	1	Atlas		617,329,273	1
	09/19/2021 15:15	09/19/2021 15:30	15	2.27	18,103	0.87	24	Atlas		41,184	1
	09/20/2021 07:30	09/20/2021 08:30	60	2.27	460,526	0.87	24	Atlas		1,047,696	1
	10/03/2021 09:30	10/03/2021 10:00	30	0.61	691,965	0.37	3	Atlas		423,483	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.35	297,642	0.56	3	Atlas		402,114	1
	05/14/2022 15:00	05/14/2022 15:45	45	1.30	971,465	1.13	1	Atlas		1,261,933	1



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	06/26/2022 20:15	06/26/2022 20:45	30	1.26	538,591	0.84	3	Atlas		676,471	1
CSO105 Total										621,182,154	7
CSO108	08/17/2021 13:30	08/17/2021 13:45	15	1.07	279,256	0.78	1	Atlas		299,921	1
	01/01/2022 14:00	01/01/2022 17:00	180	2.10	1,211	0.79	24	Atlas		2,537	1
	01/09/2022 09:00	01/09/2022 09:15	15	1.45	75	0.61	12	Atlas		109	1
	02/17/2022 15:30	02/17/2022 16:30	60	2.08	48,166	0.92	12	Atlas		100,427	1
	03/07/2022 06:30	03/07/2022 07:00	30	1.49	56,034	0.67	3	Atlas		83,547	1
	04/13/2022 20:00	04/14/2022 01:00	300	1.28	32,273	0.62	1	Atlas		41,406	1
	06/02/2022 00:45	06/02/2022 01:00	15	0.55	43,261	0.39	1	Atlas		23,923	1
	06/26/2022 21:00	06/26/2022 21:15	15	1.12	1,520	0.83	1	Atlas		1,707	1
CSO108 Total										553,579	8
CSO109	07/01/2021 12:30	07/01/2021 12:45	15	1.55	5,593	0.78	6	Atlas		8,668	1
	07/16/2021 22:00	07/16/2021 22:15	15	0.61	55,629	0.33	6	Atlas		34,156	1
	08/09/2021 10:00	08/11/2021 08:00	2760	0.52	119,986	0.33	3	Atlas		62,513	1
	08/17/2021 13:45	08/17/2021 14:15	30	1.10	163,384	0.78	1	Atlas		180,540	1
	08/27/2021 14:30	08/27/2021 15:00	30	0.40	379,263	0.34	1	Atlas		152,843	1
	08/30/2021 12:30	08/30/2021 13:15	45	0.94	183,069	0.57	3	Atlas		172,634	1
	09/20/2021 08:15	09/20/2021 08:45	30	1.58	14,824	0.71	6	Atlas		23,377	1
	10/03/2021 09:45	10/03/2021 10:15	30	0.76	48,472	0.35	12	Atlas		36,984	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.56	167,536	0.44	1	Atlas		93,317	1
	12/31/2021 23:45	01/01/2022 00:00	15	2.08	8,158	0.79	24	Atlas		16,960	1
	02/17/2022 16:00	02/17/2022 21:15	315	2.04	158,013	0.90	12	Atlas		321,715	1
	02/22/2022 11:45	02/22/2022 12:00	15	1.13	1,894	0.55	6	Atlas		2,138	1
	03/06/2022 22:00	03/07/2022 06:45	525	1.56	124,232	0.69	3	Atlas		194,299	1
	04/13/2022 19:45	04/13/2022 20:30	45	1.29	260,179	0.64	1	Atlas		335,891	1

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	05/25/2022 17:00	05/25/2022 17:30	30	0.66	281,956	0.54	1	Atlas		186,655	1
	05/26/2022 21:45	05/26/2022 22:00	15	0.76	67,486	0.27	12	Atlas		51,559	1
	06/02/2022 00:15	06/02/2022 00:45	30	0.62	241,997	0.45	1	Atlas		150,038	1
	06/26/2022 20:30	06/26/2022 21:00	30	1.02	252,769	0.75	1	Atlas		258,330	1
CSO109 Total										2,282,618	18
CSO110	07/01/2021 11:15	07/01/2021 14:45	210	1.31	673,189	0.66	3	Atlas		881,877	1
	07/06/2021 15:15	07/06/2021 15:45	30	0.22	315,950	0.19	1	Atlas		69,825	1
	07/10/2021 23:00	07/11/2021 00:15	75	0.86	187,148	0.39	12	Atlas		160,198	1
	07/16/2021 22:15	07/17/2021 03:45	330	0.76	270,592	0.41	6	Atlas		206,461	1
	08/09/2021 10:15	08/09/2021 10:45	30	0.41	276,032	0.27	3	Atlas		113,725	1
	08/17/2021 14:15	08/17/2021 15:00	45	0.51	848,760	0.43	1	Atlas		432,867	1
	01/01/2022 13:15	01/01/2022 13:30	15	2.07	2,560	0.78	24	Atlas		5,289	1
	02/17/2022 10:45	02/17/2022 18:30	465	2.01	795,091	0.89	12	Atlas		1,601,313	1
	02/22/2022 07:45	02/22/2022 12:15	270	1.07	259,698	0.50	6	Atlas		279,175	1
	02/24/2022 16:45	02/24/2022 19:15	150	1.01	10,852	0.47	6	Atlas		10,949	1
	03/06/2022 21:30	03/07/2022 08:15	645	1.32	468,682	0.67	3	Atlas		620,066	1
	04/06/2022 09:30	04/06/2022 10:00	30	0.95	3,071	0.45	6	Atlas		2,917	1
	04/13/2022 19:15	04/13/2022 20:45	90	1.34	863,276	0.67	1	Atlas		1,159,380	1
	05/03/2022 12:45	05/03/2022 13:15	30	0.51	3,262	0.24	3	Atlas		1,654	1
	05/16/2022 01:00	05/16/2022 01:30	30	0.32	13,509	0.22	1	Atlas		4,296	1
	05/25/2022 16:30	05/25/2022 17:15	45	0.43	433,329	0.37	1	Atlas		185,031	1
	05/26/2022 10:45	05/26/2022 11:00	15	0.71	1,252	0.26	12	Atlas		892	1
	05/26/2022 21:30	05/26/2022 21:45	15	0.71	4,236	0.26	12	Atlas		3,016	1
	06/01/2022 23:45	06/02/2022 00:45	60	0.74	990,633	0.55	1	Atlas		735,049	1
	06/26/2022 20:00	06/26/2022 21:30	90	0.96	844,420	0.71	1	Atlas		811,488	1



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CSO110 Total										7,285,471	20
CSO111	07/01/2021 11:00	07/01/2021 14:15	195	1.31	132,422	0.66	3	Atlas		173,473	1
	07/06/2021 15:00	07/06/2021 15:15	15	0.22	48,464	0.19	1	Atlas		10,711	1
	07/10/2021 23:00	07/10/2021 23:30	30	0.86	17,314	0.39	12	Atlas		14,821	1
	07/16/2021 22:00	07/17/2021 02:45	285	0.76	18,704	0.41	6	Atlas		14,271	1
	08/09/2021 10:15	08/09/2021 10:30	15	0.41	2,219	0.27	3	Atlas		914	1
	08/27/2021 14:45	08/27/2021 15:30	45	0.50	291,307	0.43	1	Atlas		146,819	1
	08/30/2021 12:30	08/30/2021 14:00	90	0.94	283,457	0.60	1	Atlas		266,166	1
	09/20/2021 03:45	09/20/2021 09:30	345	1.89	67,085	0.76	6	Atlas		126,925	1
	09/22/2021 00:45	09/22/2021 01:00	15	1.27	7,067	0.49	24	Atlas		8,946	1
	09/22/2021 11:30	09/22/2021 12:15	45	1.27	22,878	0.49	24	Atlas		28,964	1
	10/06/2021 16:30	10/06/2021 16:45	15	0.27	35,604	0.21	1	Atlas		9,649	1
	10/25/2021 05:15	10/25/2021 05:30	15	0.43	12,491	0.28	1	Atlas		5,396	1
	12/11/2021 05:30	12/11/2021 05:45	15	1.00	3,451	0.46	12	Atlas		3,461	1
	12/31/2021 23:45	01/01/2022 00:00	15	2.07	165	0.78	24	Atlas		342	1
	01/01/2022 10:15	01/01/2022 21:15	660	2.07	175,701	0.78	24	Atlas		362,998	1
	02/22/2022 06:00	02/22/2022 12:30	270	1.07	241,190	0.50	6	Atlas		259,279	1
	02/24/2022 16:30	02/24/2022 19:45	195	1.01	146,424	0.47	6	Atlas		147,742	1
	03/06/2022 21:45	03/07/2022 08:30	645	1.32	155,800	0.67	3	Atlas		206,124	1
	03/18/2022 22:45	03/18/2022 23:00	15	0.24	32,163	0.21	1	Atlas		7,816	1
	04/06/2022 09:00	04/06/2022 10:00	60	0.95	37,428	0.45	6	Atlas		35,557	1
	04/13/2022 09:15	04/13/2022 09:30	15	1.34	593	0.67	1	Atlas		797	1
	04/13/2022 19:45	04/13/2022 20:45	60	1.34	135,416	0.67	1	Atlas		181,864	1
CSO111 Total										2,013,032	22
CSO113	07/01/2021 12:30	07/01/2021 13:30	60	1.22	37,314	0.63	3	Atlas		45,673	1

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	07/16/2021 22:00	07/16/2021 22:15	15	0.76	114,141	0.41	6	Atlas		86,291	1
	08/17/2021 14:00	08/17/2021 14:30	30	0.46	598,907	0.39	1	Atlas		275,497	1
	08/26/2021 19:15	08/26/2021 19:45	30	1.09	38,019	0.95	1	Atlas		41,479	1
	08/27/2021 14:45	08/27/2021 15:00	15	0.34	119,696	0.28	1	Atlas		40,098	1
	08/30/2021 12:30	08/30/2021 13:00	30	1.03	193,338	0.63	1	Atlas		198,364	1
	09/20/2021 05:00	09/20/2021 06:15	75	1.97	5,220	0.76	24	Atlas		10,294	1
	10/03/2021 09:45	10/03/2021 10:30	45	1.04	112,316	0.65	1	Atlas		117,033	1
	10/05/2021 20:30	10/05/2021 21:00	30	0.55	147,420	0.43	1	Atlas		81,228	1
	12/31/2021 23:45	01/01/2022 00:00	15	2.06	9,792	0.78	24	Atlas		20,172	1
	01/01/2022 13:30	01/01/2022 14:00	30	2.06	6,051	0.78	24	Atlas		12,466	1
	01/09/2022 05:15	01/09/2022 05:30	15	1.42	1,147	0.61	12	Atlas		1,633	1
	02/17/2022 15:00	02/17/2022 18:15	195	2.01	62,139	0.89	12	Atlas		124,714	1
	02/22/2022 10:15	02/22/2022 12:00	105	1.11	27,111	0.54	6	Atlas		30,039	1
	03/07/2022 06:00	03/07/2022 07:00	60	1.19	63,904	0.64	3	Atlas		76,301	1
	03/23/2022 05:30	03/23/2022 05:45	15	0.07	2,000,757	0.03	24	Atlas		146,055	1
	04/13/2022 19:45	04/13/2022 20:30	45	1.33	317,446	0.63	1	Atlas		422,203	1
CSO113 Total										1,729,541	17
CSO117	07/01/2021 12:45	07/01/2021 17:45	300	1.23	135,281,683	0.67	3	Atlas		166,802,315	1
	08/26/2021 19:00	08/26/2021 20:00	60	2.19	18,256,257	18.55	1	Atlas		40,035,971	1
	08/27/2021 14:45	08/27/2021 15:00	15	0.22	42,460,135	0.17	1	Atlas		9,341,230	1
	08/30/2021 12:30	08/31/2021 02:00	810	0.98	247,957,540	0.57	3	Atlas		243,246,347	1
	09/20/2021 08:15	09/20/2021 15:15	420	2.06	110,718,418	0.79	24	Atlas		228,079,940	1
	10/03/2021 09:30	10/03/2021 10:15	45	1.25	24,092,454	0.90	1	Atlas		30,043,290	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.56	14,022,834	0.43	1	Atlas		7,782,673	1
	01/01/2022 10:30	01/02/2022 08:30	1320	2.02	364,936,919	0.76	24	Atlas		737,902,451	1



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	01/09/2022 05:00	01/09/2022 18:00	780	1.44	294,426,131	0.62	12	Atlas		423,973,628	1
	02/03/2022 20:15	02/04/2022 02:00	345	2.11	83,762,742	0.68	48	Atlas		176,571,859	1
	02/17/2022 14:00	02/18/2022 11:45	1305	1.98	353,156,370	0.88	12	Atlas		700,309,081	1
	02/22/2022 11:15	02/23/2022 02:30	915	1.12	434,095,457	0.54	6	Atlas		485,752,817	1
	02/24/2022 18:45	02/25/2022 10:00	915	1.01	464,742,162	0.46	12	Atlas		470,783,810	1
	03/07/2022 07:30	03/07/2022 14:15	405	1.21	181,790,825	0.65	3	Atlas		219,966,898	1
	04/13/2022 19:45	04/14/2022 08:15	750	1.32	179,241,605	0.57	1	Atlas		236,598,919	1
CSO117 Total										4,177,191,229	15
CSO118	07/01/2021 11:15	07/01/2021 15:00	225	1.16	3,863,963	0.62	3	Atlas		4,470,605	1
	07/08/2021 18:45	07/08/2021 19:45	60	0.25	2,921,483	0.22	1	Atlas		739,135	1
	07/10/2021 18:45	07/11/2021 00:15	330	0.99	1,179,991	0.45	12	Atlas		1,168,191	1
	07/12/2021 07:15	07/12/2021 10:45	210	0.38	2,931,184	0.16	12	Atlas		1,107,988	1
	07/16/2021 22:00	07/17/2021 03:45	345	0.76	2,404,955	0.41	6	Atlas		1,820,551	1
	08/09/2021 10:15	08/09/2021 11:15	60	0.35	997,837	0.23	3	Atlas		353,234	1
	08/17/2021 14:15	08/17/2021 15:00	45	0.31	874,929	0.27	1	Atlas		270,353	1
	08/26/2021 19:15	08/26/2021 21:00	105	1.61	3,948,139	4.02	1	Atlas		6,372,297	1
	08/27/2021 15:00	08/27/2021 16:00	60	0.21	3,921,074	0.17	1	Atlas		807,741	1
	08/30/2021 12:00	08/30/2021 14:15	135	1.07	2,519,013	0.63	3	Atlas		2,685,268	1
	09/05/2021 03:30	09/05/2021 10:15	405	1.03	1,477,262	0.46	12	Atlas		1,517,148	1
	09/19/2021 15:00	09/19/2021 16:30	90	2.02	908,518	0.78	24	Atlas		1,831,572	1
	09/20/2021 03:45	09/20/2021 11:15	450	2.02	3,162,081	0.78	24	Atlas		6,374,755	1
	09/22/2021 00:45	09/22/2021 15:30	885	0.97	1,502,361	0.37	24	Atlas		1,464,802	1
	10/03/2021 09:30	10/03/2021 11:30	120	1.18	5,831,514	0.81	1	Atlas		6,898,681	1
	10/05/2021 20:30	10/05/2021 21:45	75	0.55	4,298,142	0.42	1	Atlas		2,368,276	1
	10/06/2021 16:30	10/06/2021 17:15	45	0.21	1,682,828	0.15	1	Atlas		350,028	1

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	10/15/2021 08:30	10/15/2021 09:15	45	0.49	1,901,563	0.19	12	Atlas		924,160	1
	10/15/2021 17:30	10/15/2021 18:15	45	0.49	413,209	0.19	12	Atlas		200,820	1
	10/24/2021 07:30	10/24/2021 08:15	45	0.26	442,956	0.17	3	Atlas		112,954	1
	10/25/2021 05:00	10/25/2021 06:15	75	0.43	2,483,343	0.28	1	Atlas		1,080,254	1
	11/11/2021 14:00	11/11/2021 15:00	60	0.34	307,287	0.20	3	Atlas		104,478	1
	11/18/2021 05:15	11/18/2021 06:15	60	0.36	129,952	0.20	6	Atlas		47,303	1
	11/21/2021 09:15	11/21/2021 10:00	45	0.33	121,298	0.15	6	Atlas		39,786	1
	12/06/2021 03:00	12/06/2021 08:15	315	0.63	543,427	0.29	6	Atlas		342,359	1
	12/11/2021 00:00	12/11/2021 11:00	660	1.03	2,678,031	0.47	12	Atlas		2,769,084	1
	12/16/2021 16:00	12/16/2021 17:15	75	0.29	1,458,945	0.19	3	Atlas		428,930	1
	12/17/2021 17:15	12/17/2021 22:00	285	0.47	37,976	0.19	12	Atlas		17,811	1
	12/28/2021 23:00	12/29/2021 02:00	180	0.71	1,297,200	0.30	3	Atlas		922,309	1
	12/31/2021 23:30	01/01/2022 21:45	1335	2.04	3,356,719	0.77	24	Atlas		6,857,777	1
	01/08/2022 22:45	01/09/2022 08:15	570	1.45	3,019,834	0.62	12	Atlas		4,363,660	1
	04/21/2022 06:15	04/21/2022 06:30	15	0.21	36,930	0.10	12	Atlas		7,866	1
	05/03/2022 05:30	05/03/2022 07:15	105	0.67	1,432,965	0.31	12	Atlas		955,788	1
	05/14/2022 15:30	05/14/2022 16:00	30	0.17	2,133,762	0.11	3	Atlas		362,740	1
	05/16/2022 01:30	05/16/2022 02:00	30	0.19	20,855	0.15	1	Atlas		4,046	1
	05/18/2022 15:30	05/18/2022 16:15	45	0.28	1,867,551	0.22	1	Atlas		524,782	1
	05/25/2022 17:00	05/25/2022 18:00	60	0.45	1,293,953	0.37	1	Atlas		575,809	1
	05/26/2022 11:15	05/26/2022 12:00	45	0.73	507,545	0.26	12	Atlas		372,538	1
	05/26/2022 21:45	05/26/2022 22:45	60	0.73	1,282,424	0.26	12	Atlas		941,300	1
	06/02/2022 00:30	06/02/2022 02:15	105	0.70	1,861,493	0.50	1	Atlas		1,301,184	1
	06/26/2022 20:30	06/26/2022 21:00	30	0.75	470,303	0.56	1	Atlas		353,668	1
CSO118 Total										64,212,029	41



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CSO119	07/01/2021 11:00	07/01/2021 14:15	195	1.16	326,783	0.62	3	Atlas		378,088	1
	07/08/2021 18:45	07/08/2021 19:15	30	0.25	291,249	0.22	1	Atlas		73,686	1
	07/10/2021 18:30	07/10/2021 23:45	315	0.99	274,382	0.45	12	Atlas		271,638	1
	07/12/2021 09:45	07/12/2021 10:15	30	0.38	180,912	0.16	12	Atlas		68,385	1
	07/16/2021 21:45	07/17/2021 03:15	330	0.76	329,904	0.41	6	Atlas		249,738	1
	08/09/2021 10:00	08/09/2021 10:30	30	0.35	214,416	0.23	3	Atlas		75,903	1
	08/17/2021 14:00	08/17/2021 14:45	45	0.31	358,812	0.27	1	Atlas		110,873	1
	08/26/2021 19:00	08/26/2021 20:15	75	1.61	208,363	4.02	1	Atlas		336,298	1
	08/27/2021 14:45	08/27/2021 15:30	45	0.21	567,589	0.17	1	Atlas		116,923	1
	08/30/2021 11:45	08/30/2021 13:45	120	1.07	395,802	0.63	3	Atlas		421,925	1
	09/05/2021 03:15	09/05/2021 09:30	375	1.03	327,545	0.46	12	Atlas		336,388	1
	09/19/2021 14:45	09/19/2021 15:30	45	2.02	57,041	0.78	24	Atlas		114,994	1
	09/20/2021 03:30	09/20/2021 09:30	360	2.02	376,045	0.78	24	Atlas		758,106	1
	09/22/2021 00:30	09/22/2021 01:15	45	0.97	102,689	0.37	24	Atlas		100,122	1
	09/22/2021 11:30	09/22/2021 12:00	30	0.97	68,871	0.37	24	Atlas		67,149	1
	10/03/2021 09:15	10/03/2021 11:00	105	1.18	198,749	0.81	1	Atlas		235,120	1
	10/05/2021 20:15	10/05/2021 21:15	60	0.55	323,805	0.42	1	Atlas		178,417	1
	10/06/2021 16:15	10/06/2021 16:45	30	0.21	278,984	0.15	1	Atlas		58,029	1
	10/15/2021 08:30	10/15/2021 09:00	30	0.49	86,366	0.19	12	Atlas		41,974	1
	10/15/2021 17:15	10/15/2021 18:00	45	0.49	230,675	0.19	12	Atlas		112,108	1
	10/24/2021 07:15	10/24/2021 07:45	30	0.26	143,670	0.17	3	Atlas		36,636	1
	10/25/2021 04:45	10/25/2021 05:45	60	0.43	358,270	0.28	1	Atlas		155,847	1
	12/06/2021 02:45	12/06/2021 07:45	300	0.63	149,196	0.29	6	Atlas		93,993	1
	12/11/2021 00:00	12/11/2021 06:15	375	1.03	371,808	0.47	12	Atlas		384,449	1
	12/16/2021 16:00	12/16/2021 16:30	30	0.29	221,638	0.19	3	Atlas		65,162	1

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	12/29/2021 00:00	12/29/2021 01:15	75	0.71	145,067	0.30	3	Atlas		103,143	1
	12/31/2021 23:15	01/01/2022 21:15	1320	2.04	620,695	0.77	24	Atlas		1,268,081	1
	01/08/2022 22:30	01/09/2022 06:45	495	1.45	476,817	0.62	12	Atlas		689,001	1
	02/03/2022 08:45	02/03/2022 14:30	345	2.11	146,381	0.69	48	Atlas		309,302	1
	02/17/2022 08:30	02/17/2022 18:30	600	1.98	686,264	0.88	12	Atlas		1,358,117	1
	02/22/2022 07:00	02/22/2022 12:45	345	1.13	730,005	0.55	6	Atlas		822,716	1
	02/24/2022 15:30	02/25/2022 01:30	600	1.01	786,952	0.46	12	Atlas		791,674	1
	03/06/2022 22:00	03/07/2022 08:45	645	1.18	556,523	0.64	3	Atlas		654,471	1
	03/18/2022 22:45	03/18/2022 23:15	30	0.31	249,891	0.26	1	Atlas		77,716	1
	04/06/2022 08:45	04/06/2022 14:45	360	0.98	596,402	0.47	6	Atlas		585,666	1
	04/13/2022 09:15	04/13/2022 10:00	45	1.31	81,292	0.59	1	Atlas		106,736	1
	04/13/2022 19:30	04/13/2022 21:15	105	1.31	298,375	0.59	1	Atlas		391,767	1
	04/16/2022 00:00	04/16/2022 00:30	30	0.20	309,661	0.13	1	Atlas		61,003	1
	04/21/2022 06:00	04/21/2022 06:15	15	0.21	78,437	0.10	12	Atlas		16,707	1
	05/03/2022 05:15	05/03/2022 13:30	495	0.67	282,065	0.31	12	Atlas		188,137	1
	05/18/2022 15:15	05/18/2022 16:00	45	0.28	360,379	0.22	1	Atlas		101,267	1
	05/25/2022 16:45	05/25/2022 17:45	60	0.45	385,842	0.37	1	Atlas		171,700	1
	05/26/2022 11:00	05/26/2022 11:30	30	0.73	110,409	0.26	12	Atlas		81,040	1
	05/26/2022 21:30	05/26/2022 22:15	45	0.73	157,347	0.26	12	Atlas		115,492	1
	06/02/2022 01:00	06/02/2022 01:15	15	0.70	48,187	0.50	1	Atlas		33,683	1
	06/22/2022 15:45	06/22/2022 16:15	30	0.16	255,200	0.14	1	Atlas		40,577	1
	06/26/2022 20:15	06/26/2022 21:30	75	0.75	393,540	0.56	1	Atlas		295,942	1
CSO119 Total										13,105,891	47
CSO120	08/26/2021 19:45	08/26/2021 20:00	15	1.46	14,868	2.28	1	Atlas		21,708	1
	08/30/2021 11:45	08/30/2021 12:45	60	1.10	59,158	0.65	3	Atlas		64,956	1



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	02/02/2022 03:15	02/02/2022 03:30	15	1.18	946	0.57	6	Atlas		1,112	1
	02/24/2022 15:15	02/24/2022 16:30	75	1.03	3,052	0.47	12	Atlas		3,134	1
	03/07/2022 01:00	03/07/2022 01:15	15	1.12	36,553	0.66	3	Atlas		41,085	1
	03/07/2022 14:45	03/07/2022 15:00	15	1.12	35,468	0.66	3	Atlas		39,866	1
	03/19/2022 00:30	03/19/2022 01:00	30	0.32	260,839	0.27	1	Atlas		83,208	1
	03/30/2022 22:45	03/30/2022 23:00	15	0.26	61,649	0.12	3	Atlas		15,905	1
	04/06/2022 08:45	04/06/2022 11:45	180	0.96	18,944	0.45	6	Atlas		18,110	1
	04/13/2022 13:30	04/14/2022 14:15	1485	1.28	60,173	0.55	1	Atlas		77,263	1
	04/15/2022 23:45	04/16/2022 06:45	420	0.19	27,587	0.13	1	Atlas		5,186	1
	04/21/2022 05:45	04/21/2022 06:00	15	0.20	736	0.09	12	Atlas		149	1
	05/03/2022 08:00	05/03/2022 08:15	15	0.62	82,943	0.30	3	Atlas		51,756	1
	05/03/2022 19:00	05/03/2022 19:15	15	0.62	453	0.30	3	Atlas		283	1
	05/16/2022 00:30	05/16/2022 00:45	15	0.14	68,183	0.11	1	Atlas		9,750	1
CSO120 Total										433,471	15
CSO121	07/01/2021 11:15	07/01/2021 14:00	165	1.09	116,901	0.57	3	Atlas		127,422	1
	07/08/2021 18:45	07/08/2021 19:15	30	0.37	187,243	0.32	1	Atlas		68,905	1
	07/10/2021 08:15	07/10/2021 08:30	15	0.16	77,399	0.13	1	Atlas		12,384	1
	07/10/2021 18:45	07/10/2021 23:45	300	1.03	93,679	0.47	12	Atlas		96,209	1
	07/12/2021 07:15	07/12/2021 10:30	195	0.43	131,439	0.19	12	Atlas		56,781	1
CSO121 Total										361,701	5
CSO125	07/01/2021 12:30	07/01/2021 13:45	75	1.02	22,551	0.50	3	Atlas		22,957	1
	07/06/2021 16:00	07/06/2021 16:15	15	0.14	68,353	0.12	1	Atlas		9,433	1
	07/10/2021 23:00	07/10/2021 23:30	30	0.95	4,326	0.44	12	Atlas		4,118	1
	07/16/2021 22:00	07/17/2021 03:45	345	0.73	29,872	0.40	6	Atlas		21,837	1
	08/09/2021 10:15	08/11/2021 02:00	2385	0.39	2,134,873	0.26	3	Atlas		841,140	1

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	08/27/2021 15:30	08/29/2021 04:15	2205	0.52	635,280	0.44	1	Atlas		327,804	1
	08/30/2021 12:30	08/30/2021 12:45	15	1.28	151	0.78	3	Atlas		194	1
	08/31/2021 15:45	09/01/2021 05:00	795	0.48	8,059	0.22	12	Atlas		3,852	1
	09/05/2021 03:15	09/06/2021 02:30	1395	1.08	112,145	0.49	12	Atlas		121,117	1
	09/20/2021 04:00	09/22/2021 18:30	3750	1.46	218,617	0.62	6	Atlas		319,399	1
	10/03/2021 09:45	10/03/2021 11:30	105	1.09	3,203	0.73	1	Atlas		3,484	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.67	9,163	0.46	1	Atlas		6,139	1
	10/08/2021 14:30	10/08/2021 14:45	15	0.12	161,268	0.11	1	Atlas		20,158	1
	10/15/2021 08:45	10/16/2021 02:15	1050	0.46	192,411	0.18	24	Atlas		89,086	1
	10/24/2021 07:45	10/25/2021 06:15	1350	0.23	1,283,674	0.16	3	Atlas		299,096	1
	10/29/2021 21:00	10/29/2021 23:00	120	0.53	90,812	0.21	24	Atlas		48,403	1
	11/11/2021 14:30	11/11/2021 22:30	480	0.35	59,023	0.20	3	Atlas		20,894	1
	11/18/2021 05:45	11/18/2021 15:30	585	0.36	65,761	0.20	6	Atlas		23,805	1
	11/21/2021 09:15	11/21/2021 23:30	855	0.34	164,203	0.16	6	Atlas		55,993	1
	11/25/2021 08:15	11/25/2021 23:15	900	0.30	219,164	0.16	6	Atlas		66,187	1
	12/06/2021 03:00	12/06/2021 16:30	810	0.72	65,226	0.33	6	Atlas		46,767	1
	12/11/2021 00:00	12/11/2021 07:00	420	0.99	536,118	0.45	12	Atlas		530,757	1
	12/16/2021 15:45	12/16/2021 17:00	75	0.29	424,738	0.19	3	Atlas		121,475	1
	12/17/2021 17:30	12/17/2021 22:00	270	0.47	43,550	0.19	12	Atlas		20,643	1
	12/28/2021 23:00	12/29/2021 03:45	285	0.70	342,642	0.29	3	Atlas		240,192	1
	12/31/2021 23:30	01/02/2022 03:15	1665	2.05	781,020	0.77	24	Atlas		1,601,871	1
	01/08/2022 21:30	01/09/2022 13:30	960	1.46	372,392	0.63	12	Atlas		543,693	1
	01/19/2022 16:45	01/19/2022 22:30	345	0.17	134,478	0.09	3	Atlas		22,323	1
	02/03/2022 09:00	02/03/2022 16:45	485	2.13	58,539	0.69	48	Atlas		124,747	1
	02/17/2022 08:45	02/18/2022 00:45	960	2.02	512,275	0.89	12	Atlas		1,032,234	1



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	02/22/2022 07:30	02/22/2022 13:00	330	1.04	226,788	0.51	6	Atlas		236,313	1
	02/24/2022 15:45	02/25/2022 01:15	570	1.02	146,504	0.47	6	Atlas		149,288	1
	03/18/2022 23:00	03/19/2022 01:00	120	0.29	11,228	0.24	1	Atlas		3,245	1
	04/06/2022 09:15	04/06/2022 10:00	45	0.92	24,536	0.43	6	Atlas		22,622	1
	04/13/2022 09:30	04/13/2022 09:45	15	1.25	4,598	0.58	1	Atlas		5,766	1
	04/14/2022 00:45	04/14/2022 04:00	195	1.25	62,647	0.58	1	Atlas		78,559	1
	05/14/2022 14:30	05/14/2022 14:45	15	0.24	51	0.13	1	Atlas		12	1
	05/16/2022 01:00	05/16/2022 01:15	15	0.24	11,674	0.19	1	Atlas		2,813	1
	05/18/2022 15:45	05/18/2022 16:00	15	0.30	96	0.25	1	Atlas		29	1
	05/21/2022 16:30	05/21/2022 16:45	15	0.16	6,001	0.13	1	Atlas		984	1
	06/22/2022 16:00	06/22/2022 16:15	15	0.35	1,593	0.31	1	Atlas		559	1
CSO125 Total										7,089,992	41
CSO126	07/01/2021 12:45	07/01/2021 13:30	45	1.02	3,314	0.50	3	Atlas		3,373	1
	07/10/2021 23:00	07/10/2021 23:15	15	0.95	947	0.44	12	Atlas		901	1
	07/16/2021 22:00	07/16/2021 22:15	15	0.73	19,765	0.40	6	Atlas		14,449	1
	08/27/2021 14:45	08/27/2021 15:00	15	0.52	7,247	0.44	1	Atlas		3,739	1
	09/20/2021 05:00	09/20/2021 05:15	15	1.46	829	0.62	6	Atlas		1,211	1
	10/15/2021 17:30	10/15/2021 17:45	15	0.46	1,874	0.18	24	Atlas		868	1
	12/11/2021 01:45	12/11/2021 02:00	15	0.99	3,935	0.45	12	Atlas		3,895	1
	01/01/2022 11:15	01/01/2022 20:30	555	2.05	6,570	0.77	24	Atlas		13,475	1
	01/09/2022 03:30	01/09/2022 05:00	90	1.46	10,305	0.63	12	Atlas		15,046	1
	02/03/2022 10:15	02/03/2022 14:15	240	2.13	16,839	0.69	48	Atlas		35,883	1
	02/17/2022 11:15	02/17/2022 23:30	735	2.02	87,355	0.89	12	Atlas		176,021	1
	02/22/2022 08:15	02/22/2022 15:30	435	1.04	112,581	0.51	6	Atlas		117,310	1
	02/24/2022 16:00	02/24/2022 22:15	375	1.02	115,558	0.47	6	Atlas		117,754	1

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	03/07/2022 06:00	03/07/2022 07:15	75	1.29	41,813	0.68	3	Atlas		53,938	1
	04/06/2022 13:45	04/06/2022 14:00	15	0.92	708	0.43	6	Atlas		653	1
	05/25/2022 17:15	05/25/2022 17:30	15	0.74	1,216	0.52	1	Atlas		895	1
	06/02/2022 00:30	06/02/2022 00:45	15	0.73	663	0.53	1	Atlas		484	1
	06/26/2022 20:30	06/26/2022 20:45	15	0.52	2,682	0.37	1	Atlas		1,389	1
CSO126 Total										561,286	18
CSO127	07/01/2021 11:15	07/01/2021 14:30	195	1.11	380,006	0.58	3	Atlas		420,287	1
	07/06/2021 15:15	07/06/2021 15:30	15	0.15	2,209	0.13	1	Atlas		334	1
	07/08/2021 18:30	07/08/2021 19:45	75	0.33	45,177	0.28	1	Atlas		14,773	1
	07/10/2021 18:45	07/11/2021 06:00	675	1.27	50,749	0.42	12	Atlas		64,249	1
	07/12/2021 07:00	07/12/2021 08:30	90	1.27	7,012	0.42	12	Atlas		8,878	1
	07/12/2021 18:15	07/12/2021 19:00	45	1.27	451	0.42	12	Atlas		571	1
	07/16/2021 22:00	07/17/2021 03:45	345	0.67	423,762	0.37	6	Atlas		284,768	1
	08/09/2021 10:00	08/09/2021 13:15	195	0.40	132,965	0.26	3	Atlas		52,920	1
	08/17/2021 13:45	08/17/2021 14:45	60	0.36	71,785	0.24	3	Atlas		26,202	1
	08/19/2021 06:15	08/19/2021 07:15	60	0.24	5,164	0.14	3	Atlas		1,213	1
	08/26/2021 19:45	08/26/2021 20:00	15	0.22	4,890	0.19	1	Atlas		1,056	1
	08/27/2021 14:30	08/27/2021 15:45	75	0.64	657,463	0.55	1	Atlas		421,434	1
	08/30/2021 12:00	08/30/2021 19:00	420	1.21	1,346,268	0.74	1	Atlas		1,627,638	1
	08/31/2021 13:15	08/31/2021 22:30	555	0.47	70,507	0.22	12	Atlas		33,350	1
	09/05/2021 03:00	09/05/2021 11:00	480	1.02	170,084	0.46	12	Atlas		173,826	1
	09/08/2021 04:15	09/08/2021 05:00	45	0.09	61,408	0.06	1	Atlas		5,465	1
	09/19/2021 15:00	09/19/2021 16:45	105	1.57	63,161	0.65	6	Atlas		99,162	1
	09/20/2021 03:30	09/20/2021 12:15	525	1.57	168,395	0.65	6	Atlas		264,380	1
	09/22/2021 00:00	09/22/2021 17:00	1020	1.03	218,241	0.39	24	Atlas		224,133	1



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	10/03/2021 09:30	10/03/2021 17:45	495	0.97	841,112	0.59	1	Atlas		815,878	1
	10/05/2021 20:30	10/05/2021 21:30	60	0.57	56,799	0.39	1	Atlas		32,205	1
	10/06/2021 16:15	10/06/2021 17:00	45	0.20	25,779	0.12	1	Atlas		5,078	1
	10/08/2021 14:15	10/08/2021 14:45	30	0.23	9,195	0.20	1	Atlas		2,078	1
	10/15/2021 08:45	10/15/2021 18:15	570	0.49	56,163	0.19	24	Atlas		27,800	1
	10/24/2021 07:30	10/24/2021 07:45	15	0.18	3,140	0.12	3	Atlas		565	1
	10/25/2021 04:45	10/25/2021 06:00	75	0.43	44,810	0.27	1	Atlas		19,134	1
	10/28/2021 14:15	10/28/2021 14:45	30	0.24	12,042	0.12	6	Atlas		2,830	1
	10/29/2021 21:45	10/29/2021 22:45	60	0.52	15,753	0.20	24	Atlas		8,176	1
	10/30/2021 08:00	10/30/2021 08:45	45	0.52	7,889	0.20	24	Atlas		4,095	1
	11/11/2021 14:00	11/11/2021 14:45	45	0.36	11,050	0.21	3	Atlas		3,989	1
	11/18/2021 05:00	11/18/2021 06:00	60	0.37	12,734	0.20	6	Atlas		4,673	1
	11/21/2021 09:00	11/21/2021 09:45	45	0.33	13,815	0.15	6	Atlas		4,504	1
	11/25/2021 08:15	11/25/2021 08:30	15	0.31	9,653	0.17	6	Atlas		2,963	1
	12/06/2021 03:00	12/06/2021 08:15	315	0.69	27,049	0.31	6	Atlas		18,610	1
	12/10/2021 23:45	12/11/2021 06:30	405	0.95	20,713	0.44	12	Atlas		19,719	1
	12/16/2021 15:30	12/16/2021 17:00	90	0.29	28,506	0.19	3	Atlas		8,381	1
	12/17/2021 17:00	12/17/2021 23:30	390	0.48	17,619	0.19	12	Atlas		8,404	1
	12/28/2021 23:15	12/29/2021 01:45	150	0.69	19,798	0.29	3	Atlas		13,680	1
	12/31/2021 23:30	01/01/2022 21:45	1335	2.07	84,339	0.78	24	Atlas		174,581	1
	01/08/2022 21:30	01/09/2022 13:45	975	1.44	44,310	0.62	12	Atlas		63,806	1
	02/02/2022 07:45	02/02/2022 10:15	150	2.13	3,665	0.69	48	Atlas		7,825	1
	02/02/2022 20:15	02/03/2022 00:15	240	2.13	2,504	0.69	48	Atlas		5,346	1
	02/03/2022 08:45	02/03/2022 17:00	495	2.13	76,641	0.69	48	Atlas		163,629	1
	02/17/2022 08:30	02/17/2022 19:30	660	2.01	132,015	0.89	12	Atlas		265,086	1

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	02/22/2022 01:45	02/22/2022 13:00	675	1.04	202,412	0.50	6	Atlas		209,699	1
	02/24/2022 15:30	02/25/2022 01:45	615	1.00	157,224	0.47	6	Atlas		157,224	1
	03/06/2022 22:15	03/07/2022 09:00	645	1.34	124,122	0.67	3	Atlas		166,572	1
	03/18/2022 22:45	03/18/2022 23:30	45	0.24	48,397	0.20	1	Atlas		11,422	1
	03/30/2022 23:15	03/30/2022 23:30	15	0.32	3,927	0.15	12	Atlas		1,261	1
	04/06/2022 08:30	04/06/2022 15:45	435	0.91	61,808	0.43	6	Atlas		56,245	1
	04/11/2022 21:45	04/11/2022 22:45	60	0.28	24,821	0.10	24	Atlas		7,074	1
	04/13/2022 09:30	04/13/2022 10:00	30	1.29	2,448	0.61	1	Atlas		3,155	1
	04/13/2022 19:45	04/14/2022 04:15	510	1.29	573,612	0.61	1	Atlas		739,386	1
	04/16/2022 00:00	04/16/2022 01:15	75	0.19	80,641	0.13	1	Atlas		15,402	1
	04/18/2022 04:45	04/18/2022 05:45	60	0.28	43,771	0.16	6	Atlas		12,431	1
	04/21/2022 05:45	04/21/2022 06:45	60	0.23	99,732	0.11	12	Atlas		23,337	1
	04/30/2022 21:30	04/30/2022 22:00	30	0.16	11,849	0.12	1	Atlas		1,884	1
	05/03/2022 05:00	05/03/2022 13:45	525	0.59	44,014	0.27	12	Atlas		25,924	1
CSO127 Total										6,838,693	58
CSO130	08/30/2021 13:00	08/30/2021 13:15	15	1.14	5,564	0.67	3	Atlas		6,321	1
	09/20/2021 06:00	09/20/2021 06:15	15	1.83	1,791	0.73	6	Atlas		3,287	1
	10/03/2021 10:00	10/03/2021 10:30	30	1.49	88,442	1.52	1	Atlas		131,779	1
	10/05/2021 21:00	10/05/2021 21:15	15	0.65	4,608	0.43	1	Atlas		2,977	1
	10/15/2021 08:30	10/15/2021 08:45	15	0.53	3,522	0.21	12	Atlas		1,856	1
	02/22/2022 10:15	02/22/2022 10:30	15	1.26	2,004	0.60	6	Atlas		2,521	1
CSO130 Total										148,740	6
CSO131	07/08/2021 18:45	07/08/2021 19:15	30	0.51	174,494	0.44	1	Atlas		88,992	1
	08/30/2021 13:00	08/30/2021 13:15	15	1.14	39,140	0.67	3	Atlas		44,463	1
	09/20/2021 06:00	09/20/2021 06:15	15	1.83	8,286	0.73	6	Atlas		15,205	1



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	10/03/2021 10:30	10/03/2021 10:45	15	1.49	5,267	1.52	1	Atlas		7,848	1
	10/05/2021 20:45	10/05/2021 21:15	30	0.65	61,201	0.43	1	Atlas		39,536	1
	12/11/2021 02:00	12/11/2021 02:15	15	0.96	1,923	0.44	12	Atlas		1,852	1
	02/22/2022 10:30	02/22/2022 10:45	15	1.26	5,667	0.60	6	Atlas		7,129	1
	03/07/2022 06:15	03/07/2022 07:00	45	1.15	49,560	0.67	3	Atlas		56,746	1
	04/06/2022 10:00	04/06/2022 10:15	15	0.92	15,188	0.43	6	Atlas		13,973	1
	05/03/2022 13:15	05/03/2022 13:30	15	0.62	48,703	0.30	3	Atlas		29,003	1
	06/02/2022 00:30	06/02/2022 00:45	15	0.56	81,815	0.37	3	Atlas		45,489	1
	06/22/2022 16:00	06/22/2022 16:15	15	0.33	132,687	0.29	1	Atlas		44,052	1
	06/26/2022 20:30	06/26/2022 21:00	30	0.60	148,688	0.43	1	Atlas		88,618	1
CSO131 Total										482,905	13
CSO132	07/01/2021 12:30	07/01/2021 23:15	645	0.91	10,350	0.44	3	Atlas		9,388	1
	07/08/2021 18:15	07/08/2021 23:15	300	0.47	456,951	0.41	1	Atlas		213,853	1
	07/10/2021 22:45	07/12/2021 23:15	2910	1.07	60	0.49	12	Atlas		64	1
	07/16/2021 21:45	07/16/2021 23:15	90	0.67	20,059	0.37	6	Atlas		13,460	1
	08/27/2021 14:30	08/27/2021 23:15	525	0.17	1,460,987	0.14	1	Atlas		252,751	1
	08/30/2021 11:30	08/30/2021 23:15	705	1.18	567,627	0.70	3	Atlas		670,368	1
	09/05/2021 03:15	09/05/2021 23:15	1200	1.09	88	0.49	12	Atlas		96	1
	09/20/2021 04:30	09/20/2021 23:15	1125	1.55	22,358	0.65	6	Atlas		34,610	1
	10/03/2021 09:15	10/03/2021 23:15	840	1.36	654,720	0.99	1	Atlas		893,039	1
	10/05/2021 20:15	10/05/2021 23:15	180	0.69	101,344	0.47	1	Atlas		70,333	1
	10/15/2021 17:15	10/15/2021 23:15	360	0.54	54,946	0.21	12	Atlas		29,561	1
	12/11/2021 01:30	12/11/2021 23:15	1305	1.01	184,577	0.46	12	Atlas		186,054	1
	12/31/2021 23:30	01/05/2022 23:15	7185	1.99	12,933,123	0.75	24	Atlas		25,762,782	1
	01/09/2022 03:15	01/09/2022 23:15	1200	1.45	1,450,460	0.63	12	Atlas		2,107,519	1

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	02/17/2022 13:45	02/21/2022 23:15	6330	1.98	16,889,853	0.88	12	Atlas		33,391,239	1
	02/22/2022 08:00	02/26/2022 00:00	5280	1.22	59,203,461	0.59	6	Atlas		72,050,613	1
	03/06/2022 22:00	03/09/2022 23:15	4395	1.17	21,227,597	0.69	3	Atlas		24,899,971	1
	03/18/2022 22:45	03/18/2022 23:30	45	0.32	1,401	0.27	1	Atlas		450	1
	04/06/2022 09:45	04/06/2022 23:15	810	0.95	7,697	0.45	6	Atlas		7,320	1
	04/13/2022 09:15	04/13/2022 23:15	840	1.24	215,014	0.55	1	Atlas		267,047	1
	05/03/2022 13:00	05/03/2022 23:30	630	0.68	2,354	0.31	12	Atlas		1,598	1
	05/25/2022 16:45	05/25/2022 23:15	390	0.79	231,000	0.60	1	Atlas		182,028	1
	05/26/2022 11:00	05/26/2022 23:15	735	0.80	1,046	0.28	12	Atlas		833	1
	06/02/2022 00:00	06/02/2022 23:15	1395	0.57	302,672	0.38	1	Atlas		173,734	1
	06/22/2022 15:45	06/22/2022 23:15	450	0.37	84,525	0.32	1	Atlas		31,021	1
	06/26/2022 20:15	06/26/2022 23:15	180	0.57	81,556	0.42	1	Atlas		46,568	1
CSO132 Total										161,296,298	26
CSO140	02/04/2022 13:15	02/04/2022 15:15	120	0.02	43,778	0.01	3	Atlas		1,051	1
	02/17/2022 12:45	02/17/2022 16:45	240	1.98	37,569	0.88	12	Atlas		74,236	1
	02/22/2022 09:30	02/22/2022 12:45	195	1.17	951,556	0.57	6	Atlas		1,113,321	1
	02/24/2022 16:45	02/24/2022 21:45	300	1.02	269,543	0.47	12	Atlas		275,473	1
	03/07/2022 06:30	03/07/2022 08:30	120	1.13	585,862	0.66	3	Atlas		661,439	1
	04/06/2022 13:00	04/06/2022 13:30	30	0.96	394	0.45	6	Atlas		380	1
	04/13/2022 14:15	04/13/2022 20:15	360	1.28	62,098	0.57	1	Atlas		79,486	1
	04/14/2022 08:15	04/14/2022 20:45	750	1.28	8,240	0.57	1	Atlas		10,547	1
	05/06/2022 04:00	05/06/2022 04:30	30	0.20	19	0.07	24	Atlas		4	1
	05/16/2022 00:30	05/16/2022 00:45	15	0.17	36	0.13	1	Atlas		6	1
CSO140 Total										2,215,942	10
CSO141	07/10/2021 18:30	07/10/2021 18:45	15	1.03	43	0.47	12	Atlas		45	1



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	08/30/2021 12:45	08/30/2021 18:30	345	1.10	16,556	0.65	3	Atlas		18,178	1
	09/19/2021 15:00	09/19/2021 15:15	15	2.00	10,070	0.77	24	Atlas		20,129	1
	09/20/2021 04:30	09/20/2021 09:15	285	2.00	5,463	0.77	24	Atlas		10,920	1
	10/03/2021 09:45	10/03/2021 10:00	15	1.39	66,396	1.07	1	Atlas		91,959	1
	10/05/2021 20:30	10/05/2021 21:00	30	0.54	9,285	0.39	1	Atlas		4,968	1
	10/24/2021 08:00	10/24/2021 08:15	15	0.26	6,608	0.18	3	Atlas		1,744	1
	12/06/2021 07:15	12/06/2021 07:30	15	0.66	268	0.30	6	Atlas		176	1
	12/11/2021 01:45	12/11/2021 02:00	15	0.97	72	0.44	12	Atlas		70	1
	01/08/2022 20:30	01/09/2022 05:15	525	1.45	4,276	0.63	12	Atlas		6,204	1
	02/17/2022 14:15	02/17/2022 18:15	240	1.97	214	0.87	12	Atlas		422	1
	02/22/2022 10:15	02/22/2022 10:45	30	1.18	121	0.57	6	Atlas		142	1
	03/07/2022 06:15	03/07/2022 07:45	90	1.12	334	0.66	3	Atlas		375	1
	03/18/2022 22:45	03/18/2022 23:00	15	0.32	87	0.27	1	Atlas		28	1
	04/06/2022 10:00	04/06/2022 10:15	15	0.96	59	0.45	6	Atlas		57	1
	04/13/2022 19:45	04/13/2022 20:45	60	1.28	17,227	0.55	1	Atlas		22,120	1
	05/03/2022 06:15	05/03/2022 06:30	15	0.62	6,380	0.30	3	Atlas		3,981	1
	06/02/2022 00:15	06/02/2022 03:30	195	0.65	77,328	0.45	1	Atlas		49,877	1
	06/26/2022 20:30	06/26/2022 22:15	105	0.64	21,971	0.46	1	Atlas		14,040	1
CSO141 Total										245,434	19
CSO142	07/01/2021 13:00	07/01/2021 13:15	15	1.24	8,922	0.65	3	Atlas		11,073	1
	07/10/2021 23:00	07/10/2021 23:15	15	0.95	1,008	0.43	12	Atlas	Retained by Sheads Branch.	952	1
	07/16/2021 22:00	07/16/2021 22:15	15	0.73	16,403	0.40	6	Atlas	Retained by Sheads Branch.	12,024	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.37	5,772	0.24	3	Atlas	Retained by Sheads Branch.	2,124	1
	08/17/2021 14:00	08/17/2021 14:30	30	0.21	175,091	0.19	1	Atlas	Retained by Sheads Branch.	37,645	1

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	08/26/2021 19:15	08/26/2021 19:45	30	1.68	43,416	4.68	1	Atlas	Retained by Sneads Branch.	72,766	1
	08/27/2021 14:45	08/27/2021 15:15	30	0.36	48,495	0.30	1	Atlas		17,652	1
	08/30/2021 12:45	08/30/2021 13:00	15	0.93	30,378	0.56	1	Atlas		28,221	1
	09/20/2021 04:30	09/20/2021 06:00	90	1.99	6,522	0.76	24	Atlas		12,973	1
	10/03/2021 09:30	10/03/2021 10:15	45	1.11	38,474	0.73	1	Atlas		42,629	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.55	44,433	0.43	1	Atlas	Retained by Sneads Branch.	24,260	1
	10/15/2021 08:30	10/15/2021 08:45	15	0.46	6,258	0.19	12	Atlas	Retained by Sneads Branch.	2,885	1
	12/11/2021 01:45	12/11/2021 02:00	15	1.03	12,437	0.47	12	Atlas	Retained by Sneads Branch.	12,835	1
	12/31/2021 23:30	12/31/2021 23:45	15	2.04	848	0.77	24	Atlas	Retained by Sneads Branch.	1,733	1
	02/17/2022 16:15	02/17/2022 16:30	15	2.04	50	0.91	12	Atlas		103	1
	03/07/2022 05:45	03/07/2022 06:45	60	1.17	11,183	0.63	3	Atlas	Retained by Sneads Branch.	13,095	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.35	37,157	0.62	1	Atlas		50,125	1
	05/26/2022 21:45	05/26/2022 22:00	15	0.68	11,966	0.26	12	Atlas	Retained by Sneads Branch.	8,197	1
	06/02/2022 00:15	06/02/2022 00:45	30	0.73	58,154	0.53	1	Atlas		42,278	1
	06/26/2022 20:30	06/26/2022 21:30	60	1.01	40,815	0.74	1	Atlas		41,060	1
CSO142 Total										434,630	20
CSO144	10/15/2021 17:15	10/15/2021 20:15	180	0.49	510	0.19	24	Atlas		250	1
	04/13/2022 19:45	04/13/2022 20:00	15	1.26	9,712	0.57	1	Atlas		12,188	1
	04/18/2022 10:00	04/18/2022 23:00	780	0.28	3,381	0.15	6	Atlas		963	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.67	151	0.47	1	Atlas		101	1
CSO144 Total										13,492	4
CSO146	07/16/2021 22:15	07/16/2021 22:30	15	0.73	10,675	0.40	6	Atlas		7,825	1
	08/17/2021 14:15	08/17/2021 14:30	15	0.21	11,053	0.19	1	Atlas		2,376	1



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	10/05/2021 20:45	10/05/2021 21:00	15	0.55	23,011	0.43	1	Atlas		12,564	1
	02/17/2022 15:00	02/17/2022 16:15	75	2.04	31,766	0.91	12	Atlas		64,802	1
	06/26/2022 20:30	06/26/2022 20:45	15	1.01	15,857	0.74	1	Atlas		15,952	1
CSO146 Total										103,519	5
CSO148	07/01/2021 10:30	07/01/2021 13:45	195	1.30	49,662	0.67	3	Atlas		64,461	1
	07/06/2021 14:45	07/06/2021 15:00	15	0.26	1,873	0.22	1	Atlas		485	1
	07/10/2021 22:45	07/10/2021 23:15	30	0.87	11,126	0.40	12	Atlas		9,636	1
	07/16/2021 22:00	07/17/2021 02:45	285	0.75	36,806	0.41	6	Atlas		27,715	1
	08/09/2021 10:00	08/09/2021 12:45	165	0.41	82,548	0.26	3	Atlas		33,597	1
	08/17/2021 14:00	08/17/2021 14:30	30	0.74	110,182	0.58	1	Atlas		81,425	1
	08/26/2021 19:15	08/26/2021 19:30	15	0.33	837	0.29	1	Atlas		277	1
	08/27/2021 14:45	08/27/2021 15:00	15	0.51	97,943	0.44	1	Atlas		49,951	1
	08/30/2021 12:00	08/30/2021 13:00	60	0.95	59,410	0.60	1	Atlas		56,380	1
	09/05/2021 03:15	09/05/2021 03:30	15	0.99	550	0.45	12	Atlas		544	1
	09/20/2021 03:30	09/20/2021 08:45	315	1.76	28,207	0.74	6	Atlas		49,532	1
	10/03/2021 09:30	10/03/2021 10:00	30	0.91	83,444	0.52	1	Atlas		76,017	1
	10/05/2021 20:15	10/05/2021 20:45	30	0.54	73,765	0.43	1	Atlas		39,833	1
	10/25/2021 04:45	10/25/2021 05:30	45	0.43	25,368	0.28	1	Atlas		10,934	1
	12/06/2021 02:45	12/06/2021 07:30	285	0.65	2,474	0.30	6	Atlas		1,595	1
	12/10/2021 23:30	12/11/2021 06:00	390	0.99	39,625	0.45	12	Atlas		39,387	1
	12/16/2021 15:15	12/16/2021 16:15	60	0.29	2,345	0.19	3	Atlas		673	1
	12/28/2021 22:45	12/28/2021 23:00	15	0.64	39	0.26	3	Atlas		25	1
	12/31/2021 23:30	01/01/2022 14:00	870	2.07	33,188	0.78	24	Atlas		68,799	1
	01/08/2022 22:45	01/09/2022 06:30	485	1.41	44,960	0.60	12	Atlas		63,169	1
	02/03/2022 12:00	02/03/2022 14:15	135	2.12	1,111	0.69	48	Atlas		2,354	1

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	02/17/2022 08:30	02/17/2022 18:15	585	2.00	53,313	0.89	12	Atlas		106,733	1
	02/22/2022 07:15	02/22/2022 12:00	285	1.09	74,785	0.51	6	Atlas		81,366	1
	02/24/2022 15:30	02/24/2022 19:30	240	1.00	32,096	0.47	6	Atlas		31,967	1
	03/06/2022 21:45	03/07/2022 08:00	615	1.44	53,391	0.69	3	Atlas		76,937	1
	03/18/2022 22:45	03/18/2022 23:00	15	0.20	48,694	0.17	1	Atlas		9,885	1
	03/30/2022 22:45	03/30/2022 23:00	15	0.33	867	0.15	12	Atlas		287	1
	04/06/2022 09:00	04/06/2022 13:30	270	0.93	14,826	0.43	6	Atlas		13,773	1
	04/13/2022 09:15	04/13/2022 09:30	15	1.33	3,306	0.64	1	Atlas		4,388	1
	04/13/2022 19:45	04/13/2022 20:45	60	1.33	119,759	0.64	1	Atlas		158,921	1
	04/21/2022 06:00	04/21/2022 06:15	15	0.27	3,673	0.12	3	Atlas		973	1
	04/30/2022 21:30	04/30/2022 21:45	15	0.13	1,085	0.10	1	Atlas		145	1
	05/03/2022 06:15	05/03/2022 13:30	435	0.48	5,423	0.22	12	Atlas		2,619	1
	05/16/2022 00:30	05/16/2022 01:30	60	0.35	29,910	0.24	1	Atlas		10,469	1
	05/18/2022 15:15	05/18/2022 15:45	30	0.31	958	0.21	3	Atlas		300	1
	05/25/2022 16:30	05/25/2022 17:30	60	0.58	39,244	0.50	1	Atlas		22,879	1
	05/26/2022 10:45	05/26/2022 11:15	30	0.71	8,284	0.26	12	Atlas		5,923	1
	05/26/2022 21:45	05/26/2022 22:00	15	0.71	10,008	0.26	12	Atlas		7,155	1
	06/02/2022 00:15	06/02/2022 00:45	30	0.71	132,548	0.52	1	Atlas		93,711	1
	06/26/2022 20:30	06/26/2022 21:30	60	0.94	52,092	0.71	1	Atlas		48,967	1
CSO148 Total										1,354,188	40
CSO149	07/01/2021 13:15	07/01/2021 15:00	105	1.24	1,868,105	0.65	3	Atlas		2,318,319	1
	08/26/2021 19:30	08/26/2021 20:00	30	1.68	220,480	4.68	1	Atlas		369,525	1
	08/27/2021 15:00	08/27/2021 15:15	15	0.36	132,933	0.30	1	Atlas		48,387	1
	09/20/2021 08:45	09/20/2021 11:15	150	1.99	1,094,061	0.76	24	Atlas		2,176,087	1
	10/03/2021 10:00	10/03/2021 10:15	15	1.11	234,704	0.73	1	Atlas		260,063	1



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	01/01/2022 10:45	01/01/2022 22:00	675	2.04	3,427,440	0.77	24	Atlas		7,009,115	1
	01/09/2022 05:30	01/09/2022 08:00	150	1.41	1,675,379	0.61	12	Atlas		2,367,310	1
	02/17/2022 14:30	02/17/2022 19:15	285	2.04	3,213,176	0.91	12	Atlas		6,554,878	1
	02/22/2022 11:30	02/22/2022 13:00	90	1.14	1,280,751	0.55	6	Atlas		1,462,618	1
	02/24/2022 19:00	02/25/2022 01:45	405	1.00	2,173,580	0.46	12	Atlas		2,167,059	1
	03/07/2022 07:45	03/07/2022 09:00	75	1.17	1,097,241	0.63	3	Atlas		1,284,869	1
	04/14/2022 01:30	04/14/2022 02:00	30	1.35	279,954	0.62	1	Atlas		377,657	1
CSO149 Total										26,395,879	12
CSO151	07/01/2021 11:30	07/01/2021 15:45	255	1.16	791,284	0.63	3	Atlas		916,306	1
	07/06/2021 15:15	07/06/2021 15:30	15	0.13	43,756	0.11	1	Atlas		5,776	1
	07/10/2021 23:00	07/11/2021 00:00	60	0.88	106,442	0.40	12	Atlas		93,881	1
	07/12/2021 07:15	07/12/2021 07:30	15	0.33	92,286	0.14	1	Atlas		30,639	1
	07/16/2021 22:15	07/17/2021 03:15	300	0.76	164,855	0.41	6	Atlas		124,795	1
	08/09/2021 10:15	08/09/2021 10:30	15	0.39	41,083	0.25	3	Atlas		15,858	1
	08/17/2021 14:15	08/17/2021 14:30	15	0.59	15,446	0.48	1	Atlas		9,144	1
	08/26/2021 19:45	08/26/2021 20:00	15	0.75	2,268	0.65	1	Atlas		1,710	1
	08/27/2021 15:00	08/27/2021 15:30	30	0.42	526,568	0.36	1	Atlas		222,212	1
	08/30/2021 12:30	08/30/2021 15:30	180	1.05	1,118,541	0.67	1	Atlas		1,176,705	1
	09/05/2021 03:45	09/05/2021 09:45	360	1.00	62,578	0.45	12	Atlas		62,578	1
	09/20/2021 04:00	09/20/2021 12:45	525	1.81	575,540	0.73	6	Atlas		1,043,454	1
	09/22/2021 00:45	09/22/2021 01:30	45	1.13	53,687	0.43	24	Atlas		60,720	1
	09/22/2021 11:45	09/22/2021 12:30	45	1.13	60,929	0.43	24	Atlas		68,910	1
	10/03/2021 10:00	10/03/2021 11:15	75	0.98	29,186	0.57	1	Atlas		28,573	1
	10/05/2021 20:45	10/05/2021 21:00	15	0.55	30,081	0.43	1	Atlas		16,665	1
	10/15/2021 18:00	10/15/2021 18:30	30	0.42	19,494	0.16	24	Atlas		8,285	1

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	10/25/2021 05:15	10/25/2021 06:15	60	0.42	175,437	0.27	1	Atlas		74,034	1
	11/11/2021 14:15	11/11/2021 14:45	30	0.35	42,086	0.20	3	Atlas		14,562	1
	12/06/2021 03:15	12/06/2021 08:00	285	0.63	69,771	0.29	6	Atlas		44,095	1
	12/11/2021 00:00	12/11/2021 06:45	405	1.01	234,885	0.46	12	Atlas		236,294	1
	12/16/2021 16:15	12/16/2021 17:00	45	0.30	226,142	0.20	3	Atlas		67,164	1
	12/29/2021 23:15	12/29/2021 01:45	150	0.70	39,392	0.29	3	Atlas		27,575	1
	01/01/2022 00:00	01/02/2022 06:30	1830	2.06	2,156,914	0.78	24	Atlas		4,445,401	1
	01/08/2022 23:15	01/09/2022 14:30	915	1.42	1,347,734	0.61	12	Atlas		1,919,174	1
	02/02/2022 10:00	02/02/2022 10:30	30	2.12	521	0.69	48	Atlas		1,104	1
	02/03/2022 09:00	02/03/2022 15:45	405	2.12	64,804	0.69	48	Atlas		137,450	1
	02/17/2022 09:00	02/18/2022 05:45	1245	2.00	1,685,860	0.89	12	Atlas		3,376,777	1
	02/22/2022 07:30	02/22/2022 18:30	660	1.06	1,212,280	0.51	6	Atlas		1,286,229	1
	02/24/2022 16:00	02/25/2022 05:15	795	0.98	2,102,079	0.46	6	Atlas		2,070,547	1
	03/06/2022 22:15	03/07/2022 13:00	885	1.28	709,274	0.66	3	Atlas		907,871	1
	03/18/2022 23:15	03/18/2022 23:30	15	0.25	50,613	0.21	1	Atlas		12,805	1
	04/06/2022 09:15	04/06/2022 14:00	285	0.93	186,260	0.44	6	Atlas		173,781	1
	04/13/2022 09:30	04/13/2022 10:15	45	1.33	32,682	0.65	1	Atlas		43,435	1
	04/13/2022 20:00	04/14/2022 02:15	375	1.33	626,202	0.65	1	Atlas		832,223	1
	04/16/2022 00:30	04/16/2022 00:45	15	0.20	31,288	0.14	1	Atlas		6,226	1
	04/21/2022 06:15	04/21/2022 06:45	30	0.24	44,059	0.11	12	Atlas		10,794	1
CSO151 Total										19,573,753	37
CSO152	07/01/2021 11:45	07/01/2021 15:00	195	1.22	421,227	0.63	3	Atlas		515,581	1
	08/27/2021 15:15	08/27/2021 15:30	15	0.34	5,980	0.28	1	Atlas		2,003	1
	08/30/2021 12:45	08/30/2021 14:15	90	1.03	754,965	0.63	1	Atlas		774,595	1
	09/05/2021 03:30	09/05/2021 03:45	15	1.00	2,723	0.45	12	Atlas		2,731	1



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	09/20/2021 08:15	09/20/2021 11:30	195	1.97	378,652	0.76	24	Atlas		746,702	1
	10/03/2021 10:00	10/03/2021 11:00	60	1.04	4,855	0.65	1	Atlas		5,059	1
	12/11/2021 02:15	12/11/2021 06:15	240	1.03	34,791	0.47	12	Atlas		35,974	1
	01/01/2022 05:30	01/01/2022 21:45	975	2.06	1,896,506	0.78	24	Atlas		3,906,803	1
	01/09/2022 03:30	01/09/2022 12:30	540	1.42	1,620,295	0.61	12	Atlas		2,307,300	1
	02/03/2022 12:30	02/03/2022 14:45	135	2.13	83,727	0.68	48	Atlas		178,591	1
	02/17/2022 09:00	02/17/2022 21:30	750	2.01	1,533,553	0.89	12	Atlas		3,077,842	1
	02/22/2022 11:30	02/22/2022 13:30	120	1.11	674,318	0.54	6	Atlas		747,144	1
	02/24/2022 16:00	02/25/2022 02:30	630	0.99	1,496,382	0.46	6	Atlas		1,485,907	1
	03/07/2022 07:15	03/07/2022 10:00	165	1.19	716,311	0.64	3	Atlas		855,275	1
	04/06/2022 09:15	04/06/2022 14:15	300	0.94	132,728	0.45	6	Atlas		125,030	1
	04/13/2022 09:30	04/13/2022 10:00	30	1.33	46,935	0.63	1	Atlas		62,424	1
	04/13/2022 19:45	04/14/2022 02:00	375	1.33	250,986	0.63	1	Atlas		333,811	1
CSO152 Total										15,162,772	17
CSO153	07/01/2021 11:00	07/01/2021 16:00	300	1.09	248,101	0.57	3	Atlas		270,430	1
	07/08/2021 18:45	07/08/2021 19:15	30	0.37	60,691	0.32	1	Atlas		22,334	1
	07/10/2021 08:00	07/10/2021 08:15	15	0.16	11,605	0.13	1	Atlas		1,857	1
	07/10/2021 18:45	07/11/2021 04:00	555	1.03	87,745	0.47	12	Atlas		90,114	1
	07/12/2021 07:00	07/12/2021 15:00	480	0.43	154,420	0.19	12	Atlas		66,709	1
	07/16/2021 22:00	07/17/2021 03:30	330	0.63	185,093	0.34	6	Atlas		115,868	1
	08/09/2021 10:00	08/09/2021 11:00	60	0.32	174,410	0.21	3	Atlas		56,160	1
	08/16/2021 12:30	08/16/2021 12:45	15	0.05	3,572	0.03	1	Atlas		171	1
	08/17/2021 14:15	08/17/2021 15:00	45	0.18	206,903	0.16	1	Atlas		37,242	1
	08/25/2021 13:30	08/25/2021 13:45	15	0.12	12,357	0.07	1	Atlas		1,532	1
	08/26/2021 19:00	08/26/2021 21:00	120	1.46	101,687	2.28	1	Atlas		148,463	1

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	08/27/2021 15:00	08/27/2021 15:45	45	0.14	306,082	0.10	1	Atlas		42,239	1
	08/30/2021 11:45	08/30/2021 14:15	150	1.10	291,149	0.65	3	Atlas		319,682	1
	08/31/2021 21:00	08/31/2021 21:30	30	0.47	4,101	0.22	12	Atlas		1,923	1
	09/05/2021 03:00	09/05/2021 10:45	465	1.05	172,405	0.47	12	Atlas		181,198	1
	09/08/2021 04:15	09/08/2021 04:30	15	0.10	45,958	0.06	3	Atlas		4,550	1
	09/19/2021 15:00	09/19/2021 16:30	90	2.00	52,664	0.77	24	Atlas		105,276	1
	09/20/2021 03:30	09/20/2021 10:45	435	2.00	248,210	0.77	24	Atlas		496,171	1
	09/21/2021 22:45	09/22/2021 16:00	1035	0.98	81,280	0.37	24	Atlas		79,329	1
	10/03/2021 09:30	10/03/2021 11:45	135	1.39	281,152	1.07	1	Atlas		389,396	1
	10/05/2021 20:15	10/05/2021 21:45	90	0.54	243,739	0.39	1	Atlas		130,400	1
	10/06/2021 16:15	10/06/2021 16:45	30	0.19	132,548	0.13	1	Atlas		24,654	1
	10/15/2021 08:30	10/15/2021 09:15	45	0.53	74,689	0.22	12	Atlas		39,287	1
	10/15/2021 17:15	10/15/2021 18:15	60	0.53	211,857	0.22	12	Atlas		111,437	1
	10/24/2021 07:15	10/24/2021 09:15	120	0.26	137,166	0.18	3	Atlas		36,212	1
	10/25/2021 04:30	10/25/2021 13:45	555	0.45	186,016	0.26	1	Atlas		83,893	1
	10/28/2021 14:15	10/28/2021 14:45	30	0.21	2,807	0.11	6	Atlas		584	1
	10/29/2021 22:00	10/29/2021 22:30	30	0.54	7,309	0.21	24	Atlas		3,940	1
	10/30/2021 08:30	10/30/2021 09:00	30	0.54	3,963	0.21	24	Atlas		2,136	1
	11/11/2021 13:45	11/11/2021 14:45	60	0.34	25,545	0.21	3	Atlas		8,788	1
	11/18/2021 04:45	11/18/2021 05:45	60	0.38	38,330	0.21	6	Atlas		14,489	1
	11/21/2021 08:45	11/21/2021 10:15	90	0.33	21,889	0.15	6	Atlas		7,223	1
	11/25/2021 08:00	11/25/2021 08:30	30	0.28	2,037	0.15	6	Atlas		570	1
	12/06/2021 02:30	12/06/2021 14:45	735	0.66	63,037	0.30	6	Atlas		41,352	1
	12/10/2021 23:30	12/11/2021 11:00	690	0.97	280,308	0.44	12	Atlas		272,179	1
	12/16/2021 15:15	12/16/2021 17:15	120	0.29	119,336	0.19	3	Atlas		34,011	1



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	12/17/2021 17:00	12/17/2021 22:30	330	0.47	13,148	0.19	12	Atlas		6,232	1
	12/28/2021 22:00	12/29/2021 01:30	210	0.67	105,260	0.27	3	Atlas		70,734	1
	12/31/2021 23:15	01/01/2022 22:15	1380	2.02	267,425	0.75	24	Atlas		539,130	1
	01/08/2022 21:00	01/09/2022 07:45	645	1.45	306,413	0.63	12	Atlas		444,605	1
	01/19/2022 16:30	01/19/2022 17:15	45	0.15	1,342	0.09	3	Atlas		203	1
	02/02/2022 07:30	02/02/2022 10:15	165	2.12	11,220	0.69	48	Atlas		23,775	1
	02/02/2022 20:00	02/03/2022 00:00	240	2.12	7,816	0.69	48	Atlas		16,562	1
	02/03/2022 08:15	02/03/2022 16:00	465	2.12	80,435	0.69	48	Atlas		170,442	1
	02/17/2022 08:30	02/17/2022 23:30	900	1.97	322,730	0.87	12	Atlas		635,132	1
	02/22/2022 00:15	02/23/2022 06:45	1830	1.18	522,190	0.57	6	Atlas		613,573	1
	02/24/2022 15:15	02/25/2022 04:15	780	1.03	569,397	0.47	12	Atlas		584,771	1
	03/06/2022 21:45	03/07/2022 18:00	1215	1.12	448,490	0.66	3	Atlas		504,103	1
	03/18/2022 22:30	03/18/2022 23:00	30	0.32	115,296	0.27	1	Atlas		36,779	1
	03/30/2022 22:45	03/30/2022 23:45	60	0.26	25,848	0.12	3	Atlas		6,669	1
	04/06/2022 08:15	04/06/2022 15:30	435	0.96	278,995	0.45	6	Atlas		266,719	1
	04/11/2022 13:15	04/11/2022 22:30	555	0.29	33,447	0.10	3	Atlas		9,533	1
	04/13/2022 09:15	04/13/2022 10:00	45	1.28	42,097	0.55	1	Atlas		54,052	1
	04/13/2022 19:15	04/14/2022 01:15	360	1.28	232,381	0.55	1	Atlas		298,378	1
	04/18/2022 05:00	04/18/2022 15:30	630	0.29	12,050	0.16	6	Atlas		3,470	1
	04/21/2022 05:45	04/21/2022 06:45	60	0.20	31,002	0.09	12	Atlas		6,262	1
	04/30/2022 21:30	04/30/2022 22:30	60	0.09	18,291	0.07	1	Atlas		1,591	1
	05/03/2022 05:00	05/03/2022 13:45	525	0.62	167,541	0.30	3	Atlas		104,546	1
	05/06/2022 22:30	05/06/2022 22:45	15	0.23	2,407	0.08	24	Atlas		544	1
	05/16/2022 00:30	05/16/2022 02:00	90	0.14	64,839	0.11	1	Atlas		9,272	1
	05/18/2022 15:00	05/18/2022 15:45	45	0.26	131,523	0.22	1	Atlas		34,196	1

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	05/21/2022 16:30	05/21/2022 16:45	15	0.08	3,009	0.07	1	Atlas		229	1
	05/25/2022 16:30	05/25/2022 17:45	75	0.44	312,843	0.36	1	Atlas		138,277	1
	05/26/2022 11:00	05/26/2022 12:30	90	0.75	96,268	0.26	12	Atlas		72,586	1
	05/26/2022 21:45	05/26/2022 23:45	120	0.75	17,151	0.26	12	Atlas		12,932	1
	06/02/2022 00:15	06/02/2022 02:00	105	0.65	137,522	0.45	1	Atlas		88,702	1
	06/06/2022 13:30	06/06/2022 19:00	330	0.39	115,299	0.20	6	Atlas		44,505	1
	06/22/2022 16:00	06/22/2022 16:45	45	0.22	115,297	0.19	1	Atlas		25,711	1
	06/26/2022 19:45	06/26/2022 21:30	105	0.64	325,563	0.46	1	Atlas		208,035	1
CSO153 Total										8,274,049	69
CSO154	02/17/2022 16:00	02/17/2022 17:00	60	1.98	9,529	0.88	12	Atlas		18,839	1
	02/22/2022 09:15	02/22/2022 12:00	165	1.22	83,886	0.59	6	Atlas		102,090	1
	02/24/2022 19:00	02/24/2022 19:15	15	1.04	604	0.48	12	Atlas		626	1
CSO154 Total										121,555	3
CSO160	07/08/2021 18:45	07/08/2021 19:00	15	0.45	17,839	0.39	1	Atlas		7,956	1
	07/12/2021 09:30	07/12/2021 09:45	15	0.63	4,119	0.31	1	Atlas		2,579	1
	08/25/2021 13:15	08/25/2021 13:30	15	0.16	28,191	0.09	1	Atlas		4,539	1
	08/26/2021 19:30	08/26/2021 20:00	30	2.88	12,993	64.44	1	Atlas		37,382	1
	09/20/2021 10:00	09/20/2021 10:15	15	2.06	3,303	0.79	24	Atlas		6,811	1
	10/03/2021 09:45	10/03/2021 10:00	15	1.45	20,630	1.40	1	Atlas		29,831	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.65	42,519	0.44	1	Atlas		27,467	1
CSO160 Total										116,565	7
CSO161	07/01/2021 12:30	07/01/2021 13:15	45	1.19	4,709	0.64	3	Atlas		5,594	1
	07/08/2021 18:30	07/08/2021 19:00	30	0.45	43,171	0.39	1	Atlas		19,254	1
	07/10/2021 08:00	07/10/2021 08:15	15	0.21	2,830	0.17	1	Atlas		603	1
	07/10/2021 18:30	07/10/2021 23:15	285	1.09	8,946	0.50	12	Atlas		9,734	1



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	07/12/2021 09:30	07/12/2021 10:00	30	0.63	20,287	0.31	1	Atlas		12,700	1
	07/16/2021 21:45	07/17/2021 03:00	315	0.64	8,630	0.33	6	Atlas		5,497	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.30	10,925	0.20	3	Atlas		3,288	1
	08/19/2021 04:30	08/19/2021 04:45	15	0.20	4,125	0.10	3	Atlas		841	1
	08/25/2021 13:15	08/25/2021 13:30	15	0.16	1,160	0.09	1	Atlas		187	1
	08/26/2021 18:45	08/26/2021 20:00	75	2.88	25,335	64.44	1	Atlas		72,888	1
	08/27/2021 14:45	08/27/2021 15:15	30	0.38	15,342	0.30	1	Atlas		5,815	1
	08/30/2021 11:45	08/30/2021 13:30	105	0.91	10,492	0.51	3	Atlas		9,516	1
	09/05/2021 03:00	09/05/2021 09:15	375	1.03	13,304	0.46	12	Atlas		13,729	1
	09/08/2021 04:00	09/08/2021 04:15	15	0.11	11,599	0.07	3	Atlas		1,299	1
	09/19/2021 15:00	09/19/2021 16:15	75	2.06	6,245	0.79	24	Atlas		12,878	1
	09/20/2021 03:30	09/20/2021 10:30	420	2.06	20,625	0.79	24	Atlas		42,529	1
	09/21/2021 21:30	09/22/2021 15:00	1050	1.10	19,348	0.42	24	Atlas		21,379	1
	10/03/2021 09:15	10/03/2021 11:00	105	1.45	33,474	1.40	1	Atlas		48,403	1
	10/05/2021 20:00	10/05/2021 21:30	90	0.52	23,070	0.40	1	Atlas		11,996	1
	10/06/2021 16:15	10/06/2021 16:45	30	0.25	15,621	0.18	1	Atlas		3,921	1
	10/13/2021 14:45	10/13/2021 15:00	15	0.04	3,190	0.04	1	Atlas		140	1
	10/24/2021 07:15	10/24/2021 08:30	75	0.25	17,482	0.17	3	Atlas		4,336	1
	10/25/2021 04:00	10/25/2021 05:45	105	0.48	24,768	0.28	3	Atlas		11,839	1
	10/28/2021 11:00	10/28/2021 15:15	255	0.19	6,790	0.10	6	Atlas		1,283	1
	10/29/2021 16:45	10/30/2021 09:30	1005	0.53	16,401	0.20	24	Atlas		8,676	1
	12/11/2021 01:30	12/11/2021 05:45	255	0.91	1,638	0.42	12	Atlas		1,494	1
	03/07/2022 05:30	03/07/2022 05:45	15	1.15	404	0.67	3	Atlas		466	1
	04/13/2022 19:30	04/13/2022 19:45	15	1.25	2,220	0.49	1	Atlas		2,784	1
	05/14/2022 15:00	05/14/2022 15:15	15	0.50	3,997	0.34	1	Atlas		2,010	1

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	05/25/2022 16:45	05/25/2022 17:00	15	0.38	1,053	0.32	1	Atlas		398	1
	05/26/2022 21:30	05/26/2022 21:45	15	0.88	1,177	0.35	1	Atlas		1,034	1
	06/02/2022 00:00	06/02/2022 00:15	15	0.65	1,179	0.44	1	Atlas		762	1
	06/26/2022 20:15	06/26/2022 20:30	15	0.79	3,389	0.56	1	Atlas		2,670	1
CSO161 Total										339,943	33
CSO166	07/01/2021 11:45	07/01/2021 14:45	180	1.11	675,420	0.58	3	Atlas		747,015	1
	07/06/2021 15:45	07/06/2021 16:45	60	0.15	808,850	0.13	1	Atlas		122,136	1
	07/08/2021 18:30	07/08/2021 20:30	120	0.33	903,805	0.28	1	Atlas		295,544	1
	07/10/2021 20:00	07/11/2021 00:30	270	1.27	276,176	0.42	12	Atlas		349,639	1
	07/12/2021 06:45	07/12/2021 08:30	105	1.27	948,638	0.42	12	Atlas		1,200,976	1
	07/16/2021 22:15	07/17/2021 03:15	300	0.67	55,670	0.37	6	Atlas		37,410	1
	08/09/2021 10:15	08/09/2021 11:15	60	0.40	366,565	0.26	3	Atlas		145,893	1
	08/27/2021 15:00	08/27/2021 16:15	75	0.64	571,137	0.55	1	Atlas		366,099	1
	08/30/2021 12:00	08/30/2021 15:30	210	1.21	831,546	0.74	1	Atlas		1,005,339	1
	09/05/2021 03:30	09/05/2021 10:45	435	1.02	256,716	0.46	12	Atlas		262,363	1
	09/20/2021 04:45	09/20/2021 13:30	525	1.57	1,578,545	0.65	6	Atlas		2,478,315	1
	09/22/2021 00:45	09/22/2021 16:15	930	1.03	345,557	0.39	24	Atlas		354,887	1
	10/03/2021 09:45	10/03/2021 11:45	120	0.97	666,420	0.59	1	Atlas		646,427	1
	10/05/2021 20:30	10/05/2021 22:30	120	0.57	1,153,081	0.39	1	Atlas		653,797	1
	10/08/2021 14:45	10/08/2021 15:15	30	0.23	74,450	0.20	1	Atlas		16,826	1
	10/15/2021 09:00	10/15/2021 09:15	15	0.49	16,218	0.19	24	Atlas		8,028	1
	10/15/2021 17:30	10/15/2021 18:45	75	0.49	453,477	0.19	24	Atlas		224,471	1
	10/25/2021 05:15	10/25/2021 06:30	75	0.43	493,302	0.27	1	Atlas		210,640	1
	10/29/2021 21:00	10/29/2021 23:00	120	0.52	85,050	0.20	24	Atlas		44,141	1
	12/06/2021 03:15	12/06/2021 08:45	330	0.69	294,702	0.31	6	Atlas		202,755	1



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	12/11/2021 00:00	12/11/2021 07:30	450	0.95	842,813	0.44	12	Atlas		802,358	1
	12/16/2021 16:15	12/16/2021 17:45	90	0.29	490,492	0.19	3	Atlas		144,205	1
	12/28/2021 23:15	12/29/2021 02:30	195	0.69	458,997	0.29	3	Atlas		317,167	1
	12/31/2021 23:45	01/02/2022 07:30	1905	2.07	2,921,126	0.78	24	Atlas		6,046,730	1
	01/08/2022 23:15	01/09/2022 13:45	870	1.44	1,680,174	0.62	12	Atlas		2,419,450	1
	02/03/2022 08:45	02/03/2022 19:30	645	2.13	1,141,156	0.69	48	Atlas		2,436,367	1
	02/17/2022 09:00	02/18/2022 07:30	1350	2.01	2,886,834	0.89	12	Atlas		5,796,762	1
	02/22/2022 08:00	02/22/2022 18:00	600	1.04	3,271,543	0.50	6	Atlas		3,389,319	1
	02/24/2022 15:45	02/25/2022 05:15	810	1.00	3,024,149	0.47	6	Atlas		3,024,149	1
	03/06/2022 22:00	03/07/2022 11:15	795	1.34	1,773,591	0.67	3	Atlas		2,380,159	1
	03/30/2022 23:15	03/30/2022 23:30	15	0.32	78,076	0.15	12	Atlas		25,062	1
	04/06/2022 09:15	04/06/2022 16:30	435	0.91	1,039,811	0.43	6	Atlas		946,228	1
	04/13/2022 09:30	04/13/2022 10:45	75	1.29	140,397	0.61	1	Atlas		180,972	1
	04/13/2022 19:30	04/14/2022 06:00	630	1.29	1,942,413	0.61	1	Atlas		2,503,771	1
	04/16/2022 00:30	04/16/2022 01:15	45	0.19	147,310	0.13	1	Atlas		28,136	1
	04/18/2022 12:30	04/18/2022 12:45	15	0.28	2,793	0.16	6	Atlas		793	1
	04/21/2022 06:15	04/21/2022 06:45	30	0.23	99,473	0.11	12	Atlas		23,277	1
	05/03/2022 13:30	05/03/2022 14:00	30	0.59	18,517	0.27	12	Atlas		10,907	1
	05/14/2022 14:00	05/14/2022 16:00	120	0.19	3,315,351	0.10	6	Atlas		636,547	1
	05/16/2022 01:00	05/16/2022 02:45	105	0.31	215,046	0.24	1	Atlas		66,019	1
	05/18/2022 15:30	05/18/2022 17:15	105	0.32	453,890	0.25	1	Atlas		146,606	1
	05/21/2022 16:30	05/21/2022 18:00	90	0.16	1,360,681	0.13	1	Atlas		219,070	1
	05/25/2022 17:15	05/25/2022 19:00	105	0.71	471,139	0.52	1	Atlas		336,393	1
	05/26/2022 11:00	05/26/2022 12:00	60	0.78	153,072	0.29	12	Atlas		119,549	1
	05/26/2022 22:00	05/26/2022 23:45	105	0.78	795,176	0.29	12	Atlas		621,032	1

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	06/02/2022 00:30	06/02/2022 02:45	135	0.76	1,635,299	0.56	1	Atlas		1,234,650	1
	06/06/2022 18:45	06/07/2022 00:00	315	0.55	310,111	0.27	6	Atlas		171,491	1
	06/22/2022 16:15	06/22/2022 16:45	30	0.27	337,821	0.24	1	Atlas		92,563	1
	06/26/2022 20:15	06/26/2022 22:15	120	0.54	787,613	0.39	1	Atlas		427,674	1
CSO166 Total										43,920,108	49
CSO167	07/01/2021 12:30	07/01/2021 23:15	645	0.91	168	0.44	3	Atlas		153	1
	07/08/2021 18:15	07/08/2021 23:15	300	0.47	7,430	0.41	1	Atlas		3,477	1
	07/10/2021 22:45	07/10/2021 23:15	30	1.07	1	0.49	12	Atlas		1	1
	07/16/2021 21:45	07/16/2021 23:15	90	0.67	326	0.37	6	Atlas		219	1
	08/27/2021 14:30	08/27/2021 23:15	525	0.17	23,756	0.14	1	Atlas		4,110	1
	08/30/2021 11:45	08/30/2021 23:15	690	1.18	9,230	0.70	3	Atlas		10,900	1
	09/05/2021 03:15	09/05/2021 23:15	1200	1.09	2	0.49	12	Atlas		2	1
	09/20/2021 04:30	09/20/2021 23:15	1125	1.55	364	0.65	6	Atlas		563	1
	10/03/2021 09:15	10/03/2021 23:15	840	1.36	10,646	0.99	1	Atlas		14,521	1
	10/05/2021 20:15	10/05/2021 23:15	180	0.69	1,648	0.47	1	Atlas		1,144	1
	10/15/2021 17:15	10/15/2021 23:15	360	0.54	893	0.21	12	Atlas		481	1
	12/11/2021 01:30	12/11/2021 23:15	1305	1.01	3,001	0.46	12	Atlas		3,025	1
	12/31/2021 23:30	01/05/2022 23:15	7185	1.99	210,295	0.75	24	Atlas		418,907	1
	01/09/2022 04:45	01/09/2022 23:15	1110	1.45	23,585	0.63	12	Atlas		34,269	1
	02/17/2022 13:45	02/21/2022 23:15	6330	1.98	274,632	0.88	12	Atlas		542,947	1
	02/22/2022 08:15	02/26/2022 00:00	5265	1.22	962,658	0.59	6	Atlas		1,171,555	1
	03/06/2022 22:00	03/09/2022 23:15	4395	1.17	345,164	0.69	3	Atlas		404,878	1
	03/18/2022 22:45	03/18/2022 23:30	45	0.32	23	0.27	1	Atlas		7	1
	04/06/2022 09:45	04/06/2022 23:15	810	0.95	125	0.45	6	Atlas		119	1
	04/13/2022 19:30	04/13/2022 23:15	225	1.24	3,496	0.55	1	Atlas		4,342	1



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	05/03/2022 13:00	05/03/2022 23:30	630	0.68	38	0.31	12	Atlas		26	1
	05/25/2022 16:45	05/25/2022 23:15	390	0.79	3,756	0.60	1	Atlas		2,960	1
	05/25/2022 11:00	05/25/2022 23:15	735	0.80	17	0.28	12	Atlas		13	1
	06/02/2022 00:15	06/02/2022 23:15	1380	0.57	4,921	0.38	1	Atlas		2,825	1
	06/22/2022 15:45	06/22/2022 23:15	450	0.37	1,375	0.32	1	Atlas		504	1
	06/25/2022 20:15	06/25/2022 23:15	180	0.57	1,326	0.42	1	Atlas		757	1
CSO167 Total										2,622,703	26
CSO174	07/01/2021 11:00	07/01/2021 14:00	180	1.24	703,086	0.65	3	Atlas		872,529	1
	07/06/2021 15:00	07/06/2021 15:15	15	0.12	2,700	0.11	1	Atlas	Retained by Sneads Branch.	327	1
	07/10/2021 23:00	07/10/2021 23:30	30	0.95	101,914	0.43	12	Atlas	Retained by Sneads Branch.	96,309	1
	07/16/2021 21:45	07/17/2021 02:45	300	0.73	389,004	0.40	6	Atlas	Retained by Sneads Branch.	285,140	1
	08/09/2021 10:00	08/09/2021 10:30	30	0.37	226,569	0.24	3	Atlas	Retained by Sneads Branch.	83,378	1
	08/17/2021 14:00	08/17/2021 14:30	30	0.21	843,340	0.19	1	Atlas	Retained by Sneads Branch.	181,318	1
	08/26/2021 19:15	08/26/2021 19:30	15	1.68	106,014	4.68	1	Atlas	Retained by Sneads Branch.	177,680	1
	08/27/2021 14:30	08/27/2021 15:15	45	0.36	1,663,898	0.30	1	Atlas		605,659	1
	08/30/2021 12:15	08/30/2021 13:30	75	0.93	882,529	0.56	1	Atlas		819,869	1
	09/20/2021 03:45	09/20/2021 08:15	330	1.99	270,195	0.76	24	Atlas		537,417	1
	09/22/2021 00:30	09/22/2021 01:00	30	1.10	101,954	0.42	24	Atlas	Retained by Sneads Branch.	112,455	1
	09/22/2021 11:30	09/22/2021 12:15	45	1.10	188,072	0.42	24	Atlas	Retained by Sneads Branch.	207,444	1
	10/03/2021 09:30	10/03/2021 10:45	75	1.11	501,804	0.73	1	Atlas		555,998	1
	10/05/2021 20:15	10/05/2021 21:00	45	0.55	275,662	0.43	1	Atlas		150,512	1
	10/06/2021 16:15	10/06/2021 16:45	30	0.32	54,979	0.21	1	Atlas	Retained by Sneads Branch.	17,813	1

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	10/25/2021 05:00	10/25/2021 05:45	45	0.43	55,846	0.28	1	Atlas	Retained by Sneads Branch.	24,126	1
	12/11/2021 00:00	12/11/2021 06:00	360	1.03	165,065	0.47	12	Atlas	Retained by Sneads Branch.	170,347	1
	12/28/2021 22:45	12/28/2021 23:15	30	0.70	30,344	0.30	3	Atlas	Retained by Sneads Branch.	21,331	1
	12/31/2021 23:30	01/01/2022 14:15	885	2.04	282,370	0.77	24	Atlas		577,447	1
	01/08/2022 23:00	01/08/2022 06:30	450	1.41	288,986	0.61	12	Atlas		408,337	1
	02/03/2022 13:45	02/03/2022 14:00	15	2.13	1,405	0.68	48	Atlas	Retained by Sneads Branch.	2,998	1
	02/17/2022 08:45	02/17/2022 18:15	570	2.04	737,955	0.91	12	Atlas		1,505,428	1
	02/22/2022 08:00	02/22/2022 12:00	240	1.14	532,432	0.55	6	Atlas		608,038	1
	02/24/2022 16:30	02/24/2022 19:30	180	1.00	166,611	0.46	12	Atlas	Retained by Sneads Branch.	166,111	1
	03/06/2022 21:45	03/07/2022 08:15	630	1.17	893,495	0.63	3	Atlas	Retained by Sneads Branch.	1,046,282	1
	03/18/2022 22:45	03/18/2022 23:00	15	0.30	36,574	0.25	1	Atlas	Retained by Sneads Branch.	10,826	1
	04/06/2022 09:00	04/06/2022 10:15	75	0.95	161,238	0.45	6	Atlas	Retained by Sneads Branch.	152,854	1
	04/13/2022 09:15	04/13/2022 09:30	15	1.35	12,753	0.62	1	Atlas	Retained by Sneads Branch.	17,204	1
	04/13/2022 19:30	04/13/2022 20:45	75	1.35	776,112	0.62	1	Atlas		1,046,975	1
	05/03/2022 06:15	05/03/2022 13:30	435	0.65	49,691	0.30	12	Atlas	Retained by Sneads Branch.	32,299	1
	05/16/2022 01:15	05/16/2022 01:30	15	0.22	108,538	0.16	1	Atlas	Retained by Sneads Branch.	23,987	1
	05/18/2022 15:15	05/18/2022 15:30	15	0.34	64,201	0.23	1	Atlas	Retained by Sneads Branch.	21,507	1
	05/25/2022 16:45	05/25/2022 17:15	30	0.31	486,448	0.26	1	Atlas	Retained by Sneads Branch.	152,745	1
	05/26/2022 11:00	05/26/2022 11:30	30	0.68	49,464	0.26	12	Atlas	Retained by Sneads Branch.	33,883	1
	05/26/2022 21:45	05/26/2022 22:00	15	0.68	70,504	0.26	12	Atlas	Retained by Sneads Branch.	48,295	1



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	06/03/2022 00:00	06/03/2022 00:45	45	0.73	1,563,621	0.53	1	Atlas		1,136,752	1
	06/26/2022 20:30	06/26/2022 21:30	60	1.01	1,064,507	0.74	1	Atlas		1,070,894	1
CSO174 Total										12,982,515	37
CSO178	08/26/2021 19:00	08/26/2021 19:45	45	2.80	512,714	60.19	1	Atlas		1,434,061	1
	10/03/2021 09:30	10/03/2021 10:00	30	1.56	253,362	1.87	1	Atlas		395,752	1
	06/26/2022 20:15	06/26/2022 20:30	15	0.99	270,776	0.70	1	Atlas		268,068	1
CSO178 Total										2,097,881	3
CSO180	07/01/2021 11:00	07/01/2021 13:45	165	1.24	124,454	0.65	3	Atlas		154,448	1
	07/10/2021 18:45	07/10/2021 23:15	270	0.95	28,694	0.43	12	Atlas	Retained by Sneads Branch.	27,116	1
	07/12/2021 07:00	07/12/2021 10:00	180	0.36	38,897	0.15	12	Atlas	Retained by Sneads Branch.	14,042	1
	07/16/2021 22:00	07/17/2021 02:45	285	0.73	48,175	0.40	6	Atlas	Retained by Sneads Branch.	35,313	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.37	92,454	0.24	3	Atlas	Retained by Sneads Branch.	34,023	1
	08/17/2021 14:00	08/17/2021 14:30	30	0.21	147,177	0.19	1	Atlas	Retained by Sneads Branch.	31,643	1
	08/26/2021 19:00	08/26/2021 20:00	60	1.68	207,333	4.68	1	Atlas	Retained by Sneads Branch.	347,490	1
	08/27/2021 14:30	08/27/2021 15:15	45	0.36	537,824	0.30	1	Atlas		195,768	1
	08/30/2021 12:00	08/30/2021 13:30	90	0.93	116,647	0.56	1	Atlas		108,365	1
	09/05/2021 03:15	09/05/2021 03:30	15	0.98	4,217	0.44	12	Atlas	Retained by Sneads Branch.	4,150	1
	09/19/2021 14:45	09/19/2021 15:00	15	1.99	4,131	0.76	24	Atlas	Retained by Sneads Branch.	8,217	1
	09/20/2021 03:30	09/20/2021 06:30	300	1.99	43,280	0.76	24	Atlas		86,085	1
	09/22/2021 00:30	09/22/2021 00:45	15	1.10	11,577	0.42	24	Atlas	Retained by Sneads Branch.	12,769	1
	09/22/2021 11:15	09/22/2021 12:00	45	1.10	4,197	0.42	24	Atlas	Retained by Sneads Branch.	4,629	1
	10/03/2021 09:15	10/03/2021 10:30	75	1.11	129,865	0.73	1	Atlas		143,891	1

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	10/06/2021 20:15	10/06/2021 20:45	30	0.55	140,861	0.43	1	Atlas		76,910	1
	10/06/2021 16:15	10/06/2021 16:30	15	0.32	37,617	0.21	1	Atlas	Retained by Sneads Branch.	12,188	1
	10/15/2021 17:15	10/15/2021 17:30	15	0.46	77,988	0.19	12	Atlas	Retained by Sneads Branch.	35,952	1
	10/25/2021 04:45	10/25/2021 05:30	45	0.43	37,879	0.28	1	Atlas	Retained by Sneads Branch.	16,364	1
	12/10/2021 23:30	12/11/2021 05:45	375	1.03	44,446	0.47	12	Atlas	Retained by Sneads Branch.	45,868	1
	12/28/2021 22:45	12/28/2021 23:00	15	0.70	15,365	0.30	3	Atlas	Retained by Sneads Branch.	10,802	1
	12/31/2021 23:30	01/01/2022 13:45	855	2.04	17,624	0.77	24	Atlas		36,040	1
	01/09/2022 03:15	01/09/2022 05:30	135	1.41	12,241	0.61	12	Atlas		17,296	1
	02/17/2022 08:45	02/17/2022 18:00	555	2.04	66,916	0.91	12	Atlas		136,508	1
	02/22/2022 08:00	02/22/2022 11:45	225	1.14	48,893	0.55	6	Atlas		55,836	1
	02/24/2022 17:00	02/24/2022 19:15	135	1.00	3,737	0.46	12	Atlas	Retained by Sneads Branch.	3,726	1
	03/06/2022 21:45	03/07/2022 07:45	600	1.17	75,199	0.63	3	Atlas	Retained by Sneads Branch.	88,058	1
	03/18/2022 22:30	03/18/2022 23:00	30	0.30	8,367	0.25	1	Atlas	Retained by Sneads Branch.	2,477	1
	04/06/2022 09:15	04/06/2022 10:00	45	0.95	15,836	0.45	6	Atlas	Retained by Sneads Branch.	15,012	1
	04/13/2022 09:15	04/13/2022 09:30	15	1.35	5,175	0.62	1	Atlas	Retained by Sneads Branch.	6,981	1
	04/13/2022 19:30	04/13/2022 20:15	45	1.35	82,761	0.62	1	Atlas		111,645	1
	04/21/2022 05:45	04/21/2022 06:00	15	0.24	984	0.11	12	Atlas	Retained by Sneads Branch.	234	1
	05/16/2022 00:45	05/16/2022 01:00	15	0.22	7,111	0.16	1	Atlas	Retained by Sneads Branch.	1,571	1
	05/18/2022 15:15	05/18/2022 15:30	15	0.34	26,291	0.23	1	Atlas	Retained by Sneads Branch.	8,807	1
	05/25/2022 17:00	05/25/2022 17:15	15	0.31	45,739	0.26	1	Atlas	Retained by Sneads Branch.	14,362	1
	05/26/2022 11:15	05/26/2022 11:30	15	0.68	11,925	0.26	12	Atlas	Retained by Sneads Branch.	8,169	1



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	05/26/2022 21:45	05/26/2022 22:15	30	0.68	32,344	0.26	12	Atlas	Retained by Sneads Branch.	22,156	1
	06/02/2022 00:15	06/02/2022 00:45	30	0.73	155,185	0.53	1	Atlas		112,820	1
	06/26/2022 20:30	06/26/2022 21:30	60	1.01	267,302	0.74	1	Atlas		268,906	1
CSO180 Total										2,316,635	39
CSO181	08/26/2021 19:00	08/26/2021 19:45	45	2.55	662,363	36.96	1	Atlas		1,690,350	1
	10/03/2021 09:30	10/03/2021 10:00	30	1.40	714,511	1.22	1	Atlas		1,000,316	1
	06/26/2022 20:15	06/26/2022 20:30	15	0.91	666,244	0.66	1	Atlas		607,615	1
CSO181 Total										3,298,281	3
CSO182	07/01/2021 00:30	07/01/2021 00:45	15	1.33	2,124	0.69	3	Atlas	Retained by Sneads Branch.	2,821	1
	07/01/2021 10:30	07/01/2021 15:15	285	1.33	41,358	0.69	3	Atlas		54,923	1
	07/06/2021 15:30	07/06/2021 15:45	15	0.17	12,680	0.14	1	Atlas	Retained by Sneads Branch.	2,105	1
	07/08/2021 19:15	07/08/2021 19:45	30	0.16	50,818	0.14	1	Atlas	Retained by Sneads Branch.	8,131	1
	07/10/2021 19:00	07/11/2021 04:30	570	0.86	44,766	0.40	12	Atlas	Retained by Sneads Branch.	38,722	1
	07/12/2021 07:15	07/12/2021 07:45	30	0.33	14,884	0.14	12	Atlas	Retained by Sneads Branch.	4,882	1
	07/16/2021 22:15	07/17/2021 04:00	345	0.71	63,443	0.39	6	Atlas	Retained by Sneads Branch.	45,108	1
	08/09/2021 10:00	08/09/2021 13:15	195	0.41	38,068	0.27	3	Atlas	Retained by Sneads Branch.	15,532	1
	08/10/2021 10:00	08/10/2021 10:30	30	0.10	26,757	0.09	1	Atlas	Retained by Sneads Branch.	2,783	1
	08/17/2021 14:00	08/17/2021 14:45	45	0.21	69,701	0.19	1	Atlas	Retained by Sneads Branch.	14,846	1
	08/19/2021 06:15	08/19/2021 06:45	30	0.23	4,768	0.13	3	Atlas	Retained by Sneads Branch.	1,082	1
	08/26/2021 19:15	08/26/2021 19:45	30	0.59	4,088	0.52	1	Atlas	Retained by Sneads Branch.	2,432	1
	08/30/2021 13:30	08/30/2021 18:45	315	0.96	14,207	0.61	1	Atlas	Retained by Sneads Branch.	13,696	1

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	08/31/2021 13:30	08/31/2021 22:15	525	0.56	65,610	0.26	12	Atlas	Retained by Sneads Branch.	37,070	1
	09/05/2021 03:15	09/05/2021 11:00	465	0.97	43,786	0.44	12	Atlas	Retained by Sneads Branch.	42,472	1
	09/08/2021 04:30	09/08/2021 05:00	30	0.11	17,397	0.08	1	Atlas	Retained by Sneads Branch.	1,966	1
	09/20/2021 04:00	09/20/2021 11:30	450	1.81	127,639	0.71	6	Atlas		230,516	1
	09/22/2021 00:30	09/22/2021 16:45	975	1.25	427,542	0.48	24	Atlas	Retained by Sneads Branch.	534,000	1
	10/03/2021 09:15	10/03/2021 17:45	510	1.05	232,516	0.65	1	Atlas		244,374	1
	10/05/2021 20:15	10/05/2021 21:45	90	0.56	14,914	0.44	1	Atlas		8,307	1
	10/06/2021 17:00	10/06/2021 17:30	30	0.37	19,342	0.24	1	Atlas	Retained by Sneads Branch.	7,118	1
	10/15/2021 13:00	10/15/2021 16:15	315	0.43	38,967	0.17	12	Atlas	Retained by Sneads Branch.	16,912	1
	10/25/2021 04:30	10/25/2021 06:00	90	0.44	156,483	0.29	1	Atlas	Retained by Sneads Branch.	68,696	1
	10/28/2021 14:30	10/28/2021 14:45	15	0.18	12,033	0.10	6	Atlas	Retained by Sneads Branch.	2,226	1
	10/29/2021 21:45	10/30/2021 09:15	690	0.52	51,397	0.20	24	Atlas	Retained by Sneads Branch.	26,521	1
	11/11/2021 12:45	11/11/2021 15:00	135	0.34	72,163	0.20	3	Atlas	Retained by Sneads Branch.	24,535	1
	11/18/2021 01:15	11/18/2021 06:15	300	0.35	74,599	0.19	6	Atlas	Retained by Sneads Branch.	26,483	1
	11/21/2021 08:45	11/21/2021 09:45	60	0.31	68,403	0.14	6	Atlas	Retained by Sneads Branch.	21,068	1
	11/25/2021 08:15	11/25/2021 09:45	90	0.29	9,989	0.16	6	Atlas	Retained by Sneads Branch.	2,907	1
	12/06/2021 02:15	12/06/2021 08:15	360	0.60	68,252	0.28	6	Atlas	Retained by Sneads Branch.	41,156	1
	12/10/2021 23:30	12/11/2021 06:45	435	1.02	116,946	0.47	12	Atlas	Retained by Sneads Branch.	119,753	1
	12/16/2021 15:15	12/16/2021 17:00	105	0.28	92,991	0.19	3	Atlas	Retained by Sneads Branch.	26,130	1
	12/17/2021 16:45	12/17/2021 23:45	420	0.48	127,091	0.20	12	Atlas	Retained by Sneads Branch.	61,258	1



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	12/28/2021 10:15	12/28/2021 10:30	15	0.68	178	0.29	3	Atlas	Retained by Sneads Branch.	121	1
	12/28/2021 23:00	12/29/2021 01:45	165	0.68	85,360	0.29	3	Atlas	Retained by Sneads Branch.	58,045	1
	12/31/2021 23:15	01/02/2022 02:45	1650	2.07	637,300	0.78	24	Atlas		1,317,299	1
	01/08/2022 21:00	01/09/2022 12:45	945	1.40	543,268	0.60	12	Atlas		758,946	1
	01/19/2022 16:30	01/19/2022 18:30	120	0.18	24,750	0.10	3	Atlas	Retained by Sneads Branch.	4,356	1
	02/17/2022 08:15	02/17/2022 22:45	870	2.06	337,714	0.91	12	Atlas		694,340	1
	02/22/2022 00:15	02/22/2022 14:30	855	1.14	267,752	0.54	6	Atlas		305,505	1
	02/24/2022 19:45	02/25/2022 03:00	435	1.01	50,300	0.48	6	Atlas	Retained by Sneads Branch.	51,065	1
	03/06/2022 06:15	03/06/2022 06:30	15	1.25	1,390	0.66	3	Atlas	Retained by Sneads Branch.	1,744	1
	03/07/2022 07:15	03/07/2022 07:30	15	1.25	43,701	0.66	3	Atlas	Retained by Sneads Branch.	54,845	1
	03/25/2022 23:30	03/25/2022 23:45	15	0.06	2,503	0.04	1	Atlas	Retained by Sneads Branch.	145	1
	04/06/2022 08:30	04/06/2022 16:00	450	0.94	392,526	0.44	6	Atlas	Retained by Sneads Branch.	367,797	1
	04/11/2022 13:15	04/11/2022 13:30	15	0.28	3,009	0.10	3	Atlas	Retained by Sneads Branch.	834	1
	04/11/2022 21:45	04/11/2022 23:00	75	0.28	92,330	0.10	3	Atlas	Retained by Sneads Branch.	25,576	1
	04/13/2022 06:30	04/13/2022 10:15	105	1.36	29,386	0.67	1	Atlas	Retained by Sneads Branch.	39,964	1
	04/13/2022 19:45	04/14/2022 03:30	465	1.36	68,382	0.67	1	Atlas		92,999	1
	04/16/2022 00:30	04/16/2022 01:15	45	0.20	40,143	0.14	1	Atlas	Retained by Sneads Branch.	8,149	1
	04/16/2022 04:00	04/16/2022 07:30	210	0.30	97,068	0.16	6	Atlas	Retained by Sneads Branch.	28,732	1
	04/21/2022 05:45	04/21/2022 06:45	60	0.25	48,611	0.12	3	Atlas	Retained by Sneads Branch.	12,347	1
	04/30/2022 21:45	04/30/2022 22:00	15	0.15	19,348	0.11	1	Atlas	Retained by Sneads Branch.	2,825	1

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	05/03/2022 05:45	05/03/2022 06:45	60	0.59	18,104	0.28	3	Atlas	Retained by Sneads Branch.	10,645	1
	05/16/2022 01:30	05/16/2022 01:45	15	0.29	15,311	0.20	1	Atlas	Retained by Sneads Branch.	4,486	1
	05/18/2022 16:00	05/18/2022 16:15	15	0.35	1,396	0.24	1	Atlas	Retained by Sneads Branch.	496	1
	05/25/2022 16:30	05/25/2022 16:45	15	0.32	7,850	0.27	1	Atlas	Retained by Sneads Branch.	2,520	1
	05/26/2022 10:30	05/26/2022 12:30	120	0.71	3,942	0.26	12	Atlas	Retained by Sneads Branch.	2,819	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.74	275,941	0.55	1	Atlas		204,197	1
	06/06/2022 22:00	06/06/2022 23:30	90	0.39	13,299	0.19	6	Atlas	Retained by Sneads Branch.	5,213	1
CSO182 Total										5,806,529	60
CSO183	07/16/2021 22:00	07/16/2021 22:15	15	0.71	84	0.39	6	Atlas	Retained by Sneads Branch.	60	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.46	482	0.28	3	Atlas	Retained by Sneads Branch.	222	1
	08/17/2021 14:00	08/17/2021 14:15	15	0.11	32,420	0.10	1	Atlas	Retained by Sneads Branch.	3,599	1
	08/27/2021 14:30	08/27/2021 15:00	30	0.67	9,825	0.57	1	Atlas		6,534	1
	08/30/2021 12:30	08/30/2021 13:00	30	0.87	312	0.55	1	Atlas		272	1
	09/20/2021 05:45	09/20/2021 06:00	15	1.64	33	0.71	6	Atlas		54	1
	10/03/2021 09:45	10/03/2021 10:00	15	1.03	2,631	0.60	1	Atlas		2,713	1
	10/06/2021 16:15	10/06/2021 16:30	15	0.34	4,999	0.22	1	Atlas	Retained by Sneads Branch.	1,725	1
	02/04/2022 17:00	02/04/2022 17:15	15	0.03	4,703	0.02	3	Atlas	Retained by Sneads Branch.	122	1
	03/07/2022 06:00	03/07/2022 06:15	15	1.42	50	0.69	3	Atlas	Retained by Sneads Branch.	71	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.35	17,828	0.68	1	Atlas		24,085	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.74	15,129	0.54	1	Atlas		11,135	1
	06/10/2022 12:15	06/10/2022 12:30	15	0.10	176	0.07	3	Atlas	Retained by Sneads Branch.	17	1



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CSO183 Total										50,609	13
CSO184	07/01/2021 11:00	07/01/2021 12:45	105	1.60	7,868	0.83	6	Atlas		12,597	1
	07/16/2021 22:00	07/16/2021 22:15	15	0.71	17,360	0.39	6	Atlas	Retained by Sneads Branch.	12,413	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.46	12,466	0.28	3	Atlas	Retained by Sneads Branch.	5,747	1
	08/17/2021 14:00	08/17/2021 14:15	15	0.11	224,906	0.10	1	Atlas	Retained by Sneads Branch.	24,965	1
	08/27/2021 14:30	08/27/2021 15:00	30	0.67	324,474	0.57	1	Atlas		215,775	1
	08/30/2021 12:30	08/30/2021 13:00	30	0.87	48,229	0.55	1	Atlas		42,007	1
	09/20/2021 05:45	09/20/2021 06:00	15	1.64	6,289	0.71	6	Atlas		10,333	1
	10/03/2021 09:30	10/03/2021 10:15	45	1.03	17,016	0.60	1	Atlas		17,544	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.58	5,332	0.46	1	Atlas	Retained by Sneads Branch.	3,098	1
	12/11/2021 01:45	12/11/2021 02:00	15	0.99	10,071	0.45	12	Atlas	Retained by Sneads Branch.	10,021	1
	03/06/2022 22:00	03/07/2022 06:45	525	1.42	957	0.69	3	Atlas	Retained by Sneads Branch.	1,355	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.35	62,647	0.68	1	Atlas		84,637	1
	06/02/2022 00:15	06/02/2022 00:45	30	0.74	12,505	0.54	1	Atlas		9,204	1
	06/26/2022 20:30	06/26/2022 20:45	15	0.93	35,824	0.62	3	Atlas		33,173	1
CSO184 Total										482,867	14
CSO185	07/01/2021 10:15	07/01/2021 13:45	210	1.60	59,250	0.83	6	Atlas		94,859	1
	07/06/2021 15:00	07/06/2021 15:15	15	0.22	11,824	0.19	1	Atlas	Retained by Sneads Branch.	2,589	1
	07/10/2021 23:00	07/10/2021 23:15	15	0.83	10,768	0.38	12	Atlas	Retained by Sneads Branch.	8,905	1
	07/16/2021 22:00	07/17/2021 02:45	285	0.71	63,608	0.39	6	Atlas	Retained by Sneads Branch.	45,480	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.46	73,393	0.28	3	Atlas	Retained by Sneads Branch.	33,834	1
	08/17/2021 14:00	08/17/2021 14:15	15	0.11	135,324	0.10	1	Atlas	Retained by Sneads Branch.	15,021	1

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	08/27/2021 14:30	08/27/2021 15:15	45	0.67	719,054	0.57	1	Atlas		478,171	1
	08/30/2021 12:15	08/30/2021 13:30	75	0.87	169,404	0.55	1	Atlas		147,551	1
	09/20/2021 03:45	09/20/2021 08:30	285	1.64	36,469	0.71	6	Atlas		59,919	1
	09/22/2021 00:30	09/22/2021 01:00	30	1.37	13,189	0.53	24	Atlas	Retained by Sneads Branch.	18,056	1
	09/22/2021 11:30	09/22/2021 12:00	30	1.37	13,732	0.53	24	Atlas	Retained by Sneads Branch.	18,799	1
	10/03/2021 09:30	10/03/2021 10:45	75	1.03	144,857	0.60	1	Atlas		149,348	1
	10/05/2021 20:30	10/05/2021 21:00	30	0.58	81,558	0.46	1	Atlas	Retained by Sneads Branch.	47,385	1
	10/06/2021 16:15	10/06/2021 16:45	30	0.34	36,186	0.22	1	Atlas	Retained by Sneads Branch.	12,484	1
	10/25/2021 05:00	10/25/2021 05:30	30	0.47	11,612	0.29	1	Atlas	Retained by Sneads Branch.	5,423	1
	12/11/2021 02:00	12/11/2021 06:00	240	0.99	8,101	0.45	12	Atlas	Retained by Sneads Branch.	8,061	1
	12/28/2021 23:00	12/28/2021 23:15	15	0.62	12,488	0.25	3	Atlas	Retained by Sneads Branch.	7,805	1
	12/31/2021 23:30	01/01/2022 00:00	30	2.07	3,455	0.78	24	Atlas	Retained by Sneads Branch.	7,158	1
	01/01/2022 10:30	01/01/2022 14:00	210	2.07	7,726	0.78	24	Atlas		16,009	1
	01/09/2022 03:15	01/09/2022 05:45	150	1.42	5,330	0.61	12	Atlas		7,547	1
	02/17/2022 14:00	02/17/2022 18:15	255	2.06	57,516	0.91	12	Atlas		118,253	1
	02/23/2022 06:15	02/23/2022 11:00	165	1.09	15,751	0.51	6	Atlas		17,184	1
	02/24/2022 16:30	02/24/2022 19:30	180	1.04	3,412	0.50	6	Atlas	Retained by Sneads Branch.	3,562	1
	03/06/2022 22:00	03/07/2022 08:00	600	1.42	95,396	0.69	3	Atlas	Retained by Sneads Branch.	135,081	1
	03/18/2022 22:45	03/18/2022 23:00	15	0.23	6,862	0.20	1	Atlas	Retained by Sneads Branch.	1,578	1
	04/06/2022 09:00	04/06/2022 09:15	15	0.95	2,173	0.45	6	Atlas	Retained by Sneads Branch.	2,064	1
	04/13/2022 09:15	04/13/2022 09:30	15	1.35	2,694	0.68	1	Atlas	Retained by Sneads Branch.	3,639	1



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	04/13/2022 19:45	04/13/2022 20:30	45	1.35	493,400	0.68	1	Atlas		666,584	1
	05/03/2022 13:15	05/03/2022 13:30	15	0.50	47,219	0.24	3	Atlas	Retained by Sneads Branch.	23,657	1
	05/18/2022 15:15	05/18/2022 16:00	45	0.33	14,816	0.22	1	Atlas	Retained by Sneads Branch.	4,845	1
	05/25/2022 16:45	05/25/2022 17:30	45	0.34	20,153	0.29	1	Atlas	Retained by Sneads Branch.	6,751	1
	05/26/2022 21:45	05/26/2022 22:00	15	0.76	11,819	0.27	12	Atlas	Retained by Sneads Branch.	8,994	1
	06/02/2022 00:15	06/02/2022 00:45	30	0.74	220,674	0.54	1	Atlas		162,416	1
	06/26/2022 20:30	06/26/2022 21:45	75	0.93	190,432	0.62	3	Atlas		176,340	1
CSO185 Total										2,515,352	34
CSO186	08/26/2021 19:15	08/26/2021 19:30	15	1.68	22,554	4.68	1	Atlas	Retained by Sneads Branch.	37,800	1
	10/03/2021 09:45	10/03/2021 10:00	15	1.11	2,062	0.73	1	Atlas		2,285	1
	04/13/2022 19:45	04/13/2022 20:00	15	1.35	7,911	0.62	1	Atlas		10,672	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.73	73,923	0.53	1	Atlas		53,742	1
	06/26/2022 20:30	06/26/2022 20:45	15	1.01	10,385	0.74	1	Atlas		10,447	1
CSO186 Total										114,946	5
CSO187	08/17/2021 13:45	08/17/2021 14:00	15	0.21	55,525	0.19	1	Atlas	Retained by Sneads Branch.	11,938	1
	08/26/2021 18:45	08/26/2021 19:15	30	1.68	39,821	4.68	1	Atlas	Retained by Sneads Branch.	66,740	1
	08/27/2021 14:30	08/27/2021 14:45	15	0.36	34,420	0.30	1	Atlas		12,529	1
	08/30/2021 12:15	08/30/2021 12:30	15	0.93	24,192	0.56	1	Atlas		22,474	1
	10/03/2021 09:15	10/03/2021 09:45	30	1.11	26,120	0.73	1	Atlas		28,941	1
	04/13/2022 19:30	04/13/2022 19:45	15	1.35	20,169	0.62	1	Atlas		27,208	1
	06/02/2022 00:00	06/02/2022 00:15	15	0.73	22,987	0.53	1	Atlas		16,711	1
	06/26/2022 20:15	06/26/2022 20:30	15	1.01	1,005	0.74	1	Atlas		1,011	1
CSO187 Total										187,553	8

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CSO188	08/26/2021 19:15	08/26/2021 19:30	15	1.68	42,101	4.68	1	Atlas	Retained by Sheads Branch.	70,562	1
	10/03/2021 09:45	10/03/2021 10:00	15	1.11	107	0.73	1	Atlas		119	1
	04/13/2022 19:45	04/13/2022 20:00	15	1.35	23,145	0.62	1	Atlas		31,223	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.73	268	0.53	1	Atlas		185	1
	06/26/2022 20:15	06/26/2022 20:30	15	1.01	54	0.74	1	Atlas		54	1
CSO188 Total										102,153	5
CSO189	07/01/2021 13:00	07/01/2021 15:00	120	1.65	3,824,857	0.87	3	Atlas		6,291,890	1
	07/10/2021 22:30	07/11/2021 01:00	150	1.67	2,439,093	0.81	6	Atlas		4,075,725	1
	07/12/2021 09:15	07/12/2021 09:45	30	1.27	305,249	0.58	3	Atlas		387,666	1
	08/26/2021 19:30	08/26/2021 21:00	90	0.14	113,106,789	0.11	1	Atlas		15,721,844	1
	09/19/2021 15:00	09/19/2021 16:30	90	2.27	7,434,328	0.87	24	Atlas		16,913,097	1
	09/20/2021 07:30	09/20/2021 11:45	255	2.27	11,771,243	0.87	24	Atlas		26,779,578	1
	10/03/2021 09:45	10/03/2021 11:15	90	0.61	7,253,510	0.37	3	Atlas		4,439,148	1
	10/05/2021 20:45	10/05/2021 22:15	90	0.42	6,633,555	0.33	1	Atlas		2,812,627	1
	12/11/2021 01:30	12/11/2021 13:00	690	1.10	108,019,586	0.53	1	Atlas		118,497,485	1
	01/01/2022 11:45	01/01/2022 22:15	630	2.04	5,947,248	0.76	24	Atlas		12,102,650	1
	01/09/2022 04:30	01/09/2022 06:45	135	1.51	3,518,947	0.66	12	Atlas		5,299,534	1
	02/03/2022 12:45	02/03/2022 13:45	60	2.14	888,588	0.69	48	Atlas		1,901,578	1
	02/17/2022 14:00	02/17/2022 20:15	375	2.04	30,986,085	0.91	12	Atlas		63,087,669	1
	02/22/2022 09:45	02/23/2022 02:15	990	1.34	96,167,856	0.63	6	Atlas		128,480,255	1
	02/24/2022 19:00	02/24/2022 20:00	60	1.17	1,270,724	0.53	12	Atlas		1,480,394	1
	03/07/2022 06:00	03/07/2022 16:45	645	1.33	69,718,499	0.67	3	Atlas		92,586,167	1
	04/13/2022 19:30	04/14/2022 05:15	585	1.35	76,073,969	0.56	3	Atlas		102,775,932	1
	05/14/2022 14:45	05/14/2022 16:30	105	1.30	29,141,013	1.13	1	Atlas		37,854,176	1
	06/26/2022 20:00	06/27/2022 07:30	690	1.26	87,793,856	0.84	3	Atlas		110,269,083	1



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CSO189 Total										751,756,499	19
CSO190	07/01/2021 11:00	07/01/2021 13:30	150	1.22	140,483	0.63	3	Atlas		171,248	1
	07/08/2021 18:30	07/08/2021 19:00	30	0.70	46,502	0.60	1	Atlas		32,412	1
	07/10/2021 22:30	07/10/2021 23:15	45	1.27	51,254	0.58	12	Atlas		65,349	1
	07/12/2021 09:15	07/12/2021 10:00	45	0.91	539,141	0.49	1	Atlas		491,158	1
	07/16/2021 21:45	07/17/2021 02:45	300	0.98	17,711	0.50	6	Atlas		17,392	1
	08/26/2021 19:15	08/26/2021 21:00	105	2.31	561,875	18.05	1	Atlas		1,300,741	1
	08/27/2021 14:45	08/27/2021 15:30	45	1.04	359,903	0.88	1	Atlas		375,379	1
	08/30/2021 11:30	08/30/2021 13:15	105	0.70	379,243	0.36	3	Atlas		266,228	1
	09/19/2021 15:00	09/19/2021 15:30	30	2.24	15,961	0.86	24	Atlas		35,689	1
	09/20/2021 04:15	09/20/2021 10:15	360	2.24	188,630	0.86	24	Atlas		421,777	1
	09/21/2021 21:15	09/21/2021 22:00	45	1.46	71,330	0.56	24	Atlas		104,356	1
	10/03/2021 09:15	10/03/2021 10:30	75	1.33	596,348	0.95	1	Atlas		791,354	1
	10/05/2021 20:15	10/05/2021 21:00	45	0.51	49,355	0.38	1	Atlas		25,122	1
	10/06/2021 16:15	10/06/2021 16:30	15	0.29	3,500	0.23	1	Atlas		1,029	1
	10/25/2021 05:00	10/25/2021 05:15	15	0.46	3,179	0.27	1	Atlas		1,466	1
	12/11/2021 01:15	12/11/2021 02:00	45	1.04	16,666	0.48	12	Atlas		17,349	1
	01/01/2022 10:15	01/01/2022 14:00	225	2.00	38,590	0.74	24	Atlas		77,258	1
	01/09/2022 04:00	01/09/2022 06:00	120	1.41	38,400	0.61	12	Atlas		54,182	1
	02/17/2022 13:15	02/17/2022 18:00	285	1.97	121,818	0.87	12	Atlas		239,615	1
	02/22/2022 07:00	02/22/2022 10:45	225	1.36	149,929	0.62	12	Atlas		204,203	1
	03/07/2022 05:30	03/07/2022 08:00	150	1.31	144,783	0.63	3	Atlas		189,086	1
	04/06/2022 09:30	04/06/2022 10:00	30	0.90	2,903	0.44	6	Atlas		2,618	1
	04/13/2022 19:30	04/13/2022 20:30	60	1.23	161,685	0.47	24	Atlas		199,195	1
	05/14/2022 14:45	05/14/2022 15:45	60	1.00	841,034	0.79	1	Atlas		844,398	1

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	05/18/2022 15:15	05/18/2022 15:30	15	0.32	586	0.26	1	Atlas		185	1
	05/25/2022 16:30	05/25/2022 17:15	45	0.49	44,815	0.39	1	Atlas		21,870	1
	05/26/2022 11:00	05/26/2022 11:15	15	0.90	5,015	0.34	1	Atlas		4,528	1
	05/26/2022 21:30	05/26/2022 21:45	15	0.90	854	0.34	1	Atlas		771	1
	06/26/2022 20:30	06/26/2022 20:45	15	0.84	41,762	0.57	1	Atlas		35,038	1
CSO190 Total										5,990,997	29
CSO191	07/01/2021 11:00	07/01/2021 13:45	165	1.98	1,872,493	1.51	3	Atlas		3,707,536	1
	08/30/2021 13:30	08/30/2021 14:45	75	0.58	146,289	0.31	1	Atlas		84,409	1
	09/20/2021 06:00	09/20/2021 08:00	120	2.10	74,586	0.81	24	Atlas		156,630	1
	10/03/2021 10:00	10/03/2021 11:00	60	1.13	285,652	0.76	1	Atlas		323,930	1
	01/01/2022 07:45	01/01/2022 21:00	795	2.27	826,051	0.85	24	Atlas		1,878,439	1
	02/03/2022 10:00	02/22/2022 10:30	27390	2.25	5,477,429	0.73	48	Atlas		12,318,738	1
	02/23/2022 01:00	02/23/2022 01:15	15	0.00	263,716,082	0.00	1	Atlas		263,716	1
	02/24/2022 18:15	02/25/2022 01:30	435	1.17	308,639	0.54	12	Atlas		360,798	1
	03/07/2022 06:30	03/28/2022 23:00	31230	1.34	1,951,052	0.74	3	Atlas		2,608,557	1
	04/06/2022 12:15	04/06/2022 16:45	270	0.98	450,988	0.49	6	Atlas		440,616	1
	04/13/2022 19:45	04/14/2022 04:15	510	1.42	1,598,103	0.59	1	Atlas		2,264,511	1
	04/25/2022 12:15	04/25/2022 12:45	30	0.14	65,639	0.12	1	Atlas		9,386	1
CSO191 Total										24,417,266	12
CSO193	07/01/2021 11:00	07/01/2021 13:45	165	1.43	9,154	0.76	3	Atlas		13,117	1
	07/08/2021 18:45	07/08/2021 19:00	15	0.35	76	0.30	1	Atlas		27	1
	07/10/2021 18:45	07/10/2021 23:15	270	1.07	321	0.49	12	Atlas		343	1
	07/12/2021 09:30	07/12/2021 10:15	45	0.62	12,410	0.31	1	Atlas		7,657	1
	07/16/2021 22:00	07/17/2021 02:45	285	0.59	3,534	0.31	6	Atlas		2,081	1
	08/26/2021 19:00	08/26/2021 20:15	75	2.80	102,877	60.19	1	Atlas		287,747	1



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	08/27/2021 14:45	08/27/2021 15:15	30	0.56	98,507	0.46	1	Atlas		55,558	1
	08/30/2021 12:15	08/30/2021 13:00	45	0.88	3,280	0.49	3	Atlas		2,874	1
	09/20/2021 04:30	09/20/2021 10:15	345	2.02	2,427	0.78	24	Atlas		4,910	1
	09/22/2021 11:30	09/22/2021 12:00	30	1.14	2,322	0.44	24	Atlas		2,640	1
	10/03/2021 09:30	10/03/2021 10:15	45	1.56	82,622	1.87	1	Atlas		129,055	1
	10/05/2021 20:30	10/05/2021 21:00	30	0.51	5,335	0.39	1	Atlas		2,705	1
	12/11/2021 01:45	12/11/2021 05:45	240	0.92	4,729	0.42	12	Atlas		4,342	1
	01/01/2022 10:30	01/01/2022 13:45	195	2.07	1,701	0.77	24	Atlas		3,528	1
	01/09/2022 05:00	01/09/2022 05:30	30	1.43	842	0.62	12	Atlas		1,206	1
	02/17/2022 15:30	02/17/2022 16:30	60	1.98	250	0.88	12	Atlas		493	1
	02/22/2022 10:00	02/22/2022 11:45	105	1.13	3,282	0.53	6	Atlas		3,705	1
	02/25/2022 00:30	02/25/2022 00:45	15	1.03	14	0.47	12	Atlas		14	1
	03/07/2022 05:45	03/07/2022 06:30	45	1.18	2,853	0.88	3	Atlas		3,361	1
	04/06/2022 09:45	04/06/2022 10:00	15	0.93	4,605	0.45	6	Atlas		4,297	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.28	6,474	0.51	1	Atlas		8,312	1
	05/03/2022 06:15	05/03/2022 06:30	15	0.52	5,379	0.27	3	Atlas		2,776	1
	05/14/2022 15:15	05/14/2022 15:30	15	0.55	426	0.38	1	Atlas		235	1
	05/25/2022 16:45	05/25/2022 17:15	30	0.43	10,210	0.35	1	Atlas		4,441	1
	05/26/2022 21:45	05/26/2022 22:00	15	0.86	490	0.39	1	Atlas		419	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.65	3,461	0.44	1	Atlas		2,232	1
	06/26/2022 20:15	06/26/2022 20:45	30	0.99	16,340	0.70	1	Atlas		16,177	1
CSO193 Total										564,253	27
CSO195	04/13/2022 19:45	04/13/2022 20:00	15	1.31	171	0.54	1	Atlas		224	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.64	72	0.44	1	Atlas		47	1
CSO195 Total										270	2

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CSO196	07/01/2021 12:00	07/01/2021 13:00	60	1.31	4,622	0.73	3	Atlas		6,064	1
	07/10/2021 18:30	07/10/2021 23:00	270	1.02	374	0.47	12	Atlas		383	1
	07/12/2021 09:30	07/12/2021 09:45	15	0.48	12,968	0.21	12	Atlas		6,290	1
	07/16/2021 21:45	07/16/2021 22:00	15	0.57	728	0.30	6	Atlas		413	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.36	115	0.24	3	Atlas		42	1
	08/26/2021 19:00	08/26/2021 19:45	45	1.76	95,351	4.98	1	Atlas		167,436	1
	08/27/2021 14:30	08/27/2021 15:00	30	0.50	253,084	0.41	1	Atlas		125,529	1
	08/30/2021 12:30	08/30/2021 12:45	15	0.87	56,450	0.49	3	Atlas		49,281	1
	09/20/2021 03:45	09/20/2021 08:15	270	1.90	77	0.73	24	Atlas		147	1
	10/03/2021 09:30	10/03/2021 10:00	30	1.43	76,640	1.33	1	Atlas		109,901	1
	10/05/2021 20:15	10/05/2021 20:45	30	0.53	4,025	0.41	1	Atlas		2,133	1
	03/07/2022 05:45	03/07/2022 06:30	45	1.22	2,587	0.67	3	Atlas		3,148	1
	04/06/2022 09:30	04/06/2022 09:45	15	0.94	3	0.45	6	Atlas		3	1
	04/13/2022 19:30	04/13/2022 20:00	30	1.31	41,999	0.54	1	Atlas		54,976	1
	05/25/2022 16:45	05/25/2022 17:00	15	0.41	1,885	0.34	1	Atlas		779	1
	06/02/2022 00:00	06/02/2022 00:15	15	0.64	3,149	0.44	1	Atlas		2,028	1
	06/26/2022 20:15	06/26/2022 20:30	15	1.07	104,303	0.72	1	Atlas		111,917	1
CSO196 Total										640,470	17
CSO197	07/01/2021 12:00	07/01/2021 12:15	15	1.31	755	0.73	3	Atlas		991	1
	08/26/2021 19:00	08/26/2021 19:30	30	1.76	259,989	4.98	1	Atlas		456,541	1
	08/27/2021 14:15	08/27/2021 14:45	30	0.50	4,973	0.41	1	Atlas		2,467	1
	08/30/2021 12:15	08/30/2021 12:30	15	0.87	74	0.49	3	Atlas		65	1
	10/03/2021 09:30	10/03/2021 09:45	15	1.43	19,637	1.33	1	Atlas		28,160	1
	10/05/2021 20:15	10/05/2021 20:30	15	0.53	2,282	0.41	1	Atlas		1,210	1
	11/18/2021 10:45	11/18/2021 11:00	15	0.39	298	0.21	6	Atlas		115	1



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	02/03/2022 16:15	02/05/2022 22:30	3255	2.14	319,160	0.69	48	Atlas		681,727	1
	04/13/2022 19:30	04/13/2022 20:00	30	1.31	3,239	0.54	1	Atlas		4,240	1
	05/25/2022 16:45	05/25/2022 17:00	15	0.41	3,031	0.34	1	Atlas		1,252	1
	06/02/2022 00:00	06/02/2022 00:15	15	0.64	3,113	0.44	1	Atlas		2,005	1
	06/26/2022 20:15	06/26/2022 20:30	15	1.07	4,351	0.72	1	Atlas		4,669	1
CSO197 Total										1,183,439	12
CSO198	07/01/2021 12:00	07/01/2021 13:00	60	1.31	1,755	0.73	3	Atlas		2,303	1
	08/26/2021 18:45	08/26/2021 19:30	45	1.76	129,292	4.98	1	Atlas		227,036	1
	08/27/2021 14:15	08/27/2021 15:00	45	0.50	49,695	0.41	1	Atlas		24,649	1
	08/30/2021 12:15	08/30/2021 12:30	15	0.87	2,545	0.49	3	Atlas		2,222	1
	10/03/2021 09:15	10/03/2021 10:00	45	1.43	78,912	1.33	1	Atlas		113,160	1
	10/05/2021 20:15	10/05/2021 20:30	15	0.53	14,167	0.41	1	Atlas		7,509	1
	03/07/2022 05:45	03/07/2022 06:15	30	1.22	3,397	0.67	3	Atlas		4,135	1
	04/13/2022 19:30	04/13/2022 20:00	30	1.31	4,431	0.54	1	Atlas		5,800	1
	06/02/2022 00:00	06/02/2022 00:15	15	0.64	7,314	0.44	1	Atlas		4,710	1
	06/26/2022 20:00	06/26/2022 20:30	30	1.07	49,696	0.72	1	Atlas		53,324	1
CSO198 Total										444,847	10
CSO199	07/01/2021 11:00	07/01/2021 15:30	270	1.31	9,851	0.73	3	Atlas		12,924	1
	07/08/2021 19:00	07/08/2021 19:15	15	0.24	14	0.20	1	Atlas		3	1
	07/10/2021 18:45	07/10/2021 23:15	270	1.02	727	0.47	12	Atlas		744	1
	07/12/2021 09:45	07/12/2021 10:00	15	0.48	5,779	0.21	12	Atlas		2,803	1
	07/16/2021 22:00	07/17/2021 02:45	285	0.57	854	0.30	6	Atlas		485	1
	08/09/2021 10:00	08/09/2021 10:15	15	0.36	700	0.24	3	Atlas		252	1
	08/26/2021 19:30	08/26/2021 20:00	30	1.76	9,143	4.98	1	Atlas		16,055	1
	08/30/2021 12:30	08/30/2021 13:00	30	0.87	1,485	0.49	3	Atlas		1,296	1

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	09/19/2021 15:00	09/19/2021 15:15	15	1.90	153	0.73	24	Atlas		291	1
	09/20/2021 04:30	09/20/2021 06:00	90	1.90	634	0.73	24	Atlas		1,202	1
	10/03/2021 09:30	10/03/2021 10:30	60	1.43	56,193	1.33	1	Atlas		80,580	1
	10/05/2021 20:30	10/05/2021 21:00	30	0.53	10,546	0.41	1	Atlas		5,589	1
	10/15/2021 06:30	10/15/2021 17:45	555	0.57	1,254	0.25	12	Atlas		717	1
	10/24/2021 07:45	10/24/2021 11:00	195	0.27	176	0.18	3	Atlas		47	1
	10/25/2021 05:00	10/25/2021 05:30	30	0.47	3	0.28	3	Atlas		1	1
	10/30/2021 08:00	10/30/2021 16:30	510	0.52	5	0.20	24	Atlas		2	1
	11/21/2021 12:45	11/21/2021 13:00	15	0.32	0	0.15	6	Atlas		0	1
	12/11/2021 01:45	12/11/2021 06:00	255	0.94	944	0.43	12	Atlas		887	1
	12/16/2021 17:45	12/16/2021 18:00	15	0.28	2	0.19	3	Atlas		1	1
	12/29/2021 01:30	12/29/2021 02:00	30	0.68	1	0.27	3	Atlas		1	1
	12/29/2021 12:00	12/29/2021 12:15	15	0.68	17	0.27	3	Atlas		12	1
	12/31/2021 23:30	01/01/2022 00:00	30	2.09	130	0.78	24	Atlas		272	1
	01/01/2022 13:30	01/01/2022 13:45	15	2.09	317	0.78	24	Atlas		662	1
	02/02/2022 13:30	02/02/2022 14:30	60	2.14	2	0.89	48	Atlas		3	1
	02/04/2022 14:15	02/04/2022 15:00	45	0.03	110	0.02	3	Atlas		3	1
	02/17/2022 15:30	02/17/2022 17:00	90	2.04	342	0.90	12	Atlas		698	1
	02/22/2022 10:15	02/22/2022 11:45	90	1.12	3,783	0.53	6	Atlas		4,241	1
	03/09/2022 06:00	03/10/2022 07:15	1395	0.06	27,342	0.04	3	Atlas		1,558	1
	04/05/2022 07:30	04/06/2022 10:15	1605	0.29	212	0.11	12	Atlas		61	1
	04/13/2022 09:30	04/13/2022 09:45	15	1.31	647	0.54	1	Atlas		847	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.31	26,299	0.54	1	Atlas		34,426	1
	05/14/2022 15:15	06/02/2022 12:00	27165	0.30	15,087	0.20	3	Atlas		4,602	1
	06/06/2022 18:15	06/06/2022 19:30	75	0.34	411	0.17	6	Atlas		140	1



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	06/26/2022 20:30	06/26/2022 21:00	30	1.07	33,871	0.72	1	Atlas		36,343	1
CSO199 Total										207,751	34
CSO200	08/27/2021 14:30	08/27/2021 15:00	30	0.50	1,283	0.41	1	Atlas		636	1
	06/26/2022 20:15	06/26/2022 20:30	15	1.07	3,416	0.72	1	Atlas		3,665	1
CSO200 Total										4,301	2
CSO201	07/01/2021 11:30	07/01/2021 13:15	105	1.43	7,141	0.76	3	Atlas		10,234	1
	07/10/2021 18:45	07/10/2021 23:15	270	1.07	1,022	0.49	12	Atlas		1,094	1
	07/12/2021 09:45	07/12/2021 10:15	30	0.62	6,832	0.31	1	Atlas		4,216	1
	07/16/2021 22:00	07/16/2021 22:15	15	0.59	2,730	0.31	6	Atlas		1,608	1
	08/26/2021 19:45	08/26/2021 20:15	30	2.80	28,435	60.19	1	Atlas		79,533	1
	08/27/2021 14:45	08/27/2021 15:15	30	0.56	31,419	0.46	1	Atlas		17,721	1
	10/03/2021 09:30	10/03/2021 10:15	45	1.56	20,830	1.87	1	Atlas		32,537	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.51	12,671	0.39	1	Atlas		6,424	1
	10/15/2021 08:30	10/15/2021 08:45	15	0.54	16,889	0.24	1	Atlas		9,171	1
	02/22/2022 11:30	02/22/2022 11:45	15	1.13	22	0.53	6	Atlas		24	1
	03/07/2022 06:00	03/07/2022 06:15	15	1.18	734	0.68	3	Atlas		864	1
	04/13/2022 19:45	04/13/2022 20:15	30	1.28	22,033	0.51	1	Atlas		28,290	1
	05/14/2022 15:15	05/14/2022 15:30	15	0.55	16,376	0.38	1	Atlas		9,023	1
	05/25/2022 17:00	05/25/2022 17:15	15	0.43	471	0.35	1	Atlas		205	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.65	35,715	0.44	1	Atlas		23,036	1
CSO201 Total										223,979	15
CSO202	07/01/2021 11:00	07/01/2021 13:15	135	1.31	11,351	0.73	3	Atlas		14,893	1
	07/10/2021 18:45	07/10/2021 23:15	270	1.02	700	0.47	12	Atlas		716	1
	07/12/2021 09:30	07/12/2021 10:00	30	0.48	5,602	0.21	12	Atlas		2,717	1
	07/16/2021 22:00	07/17/2021 02:45	285	0.57	397	0.30	6	Atlas		225	1

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	08/09/2021 10:00	08/09/2021 10:15	15	0.36	4,409	0.24	3	Atlas		1,587	1
	08/26/2021 19:00	08/26/2021 20:00	60	1.76	43,282	4.98	1	Atlas		76,002	1
	08/27/2021 14:30	08/27/2021 15:15	45	0.50	22,139	0.41	1	Atlas		10,981	1
	08/30/2021 12:15	08/30/2021 13:00	45	0.87	1,656	0.49	3	Atlas		1,445	1
	09/19/2021 15:00	09/19/2021 15:15	15	1.90	15	0.73	24	Atlas		28	1
	09/20/2021 04:30	09/20/2021 04:45	15	1.90	35	0.73	24	Atlas		66	1
	10/03/2021 09:30	10/03/2021 10:15	45	1.43	34,868	1.33	1	Atlas		50,000	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.53	7,244	0.41	1	Atlas		3,839	1
	10/15/2021 08:30	10/15/2021 08:45	15	0.57	1,307	0.25	12	Atlas		747	1
	12/31/2021 23:30	12/31/2021 23:45	15	2.09	320	0.78	24	Atlas		667	1
	02/22/2022 10:00	02/22/2022 11:45	105	1.12	6,317	0.53	6	Atlas		7,081	1
	03/07/2022 05:45	03/07/2022 06:30	45	1.22	2,824	0.67	3	Atlas		3,437	1
	03/18/2022 22:45	03/18/2022 23:00	15	0.30	3,855	0.26	1	Atlas		1,160	1
	04/06/2022 09:45	04/06/2022 10:00	15	0.94	1,754	0.45	6	Atlas		1,649	1
	04/13/2022 09:15	04/13/2022 09:30	15	1.31	5	0.54	1	Atlas		6	1
	04/13/2022 19:45	04/13/2022 20:00	15	1.31	10,637	0.54	1	Atlas		13,923	1
	05/03/2022 06:15	05/03/2022 06:30	15	0.58	3,339	0.30	3	Atlas		1,950	1
	05/25/2022 16:45	05/25/2022 17:00	15	0.41	400	0.34	1	Atlas		165	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.64	9,258	0.44	1	Atlas		5,962	1
CSO202 Total										199,251	23
CSO203	07/01/2021 12:15	07/01/2021 12:30	15	1.31	10	0.73	3	Atlas		13	1
	08/26/2021 19:15	08/26/2021 19:45	30	1.76	63,685	4.98	1	Atlas		111,830	1
	08/27/2021 14:45	08/27/2021 15:00	15	0.50	48,787	0.41	1	Atlas		23,206	1
	10/03/2021 09:30	10/03/2021 10:15	45	1.43	47,805	1.33	1	Atlas		68,553	1
	10/05/2021 20:30	10/05/2021 20:45	15	0.53	1,022	0.41	1	Atlas		542	1



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	02/22/2022 11:30	02/22/2022 11:45	15	1.12	201	0.53	6	Atlas		226	1
	03/07/2022 06:00	03/07/2022 06:15	15	1.22	21	0.67	3	Atlas		26	1
	03/19/2022 10:45	03/19/2022 11:00	15	0.30	171	0.26	1	Atlas		52	1
	03/23/2022 16:15	03/23/2022 16:30	15	0.01	19,292	0.01	1	Atlas		135	1
	04/13/2022 19:45	04/13/2022 20:00	15	1.31	8,396	0.54	1	Atlas		10,990	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.64	36,428	0.44	1	Atlas		23,460	1
	06/26/2022 20:15	06/26/2022 20:45	30	1.07	16,997	0.72	1	Atlas		18,238	1
CSO203 Total										257,270	12
CSO205	07/01/2021 10:15	07/01/2021 12:30	135	1.33	300	0.69	3	Atlas		398	1
	07/06/2021 15:00	07/06/2021 15:15	15	0.17	47	0.14	1	Atlas	Retained by Sneads Branch.	8	1
	07/10/2021 18:45	07/11/2021 04:00	555	0.86	560	0.40	12	Atlas	Retained by Sneads Branch.	485	1
	07/16/2021 21:45	07/16/2021 22:00	15	0.71	20	0.39	6	Atlas	Retained by Sneads Branch.	14	1
	08/17/2021 14:00	08/17/2021 14:15	15	0.21	190	0.19	1	Atlas	Retained by Sneads Branch.	41	1
	08/30/2021 12:15	08/30/2021 12:30	15	0.96	2	0.61	1	Atlas		2	1
	09/20/2021 05:45	09/20/2021 06:00	15	1.81	3	0.71	6	Atlas		6	1
	10/03/2021 09:30	10/03/2021 10:30	60	1.05	950	0.65	1	Atlas		998	1
	10/05/2021 20:15	10/05/2021 20:30	15	0.56	123	0.44	1	Atlas		68	1
	12/11/2021 01:45	12/11/2021 02:00	15	1.02	8	0.47	12	Atlas	Retained by Sneads Branch.	8	1
	04/13/2022 19:45	04/13/2022 20:00	15	1.36	2	0.67	1	Atlas		3	1
	06/02/2022 00:15	06/02/2022 00:30	15	0.74	7,647	0.55	1	Atlas		5,659	1
	06/26/2022 20:15	06/26/2022 20:30	15	0.98	13	0.69	1	Atlas		13	1
CSO205 Total										7,704	13
CSO208	08/27/2021 14:45	08/27/2021 15:00	15	1.10	1,503	0.93	1	Atlas		1,652	1
	05/14/2022 15:00	05/14/2022 15:15	15	0.85	1,024	0.64	1	Atlas		866	1

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	06/26/2022 20:00	06/26/2022 20:15	15	0.89	21,524	0.62	1	Atlas		19,070	1
CSO208 Total										21,589	3
CSO210	07/01/2021 10:45	07/01/2021 19:15	510	2.08	234,842	1.74	3	Atlas		488,940	1
	07/10/2021 07:30	07/10/2021 08:00	30	0.27	49,094	0.22	1	Atlas		13,304	1
	07/10/2021 18:15	07/11/2021 07:00	765	1.57	4,610,623	0.75	6	Atlas		7,243,289	1
	07/12/2021 08:45	07/12/2021 17:00	495	1.35	4,345,516	0.56	12	Atlas		5,870,792	1
	07/16/2021 20:45	07/17/2021 08:00	675	1.43	332,707	0.73	6	Atlas		477,101	1
	08/09/2021 09:45	08/09/2021 13:00	195	0.45	3,816	0.31	1	Atlas		1,717	1
	08/26/2021 20:30	08/26/2021 23:00	150	0.01	1,304,160	0.01	1	Atlas		14,346	1
	08/27/2021 15:15	08/27/2021 16:30	75	0.08	179,944	0.06	1	Atlas		14,935	1
	08/30/2021 13:00	08/30/2021 21:30	510	0.63	302,539	0.36	1	Atlas		189,389	1
	09/05/2021 05:00	09/05/2021 17:15	735	1.01	335,052	0.46	12	Atlas		338,403	1
	09/19/2021 14:30	09/19/2021 19:15	285	2.21	80,731	0.85	24	Atlas		178,173	1
	09/20/2021 04:30	09/20/2021 19:15	885	2.21	171,157	0.85	24	Atlas		377,743	1
	09/21/2021 21:15	09/22/2021 20:00	1365	1.69	329,431	0.65	24	Atlas		558,056	1
	10/03/2021 09:00	10/03/2021 19:15	615	0.97	335,857	0.64	1	Atlas		324,774	1
	10/05/2021 20:15	10/06/2021 01:15	300	0.46	251,942	0.35	1	Atlas		115,641	1
	10/29/2021 05:45	10/29/2021 09:15	210	0.47	101,934	0.28	3	Atlas		48,419	1
	12/06/2021 07:45	12/06/2021 10:45	180	0.62	55,908	0.30	6	Atlas		34,551	1
	12/11/2021 01:15	12/11/2021 08:15	420	1.18	160,146	0.54	12	Atlas		188,972	1
	12/17/2021 18:15	12/18/2021 00:00	345	0.57	64,199	0.22	12	Atlas		36,401	1
	12/29/2021 00:15	12/29/2021 03:00	165	0.68	44,448	0.28	6	Atlas		30,047	1
	01/01/2022 05:45	01/02/2022 02:45	1260	2.19	214,653	0.82	24	Atlas		469,231	1
	01/09/2022 03:00	01/09/2022 10:00	420	1.52	165,647	0.66	12	Atlas		251,949	1
	02/03/2022 09:45	02/03/2022 15:15	330	2.24	50,337	0.72	48	Atlas		112,705	1



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	02/17/2022 09:45	02/18/2022 00:00	855	2.07	214,275	0.92	12	Atlas		444,191	1
	02/22/2022 08:00	02/22/2022 14:45	405	1.37	429,582	0.65	6	Atlas		588,527	1
	02/24/2022 16:30	02/25/2022 04:45	735	1.17	377,718	0.54	12	Atlas		442,308	1
	03/07/2022 05:30	03/07/2022 11:00	330	1.36	153,319	0.73	3	Atlas		207,900	1
	04/06/2022 09:30	04/06/2022 18:30	540	0.92	292,881	0.46	6	Atlas		270,036	1
	04/13/2022 11:45	04/14/2022 01:15	810	1.41	158,836	0.59	1	Atlas		224,118	1
	05/25/2022 18:15	05/25/2022 19:45	90	0.27	32,718	0.20	1	Atlas		8,867	1
	05/26/2022 21:15	05/27/2022 00:15	180	0.63	37,287	0.24	12	Atlas		23,491	1
	06/01/2022 23:45	06/02/2022 03:00	195	0.50	53,750	0.33	3	Atlas		26,660	1
	06/26/2022 20:00	06/27/2022 00:30	270	0.62	236,108	0.43	1	Atlas		145,679	1
CSO210 Total										19,760,655	33
CSO211	07/01/2021 11:30	07/01/2021 15:30	240	2.08	35,113,421	1.74	3	Atlas		73,106,142	1
	07/10/2021 23:00	07/11/2021 01:00	120	1.57	5,202,083	0.75	6	Atlas		8,172,473	1
	07/12/2021 08:45	07/12/2021 11:45	120	1.35	3,744,029	0.56	12	Atlas		5,058,183	1
	08/26/2021 19:45	08/26/2021 21:30	105	0.01	392,593,214	0.01	1	Atlas		4,318,525	1
	08/27/2021 14:45	08/27/2021 17:00	135	0.08	288,984,859	0.06	1	Atlas		23,985,743	1
	08/30/2021 13:15	08/30/2021 15:15	120	0.63	13,595,551	0.36	1	Atlas		8,510,815	1
	09/05/2021 09:15	09/05/2021 11:00	105	1.01	3,443,492	0.46	12	Atlas		3,477,927	1
	09/20/2021 05:45	09/20/2021 11:30	345	2.21	23,557,418	0.85	24	Atlas		51,991,222	1
	09/22/2021 15:00	09/22/2021 16:45	105	1.69	963,437	0.65	24	Atlas		1,632,062	1
	10/03/2021 09:30	10/03/2021 11:15	105	0.97	42,700,106	0.64	1	Atlas		41,291,003	1
	01/01/2022 10:15	01/01/2022 22:30	735	2.19	28,375,313	0.82	24	Atlas		62,028,433	1
	01/09/2022 04:15	01/09/2022 07:45	210	1.52	24,828,587	0.66	12	Atlas		37,764,281	1
	02/17/2022 12:15	02/17/2022 19:15	420	2.07	6,752,721	0.92	12	Atlas		13,998,391	1
	02/22/2022 10:00	02/22/2022 13:30	210	1.37	10,334,340	0.65	6	Atlas		14,158,046	1

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	02/24/2022 18:30	02/24/2022 21:00	150	1.17	4,294,362	0.54	12	Atlas		5,028,698	1
	03/07/2022 06:30	03/07/2022 09:30	180	1.36	6,029,190	0.73	3	Atlas		8,175,581	1
	04/06/2022 11:15	04/06/2022 15:00	225	0.92	5,444,384	0.46	6	Atlas		5,019,722	1
	04/13/2022 20:00	04/13/2022 22:30	150	1.41	5,971,968	0.59	1	Atlas		8,426,446	1
	06/26/2022 20:30	06/26/2022 23:00	150	0.62	29,697,524	0.43	1	Atlas		18,323,372	1
CSO211 Total										394,467,066	19

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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 & 191	8	125	1095	18	381	6765	113	2784	77235	1287			
016	8	0	285	5	1	555	9	39	5625	94			
018	0	0	0	0	10	960	16	158	30045	501			
019	8	14	435	7	14	435	7	193	15990	267			
020	8	1	435	7	85	14610	244	355	26115	435			
022	8	2	315	5	2	435	7	5	945	16			
023	8	0	0	0	0	0	0	2	525	9			
027	N/A5	0	0	0	0	0	0	0	0	0			
028	8	0	0	0	0	0	0	1	2520	42			
029	8	0	105	2	0	180	3	5	6315	105			
031	N/A5	0	0	0	0	0	0	0	0	0			
034	8	0	180	3	0	300	5	3	7680	128			
035	N/A5	0	0	0	0	45	0	0	0	0			
036	8	0	165	3	0	255	4	0	480	8			
038	N/A5	0	195	3	0	375	6	0	390	7			
050	8	0	0	0	0	0	0	20	7230	121			
051	N/A - CSO eliminated ⁴	N/A - CSO eliminated ⁴									0	1020	17
052	8	0	0	0	1	1920	32	2	2700	45			
053	8	0	0	0	0	30	0	8	11100	185			
054	8	0	465	8	0	270	5	2	8865	148			
055	8	1	510	9	1	255	4	5	2535	42			
056	8	0	0	0	0	30	0	4	2550	43			
057	N/A5	0	0	0	0	0	0	0	0	0			
058	8	0	0	0	0	0	0	51	21510	359			
062	N/A5	1	255	4	7	1665	28	100	18525	309			
082	0	0	0	0	0	210	4	19	11925	199			
083	N/A - CSO eliminated ⁴	N/A - CSO eliminated ⁴									0	345	6
084	0	0	0	0	0	120	2	19	5205	87			
086	N/A5	0	0	0	0	0	0	0	0	0			
088	4	0	45	0	0	105	2	11	8885	145			
091	8	0	0	0	0	0	0	3	9675	161			
092	N/A5	0	0	0	0	0	0	1	30	0			



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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
093	0	0	0	0	0	0	0	0	60	1
097	8	0	285	5	345	6	12390	18	2955	49
104	8	29	565	10	915	15	9450	260	158	158
105	8	0	0	0	0	0	0	0	0	0
106	N/A - CSO eliminated ⁴	N/A - CSO eliminated ⁴								
108	8	2	210	4	345	6	7410	52	1695	28
109	N/A5	2	705	12	1080	18	1695	1	9735	162
110	8	0	240	4	285	5	3675	20	3675	61
111	8	1	315	5	360	6	2475	5	2475	41
113	8	0	0	0	0	0	13320	6	10350	173
117	8	35	2415	40	3480	58	86	7830	6825	114
118	0	0	0	0	555	9	118	10350	1890	32
119	0	1	1185	20	330	6	10	5295	3225	54
120	0	0	0	0	135	2	7	4170	70	
121	0	0	0	0	30	0	6	0	0	
125	4	0	0	0	75	1	24	0	0	
126	4	0	0	0	360	6	3	0	0	
127	N/A - CSO eliminated ⁴	N/A - CSO eliminated ⁴								
130	8	0	0	0	0	0	2	0	0	
131	4	0	75	1	135	2	2	135	2	
132	4	0	0	0	0	0	83	0	0	
137	N/A - CSO eliminated ⁴	N/A - CSO eliminated ⁴								
140	0	0	0	0	120	2	3	3030	51	
141	0	0	0	0	0	0	1	10215	170	
144	N/A5	1	345	6	495	8	1	225	4	
146	8	1	315	5	390	7	38	5910	99	
148	8	0	0	0	0	0	1	1650	28	
149	8	22	1920	32	2640	44	138	7590	127	
150	8	0	0	0	0	0	1	1575	26	
151	8	0	90	2	165	3	98	35145	586	
152	8	6	720	12	930	16	59	11715	195	

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		VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	VOLUME (MG)	TYPICAL YEAR MODELED TOTAL MINUTES ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED	TYPICAL YEAR MODELED TOTAL HOURS ACTIVATED
153	0	0	0	0	1	1050	18	18	19	15345	256	256	
154	4	0	0	0	0	0	0	0	23	15480	258	258	
155	8	0	0	0	0	0	0	0	1	2130	36	36	
160	0	0	0	0	0	0	0	0	0	465	8	8	
161	N/A ⁵	0	0	0	0	0	0	0	0	0	0	0	
166	4	0	0	0	0	0	0	0	52	5595	93	93	
167	4	0	0	0	0	0	0	0	0	1890	32	32	
172	N/A - CSO eliminated ⁴	N/A - CSO eliminated ⁴											
178	8	0	75	1	0	105	2	2	20	11250	188	188	
179	N/A ⁵	0	0	0	0	0	0	0	0	0	0	0	
181	8	0	0	0	0	0	0	0	4	8835	147	147	
189	8	25	555	9	37	1005	17	17	240	11505	192	192	
190	8	1	210	4	1	210	4	4	30	7380	123	123	
193	8	0	180	3	0	300	5	5	0	315	5	5	
195	8	0	0	0	0	135	2	2	3	10545	176	176	
196	8	0	0	0	0	240	4	4	0	495	8	8	
197	8	0	165	3	0	270	5	5	3	8385	140	140	
198	N/A ⁵	0	150	3	0	255	4	4	0	510	9	9	
199	8	0	150	3	0	255	4	4	1	7605	127	127	
200	8	0	0	0	0	0	0	0	2	12120	202	202	
201	N/A ⁵	0	240	4	0	465	8	8	1	1245	21	21	
202	8	0	150	3	0	285	5	5	0	1695	28	28	
203	N/A ⁵	0	0	0	0	240	4	4	0	0	0	0	
206	N/A - CSO eliminated ⁴	N/A - CSO eliminated ⁴											
207	N/A ⁵	0	0	0	0	0	0	0	0	14805	247	247	
208	N/A ⁵	0	375	6	0	660	11	11	1	4890	82	82	
210	8	2	375	6	3	645	11	11	19	5835	97	97	
211	8	34	690	12	95	1140	19	19	1090	18585	310	310	
SBR	N/A ⁵	5	645	11	0	0	0	0	46	27015	450	450	

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 compiled Long Term Control Plan projects. This model reflects the updated projects included in the 2021 IOAP modification. Modeling results assume MF-WOTC 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 protected 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.

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
<p>2. Current Condition results are based on model simulations of the 2001 Typical Year with current upstream SSDP conditions and the current average available treatment plant capacity. The model reflects projects certified through June 30, 2022. RTC programming in the model is based on initial assumptions for new facilities. RTC SOPs are currently being developed and implementation and optimization of operations will likely change the overall performance. Partial construction of projects was not included.</p> <p>3. Pre-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.</p> <p>4. These CSOs have been eliminated via implementation of Long Term Control Plan projects</p> <p>5. These 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 corrected with CMOM activities.</p>										



APPENDIX C

UNAUTHORIZED DISCHARGES - WET WEATHER SSOs

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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
HITE CREEK	KY0022420	5604 TIMBER CREEK CT	7/11/2021 13:20	7/11/2021 16:50	33,750	Sewer Main	117932-AG	GROUND	HARRODS CREEK	FAILURE OF VALVE ON FORCE MAIN.	MECHANICAL FAILURE	3398324	MSD STAFF SPREAD LIME ON IMPACTED AREA. CONTRACTOR TO CLEAN AREA FOLLOWING REPAIRS.	MSD CONTRACTOR WILL REPAIR LEAKING VALVE.
MORRIS FORMAN	KY0022411	8409 SARBEE DR	8/30/2021 13:31	8/30/2021 16:17	7,150	Sewer Manhole	43472	DITCH	GOOSE CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3420822	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.	DISCHARGE FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	9/20/2021 11:30	9/23/2021 2:15	1,200,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3427477	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	9/20/2021 13:00	9/21/2021 8:11	34,530	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3428150	WO #3428130.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	9/20/2021 14:25	9/21/2021 8:12	2,134	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3427498	WO #3428132.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	9/20/2021 14:35	9/23/2021 9:20	46,550	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3427499	WO#3428141.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	9/22/2021 16:00	9/23/2021 8:00	48,000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3427989	NO ACCESS, MANHOLE LOCATED IN THE CENTER OF THE CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	9/22/2021 17:29	9/23/2021 9:17	946	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3427984	WO#3428133.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	9/22/2021 17:36	9/23/2021 9:17	4,705	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3427983	WO#3428143.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	9/22/2021 17:47	9/22/2021 23:15	13,120	Sewer Manhole	102339	GROUND	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3427980	MAGNITUDE OF STORM RESULTED IN NO DEBRIS REMAINING.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.



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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	9/22/2021 17:51	9/23/2021 9:22	69,825	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3427985	WO#3428145.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 DELL RD	9/22/2021 18:06	9/23/2021 9:27	919	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3427986	WO#3428134.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3322 DELL RD	9/22/2021 18:11	9/23/2021 9:27	1,832	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3427987	WO #3428135.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	9/22/2021 18:19	9/23/2021 9:29	1,820	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3427988	WO #3428136.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	12/6/2021 10:00	12/6/2021 16:00	27,000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3450769	WO #3450932.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	12/7/2021 15:52	12/7/2021 16:52	326	Sewer Treatment Plant	MSD0278	STREAM	OHIO RIVER	12.5% SODIUM HYPO-CHLORITE LEAK DUE TO VALVE ERROR	MECHANICAL FAILURE	3451053	NO DEBRIS	VALVE WAS REPAIRED
MORRIS FORMAN	KY0022411	3322 DELL RD	12/11/2021 8:17	12/11/2021 10:51	308	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3451453	WO #3451455.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	12/11/2021 8:20	12/11/2021 11:07	334	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3451524	WO #3451532.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	12/11/2021 8:25	12/11/2021 15:43	54,750	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3451452	WO#3451540	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	12/11/2021 10:37	12/11/2021 12:45	256	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3451526	WO #3451539.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/1/2022 7:48	1/3/2022 13:45	8,800,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458898	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	1/1/2022 9:50	1/2/2022 9:15	138,000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458956	WO #3459217.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	1/1/2022 9:55	1/2/2022 9:35	138,000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458957	WO #3459219.	LOCATION INCLUDED IN IOAP.

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MORRIS FORMAN	KY0022411	1011 ALTA CIR	1/1/2022 9:55	1/2/2022 9:45	276,000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458959	WO #3459220.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKEN-RIDGE LN	1/1/2022 10:15	1/2/2022 23:00	5,500,000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458938	NO CLEAN UP PERFORMED - PIPES UNDERWATER, DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1700 SULGRAVE RD	1/1/2022 10:25	1/1/2022 17:25	42,000	Sewer Manhole	72289	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458960	WO#3459221.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1012, ALTA CIR	1/1/2022 10:25	1/1/2022 17:25	10,500	Sewer Manhole	40559	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458963	WO #3459222.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1544 CHERO-KEE RD	1/1/2022 10:40	1/2/2022 10:00	138,000	Sewer Manhole	40475	GROUND	MIDDLE FORK BEARGRASS CREEK	OBSTRUCTION IN MAINLINE.	OBSTRUCTION-NOT GREASE / ROOTS	3458965	WO #3459224.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/1/2022 10:50	1/3/2022 7:50	351,000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458982	WO#3459198.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1552 CHERO-KEE RD	1/1/2022 10:55	1/2/2022 10:30	34,500	Sewer Manhole	40471	GROUND	MIDDLE FORK BEARGRASS CREEK	OBSTRUCTION IN MAINLINE.	OBSTRUCTION-NOT GREASE / ROOTS	3458964	WO #3459223.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	1/1/2022 11:00	1/2/2022 9:45	2,730	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458983	WO#3459192.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	1/1/2022 11:10	1/2/2022 9:48	2,730	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458984	WO #3459195.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OX-MOOR LN	1/1/2022 11:20	1/3/2022 10:00	276,000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458988	WO #3459295.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BUL-LITT LN	1/1/2022 11:20	1/3/2022 10:00	69,000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458987	WO #3459294.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	1/1/2022 11:22	1/2/2022 9:51	199,500	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458986	WO #3459196.	LOCATION INCLUDED IN IOAP.



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MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	1/1/2022 11:31	1/2/2022 9:50	134,000	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458985	WO #3459197.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 DELL RD	1/1/2022 11:43	1/2/2022 9:55	3,996	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458978	WO #3459189.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3322 DELL RD	1/1/2022 11:47	1/2/2022 9:56	99,600	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458979	WO#3459190.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	1/1/2022 11:56	1/2/2022 9:58	165,000	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458980	WO#3459194.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3501 MARLIN DR	1/1/2022 12:09	1/2/2022 10:02	2,626	Sewer Manhole	28416	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3458981	WO #3459191.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	1/1/2022 13:44	1/2/2022 9:47	12,030	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459001	WO #3459193.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	1/1/2022 13:45	1/2/2022 16:45	36,000	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459018	NO CLEANUP PERFORMED - PIPE DISCHARGING UNDERWAY. TEAR DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	5205 RONWOOD DR	1/1/2022 14:00	1/1/2022 17:50	30,000	Sewer Manhole	19360	GROUND	NORTHERN DITCH	CAP LACK OF CAPACITY.	LACK OF SYSTEM CAPACITY	3459035	CREATED DISCLN WO #3459869.	REQUEST FOR TVI TO VIDEO INSPECT LINE. SER REQ #5410432
MORRIS FORMAN	KY0022411	4313 PRUITT CT	1/1/2022 14:10	1/2/2022 10:40	92,175	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459007	WO #3459201.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4315 PRUITT CT	1/1/2022 14:11	1/2/2022 10:40	30,725	Sewer Manhole	49647	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459006	WO #3459200.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4335 PRUITT CT	1/1/2022 14:12	1/2/2022 10:40	92,175	Sewer Manhole	08429	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459008	WO #3459202.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4341 PRUITT CT	1/1/2022 14:12	1/2/2022 10:40	92,175	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459009	WO #3459203.	LOCATION INCLUDED IN IOAP.

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MORRIS FORMAN	KY0022411	4332 PRUITT CT	1/1/2022 14:15	1/2/2022 10:45	61,500	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459010	WO #3459204.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4345 PRUITT CT	1/1/2022 14:15	1/2/2022 10:45	30,750	Sewer Service Line	85065	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459011	WO#3459205.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	8800 ADMIRAL DR	1/1/2022 14:35	1/1/2022 17:00	30,000	Sewer Manhole	93703	GROUND	PENNSYLVANIA RUN	LACK OF CAPACITY.	LACK OF SYSTEM CAPACITY	3459020	CREATED DISCLN WO#3459874.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4912 DEL-AWARE DR	1/1/2022 14:40	1/2/2022 10:48	12,300	Sewer Manhole	18654	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459013	WO #3459206.	LOCATION INCLUDED IN IOAP.
CEDAR CREEK	KY0098540	9516 PLUM-WOOD RD	1/1/2022 15:15	1/1/2022 9:15	27,225	Sewer Manhole	63095	STREAM	CEDAR CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459045	CREATED DISCLN WO#3459886.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3302 TROUT CREEK DR	1/1/2022 15:15	1/2/2022 10:15	28,500	Sewer Manhole	23211	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459014	WO #3459207.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2011 TER-RILL LN	1/1/2022 15:20	1/2/2022 10:18	28,500	Sewer Manhole	51180	GROUND	BROOKLAWN TRIBUTARY	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459015	WO #3459208.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3305 INDIAN CREEK CT	1/1/2022 15:25	1/2/2022 10:20	28,375	Sewer Manhole	51160	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459016	WO #3459209.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7913 SHEL-BYVILLE RD	1/1/2022 18:00	1/2/2022 11:05	153,000	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459054	WO#3459214.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7900 SHEL-BYVILLE RD	1/1/2022 18:15	1/2/2022 10:40	144,000	Sewer Manhole	02933	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459050	WO #3459212.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	1/1/2022 18:30	1/2/2022 10:45	24,000	Sewer Manhole	90700	CATCH BASIN	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459051	WO#3459213.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	1/1/2022 18:45	1/2/2022 10:50	96,000	Sewer Manhole	47593	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3459052	WO #3459215.	LOCATION INCLUDED IN IOAP.



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MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/9/2022 4:08	1/10/2022 12:45	3,800,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460244	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKEN-RIDGE LN	1/9/2022 5:15	1/10/2022 1:45	2,600,000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460373	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	1/9/2022 7:30	1/10/2022 9:00	38,250	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460375	CLEAN UP NOT REQUIRED, NO VISIBLE SIGNS OF DEBRIS ON OR AROUND MANHOLE.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	1/9/2022 7:35	1/10/2022 9:00	228,750	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460376	WO#3460791.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	1/9/2022 7:42	1/10/2022 9:10	457,000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460377	WO#3460792.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CIN-DERELLA LN	1/9/2022 7:46	1/9/2022 14:33	85,875	Sewer Manhole	102339	GROUND	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3460236	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.	SITE FOUND DURING RAIN EVENT RE CON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/9/2022 8:07	1/10/2022 12:33	213,250	Sewer Manhole	28463	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460386	WO#3460820.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	1/9/2022 8:10	1/10/2022 12:36	17,060	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460387	WO#3460821.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1552 CHERO-KEE RD	1/9/2022 8:22	1/10/2022 9:25	90,000	Sewer Manhole	40471	GROUND	MIDDLE FORK BEARGRASS CREEK	OBSTRUCTION IN MAINLINE.	OBSTRUCTION IN GREASE/ROOTS	3460379	WO#3460795.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	1/9/2022 8:27	1/10/2022 12:37	3,380	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460388	WO#3460822.	LOCATION INCLUDED IN IOAP.

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MORRIS FORMAN	KY0022411	1726 FRA-SER DR	1/9/2022 8:30	1/10/2022 6:30	6,000	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460406	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWAY, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1544 CHERO-KEE RD	1/9/2022 8:30	1/10/2022 9:25	37,375	Sewer Manhole	40475	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460378	WO#3460793.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	1/9/2022 8:35	1/10/2022 12:39	84,200	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460389	WO#3460823.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	1/9/2022 8:36	1/10/2022 12:41	126,375	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460390	WO#3460824.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 DELL RD	1/9/2022 8:55	1/10/2022 12:31	3,312	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460382	WO#3460815.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3322 DELL RD	1/9/2022 8:58	1/10/2022 12:31	24,795	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460383	WO#3460816.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	1/9/2022 8:59	1/10/2022 12:30	82,550	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460384	WO#3460817.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4313 PRUITT CT	1/9/2022 9:15	1/10/2022 6:30	95,625	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460399	WO#3460807.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4341 PRUITT CT	1/9/2022 9:18	1/10/2022 6:30	63,500	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460402	WO#3460809.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4335 PRUITT CT	1/9/2022 9:18	1/10/2022 6:30	31,750	Sewer Manhole	08429	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460400	WO#3460808.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4332 PRUITT CT	1/9/2022 9:20	1/10/2022 6:30	63,500	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460403	WO#3460813.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4345 PRUITT CT	1/9/2022 9:20	1/10/2022 6:30	31,750	Sewer Service Line	85055	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460404	WO#3460811.	LOCATION INCLUDED IN IOAP.



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MORRIS FORMAN	KY0022411	202 OX-MOOR LN	1/9/2022 10:03	1/10/2022 10:20	582,800	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460380	WO#3460796.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201_BUL-LITT LN	1/9/2022 10:04	1/10/2022 10:20	218,400	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460381	WO#3460797.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3501 MARLIN DR	1/9/2022 10:14	1/10/2022 12:29	1,575	Sewer Manhole	28416	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460385	WO#3460818.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7913 SHEL-BYVILLE RD	1/9/2022 11:23	1/10/2022 5:32	108,900	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460396	WO#3460799.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7900 SHEL-BYVILLE RD	1/9/2022 12:50	1/10/2022 5:29	100,000	Sewer Manhole	02933	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460410	WO#3460798.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4801 CAS-SIA CT	1/9/2022 14:25	1/10/2022 5:46	465,050	Sewer Manhole	46623	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3460435	WO#3460800.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	2/3/2022 10:32	2/4/2022 23:30	4,900,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3470931	NO CLEAN UP PERFORMED PIPES DISCHARGE UNDERWATER, DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	2/3/2022 12:23	2/4/2022 7:20	79,590	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3470937	WO#3471175.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/3/2022 12:32	2/4/2022 7:26	136,080	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3470938	WO#3471176.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	2/3/2022 12:35	2/4/2022 7:28	5,665	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3470939	WO3471177.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	2/3/2022 12:38	2/4/2022 7:32	68,040	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3470943	WO#3471178.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	2/3/2022 12:40	2/4/2022 7:33	2,268	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3470942	WO#3471179.	LOCATION INCLUDED IN IOAP.

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MORRIS FORMAN	KY0022411	1001 BRECKEN-RIDGE LN	2/3/2022 13:31	2/4/2022 5:30	1,900,000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471024	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	2/3/2022 13:54	2/4/2022 9:15	290,250	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471015	WO#3471188.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	2/3/2022 13:56	2/4/2022 9:18	34,800	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471016	WO#3471189.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	2/3/2022 13:58	2/4/2022 9:21	581,500	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471017	WO#3471186.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1700 SULGRAVE RD	2/3/2022 14:02	2/4/2022 9:25	139,560	Sewer Manhole	72289	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471018	WO#3471187.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OX-MOOR LN	2/3/2022 14:41	2/4/2022 12:21	455,000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471019	WO#3471183.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BUL-LITT LN	2/3/2022 14:42	2/4/2022 12:30	13,100	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471020	WO#3471184.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CIN-DERELLA LN	2/3/2022 14:51	2/4/2022 8:23	12,225	Sewer Manhole	60679	DITCH	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471014	NONE POSSIBLE DUE TO MAGNITUDE OF STORM.	SITE FOUND DURING RAIN EVENT RECON. WILL BE MONITORED AND EVALUATED FOR REPAIR.
MORRIS FORMAN	KY0022411	4313 PRUITT CT	2/3/2022 15:01	2/4/2022 8:09	359,800	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471021	WO#3471190.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4341 PRUITT CT	2/3/2022 15:02	2/4/2022 8:10	51,400	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471022	WO#3471191.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4345 PRUITT CT	2/3/2022 15:03	2/4/2022 8:11	20,560	Sewer Service Line	85065	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471023	WO#3471193.	LOCATION INCLUDED IN IOAP.



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MORRIS FORMAN	KY0022411	4332 PRUITT CT	2/3/2022 16:39	2/4/2022 8:12	92,300	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471025	WO#3471192.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3322 DELL RD	2/3/2022 17:08	2/4/2022 7:35	17,340	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3471026	WO#3471174.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/17/2022 13:43	2/18/2022 13:06	4,209	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473440	WO#3476946.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	2/17/2022 13:45	2/19/2022 13:45	5,200,000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473819	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	2/17/2022 13:52	2/18/2022 9:30	29,450	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473442	WO#3476947.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	2/17/2022 13:56	2/18/2022 9:32	29,400	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473444	WO#3476949.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 DELL RD	2/17/2022 14:26	2/18/2022 9:05	55,950	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473427	WO#3476940.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	2/17/2022 14:50	2/18/2022 16:45	150,000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473790	WO#3476954.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	2/17/2022 14:50	2/18/2022 16:45	102,000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473791	WO#3476955.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	2/17/2022 15:10	2/18/2022 16:45	450,000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473793	WO#3477010.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1012 ALTA CIR	2/17/2022 15:15	2/18/2022 8:40	102,000	Sewer Manhole	40559	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473796	WO#3476957.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1700 SULGRAVE RD	2/17/2022 15:15	2/18/2022 8:40	76,500	Sewer Manhole	72289	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473795	WO#3476956.	LOCATION INCLUDED IN IOAP.

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MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	2/17/2022 15:30	2/18/2022 21:00	5,100,000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473820	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWAY, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	2/17/2022 15:30	2/18/2022 12:45	21,420	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473821	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWAY, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	2/17/2022 16:05	2/18/2022 17:05	450,000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473797	WO#3476896.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BULLITT LN	2/17/2022 16:05	2/18/2022 9:15	153,000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473799	WO#3476858.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3322 DELL RD	2/17/2022 16:17	2/18/2022 9:10	50,650	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473433	WO#3476841.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7900 SHELBYVILLE RD	2/17/2022 16:20	2/18/2022 9:25	25,500	Sewer Manhole	02935	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473802	CLEAN UP NOT REQUIRED, NO VISIBLE SIGNS OF DEBRIS ON OR AROUND MANHOLE.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 DELL RD	2/17/2022 16:21	2/18/2022 9:25	25,600	Sewer Manhole	28417	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473438	WO#3476845.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	2/17/2022 16:24	2/17/2022 23:30	42,600	Sewer Manhole	102339	GROUND	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3473363	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	2/17/2022 16:25	2/18/2022 9:30	153,000	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473808	WO#3476200.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	2/17/2022 16:29	2/18/2022 9:15	25,150	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473434	WO#3476843.	LOCATION INCLUDED IN IOAP.



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MORRIS FORMAN	KY0022411	3501 MARLIN DR	2/17/2022 16:35	2/18/2022 9:20	25,125	Sewer Manhole	28416	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473437	WO#3476944.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	2/17/2022 16:38	2/18/2022 9:35	101,700	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473445	WO#3476951.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7900 SHELBYVILLE RD	2/17/2022 16:40	2/18/2022 9:40	76,500	Sewer Manhole	02933	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473803	WO#3476959.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	2/17/2022 16:45	2/18/2022 9:40	51,000	Sewer Manhole	90700	CATCH BASIN	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473806	WO#3476198.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	2/17/2022 16:50	2/18/2022 9:45	96,000	Sewer Manhole	47593	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473807	WO#3476998.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9317 LANANA DR	2/17/2022 16:55	2/17/2022 21:55	30,000	Sewer Manhole	25484	STREAM	PENNSYLVANIA RUN	LACK OF CAPACITY-HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475697	CREATED DIS-CLN WO.	A SOLUTION FOR THIS IS INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4309 PRUITT CT	2/17/2022 17:00	2/18/2022 9:15	9,300	Sewer Manhole	08426	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473812	WO#3473812.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4313 PRUITT CT	2/17/2022 17:00	2/18/2022 9:15	93,000	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473813	WO#3473813.	LOCATION INCLUDED IN IOAP.
CEDAR CREEK	KY0098540	6810 GLENDALE RD	2/17/2022 17:05	2/17/2022 20:14	1,890	Sewer Manhole	63531	GROUND	LITTLE CEDAR CREEK	LACK OF CAPACITY-HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475709	CREATED DISCLN WO #3475710.	A SOLUTION FOR THIS IS INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4317 PRUITT CT	2/17/2022 17:20	2/18/2022 9:15	19,100	Sewer Service Line	85075	GROUND	BUACHEL BRANCH	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473818	WO#3473818.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	8800 ADMIRAL DR	2/17/2022 17:20	2/17/2022 22:10	36,750	Sewer Manhole	93705	STREAM	PENNSYLVANIA RUN	LACK OF CAPACITY-HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475701	CREATED DISCLN WO #3475702.	A SOLUTION FOR THIS IS INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4335 PRUITT CT	2/17/2022 17:33	2/18/2022 9:15	70,650	Sewer Manhole	08429	GROUND	BUACHEL BRANCH	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473814	WO#3473814.	LOCATION INCLUDED IN IOAP.

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MORRIS FORMAN	KY0022411	4341 PRUITT CT	2/17/2022 17:33	2/18/2022 9:15	70,650	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473815	WO#3473815.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7713 WEST-PORT RD	2/17/2022 17:45	2/18/2022 10:00	48,000	Sewer Manhole	105936	GROUND	GOOSE CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473810	WO#3476999.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4332 PRUITT CT	2/17/2022 17:45	2/18/2022 9:15	46,500	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3473816	WO#3473816.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	978 BRECKEN-RIDGE LN	2/17/2022 17:50	2/18/2022 10:05	24,000	Sewer Manhole	74520	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3474307	NO CLEANUP REQUIRED. MANHOLE IS DISCHARGING DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3302 TROUT CREEK DR	2/17/2022 18:00	2/18/2022 9:00	67,500	Sewer Manhole	23211	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475235	WO#3476939.	LOCATION INCLUDED IN IOAP.
CEDAR CREEK	KY0098540	9516 PLUM-WOOD RD	2/17/2022 18:02	2/17/2022 20:43	9,660	Sewer Manhole	63095	STREAM	CEDAR CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475672	CREATED DISCLN WO#3475673.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
CEDAR CREEK	KY0098540	9517 PLUM-WOOD RD	2/17/2022 18:05	2/17/2022 20:45	6,400	Sewer Manhole	63094	STREAM	CEDAR CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475674	CREATED DISCLN WO #3475676.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
CEDAR CREEK	KY0098540	5600 HOFELICH CT	2/17/2022 18:05	2/17/2022 20:45	6,400	Sewer Manhole	70158	GROUND	CEDAR CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475678	CREATED DISCLN WO #3475679.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
CEDAR CREEK	KY0098540	5600 HOFELICH CT	2/17/2022 18:06	2/17/2022 20:46	800	Sewer Manhole	28998	GROUND	CEDAR CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475680	CREATED DISCLN WO #3475681.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
CEDAR CREEK	KY0098540	5410 SPRIG-WOOD LN	2/17/2022 18:08	2/17/2022 20:48	120,000	Sewer Manhole	28984	GROUND	CEDAR CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475705	CREATED DISCLN WO #3475706.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1804 ROUND RIDGE RD	2/17/2022 18:15	2/18/2022 17:25	34,500	Sewer Manhole	65623	STREAM	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3474276	NO CLEANUP REQUIRED. MANHOLE IS DISCHARGING DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.



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DEREK R. GUTHRIE	KY0078956	6810 SANDSTONE BLVD	2/17/2022 18:15	2/17/2022 20:42	3,405	Sewer Manhole	29948	GROUND	FERN CREEK	LACK OF CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475684	CREATED DISCLN WO# 3475686.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	2011 TER-RIL LN	2/17/2022 18:20	2/18/2022 9:00	66,000	Sewer Manhole	51180	GROUND	BROOKLAWN TRIBUTARY	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475473	WO#3476927.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3305 INDIAN CREEK CT	2/17/2022 18:30	2/18/2022 9:00	21,750	Sewer Manhole	51160	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475086	WO#3476926.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	37 ARROWHEAD RD	2/17/2022 18:45	2/18/2022 10:35	22,500	Sewer Manhole	89791	GROUND	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3474284	WO#3477001.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	5205 RONWOOD DR	2/17/2022 18:45	2/17/2022 21:45	22,500	Sewer Manhole	19360	GROUND	NORTHERN DITCH	LACK OF CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475691	CREATED DISCLN WO #3475693.	A SOLUTION FOR THIS IS INCLUDED IN IOAP.
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	2/17/2022 18:56	2/18/2022 0:50	8,850	Sewer Manhole	108957	DITCH	FLOYDS FORK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3473751	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
FLOYDS FORK	KY0102784	815 TUCKER STATION RD	2/17/2022 19:07	2/17/2022 21:36	15,100	Sewer Manhole	33003	STREAM	POPE LICK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3475670	CREATED DISCLN WO#3475671.	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	300 MOCKINGBIRD VALLEY RD	2/17/2022 19:15	2/18/2022 10:45	22,500	Sewer Manhole	41374	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3474280	NO CLEANUP REQUIRED. MANHOLES DISCHARGING DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 BROWNSBORO RD	2/17/2022 19:15	2/18/2022 10:45	22,500	Sewer Manhole	26752	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3474286	NO CLEANUP REQUIRED. MANHOLES DISCHARGING DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4019 LE-LAND RD	2/17/2022 19:30	2/18/2022 10:50	22,500	Sewer Manhole	96020	GROUND	CHERRYWOOD CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3474291	WO#3477005.	LOCATION INCLUDED IN IOAP.

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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
MORRIS FORMAN	KY0022411	8117 COPPER-CREEK DR	2/17/2022 20:45	2/18/2022 9:50	19,500	Sewer Manhole	65070	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3474287	WO#3477002.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/18/2022 5:45	2/18/2022 9:29	672	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3476175	WO#3476893.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	4417 KURTZ AVE	2/18/2022 10:50	2/18/2022 11:00	1	Sewer Manhole	61739	STREAM	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3476186	NO CLEAN UP NOT PERFORMED NO PUBLIC ACCESS TO THE DISCHARGE SITE. PO DOES NOT WANT MSD ON HIS PROPERTY.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	2/22/22 9:40	2/23/22 8:15	396000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477853	WO#3477010.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	2/22/22 10:00	2/23/22 8:00	72000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477851	WO#3476855.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	2/22/22 10:05	2/23/22 7:55	162000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477850	WO#3476854.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1012 ALTA CIR	2/22/22 10:10	2/23/22 17:20	102100	Sewer Manhole	40559	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477856	WO3476857.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1700 SULGRAVE RD	2/22/22 10:10	2/23/22 8:15	102000	Sewer Manhole	72289	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477855	WO#3476856.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	2/22/22 10:15	2/23/22 22:45	2900000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477846	NO CLEAN UP PERFORMED PIPE DISCHARGING UNDERWAY. DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	2/22/22 11:30	2/23/22 23:00	1000000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477876	NO CLEAN UP PERFORMED PIPE DISCHARGING UNDERWAY. DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/22/22 12:25	2/23/22 6:00	52750	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477889	WO#3476846.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/22/22 12:27	2/23/22 6:03	1056	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3477894	WO#3476893.	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	202 OX-MOOR LN	2/22/22 17:43	2/23/22 8:35	126000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478032	WO#347583.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	2/24/22 17:15	2/26/22 6:30	5600000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478384	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWAY. TER. DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	2/24/22 18:25	2/26/22 8:40	228000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478385	WO#3476954.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	2/24/22 18:25	2/26/22 8:40	171000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478387	WO#3476955.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	2/24/22 18:30	2/26/22 8:40	684000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478389	WO#3477010.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1012 ALTA CIR	2/24/22 18:35	2/26/22 9:00	84000	Sewer Manhole	40559	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478394	WO#3476957.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKEN-RIDGE LN	2/24/22 19:00	2/26/22 23:00	2800000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478515	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWAY. TER. DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BUL-LITT LN	2/24/22 19:15	2/26/22 16:35	31500	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478397	WO#3478604.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OX-MOOR LN	2/24/22 19:15	2/26/22 16:35	210000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478396	WO#3478605.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3322 DELL RD	2/24/22 19:21	2/26/22 9:10	8300	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478399	WO#3476941.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	2/24/22 19:26	2/26/22 9:13	28945	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478400	WO#3476943.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/24/22 19:30	2/26/22 10:12	5292	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478402	WO#3476993.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/24/22 19:35	2/26/22 8:35	276875	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478401	WO#3478745.	LOCATION INCLUDED IN IOAP.

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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
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	2/24/22 19:45	2/25/22 6:36	1953	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478403	WO#3478598.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	2/24/22 19:50	2/25/22 6:34	2568	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478404	WO#3478949.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	2/24/22 19:59	2/25/22 6:32	2568	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478405	WO#3478950.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	2/24/22 20:01	2/25/22 6:30	2516	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478406	WO#3478951.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1804 ROUND RIDGE RD	2/24/22 20:15	2/25/22 10:15	63000	Sewer Manhole	65623	STREAM	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3478407	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWAY - DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4801 CAS-SIA CT	2/24/22 20:15	2/25/22 10:15	63000	Sewer Manhole	46623	STREAM	MUDDY FORK BEARGRASS CREEK	ELEVATED RIVER LEVELS	LACK OF SYSTEM CAPACITY	3478408	WO#3478606.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4309 PRUITT CT	2/24/22 21:38	2/25/22 9:00	1364	Sewer Manhole	08426	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3478412	WO#3478922.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4313 PRUITT CT	2/24/22 21:40	2/25/22 9:05	17125	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3478413	WO#3478923.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4335 PRUITT CT	2/24/22 21:47	2/25/22 9:08	3405	Sewer Manhole	08429	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3478414	WO#3478924.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4339 PRUITT CT	2/24/22 21:48	2/25/22 9:12	6840	Sewer Manhole	08431	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3478416	WO#3478583.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4341 PRUITT CT	2/24/22 21:48	2/25/22 9:10	17050	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3478415	WO#3478925.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	4912 DEL-AWARE DR	2/24/22 22:01	2/25/22 9:20	3395	Sewer Manhole	18654	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3478417	WO#3478586.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	2/24/22 22:44	2/25/22 8:10	82800	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	3478418	NO CLEAN UP PERFORMED - PIPE FORMED - PIPE DISCHARGING	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	3/7/22 7:56	3/7/22 23:45	1900000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480764	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWAY - DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
UNDERWATER, DIRECTLY INTO STREAM.														



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WQIC NAME	WQIC 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	3322 DELL RD	3/7/22 8:20	3/8/22 8:00	35500	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480497	WOR#3481025.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	3/7/22 8:24	3/8/22 8:04	710000	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480506	WOR#3481026.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	3/7/22 8:33	3/8/22 8:06	141300	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480509	WOR#3481027.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	3/7/22 8:36	3/8/22 8:09	4239	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480511	WOR#3481028.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	3/7/22 8:39	3/8/22 8:15	2832	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480512	WOR#3481029.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	3/7/22 8:44	3/8/22 8:18	14140	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480513	WOR#3481031.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	3/7/22 8:47	3/8/22 8:20	70650	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480516	WOR#3481032.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	3/7/22 8:51	3/8/22 8:23	1412	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480620	WOR#3481033.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKEN-RIDGE LN	3/7/22 9:00	3/7/22 16:30	500000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480766	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWAY. TER. DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	3/7/22 9:05	3/7/22 16:20	31500	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480747	CLEAN UP NOT REQUIRED. NO VISIBLE SIGNS OF DEBRIS ON OR AROUND MANHOLE.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	3/7/22 9:05	3/7/22 16:20	42000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480749	WOR#3481034.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	3/7/22 9:15	3/7/22 16:30	112000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480750	WOR#3481035.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1012 ALTA CIR	3/7/22 9:35	3/7/22 16:35	21000	Sewer Manhole	40559	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480751	WOR#3481036.	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	201 BULLITT LN	3/7/22 10:10	3/7/22 17:00	31500	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480754	WO#3481038.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	3/7/22 10:10	3/7/22 17:00	112000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3480753	WO#3481037.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	8023 DIXIE HWY	3/7/22 11:15	3/7/22 12:05	500	Sewer Manhole	99188	CATCH BASIN	VALLEY CREEK	OBSTRUCTION IN MAIN SEWER.	OBSTRUCTION-NOT GREASE / ROOTS	3480811	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	FLUSHED/VACUATED THE OBSTRUCTION / DEBRIS FROM THE SEWER.
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	3/7/22 11:30	3/7/22 11:42	60	Sewer Manhole	108956	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	3480802	NO CLEAN UP NEEDED. DISCHARGED DIRECTLY TO DRAINAGE DITCH	SITE FOUND DURING RAIN EVENT RECON
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	4/6/22 14:42	4/6/22 21:30	300000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3496557	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	4/6/22 16:26	4/7/22 7:36	45500	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3496564	WO#3496572.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	4/6/22 16:35	4/7/22 7:40	9050	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3496565	WO#3496574.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	4/6/22 16:46	4/7/22 7:45	17980	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3496566	WO#3496574.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	4/13/22 9:45	4/13/22 12:00	6750	Sewer Lift Station	MSD1013-PS	DITCH	FISHPOOL CREEK	POWER OUTAGE (LG&E).	POWER OUTAGE (LG&E)	3498018	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.	GENERATOR UTILIZED UNTIL POWER RESTORED.
MORRIS FORMAN	KY0022411	3317 BROWNSBORO RD	4/13/22 20:45	4/13/22 23:50	5550	Sewer Manhole	26752	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498071	CLEAN UP NOT REQUIRED. UNDERGROUND PIPE DISCHARGES DIRECTLY THE CREEK.	LOCATION INCLUDING OUR A IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	4/13/22 21:00	4/15/22 5:30	3900000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498012	CLEAN UP NOT REQUIRED. UNDERGROUND PIPE DISCHARGES DIRECTLY THE CREEK.	LOCATION INCLUDING OUR A 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	1001 BRECKENRIDGE LN	4/13/22 21:00	4/14/22 16:15	1500000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498021	CLEAN UP NOT REQUIRED. UNDERGROUND PIPE DISCHARGES DIRECTLY TO THE CREEK.	LOCATION INCLUDED IN OUR A IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	4/13/22 21:16	4/14/22 10:30	9500	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498014	CLEAN UP NOT REQUIRED. UNDERGROUND PIPE DISCHARGES DIRECTLY TO THE CREEK.	LOCATION INCLUDED IN OUR A IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	4/13/22 22:15	4/14/22 14:00	240000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498042	WO#3498346.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	201 BULLITT LN	4/13/22 22:15	4/14/22 7:20	81000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498043	WO#3498344.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	7913 SHELBYVILLE RD	4/13/22 22:50	4/14/22 7:25	36000	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498046	WO#34981191.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	7900 SHELBYVILLE RD	4/13/22 23:00	4/14/22 7:35	48000	Sewer Manhole	02933	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498044	WO#3498186.	LOCATION INCLUDED IN THE IOAP.
DEREK R. GUTHRIE	KY0078956	9317 LAN-TANA DR	4/13/22 23:18	4/14/22 0:15	2200	Sewer Lift Station	MSD0101-PS	DITCH	PENNSYLVANIA RUN	POWER OUTAGE (LG&E).	POWER OUTAGE (LG&E)	3498020	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.	GENERATOR UTILIZED UNTIL POWER RE-STORED.
MORRIS FORMAN	KY0022411	4317 PRUITT CT	4/13/22 23:46	4/14/22 7:54	60200	Sewer Service Line	85075	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498095	WO#3498154.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	4/13/22 23:50	4/14/22 14:50	90000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498092	WO#3498173.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4315 PRUITT CT	4/13/22 23:52	4/14/22 7:53	60300	Sewer Manhole	49647	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498094	WO#3498152.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	4/13/22 23:55	4/14/22 9:00	13625	Sewer Manhole	28452	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498091	WO#3498172.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4313 PRUITT CT	4/14/22 0:01	4/14/22 7:52	35325	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498098	WO#3498147.	LOCATION INCLUDED IN THE IOAP.

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MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	4/14/22 0:05	4/14/22 6:30	39000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498058	WO#3498184.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	4/14/22 0:05	4/14/22 14:30	84000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498050	WO#3498348.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4341 PRUITT CT	4/14/22 0:08	4/14/22 7:54	34950	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498101	WO#3498149.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	4/14/22 0:09	4/14/22 9:00	13275	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498087	WO#3498162.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4335 PRUITT CT	4/14/22 0:12	4/14/22 12:57	46000	Sewer Manhole	08429	GROUND	BUICHEL BRANCH	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498099	WO#3498148.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	4/14/22 0:15	4/14/22 9:00	65625	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498085	WO#3498077.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	4/14/22 0:15	4/14/22 14:36	210000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498056	WO#3498347.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1012 ALTA CIR	4/14/22 0:20	4/14/22 6:45	9000	Sewer Manhole	40559	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498062	WO#3498185.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3500 ST EDWARDS DR	4/14/22 0:25	4/14/22 9:00	12875	Sewer Manhole	28249	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	3498086	WO#3498158.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3501 HILLS-BORO RD	4/14/22 16:37	4/18/22 9:00	1	Sewer Service Line	53706	GROUND	MIDDLE FORK BEARGRASS CREEK	ROOTS AND COMBINATION OF CAPACITY ISSUE.	ROOTS	3498290	MSD WILL CLEAN AREA. DISCLN WO #3498297	ROOT CUT MAIN SEWER.
MORRIS FORMAN	KY0022411	1121 RIDGE LINE DR	4/14/22 16:45	4/18/22 9:00	1	Sewer Manhole	48744	STREAM	MIDDLE FORK BEARGRASS CREEK	ROOTS IN MAIN SEWER.	ROOTS	3498293	MSD WILL CLEAN AREA. DISCLN WO #3498296	ROOT CUT MAIN SEWER TO RESTORE FLOOR.



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MORRIS FORMAN	KY0022411	1100 EN-VOY CIR	5/27/22 9:18	5/27/22 10:25	500	Sewer Manhole	29082	DITCH	SOUTH FORK BEAR GRASS CREEK	FURTHER INVESTIGATION REQUIRED.	ROOTS	3521457	MSD WILL CLEAN IMPACTED AREA.	FLUSHED MAIN SEWER. REFERRED OVER FOR TV INSPECTION OF THE MAIN SEWER.
MORRIS FORMAN	KY0022411	3317 DELL RD	6/7/22 7:20	6/7/22 20:43	16060	Sewer Manhole	28413	GROUND	CHENOWETH RUN	HEAVY ROOTS IN THE MAIN SEWER.	ROOTS	3524433	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	ROOT CUT THE MAIN SEWER.
MORRIS FORMAN	KY0022411	3322 DELL RD	6/7/22 7:22	6/7/22 20:43	8050	Sewer Manhole	28414	GROUND	CHENOWETH RUN	HEAVY ROOTS IN THE MAIN SEWER.	ROOTS	3524434	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	ROOT CUT THE MAIN SEWER.



APPENDIX D

UNAUTHORIZED DISCHARGES - DRY WEATHER CSOs

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MORRIS FORMAN	KY0022411	1500 S SHELBY ST	8/12/2021 12:15	8/12/2021 22:15	59,658	Sewer Manhole	CSO182		SOUTH FORK BEARGRASS CREEK	FOUND DURING CSO MONTHLY MONITORING REVIEW 9/2022. NO MONITORING ALERTS ISSUED. SUSPECTED MUNICIPAL DRINKING WATER EVENT BUT UNABLE TO RESOLVE.	UTILITY DAMAGED MSD ASSET	3439645	NO CLEANUP PERFORMED. DISCHARGE DISCOVERED VIA TELEMETRY REVIEW, SITE INSPECTION SHOWED NO VISUAL IMPACT.	FOUND DURING CSO MONTHLY MONITORING REVIEW 9/2022. SUSPECTED MUNICIPAL DRINKING WATER EVENT BUT UNABLE TO RESOLVE.
MORRIS FORMAN	KY0022411	376 CRESCENT SPRING DR	10/1/2021 14:45	10/1/2021 15:25	325,000	Sewer Manhole	CSO125	STREAM	MIDDLE FORK BEARGRASS CREEK	DISCHARGED WATER INCLUDES RESIDUAL WASTE STREAM FROM MUNICIPAL DRINKING WATER TREATMENT.	UTILITY DAMAGED MSD ASSET	3430480	MSD CREWS WILL CLEAN AND SANITIZE IMPACTED AREAS.	LWC WORKING TO REPAIR LINE.

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APPENDIX E

UNAUTHORIZED DISCHARGES - DRY WEATHER SSOs

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FLOYDS FORK	KY0102784	1302 HELM PLACE LN	9/13/2021 11:59	9/13/2021 13:16	7,800	Sewer Manhole	112064	DITCH	POPE LICK	GREASE IN MSD'S PORTION OF THE PROPERTY SERVICE CONNECTION	OBSTRUCTION- NOT GREASE / ROOTS	3424298	MSD CREW WILL CLEAN AREA.	FLUSH 3424374
DEREK R. GUTHRIE	KY0078956	7318 REGIMENT RD	10/10/2021 19:00	10/10/2021 21:30	30,000	Sewer Main	106733-V	GROUND	PENNSYLVANIA RUN	STRUCTURAL FAILURE (FORCE MAIN BREAK)	STRUCTURAL FAILURE	3431596	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	HAULED SEWAGE UNTIL REPAIRS MADE. TRC REPAIRED FORCE MAIN.
FLOYDS FORK	KY0102784	611 WOODLAKE DR	10/21/2021 13:35	10/21/2021 14:44	207	Sewer Main	80581A-AG	GROUND	CHENOWETH RUN	STRUCTURAL FAILURE (FORCE MAIN BREAK)	STRUCTURAL FAILURE	3439668	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	SHUT OFF PUMP AND ISOLATED FORCE MAIN. CONTRACTOR TO MAKE REPAIRS.
HITE CREEK	KY002420	6101 HAUNZ LN	1/11/2022 12:20	1/11/2022 18:35	123,000	Sewer Main	102551-V	GROUND	HARRODS CREEK	STRUCTURAL FAILURE. CONTRACTOR HIT FORCE MAIN.	STRUCTURAL FAILURE	3461018	AREA DISINFECTED WITH LIME.	PUT 12 INCH FORCE MAIN IN SERVICE. CONTRACTOR SCHEDULED TO MAKE REPAIRS ON 1/12/22.
DEREK R. GUTHRIE	KY0078956	4805 MID DR	1/24/2022 9:20	1/24/2022 10:20	1,000	Sewer Service Line	70388	GROUND	PONDER CREEK	ROOTS IN MAIN SEWER.	ROOTS	3467760	MSD PERSONNEL CLEANED IMPACTED AREA.	ROOT CUT MAIN SEWER TO RESTORE FLOW.
CEDAR CREEK	KY0068540	8405 CEDAR CREEK RD	1/30/2022 13:30	1/30/2022 13:35	500	Sewer Treatment Plant	MSD0289	GROUND	CEDAR CREEK	MECHANICAL FAILURE. GRIT CLASSIFIER LINE CLEAN OUT FITTING CAME OFF.	MECHANICAL FAILURE	3468412	AREA WAS RAKED. LIME APPLICATION	FITTING WAS PLACED BACK ON CLEAN OUT.
FLOYDS FORK	KY0102784	1201 N POPE LICK RD	3/9/2022 17:40	3/9/2022 18:45	1,625	Sewer Valve	103088-V	DITCH	POPE LICK	MECHANICAL FAILURE OF ARV.	MECHANICAL FAILURE	3461324	AREA DISINFECTED WITH LIME.	REPAIRED THE VALVE AND ISOLATED THE LEAK. FINAL REPAIRS WILL BE MADE ON FUTURE DATE. WOR#3176522.



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HITE CREEK	KY0022420	5924 CAMDEN ACRES DR	3/14/2022 16:30	3/14/2022 16:45	3,000	Sewer Main	90872	STREAM	SOUTH FORK HARRODS CREEK	HEAVY GREASE OBSTRUCTION AT INLET TO DOWNSTREAM.	OBSTRUCTION- NOT GREASE / ROOTS	3483099	WILL REFER TO AREA SUPERVISOR FOR NEEDED CLEANUP.	REFERRED TO AREA SUPERVISOR FOR CLEANUP AND GROUND RESTORATION.
DEREK R. GUTHRIE	KY0078956	5109 MARJORIE DR	3/28/2022 14:30	3/29/2022 10:00	29,250	Sewer Manhole	35308	GROUND	MANSLICK BRANCH	RAG OBSTRUCTION IN MAIN SEWER.	OBSTRUCTION- NOT GREASE / ROOTS	3482431	MSD PERSONNEL CLEANED AND SANITIZED IMPACTED AREA.	ROOT CUT AND FLUSH MAIN SEWER.
FLOYDS FORK	KY0102784	13321 SHELBYVILLE RD	5/5/2022 17:15	5/5/2022 18:37	1	Sewer Manhole	117649	GROUND	POPE LICK	GREASE BLOCKAGE.	GREASE BLOCKAGE	3509687	MSD CLEANED AREA.	FLUSHED MAIN SEWERS TO CLEAR THE BLOCKAGE.
MORRIS FORMAN	KY0022411	2513 LIME KILN LN	5/8/2022 17:45	5/8/2022 18:15	50	Sewer Manhole	24233	DITCH	GOOSE CREEK	GREASE IN THE MAIN SEWER.	GREASE BLOCKAGE	3509633	DISCLN WO #3509635.	FLUSHED TO REMOVE OBSTRUCTION; REFERRED TO TV CREW FOR INSPECTION.
DEREK R. GUTHRIE	KY0078956	5612 BRAULIO CT	6/2/2022 18:30	6/2/2022 18:55	50	Sewer Manhole	81608	DITCH	WATTERSON TRAIL CREEK	OBSTRUCTION IN THE MAIN SEWER.	OBSTRUCTION- NOT GREASE / ROOTS	3522201	MSD PERSONNEL CLEANED THE IMPACTED AREA.	FLUSHED TO REMOVE THE OBSTRUCTION; REFERRED TO TV CREW FOR INSPECTION. NO PROBLEM FOUND.
DEREK R. GUTHRIE	KY0078956	11621 LOWER RIVER RD	6/6/2022 0:32	6/6/2022 0:32	50	Sewer Treatment Plant	MSD0277	STREAM	OHIO RIVER	TRIPPED BREAKER AND MSD STAFF RESET.	ELECTRICAL PROBLEMS AT MSD	3524042	NO DEBRIS.	MSD STAFF RESET BREAKER.
DEREK R. GUTHRIE	KY0078956	7318 REGIMENT RD	6/22/2022 6:45	6/22/2022 7:00	1,000	Sewer Valve	106733-V	DITCH	PENNSYLVANIA RUN	STRUCTURAL FAILURE (FORCE MAIN BREAK).	STRUCTURAL FAILURE	3533163	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA.	REPAIRED THE FORCE MAIN. WO#3533168

APPENDIX F

OVERFLOWS TO THE INTERIOR

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MORRIS FORMAN	KY0022411	713 E BRECKENRIDGE ST	7/14/2021 11:00	7/14/2021 11:30	1	8353	STRUCTURAL FAILURE OF MAIN SEWER	STRUCTURAL FAILURE	WET WEATHER	3398747	CUSTOMER CLEANED IMPACTED AREA	MSR #3398873
DEREK R. GUTHRIE	KY0078956	8603 EM-RICH AVE	12/10/2021 17:20	12/10/2021 18:20	1	BE08943839	GREASE BLOCKAGE IN MAIN SEWER	GREASE BLOCKAGE	DRY WEATHER	3451417	CUSTOMER CLEANED IMPACTED AREA	FLUSHED MAIN SEWER TO RESTORE FLOW
DEREK R. GUTHRIE	KY0078956	124 CHAT-TANOOGA AVE	12/30/2021 11:30	12/30/2021 11:49	5	WW09427069	SANITARY MAIN HOLDING DUE TO OBSTRUCTION. CUSTOMER'S SERVICE CONNECTION WAS CLEAR.	ROOTS	DRY WEATHER	3458750	CUSTOMER HAS CLEANED EFFECTED AREA	REPAIRED THE PROPERTY SERVICE CONNECTION. WORK ORDER 3480463; ROOT CUT
DEREK R. GUTHRIE	KY0078956	2100 MARY CATHERINE DR	1/1/2022 16:35	1/1/2022 16:37	1	RR14449579	UNKNOWN AT THIS TIME	ROOTS	WET WEATHER	3459180	UNKNOWN AT THIS TIME	ROOT CUT. ROOTS FROM MAIN. WAITING FOR SEWAGE TO RECEDE
DEREK R. GUTHRIE	KY0078956	13303 TENNIS BLVD	2/17/2022 20:08	2/17/2022 20:10	2	DD71513019	CAPACITY ISSUE	LACK OF SYSTEM CAPACITY	WET WEATHER	3475665	CUSTOMER CLEANED THE IMPACTED AREA	ADVISED TO CONTACT A PLUMBER
DEREK R. GUTHRIE	KY0078956	1711 SADIE LN	2/17/2022 23:25	2/18/2022 23:27	10	102101740000A	CAPACITY ISSUE	LACK OF SYSTEM CAPACITY	WET WEATHER	3475682	CUSTOMER CLEANED THE IMPACTED AREA	ADVISED TO CONTACT A PLUMBER
MORRIS FORMAN	KY0022411	4036 HENDERSON AVE	2/22/2022 10:18	2/22/2022 11:30	200	KK13769039	GREASE IN MAIN SEWER	GREASE BLOCKAGE	WET WEATHER	3477888	CUSTOMER HAS CLEANED EFFECTED AREA	FLUSHED/VACUATED THE GREASE FROM THE SEWER IN THE RESIDENTIAL AREA
MORRIS FORMAN	KY0022411	3103 KLONGWAY DR	2/25/2022 13:10	2/25/2022 13:13	1	54111	FURTHER INVESTIGATION	ROOTS	WET WEATHER	3478521	MSD WILL CLEAN AREA	ROOT CUT. MAIN SEWER MINICAM LINE
FLOYDS FORK	KY0102784	1120 BLACKTHORN RD	3/7/2022 20:08	3/7/2022 20:10	1	25091120	FURTHER INVESTIGATION	LACK OF SYSTEM CAPACITY	WET WEATHER	3480916	UNDETERMINED	PLACED TVLIS
MORRIS FORMAN	KY0022411	4418 MANNER DALE DR	3/21/2022 16:12	3/21/2022 16:12	1	186004960000A	ROOTS OBSTRUCTIONS INSIDE OF SANITARY MAIN	ROOTS	DRY WEATHER	3491574	CUSTOMER CLEANED IMPACTED AREA	NO FURTHER ACTION NEEDED AT THIS TIME. IF PROBLEM STILL PRESENT CUSTOMER TO CONTACT A PLUMBER
DEREK R. GUTHRIE	KY0078956	5434 SOUTHVIEW DR	3/28/2022 22:15	3/29/2022 0:05	1000	062P0960000A	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-GREASE / ROOTS	DRY WEATHER	3492436	CUSTOMER CLEANED IMPACTED AREA	FLUSHED MAIN SEWER TO REMOVE OBSTRUCTION
DEREK R. GUTHRIE	KY0078956	816 DORSEY LN	4/1/2022 18:30	4/1/2022 20:30	1	HU21720019	GREASE IN MAIN SEWER	GREASE BLOCKAGE	DRY WEATHER	3495663	CUSTOMER CLEANED IMPACTED AREA	FLUSHED MAIN SEWER TO REMOVE OBSTRUCTION
DEREK R. GUTHRIE	KY0078956	1734 LUKEN DR	4/2/2022 11:00	4/2/2022 11:42	1	62877	ROOTS ON MSD PORTION OF PIPE	ROOTS	DRY WEATHER	3495670	UNKNOWN AT THIS TIME	ROOT CUT THE MAIN LINE
MORRIS FORMAN	KY0022411	4107 HILLSBORO RD	4/5/2022 14:24	4/5/2022 14:25	4	052200630000A	GREASE AND ROOTS	OBSTRUCTION-GREASE / ROOTS	WET WEATHER	3498211	CUSTOMER CLEANED AREA	PLACED PSGR REPAIR
MORRIS FORMAN	KY0022411	9317 GALENE DR	4/7/2022 12:52	4/7/2022 12:55	1	057801930000A	ROOTS IN MSD MAIN	ROOTS	DRY WEATHER	3496652	IF ANY MSD WILL CLEAN AREA	CUT MAIN SEWER CLEARED MAIN
DEREK R. GUTHRIE	KY0078956	1101 SPRINGVIEW DR	4/12/2022 23:59	4/13/2022 0:30	1	066002730000A	OBSTRUCTION IN THE MAIN SEWER.	OBSTRUCTION-GREASE / ROOTS	WET WEATHER	3497668	MSD CONTRACTOR CLEANED IMPACTED AREAS	TVL/TVLIS. MSD PORTION IS NOW CLEAR



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MORRIS FORMAN	KY0022411	9414 DORAL CT	4/13/2022 19:10	4/13/2022 20:15	1	BJ40026019	GREASE BLOCKAGE IN THE MAIN SEWER	GREASE BLOCKAGE	WET WEATHER	3497994	CUSTOMER CLEANED IMPACTED AREA	FLUSHED THE MAIN SEWER TO REMOVE THE OBSTRUCTION
MORRIS FORMAN	KY0022411	215 BLACKBURN AVE	4/13/2022 22:25	4/13/2022 20:45	1	073B00370000A	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	WET WEATHER	3498025	CUSTOMER CLEANED IMPACTED AREA	ADVISED CUSTOMER TO ALLOW 24 HOURS FOR SEWAGE TO RECEDE
MORRIS FORMAN	KY0022411	933 SOUTHVIEW RD	4/13/2022 23:10	4/13/2022 23:50	1	97752	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	WET WEATHER	3498027	CUSTOMER CLEANED IMPACTED AREA	ADVISED CUSTOMER TO ALLOW 24 HOURS FOR SEWAGE TO RECEDE
MORRIS FORMAN	KY0022411	1533 GODDARD AVE	4/14/2022 21:55	4/14/2022 22:10	1	J06514029	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	WET WEATHER	3498328	CUSTOMER CLEANED IMPACTED AREA	ADVISED CUSTOMER TO CALL BACK IF THEY BACK UP AGAIN
DEREK R. GUTHRIE	KY0078956	5109 DOROSE CT	4/17/2022 23:00	4/17/2022 23:30	1	BE08914229	MAIN SEWER HAS ROOT BLOCKAGE	ROOTS	DRY WEATHER	3500528	CUSTOMER CLEANED IMPACTED AREA	ROOT CUT THE MAIN SEWER TO RESTORE FLOW
MORRIS FORMAN	KY0022411	6000 EMMALEE DR	4/18/2022 9:30	4/18/2022 10:09	1	087101500000A	MAIN SEWER WAS STOPPED UP	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3500573	NONE OBSERVED BY MSD PERSONNEL	FLUSHED MAIN SEWER TO RELIEVE PSC
DEREK R. GUTHRIE	KY0078956	3204 KINGSWOOD WAY	4/19/2022 0:20	4/19/2022 1:00	1	54985	ROOTS IN THE MAIN SEWER & ON PP	ROOTS	DRY WEATHER	3503578	CUSTOMER CLEANED IMPACTED AREA	ROOT CUT AND TV AND RAN MINI CAM
MORRIS FORMAN	KY0022411	9214 MARLBORO CIR	4/21/2022 13:46	4/21/2022 13:47	1	HU15546019	ROOTS IN THE MAIN SEWER	ROOTS	WET WEATHER	3504077	CUSTOMER CLEANED IMPACTED AREA	PLACED TV INSPECTION
MORRIS FORMAN	KY0022411	201 MERIDIAN AVE	4/25/2022 9:37	4/25/2022 9:39	1	073M01360000A	OBSTRUCTION IN MSD SSL	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3504435	MSD CLEANED IMPACTED AREA	FLUSHED AND OPEN LINE
DEREK R. GUTHRIE	KY0078956	8900 COLLINGWOOD RD	4/29/2022 11:11	4/29/2022 11:13	1	T168A242	ROOT BLOCKAGE IN THE MAIN AND AT THE SHARE JOINT T BROWN 5/2/22	ROOTS	DRY WEATHER	3505570	CUSTOMER CLEANED IMPACTED AREA	PSCR WO CREATED
MORRIS FORMAN	KY0022411	3916 HYCLIFFE AVE	5/12/2022 19:00	5/12/2022 19:13	1	051800240000A	OBSTRUCTION IN THE MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3511407	CUSTOMER CLEANED THE IMPACTED AREA	FLUSH THE MAIN SEWER
MORRIS FORMAN	KY0022411	3012 NADINA DR	5/13/2022 13:46	5/13/2022 14:33	1	74014	ROOTS IN THE MAIN SEWER	ROOTS	DRY WEATHER	3511506	CUSTOMER CLEANED THE IMPACTED AREA	PSCR WO#511572
DEREK R. GUTHRIE	KY0078956	9818 MC CREALN	5/26/2022 4:30	5/26/2022 7:25	1	PD06400019	FURTHER INVESTIGATION NEEDED	ROOTS	WET WEATHER	3521205	CUSTOMER ADVISED MSD PERSONNEL THEY WOULD CLEAN IMPACTED AREA	REFERRED FOR TVI
DEREK R. GUTHRIE	KY0078956	4645 KNOPP AVE	5/26/2022 17:40	5/26/2022 19:15	1	464513CP1001	UNKNOWN OBSTRUCTION IN THE MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	WET WEATHER	3521364	CUSTOMER CLEANED IMPACTED AREA	FLUSHED THE MAIN SEWER TO REMOVE OBSTRUCTION; REFERRED TO TV CREW FOR INSPECTION
MORRIS FORMAN	KY0022411	2217 GRINSTEAD DR	6/5/2022 17:15	6/5/2022 18:15	1	39842	PIPE BROKEN DOWN AND ROOTS ON MSD PORTION	ROOTS	DRY WEATHER	3524020	CUSTOMER CLEANED IMPACTED AREA	DUG DOWN FOUND PIPE AND INSTALLED MSD CLEAN OUT
HITE CREEK	KY0022420	12004 WIDE SPRING CT	6/7/2022 17:00	6/7/2022 19:26	1	168701940000A	ROOTS IN MAIN SEWER	ROOTS	DRY WEATHER	3524661	REFER TO CONTRACTOR	ROOT CUT THE OBSTRUCTION FROM THE SEWER WO#3524707

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MORRIS FORMAN	KY0022411	3509 KERRY DR	6/8/2022 10:13	6/8/2022 11:30	1	53011	GREASE IN MAIN SEWER	GREASE BLOCKAGE	DRY WEATHER	3524649	CUSTOMER CLEANED IMPACTED AREA	FLUSHED THE GREASE FROM THE SEWER IN THE RESIDENTIAL AREA 3524652
MORRIS FORMAN	KY0022411	427 HEYWOOD AVE	6/13/2022 9:40	6/13/2022 10:29	1	42024	UNKNOWN BLOCKAGE IN THE MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3525378	CUSTOMER CLEANED IMPACTED AREA	REFER TO LASA SUPERVISOR FOR FURTHER INVESTIGATION
MORRIS FORMAN	KY0022411	633 LYNN ST	6/13/2022 17:30	6/13/2022 17:45	1	63311	ROOTS IN THE MAIN SEWER	ROOTS	DRY WEATHER	3525485	CUSTOMER ADVISED MSD PERSONNEL THEY WOULD CLEAN IMPACTED AREA	MAIN SEWER AND SSL REPAIRED
DEREK R. GUTHRIE	KY0078956	6713 SHA-REITH DR	6/15/2022 7:50	6/15/2022 12:30	1	PB16533059	ROOTS IN THE MAIN SEWER	ROOTS	DRY WEATHER	3525771	CUSTOMER CLEANED THE IMPACTED AREA	RC MAIN SEWER
DEREK R. GUTHRIE	KY0078956	9426 CHAMBERS WAY	6/20/2022 13:00	6/20/2022 13:40	1	PD25184039	GREASE BLOCKAGE IN MAIN SEWER	GREASE BLOCKAGE	DRY WEATHER	3530065	CUSTOMER CLEANED IMPACTED AREA	FLUSHED THE GREASE FROM THE SEWER IN THE RESIDENTIAL AREA W03530066
MORRIS FORMAN	KY0022411	3112 MELANIE WAY	6/26/2022 22:15	6/26/2022 23:00	1	091N01870000A	ROOTS IN THE MAIN SEWER	ROOTS	WET WEATHER	3533780	CUSTOMER CLEANED THE IMPACTED AREA	FLUSHED THE MAIN SEWER TO REMOVE OBSTRUCTION

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APPENDIX G

OVERFLOWS TO THE EXTERIOR

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HITE CREEK	KY0022420	5504 TIMBER CREEK CT	7/14/2021 13:40	7/14/2021 14:40	200	Sewer Main	117932-AG	EXCESSIVE SPRAY GETTING ON GROUND WHILE DRAINING FORCE MAIN TO REPAIR DAMAGED ISOLATION VALVE	MECHANICAL FAILURE	DRY WEATHER	3398820	CONTRACTOR CLEANED IMPACTED AREA	SPRAY WAS COVERED UP WITH STEEL PLATE TO CONTAIN TO VALVE TO VAULT
DEREK R. GUTHRIE	KY0078956	3327 BLANTON LN	7/17/2021 11:53	7/17/2021 12:44	3	Sewer Main	97320	OBSTRUCTION IN THE MAIN SEWER	OBSTRUCTION-GREASE / ROOTS	DRY WEATHER	3399173	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA	TVI #3399172
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	7/18/2021 14:10	12/20/2021 10:55	10000	Sewer Treatment Plant	MSD0278	MECHANICAL FAILURE IN DIGESTER BASEMENT CAUSED SLUDGE TO FILL BASEMENT LEVEL AND TRAVEL INTO ELECTRICAL CONDUIT DISCHARGING TO THE GROUND	MECHANICAL FAILURE	DRY WEATHER	3399760	WASHED DOWN ROADWAY TO DRAINS TO LEADING TO PRIMARY	SET UP PUMPS IN DIGESTER BASEMENT TO LOWER SLUDGE LEVEL BELOW CONDUITS
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	7/19/2021 6:00	7/19/2021 6:10	5000	Sewer Treatment Plant	MSD0278	OVERFLOW AT DECANT TANK	MECHANICAL FAILURE	DRY WEATHER	3399775	HOSE TO PLANT DRAIN	STOPPED PUMP
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	7/19/2021 22:15	7/19/2021 23:30	800	Sewer Treatment Plant	MSD0278	BLOCKAGE IN MANHOLE	OBSTRUCTION-GREASE / ROOTS	DRY WEATHER	3400566	HOSE TO PLANT DRAIN	TURNED OFF PUMP
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	7/26/2021 6:00	7/26/2021 6:30	750	Sewer Treatment Plant	MSD0278	OBSTRUCTION IN DIGESTER 2 TRANSFER LINE	OBSTRUCTION-GREASE / ROOTS	DRY WEATHER	3410661	HOSED DOWN TO PRIMARY DRAINS	TURNED OFF TRANSFER PUMP
MORRIS FORMAN	KY0022411	9601 GA-LENE DR	9/1/2021 16:00	9/1/2021 16:15	1	Sewer Main	28305	OBSTRUCTION OF SOME KIND IN MAIN SEWER	OBSTRUCTION-GREASE / ROOTS	DRY WEATHER	3421358	MSD CLEANED IMPACTED AREA	TVI #3421356
MORRIS FORMAN	KY0022411	3320 BARD-STOWN RD	9/30/2021 16:37	9/30/2021 13:00	30	Sewer Main	65731A	GREASE TOWELS RAGS	GREASE BLOCKAGE	DRY WEATHER	3430384	MSD CLEANED AREA	PLACED TVI/SEWER INSPECTION
MORRIS FORMAN	KY0022411	9614 TAYLORSVILLE RD	10/19/2021 10:14	10/19/2021 11:23	50	Sewer Manhole	28885	SOME ROOTS BUT RAGS AND T SHIRTS	OBSTRUCTION-GREASE / ROOTS	DRY WEATHER	3437208	MSD CLEANED AREA	ROOT CUT MAIN CLEANED AREA
DEREK R. GUTHRIE	KY0078956	3715 DIXIE HWY	10/19/2021 12:20	10/19/2021 13:06	1	Sewer Service Line	RR10041029	CAUSE OF DISCHARGE IS IN MAIN SEWER	OBSTRUCTION-GREASE / ROOTS	DRY WEATHER	3437225	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA; WORK ORDER 3437231.	FOUND NO PROBLEM TO CAUSE DISCHARGE; MSD CLEANED AND SANITIZED AREA



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WGTC NAME	WGTC 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
DEREK R. GUTHRIE	KY0078956	3713 DIXIE HWY	10/19/2021 18:00	10/19/2021 20:00	240	Sewer Main	06940C-AG	STRUCTURAL FAILURE, FORCE MAIN BREAK	STRUCTURAL FAILURE	DRY WEATHER	3439459	CLEANED AND SANITIZED THE IMPACTED AREA	CONTRACTOR TO REPAIR BROKEN FORCE MAIN, PUMP STATION HAULED DURING REPAIRS
DEREK R. GUTHRIE	KY0078956	7318 REGIMENT RD	10/24/2021 14:00	10/24/2021 14:20	15000	Sewer Main	106733-V	STRUCTURAL FAILURE (FORCE MAIN BREAK)	STRUCTURAL FAILURE	WET WEATHER	3439887	MSD CON-TRACTOR CLEANED AND SANITIZED THE IMPACTED AREA	REPAIRED THE FORCE MAIN
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	10/27/2021 4:30	10/27/2021 4:55	2000	Sewer Treatment Plant	MSD0278	#1 DIGESTER OVERFLOW	MECHANICAL FAILURE	DRY WEATHER	3440471	HOSE TO PLANT DRAIN	STARTED TRANSFER FROM DIGESTER #1 TO #2 TO REDUCE LEVEL
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	10/28/2021 9:15	10/28/2021 9:30	1000	Sewer Treatment Plant	MSD0278	DIGESTER #1 OVERFLOW	MECHANICAL FAILURE	DRY WEATHER	3440620	HOSED TO PLANT DRAIN	TRANSFER VOLUME FROM DIGESTER 1 TO DIGESTER 2
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	10/29/2021 10:00	10/29/2021 12:00	3000	Sewer Treatment Plant	MSD0278	DIGESTER #1 OVERFLOW DUE TO LID NOT BEING LEVEL, MAINTENANCE HAS PARTS ON ORDER FOR REPAIR	MECHANICAL FAILURE	DRY WEATHER	3440734	HOSE TO PLANT DRAIN	STARTED TRANSFER FROM DIGESTER #1 TO #2 TO REDUCE LEVEL
HITE CREEK	KY0022420	4209 BAY POINTE DR	11/9/2021 20:13	11/9/2021 22:05	1	Sewer Service Line	260200810000A	STRUCTURAL FAILURE OF MAIN SEWER	MECHANICAL FAILURE	DRY WEATHER	3441766	FURTHER INVESTIGATION IS REQUIRED	REFERRED TO THE PUMP STATION PERSONNEL FOR FURTHER INVESTIGATION
MORRIS FORMAN	KY0022411	6846 GREEN MEADOW CIR	11/16/2021 14:04	11/16/2021 15:45	20	Sewer Manhole	63338	ROOTS RAGS IN THE MAIN	ROOTS	DRY WEATHER	3442486	MSD WILL CLEAN AREA	ROOT CUT MAIN SEWER TURNED OVER FOR ROOT REDUCTION PROGRAM
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	11/17/2021 5:55	11/17/2021 6:20	2000	Sewer Treatment Plant	MSD0278	LID UNBALANCED ON DIGESTER #1 DUE TO MECHANICAL ISSUES	MECHANICAL FAILURE	DRY WEATHER	3444617	MSD CLEANED AND SANITIZED CONTAINMENT AREA	ROLLERS ON DIGESTER #1 TO BE REPLACED BY MAINTENANCE
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	11/17/2021 6:00	11/17/2021 13:00	7200	Sewer Treatment Plant	MSD0278	OBSTRUCTION WAS IN 3R TO PRIMARY	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3444666	CLEAN AND SANITIZE BY MSD	TURN OFF HOSES TO 3R LINE

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MORRIS FORMAN	KY0022411	3108 DIXIE HWY	11/23/2021 21:31	11/23/2021 20:10	1	Sewer Manhole	06396	CAUSE OF DISCHARGE IS IN MAIN SEWER	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3449370	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA	REFERRED TO CREW FOR TV INSPECTION
FLOYDS FORK	KY0102784	303 N ENGLISH STATION RD	11/29/2021 14:53	11/29/2021 15:12	100	Sewer Manhole	117635	GREASE AND A BASEBALL	GREASE BLOCKAGE	DRY WEATHER	3449811	CAN REACH IN FIELD TO CLEAN NO SOLIDS AND DISCHARGE WAS ON CONCRETE	FLUSHED OPEN LINE
FLOYDS FORK	KY0102784	13050 EASTGATE PARK WAY	11/29/2021 15:01	11/29/2021 15:03	1	Sewer Manhole	117631	GREASE AND A BASEBALL	GREASE BLOCKAGE	DRY WEATHER	3449812	MSD WILL CLEAN AREA	FLUSHED MAIN SEWER AND WASHED DISCHARGE TO THE SIDE
CEDAR CREEK	KY0098540	3260 RUCKRIE-GEL PKY	11/30/2021 14:50	11/30/2021 15:15	115	Sewer Manhole	28179	FURTHER INVESTIGATION	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3449988	MSD WILL CLEAN AREA	PLACED TV INSPECTION ON TWO MAINS VACTORED TWO MAIN SEWERS MH# 28179 AND 28178
DEREK R. GUTHRIE	KY0078956	1113 PE-NILE RD	12/12/2021 18:30	12/12/2021 18:47	1	Sewer Main	58837-ST	UNKNOWN OBSTRUCTION	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3451610	CUSTOMER ADVISED THEY WOULD CLEAN IMPACTED AREA	FLUSHED SERVICE LINE
CEDAR CREEK	KY0098540	5508 OAK CREEK LN	12/23/2021 13:10	12/23/2021 13:27	1	Sewer Main	28669	OBSTRUCTION OF ROOTS IN MAIN	ROOTS	DRY WEATHER	3457181	CUSTOMER ADVISED PERSONNEL WOULD CLEAN IMPACTED AREA	ROOT CUT MAIN 27 FT GOT OPEN
MORRIS FORMAN	KY0022411	302 BROWNS LN	12/23/2021 17:30	12/23/2021 18:00	1	Sewer Main	47515-ST	CAUSE OF DISCHARGE IS AT THE SHARED JOINT OF THE PROPERTY SERVICE CONNECTION. ROOTS IN THE SHARED JOINT OF THE PROPERTY SERVICE CONNECTION.	ROOTS	DRY WEATHER	3457197	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA	FLUSHED ROOTS, REPAIRED THE PROPERTY SERVICE CONNECTION, WORK ORDER 3457262.
HITE CREEK	KY0022420	3800 JEAN CAIN PL	12/24/2021 11:20	12/24/2021 14:01	1	Sewer Service Line	1516224	CAUSE OF DISCHARGE IS IN MANHOLE	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER	3457212	CUSTOMER HAS NO KNOWN DAMAGES	FLUSHED MAIN SEWER TO RESTORE THE FLOW
MORRIS FORMAN	KY0022411	1850 S HURST-BOURNE PKY	12/31/2021 17:33	12/31/2021 15:40	1	Sewer Main	110716	GREASE IN MAIN SEWER	GREASE BLOCKAGE	DRY WEATHER	3458865	MSD CLEANED IMPACTED AREA	FLUSH MAIN SEWER DID RELEASE



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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
CEDAR CREEK	KY0098540	10825 FAIR-MOUNT RD	1/2/2022 15:03	1/3/2022 10:03	96000	Sewer Lift Station	MSD1222-PS	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	WET WEATHER	3459176	• DEBRIS RAKED BAGGED AND HAULLED OFF	
* AREA DISINFECTED WITH LIME													
		SITE FOUND DURING RAIN EVENT - WILL BE MONITORED AND EVALUATED FOR REPAIR											
DEREK R. GUTHRIE	KY0078956	10012 3RD STREET RD	1/12/2022 12:30	1/12/2022 13:30	10	Sewer Manhole	74860	OBSTRUCTION IN MAIN SEWER WIPES	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3461191	MSD PERSONNEL CLEANED IMPACTED AREA	FLUSHED MAIN SEWER TO RESTORE FLOW #3461190
MORRIS FORMAN	KY0022411	657 BAR-RET AVE	1/12/2022 19:30	1/12/2022 21:00	1	Sewer Manhole	12103A	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3461260	MSD CLEANED IMPACTED AREA	MSR #3461258
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	2/21/2022 13:08	2/21/2022 10:45	75	Sewer Treatment Plant	MSD0278	ELECTRICAL BREAKER KICKING OUT CAUSING PUMP TO STOP	ELECTRICAL PROBLEMS AT MSD	DRY WEATHER	3477597	OPERATORS CLEANED AND SANITIZED	RESET BREAKER AND RESTARTED PUMP
MORRIS FORMAN	KY0022411	301 MOCKINGBIRD VALEY RD	3/23/2022 15:00	3/23/2022 17:00	360	Sewer Node	68081-CO	ROOT OBSTRUCTION IN SANITARY MAIN, FURTHER INVESTIGATION NEEDED.	ROOTS	DRY WEATHER	3491896	MSD TO CLEAN IMPACTED AREA	ROOT CUT LINE
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	4/4/2022 22:20	4/5/2022 1:30	3000	Sewer Treatment Plant	MSD0278	DIGESTER #3 BLOCKAGE	MECHANICAL FAILURE	DRY WEATHER	3496048	MSD CLEANED AND SANITIZED CONTAINMENT AREA	MAINTENANCE CLEARED BLOCKED LINE
MORRIS FORMAN	KY0022411	20 HALLS-DALE DR	4/6/2022 19:59	4/6/2022 19:10	1	Sewer Main	02285	ROOT OBSTRUCTIONS IN SANITARY MAIN	ROOTS	WET WEATHER	3496505	CUSTOMER CLEANED IMPACTED AREA	ADVISED CUSTOMER IF STILL HAVING PROBLEMS TO CONTACT A PLUMBER
MORRIS FORMAN	KY0022411	4522 AL-GONQUIN PKY	4/11/2022 8:25	4/11/2022 10:00	100	Sewer Treatment Plant	MSD0278	FEPS CAPACITY	MECHANICAL FAILURE	DRY WEATHER	3497034	MSD CLEANUP	MSD HOSED AND SANITIZED
DEREK R. GUTHRIE	KY0078956	2312 EM-BASSY LN	44668	44668	1	Sewer Main	04775	OBSTRUCTION OF ROOTS IN MAIN	ROOTS	DRY WEATHER	3498588	MSD CLEANED IMPACTED AREA	ROOT CUT MAIN GOT HEAVY ROOTS OUT
DEREK R. GUTHRIE	KY0078956	5109 DOROSE CT	44679	44679	50	Sewer Manhole	41715	BLOCKAGE IN THE MAIN SEWER	ROOTS	DRY WEATHER	3505036	REFERRED TO CREW TO CLEAN	FLUSHED MAIN SEWER TO REMOVE OBSTRUCTION

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WOTC NAME	WOTC 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	4522 AL-GONQUIN PKY	44690	44690	100	Sewer Treatment Plant	MSD0278	FEPS CAPACITY	MECHANICAL FAILURE	DRY WEATHER	3509981	MSD HOSED AND SANITIZED THE AFFECTED AREA.	OPENED ANTI-FOAM MANUALLY TO 100% DOSING.
MORRIS FORMAN	KY0022411	102 BURNLEY RD	44710	44710	1	Sewer Main	00516A	OBSTRUCTION OF GREASE AND ROOTS ON MSD'S PORTION/ FURTHER INVESTIGATION NEEDED	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3521584	MSD WILL CLEAN IMPACTED AREA	REFERRED FOR TVI
MORRIS FORMAN	KY0022411	1113 ROS-TREVOR CIR	44710	44710	1	Sewer Manhole	45918	OBSTRUCTION IN THE MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3521601	MSD PER-SONNEL CLEANED THE IMPACTED AREA	FLUSHED THE MAIN SEWER TO REMOVE THE OBSTRUCTION
DEREK R. GUTHRIE	KY0078956	4615 PAL-MAR RD	44711	44711	1	Sewer Manhole	09797	OBSTRUCTION IN THE MAIN SEWER	OBSTRUCTION NOT GREASE / ROOTS	DRY WEATHER	3521639	MSD PER-SONNEL CLEANED THE IMPACTED AREA	MSR WO#3521658

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APPENDIX H

IOAP CROSSWALK

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PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
17TH ST FPS DWO ELIMINATION	LTCP-DWO	MSD0306-FP	L_OR_MF_190_S_03_A_A
27TH STREET FPS DWO ELIM	LTCP-DWO	MSD0307-FP	L_OR_MF_019_S_03_A_A
34TH ST FPS DWO ELIMINATION	LTCP-DWO	MSD0308-FP	L_OR_MF_019_S_03_A_B
4TH STREET FPS DWO ELIMINATION	LTCP-DWO	CS0022	L_OR_MF_022_M_03_A_A
4TH STREET FPS DWO ELIMINATION	LTCP-DWO	MSD0303-FP	L_OR_MF_022_M_03_A_A
ADAMS STREET SEWER SEPARATION (FORMERLY STORAGE BASIN)	LTCP-CSO	CS0172	L_OR_MF_172_S_09B_B_A_0
ADMIRAL WAY PS & FM UPGRADES	AM	93703	AMADMIRALWAYS
ADMIRAL WAY PS & FM UPGRADES	AM	93705	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	00066-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
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP-SSO	MSD0165-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
ASHBURTON PS IMPROVEMENTS & DIVERSION	SSDP-SSO	21229	S_PO_WC_PC07_M_01_A
AVANTI PS ELIMINATION	SSDP-SSO	88545	S_CC_CC_MSD1025_S_03_B
BARDSTOWN RD PS IMPROVEMENTS	SSDP-SSO	88545	S_SD_MF_NB06_S_13_C
BEARGRASS INTERCEPTOR REHABILITATION PH 2	ISSDP	21061	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21089	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21089A	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21101	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21153	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21156	BEECHWOOD VILLAGE SEWER REPL
BELLS LANE (FORMERLY PADDY'S RUN) WET WEATHER TREATMENT FACILITY	LTCP-CSO	CS0015	L_OR_MF_015_M_13_B_B_8
BELLS LANE (FORMERLY PADDY'S RUN) WET WEATHER TREATMENT FACILITY	LTCP-CSO	CS0191	L_OR_MF_015_M_13_B_B_8
BUECHEL TRUNK SEWER REHABILITATION	AEAP	08426	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	08427	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	08429	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	08430	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	08431	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	085100290046A	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	18654	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	49647	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	85055	C_SF_MF_B
BUECHEL TRUNK SEWER REHABILITATION	AEAP	85075	C_SF_MF_B



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BUECHEL TRUNK SEWER REHABILITATION	AEAP	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	13831	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	13843	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP-SSO	13846	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	KK1485239	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	CS0028	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0029	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0034	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0036	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0178	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0181	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0183	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0185	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0186	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0197	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0199	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0200X	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP-CSO	CS0202	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

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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	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	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP-CSO	CSO154	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP-CSO	CSO167	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	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	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
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	32682	DEREK R GUTHRIE WQTC UPGRADES



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DEREK R GUTHRIE WQTC UPGRADES	OTHER	32688	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
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP-SSO	04689-W	S_MC_WC_NB02_S_03_C
EAST ROCKFORD PS RELOCATION	SSDP-SSO	MSD1105-PS	S_FF_FF_NB02_S_13_C
EDEN CARE PS SSO INVESTIGATION	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	88052	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
FAIRMOUNT RD PS IMPROVEMENTS	SSDP-SSO	MSD1066-PS	S_HC_HS_NB01_S_03_C_A
FAIRWAY VIEW PS IMPROVEMENTS	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
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	109306	S_ML_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	117721	S_ML_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	43472	S_ML_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	46891	S_ML_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	62418	S_ML_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP-SSO	62420	S_ML_MF_NB04_M_03_B-1

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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
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	48888	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49224	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49236	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49672	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49673	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	73111	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	MSD0012-PS	HIKES LN INTER & HIGHGATE SPR
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP-SSO	01793	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP-SSO	47650	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP-SSO	47656	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP-SSO	67535	S_MI_MF_NB07_S_07_C
IDLEWOOD IN-LINE STORAGE	SSDP-SSO	28984	S_CC_CC_70188_M_09A_C



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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	28651	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 I/I 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
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	19360	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	19369	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	29633	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	29643	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	29648	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	29649	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	31073	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	31074	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	31083	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	31084	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	57874	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	61266	S_PO_WC_PC08_M_01_C

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LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	79076	S_PO_WC_FC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	MSD1010-PS	S_PO_WC_FC08_M_01_C
LEANN WAY SYSTEM IMPROVEMENT	SSDP-SSO	MSD1200-PS	S_PO_WC_FC08_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_FC10_M_01_C
LEVEN PS ELIMINATION	SSDP-SSO	MSD1019-PS	S_PO_WC_FC10_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	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	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO146	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	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO151	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP-CSO	CSO152	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
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



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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	02932	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	02933	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	02935	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	08637	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	08935-SM	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	115183	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	115184	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	115185	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	15194	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	15195	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	17618	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	23211	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	23212	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	24653	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	27005	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	27007	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	27008	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	27012	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	30376	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	40471	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	40471A	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	40471C	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	40559	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	43726	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	45796	S_MISF_MF_NB01_M_01_C_A1-2

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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	45835	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	45900	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	47034	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	47582	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	47583	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	47593	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	47596	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	47603	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	47604	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	48864	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	51160	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	51161	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	51180	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	51221	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	65070	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	72288	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	72289	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	74512	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	74513	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	74520	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	84155	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	90700	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	96672	S_MISF_MF_NB01_M_01_C_A1-2
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	SSDP-SSO	96673	S_MISF_MF_NB01_M_01_C_A1-2



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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMIFPS DIVERSION 2 - PS DIVERSION AND STORAGE	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-CO	CS0211	L_OR_MF_211_M_13_B_A_8
NIGHTINGALE PS REPLACEMENT & STORAGE	LTCP-CO	CS0018	L_SO_MF_018_S_03_A_A
NORTHERN DITCH DIVERSION INTERCEPTOR	ISSDP	MSD0271	NORTHERN DITCH DIVERSION INTER
PARKVIEW ESTATES I&I INVESTIGATION	SSDP-SSO	47250	S_SD_MF_NB03_S_07_C
PORTLAND CSO STORAGE BASIN	LTCP-CO	CS0019	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	42675	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP-SSO	42680	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
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	MSD0198-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

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PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP-SSO	117963	S_OR_MF_NB04_M_03_B_B_3
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP-SSO	117969	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	LITCP-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	04642	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	MSD0048-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
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	ISSDP	72571-X	SOUTHEASTERN DIVERSION STRUCT
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LITCP-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)	LITCP-CSO	CSO210	L_OR_MF_211_M_13_B_A_8__
SOUTHWESTERN PKWY CSO BASIN	LITCP-CSO	CSO104	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	LITCP-CSO	CSO105	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	LITCP-CSO	CSO189X	L_OR_MF_105_M_13_B_A_0
ST RENE RD PS IN-LINE STORAGE	SSDP-SSO	94187	S_FF_CH_NB01_S_08A_C_A
SUTHERLAND INTERCEPTOR	SSDP-SSO	16649	S_SD_MF_NB05_M_01_A
WATERWAY PROTECTION TUNNEL	LITCP-CSO	CSO020	MULTIPLE
WATERWAY PROTECTION TUNNEL	LITCP-CSO	CSO023	MULTIPLE



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WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0060	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0061	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0062	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0063	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0064	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0065	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0066	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0082	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0084	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0118	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0119	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0120	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0121	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0125	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0126	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0127	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0141	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0150	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0153	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0155	MULTIPLE
WATERWAY PROTECTION TUNNEL	LTCP-CSO	CS0166	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	65631	S_FF_FF_NB01_S_01_C_A



APPENDIX I

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

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2021-048	6/29/2021 18:15	7/4/2021 4:15	106:00	1.82	3.3	TR11	186.65	No	Very large wet weather event heterogeneously distributed across the collection system. SOBA basin was in degraded operating mode which prevent its dewatering during the event.
2021-049	7/6/2021 15:05	7/7/2021 0:45	9:40	0.2	0.53	TR13	5.30	No	Small wet weather event heterogeneously distributed across the collection system.
2021-050	7/7/2021 15:00	7/8/2021 2:25	11:25	0.12	0.28	TR04	6.09	No	Small wet weather event heterogeneously distributed across the collection system.
2021-051	7/8/2021 19:15	7/9/2021 10:25	15:10	0.2	0.46	TR05	7.59	No	Small wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation and its dewatering phase coincided with an increased overflow rate at CSO-016.
2021-052	7/10/2021 8:35	7/14/2021 6:25	93:50	1.9	3.74	TR04	178.32	No	Very large back-to-back wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation and the 2nd dewatering phase coincided with an increased overflow rate at CSO-016.
2021-053	7/16/2021 12:40	7/20/2021 17:55	101:15	0.94	1.49	TR14	99.72	No	Large wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation and each dewatering phases coincided with an increased overflow rate at CSO-016.
2021-056	8/9/2021 10:20	8/9/2021 21:45	11:25	0.64	0.99	TR11	56.95	No	Moderate wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation and its dewatering phase coincided with an increased overflow rate at CSO-016.
2021-061	8/17/2021 13:35	8/18/2021 9:25	19:50	0.39	0.85	TR12	8.52	No	Very small wet weather event heterogeneously distributed across the collection system.
2021-062	8/18/2021 22:30	8/19/2021 15:30	17:00	0.37	0.51	TR15	2.84	No	Small wet weather event heterogeneously distributed across the collection system.
2021-064	8/26/2021 19:50	8/27/2021 14:50	19:00	0.27	0.27	TR05	25.12	No	Small wet weather event heterogeneously distributed across the collection system.
2021-065	8/27/2021 14:50	8/30/2021 12:05	69:15	0.12	0.39	TR12	51.15	No	Small wet weather event heterogeneously distributed across the collection system.
2021-066	8/30/2021 12:05	8/31/2021 13:15	25:10	1.11	1.91	TR13	85.38	No	Large wet weather event homogeneously distributed across the collection system. SOBA was under manual operation and its dewatering phase coincided with an increased overflow rate at CSO-016.
2021-067	8/31/2021 13:15	9/2/2021 10:10	44:55	0.55	0.75	TR15	33.83	No	Moderate wet weather event heterogeneously distributed across the collection system.
2021-068	9/5/2021 3:00	9/7/2021 12:35	57:35	0.99	1.05	TR14	131.92	No	Large wet weather event homogeneously distributed across the collection system. SOBA was under manual operation and its dewatering phase coincided with an increased overflow rate at CSO-016.
2021-071	9/19/2021 15:00	9/21/2021 21:40	54:40	1.72	2.26	TR04	217.67	No	Very Large wet weather event homogeneously distributed across the collection system. SOBA was under manual operation.
2021-072	9/21/2021 21:40	9/24/2021 1:50	52:10	1.48	1.84	TR04	254.98	No	Very Large wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation.
2021-074	10/3/2021 5:40	10/4/2021 20:30	38:50	1.04	1.33	TR05	103.89	No	Large wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation and its dewatering phase coincided with an increased overflow rate at CSO-016.



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2021-075	10/5/2021 20:20	10/7/2021 18:05	45:45	0.87	1.17	TR14	72.95	No	Large wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation, and POBA was under degraded operating mode for about 75% of the event.
2021-078	10/15/2021 8:50	10/16/2021 10:25	25:35	0.53	0.84	TR13	18.77	No	Moderate wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation.
2021-079	10/23/2021 19:05	10/24/2021 17:15	22:10	0.21	0.26	TR05	2.56	No	Small wet weather event homogeneously distributed across the collection system. SOBA was under manual operation.
2021-080	10/25/2021 4:40	10/25/2021 19:55	15:15	0.39	0.46	TR04	48.19	No	Moderate wet weather event homogeneously distributed across the collection system. SOBA was under manual operation, it did not fill and CSO-016 was activated.
2021-082	10/29/2021 19:10	10/30/2021 17:20	22:10	0.62	0.89	TR15	21.75	No	Moderate wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation.
2021-083	11/17/2021 10:55	11/11/2021 22:15	11:20	0.39	0.51	TR15	10.04	No	Moderate wet weather event homogeneously distributed across the collection system. SOBA was under manual operation and POBA was under degraded operation mode.
2021-086	11/17/2021 23:35	11/18/2021 12:15	12:40	0.38	0.54	TR15	11.66	No	Moderate wet weather event homogeneously distributed across the collection system. SOBA was under manual operation and POBA was under degraded operation mode.
2021-087	11/20/2021 22:30	11/21/2021 19:05	20:35	0.36	0.42	TR15	6.30	No	Moderate wet weather event homogeneously distributed across the collection system. SOBA was under manual operation and POBA was under degraded operation mode.
2021-089	12/5/2021 16:00	12/6/2021 21:55	29:55	0.95	1.38	TR15	83.57	No	Large wet weather event heterogeneously distributed across the collection system. SOBA was under manual operation and its dewatering phase coincided with an increased overflow rate at CSO-016.
2021-092	12/10/2021 21:20	12/12/2021 17:15	43:55	1.11	1.43	TR14	164.71	No	Large wet weather event homogeneously distributed across the collection system. SOBA was under manual operation.
2021-093	12/28/2021 5:30	12/29/2021 13:30	32:00	0.56	0.66	TR04	38.85	No	Moderate wet weather event homogeneously distributed across the collection system. SOBA was under manual operation.
2021-095	12/31/2021 21:35	1/4/2022 15:00	86:25	2.11	2.3	TR15	459.05	Yes	Very Large wet weather event homogeneously distributed across the collection system. SOBA was under manual operation.
2022-001	1/4/2022 15:00	1/7/2022 11:05	68:05	0.03	0.07	TR15	124.31	No	Small rainfall only on TR20 (South of DRG-WQTC). The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Bells Lane facility and slows down dewatering. End of the dewatering from the previous event.
2022-002	1/8/2022 11:40	1/12/2022 11:50	96:10	1.64	1.9	TR11	272.96	No	Large homogeneous rainfall. The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Bells Lane facility. It slows down dewatering and increases overflow through the SWSG (CSO015).
2022-003	1/12/2022 11:50	1/18/2022 13:05	145:15	0.03	0.07	TR15	124.31	No	Small rainfall only on the sanitary sewer drainage area. The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Bells Lane facility. System is kept in wet weather conditions and overflow occurs through the SWSG (CSO015).
2022-004	1/18/2022 13:05	1/19/2022 14:30	25:25	0.02	0.03	TR13	17.99	No	Very small rainfall. The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Bells Lane facility and slows down dewatering. Saved volume is mainly due to diversion to DRG-WQTC through the NDDV.
2022-005	1/19/2022 14:30	1/29/2022 7:10	232:40	0.23	0.29	TR15	153.53	No	Very small homogeneous rainfall. The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Bells Lane facility and slows down dewatering. Saved volume is mainly due to diversion to DRG-WQTC through the NDDV, but SWPS managed to dewater the SWO on 01/27.
2022-006	1/30/2022 11:40	2/2/2022 4:35	64:55	0.04	0.08	TR15	36.28	No	Small homogeneous rainfall. The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Bells Lane facility and slows down dewatering. Saved volume is mainly due to diversion to DRG-WQTC through the NDDV.
2022-007	2/2/2022 4:35	2/5/2022 13:10	80:35	1.7	2.03	TR15	204.31	No	Large homogeneous rainfall. At MDS, the gate between the SO and the grit chamber (SG2) was partially closed from 02/01 to 02/04 while the position feedback was reporting the gate fully opened. This prevented flow from the SO to reach the ORI and increased overflow at CSO211. The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Bells Lane facility. It slows down dewatering and increases overflow through the SWSG (CSO015).

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2022-008	2/5/2022 13:10	2/6/2022 10:40	21:30	0.04	0.06	TR14	26.42	No	Small homogeneous rainfall. The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Belis Lane facility and slows down dewatering and increases overflow through the SWSG (CSO015). End of the dewatering from the previous event. Saved volume is mainly due to diversion to DRG-WQTC through the NDDV.
2022-009	2/6/2022 10:40	2/7/2022 10:45	24:05	0.27	0.56	TR12	21.71	Yes	Small homogeneous rainfall. The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Belis Lane facility and slows down dewatering. Saved volume is mainly due to diversion to DRG-WQTC through the NDDV.
2022-010	2/7/2022 10:45	2/8/2022 10:50	24:05	0.1	0.43	TR12	22.27	Yes	Small heterogeneous wet weather event (the continuation of the previous event). The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Belis Lane facility and slows down dewatering. Saved volume is mainly due to diversion to DRG-WQTC through the NDDV.
2022-011	2/8/2022 10:50	2/11/2022 20:40	81:50	0.23	0.36	TR13	99.55	Yes	Small rainfall in the Northeast only (the continuation of the previous event). The screens at SWPS are malfunctioning. This hampers the ability to pump flow toward the MF-WQTC and the Belis Lane facility and slows down dewatering. Saved volume is mainly due to diversion to DRG-WQTC through the NDDV. SWPS pumps dewatered the SWO on Feb 11.
2022-012	2/17/2022 5:05	2/21/2022 22:50	113:45	2.17	2.61	TR14	312.79	Yes	Very Large wet weather event homogeneously distributed across the collection system. Clifton dewatering is delayed by high flows in MFT.
2022-013	2/21/2022 22:50	2/24/2022 10:20	59:30	1.02	1.48	TR04	229.66	Yes	Large wet weather event homogeneously distributed over the collection system. Paddy's Run Flood PS in operation at a lower level due to high river level and manual operation of SWSG gates (SWSG damage).
2022-014	2/24/2022 10:20	3/4/2022 5:05	186:45	1.08	1.2	TR04	404.54	Yes	Large wet weather event homogeneously distributed over the collection system. Paddy's Run Flood PS in operation at a lower level due to manual operation of SWSG gates (SWSG damage).
2022-015	3/6/2022 4:25	3/9/2022 3:05	70:40	1.49	1.67	TR14	336.91	Yes	Large wet weather event homogeneously distributed over the collection system. Paddy's Run Flood PS in operation at a lower level due to manual operation of SWSG gates (SWSG damage). Clifton dewatering is delayed by high flows in MFT.
2022-016	3/9/2022 3:05	3/11/2022 21:25	66:20	0.08	0.12	TR15	38.69	Yes	Small wet weather event homogeneously distributed over the collection system. Clifton is dewatering the remaining storage of the previous event.
2022-019	3/18/2022 23:00	3/19/2022 16:25	17:25	0.18	0.34	TR05	24.30	No	Small homogeneous wet weather event. Overflow in CSO16 seems caused by high water level in MDS.
2022-020	3/22/2022 20:50	3/24/2022 9:20	36:30	0.08	0.12	TR04	1.43	No	Small homogeneous wet weather event. On March 23rd the RTC became unavailable over a 6-hour period because of RTCHMI system and ICM license issue.
2022-022	3/30/2022 23:00	3/31/2022 14:20	15:20	0.24	0.37	TR15	3.41	No	Moderate heterogeneous wet weather event.
2022-024	4/5/2022 0:45	4/9/2022 4:00	99:15	1.39	1.78	TR15	209.37	No	Large homogeneous wet weather event.
2022-027	4/11/2022 8:35	4/12/2022 16:45	32:10	0.37	0.54	TR15	6.23	No	Small homogeneous wet weather event.
2022-028	4/13/2022 8:10	4/16/2022 0:15	64:05	1.4	1.51	TR04	262.75	No	Small homogeneous wet weather event quickly followed by high-intensity homogeneous rain event. RTC system became unavailable over a 6 hours period at the end of the event. Only Logan was then not fully dewatered and resumed dewatering once Csoff came back online.
2022-029	4/16/2022 0:15	4/17/2022 18:30	42:15	0.19	0.25	TR15	40.69	No	Small homogeneous wet weather. Dewatering of remaining storage from the previous event.
2022-030	4/16/2022 4:05	4/16/2022 11:50	11:50	0.28	0.34	TR04	12.79	No	Small homogeneous wet weather event.
2022-033	4/16/2022 4:05	4/16/2022 11:25	11:25	0.05	0.1	TR05	1.96	No	Small heterogeneous wet weather event.
2022-034	4/16/2022 4:05	4/16/2022 18:25	18:25	0.44	0.66	TR05	31.82	No	Moderate homogeneous wet weather event. Small overflow at CSO16, although not caused by SOBA dewatering.
2022-036	4/16/2022 4:05	4/16/2022 15:50	15:50	0.34	1.13	TR04	7.99	No	Moderate heterogeneous wet weather event with a very high intensity rainfall concentrated over the Shawnee area. Although gates at SOBA followed the SOPs and SOBA basin did not fill to capacity, overflow occurred at CSO189 and CSO105.
2022-037	4/16/2022 4:05	4/16/2022 9:35	9:35	0.22	0.4	TR13	11.96	No	Small homogeneous wet weather event. Portland is partially in degraded mode.



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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
2022-038	44699.65	44700.20	13:05	0.36	0.51	TR14	37.04	No	Small homogeneous wet weather event. Overflow occurred at CSO16 while Shawnee basin was dewatering. Shawnee is in manual operation due to missing FT-830. Portland is in degraded mode; pumps are locked out for rehabilitation work in the pipe downstream of the basin.
2022-039	44700.77	44702.91	51:10	0.17	0.28	TR13	9.73	No	Small heterogeneous wet weather event. Portland is in degraded mode; pumps are locked out for rehabilitation work in the pipe downstream of the basin.
2022-041	44706.27	44709.24	71:10	1.29	1.92	TR15	128.2	No	Large wet weather event homogeneously distributed over the collection system. The rainfall had three peaks of intensity; the RTC system was able to perform partial dewatering of the retention facilities between the peaks.
2022-042	44714.02	44718.57	109:00	0.76	1.12	TR15	107.02	No	Moderate rainfall event heterogeneously distributed across the collection system. POBA pumps are locked out for rehabilitation work in the pipe downstream of the basin. POBA is thus in degraded mode and the water level in the basin is keeping the RTC system in "Dewatering" and prolonging the events.
2022-043	44718.57	44722.56	95:45	0.8	1.52	TR15	12.61	No	Moderate wet weather event heterogeneously distributed over the collection system. Although the Starkey pumping station worked well, overflow at CSO20 occurred while only 2% of Logan's storage capacity and 0% of Clifton's basin capacity are used. CSO20 overflow is not caused by RTC operations, but by intense, localized rainfall. Portland is in degraded mode and its water level is keeping the RTC system in "Dewatering" and this prolongs the events.
2022-044	44722.56	44734.69	291:15	0.18	0.41	TR05	1.86	No	Small wet weather event homogeneously distributed over the collection system. Portland is in degraded mode; pumps are locked out for rehabilitation work in the pipe downstream of the basin. SED2 is also in degraded mode.
2022-045	44734.69	44738.83	99:25	0.29	0.7	TR15	5.87	No	Small wet weather event heterogeneously distributed over the collection system. Portland is in degraded mode; pumps are locked out for rehabilitation work in the pipe downstream of the basin. SED2 is still in degraded mode.
2022-046	44738.83	44741.92	74:00	1	1.49	TR15	80.45	No	Large wet weather event concentrated mostly on the Eastern area of the collection system. Portland is in degraded mode; pumps are locked out for rehabilitation work in the pipe downstream of the basin. SED2 is still in degraded mode.
Total									

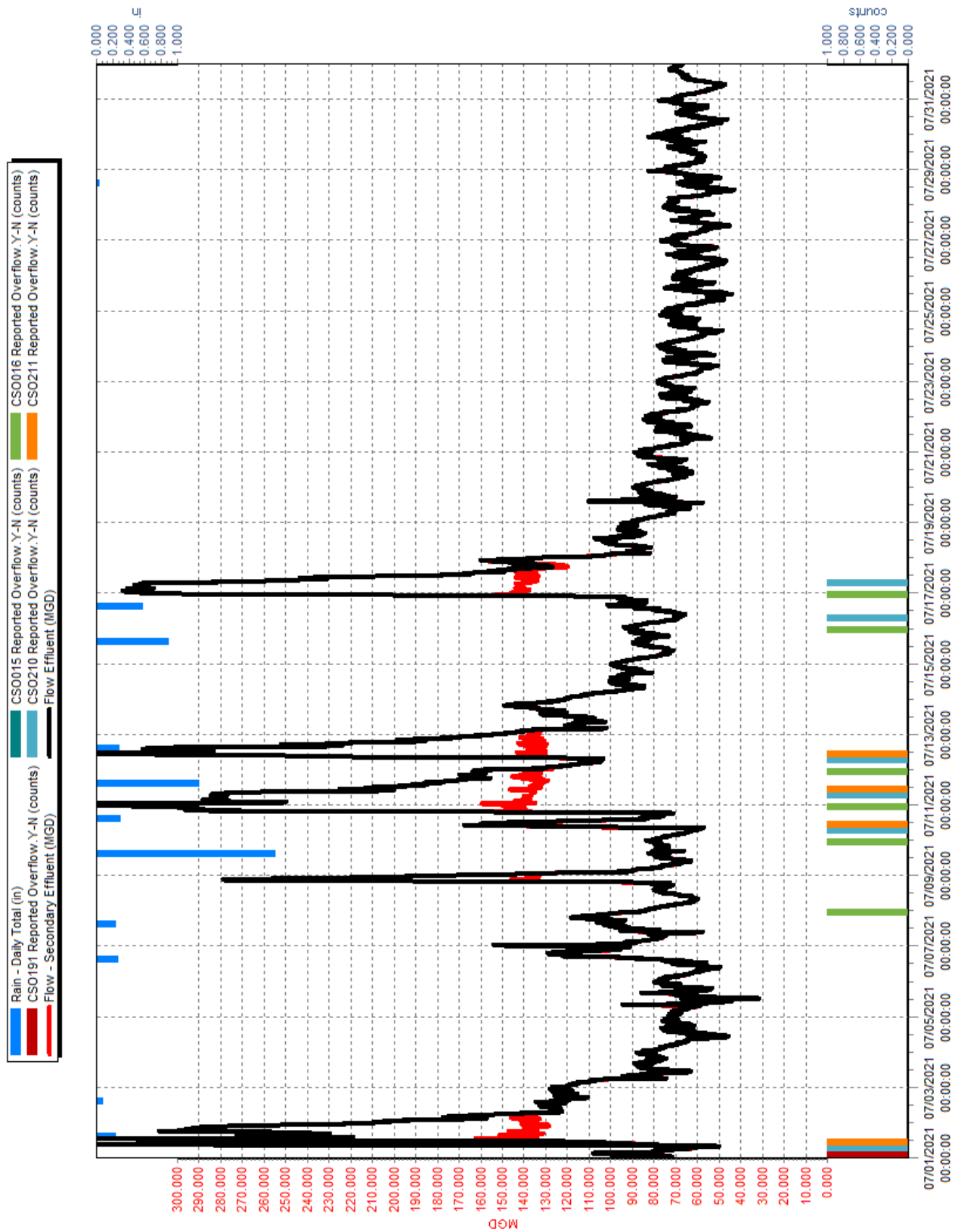


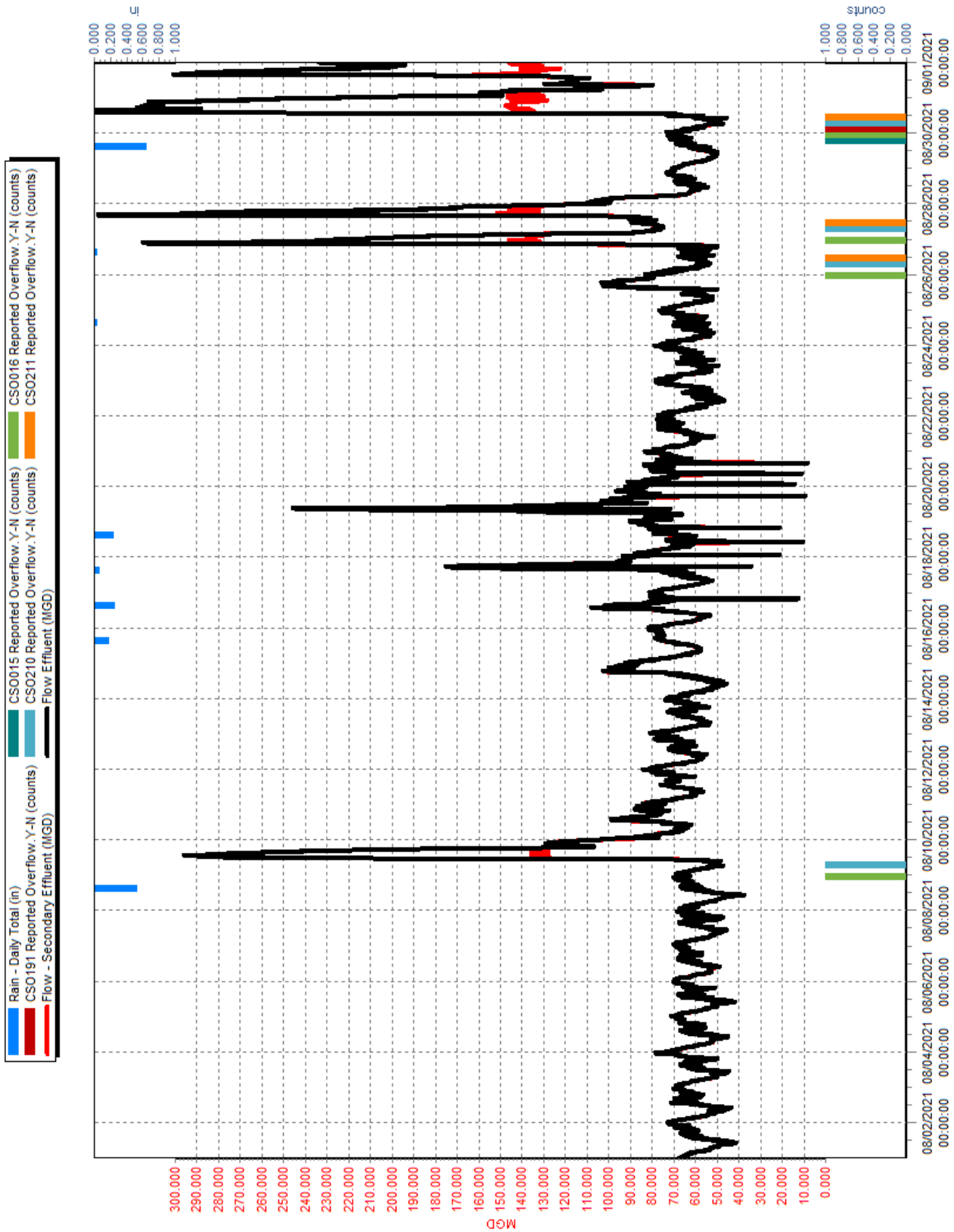
APPENDIX J

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

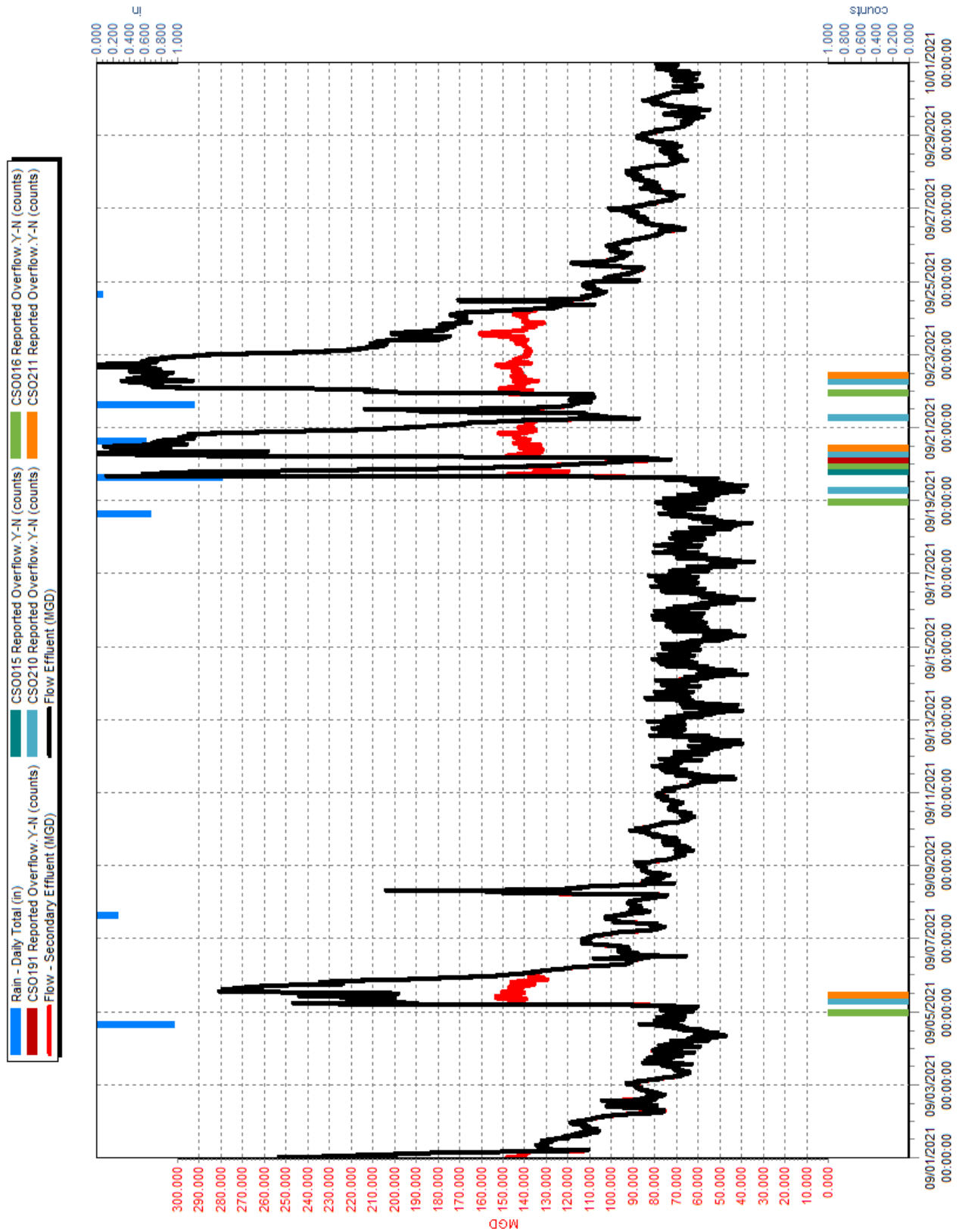
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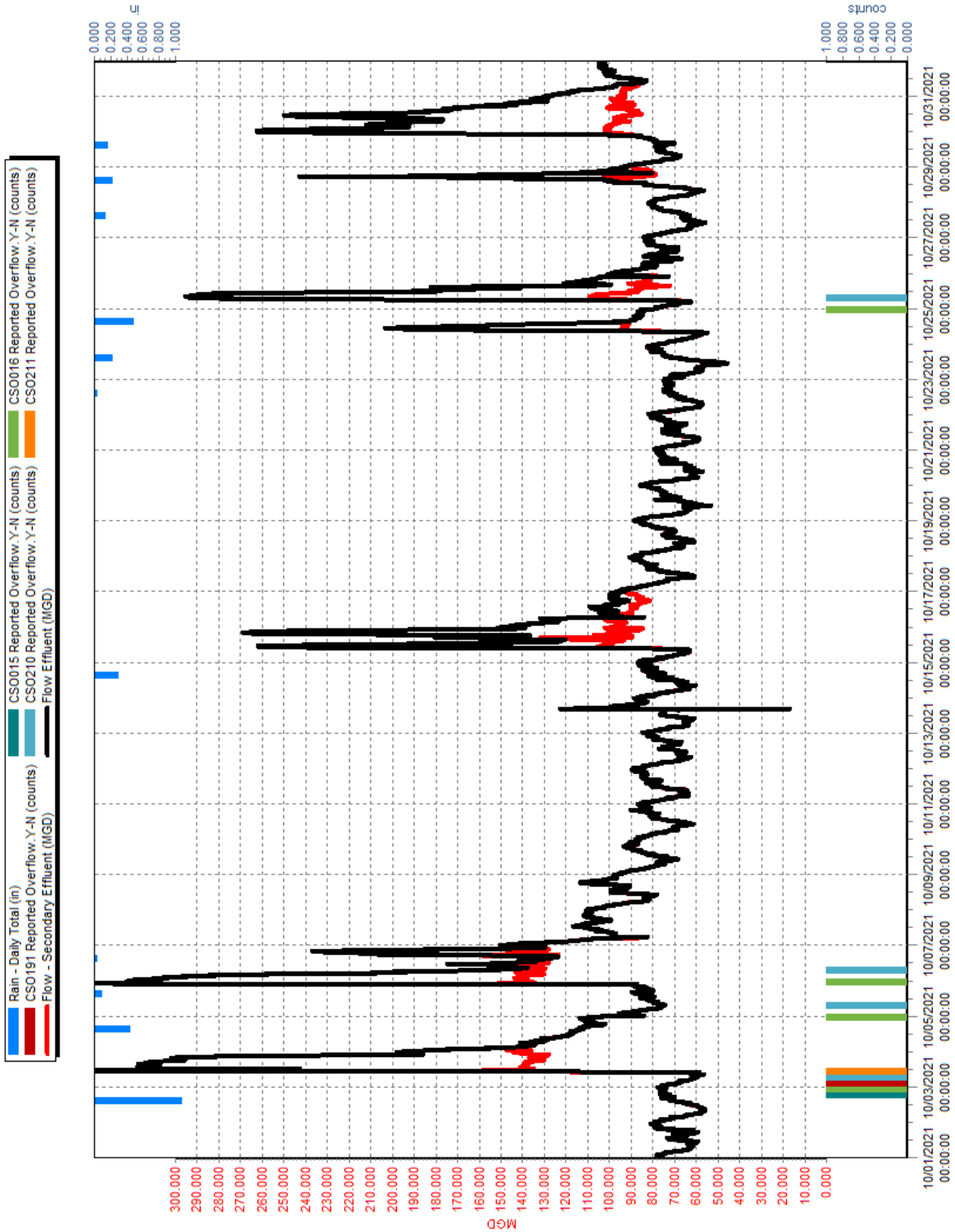
SECOND AMENDED CONSENT DECREE
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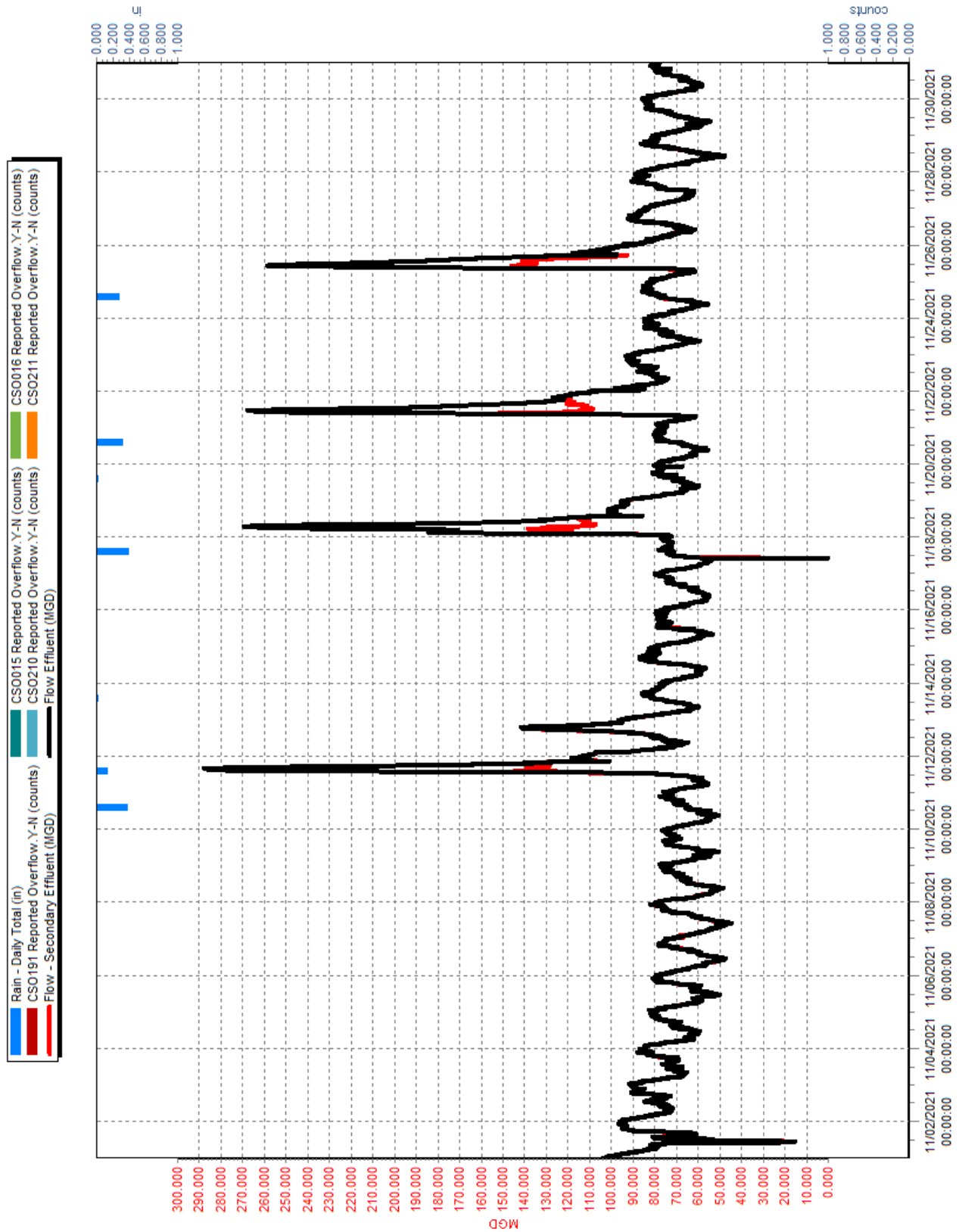


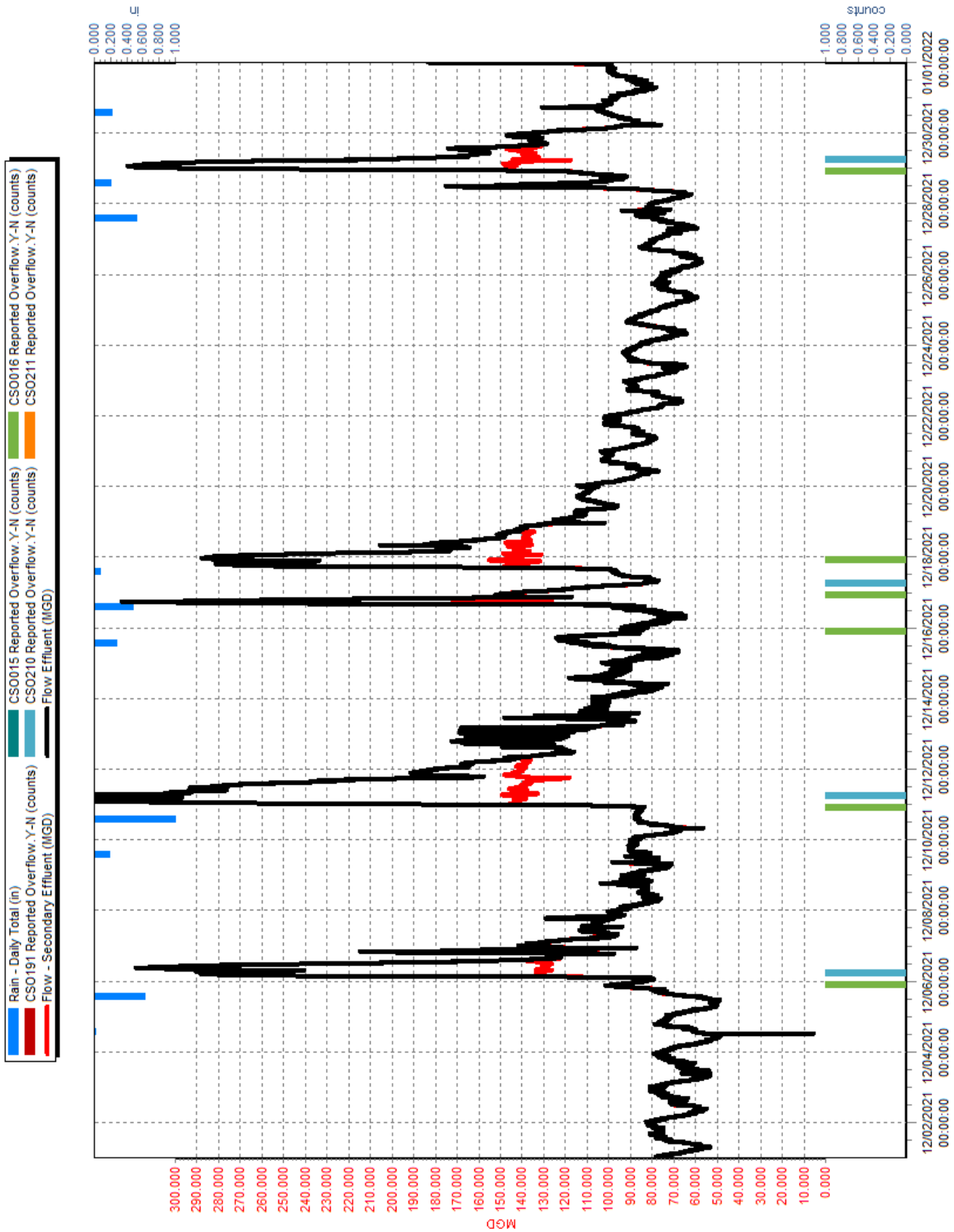
SECOND AMENDED CONSENT DECREE
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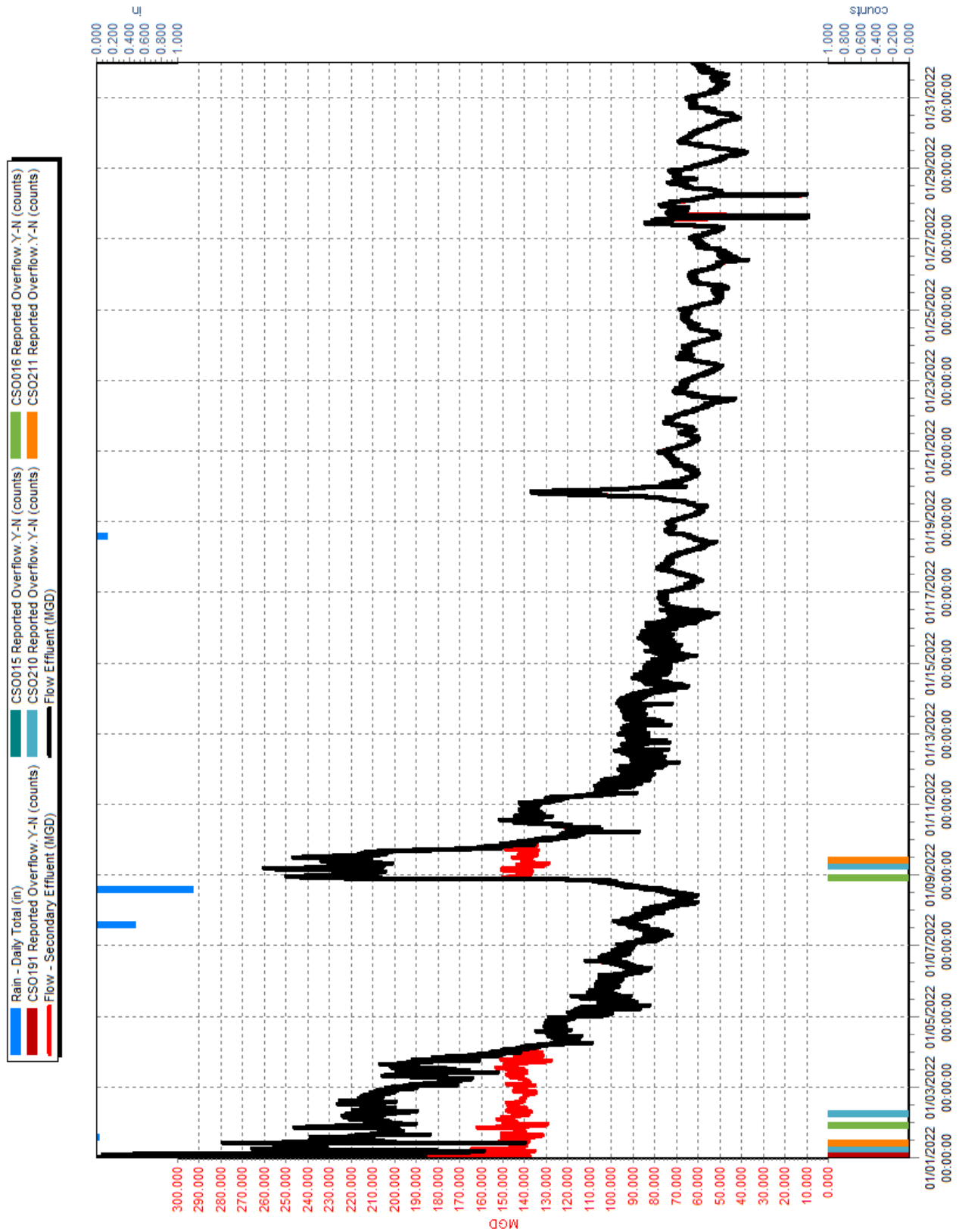


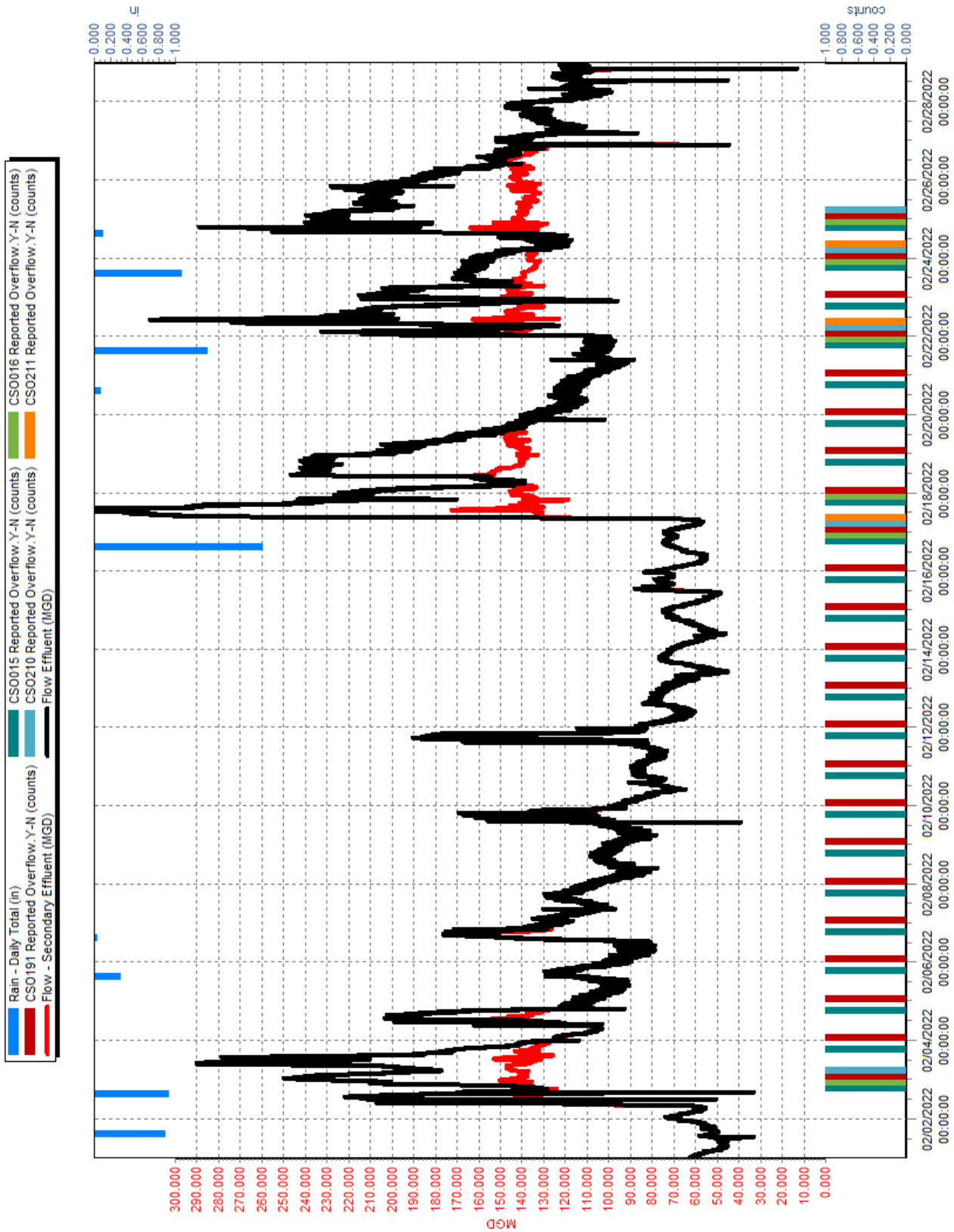
SECOND AMENDED CONSENT DECREE
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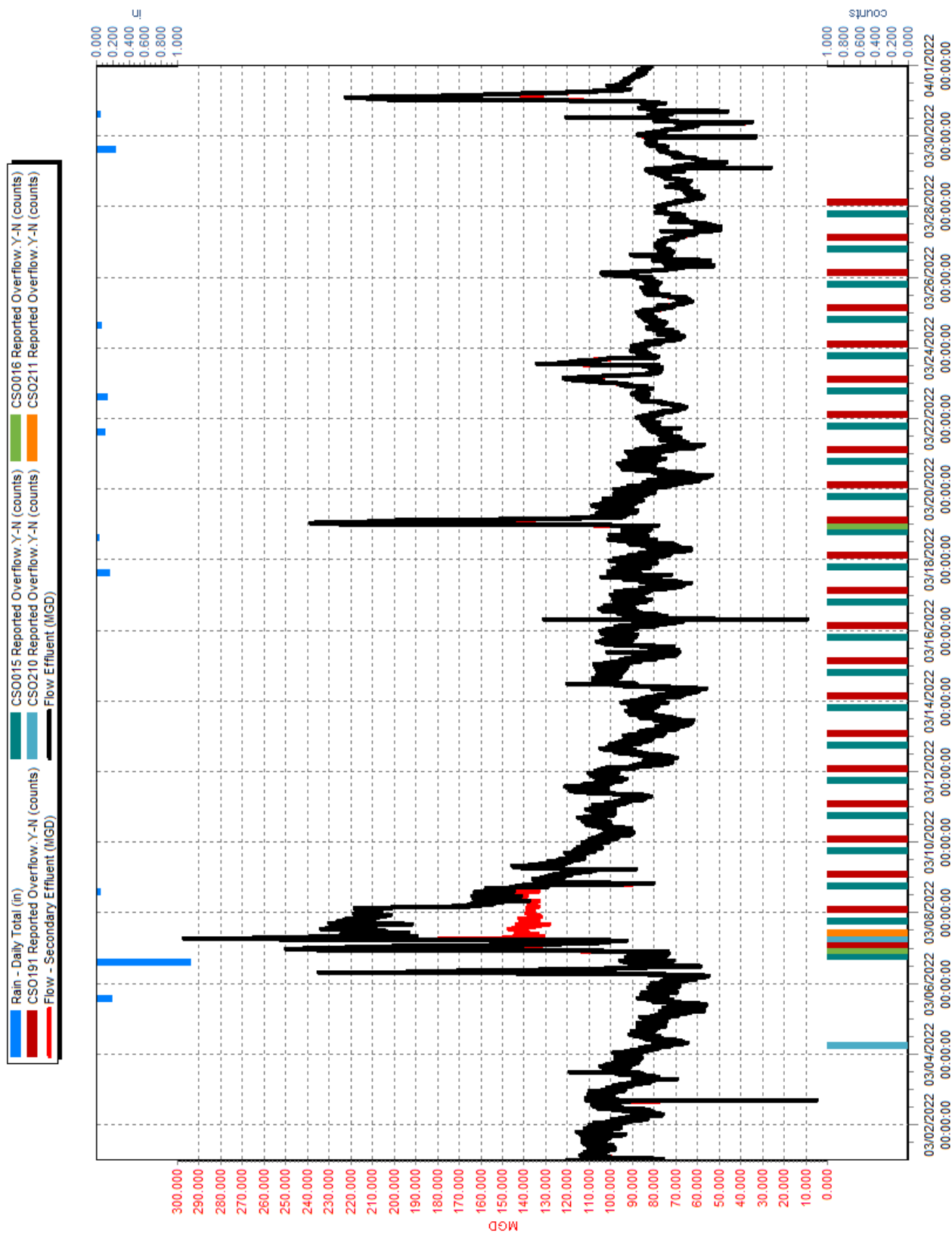


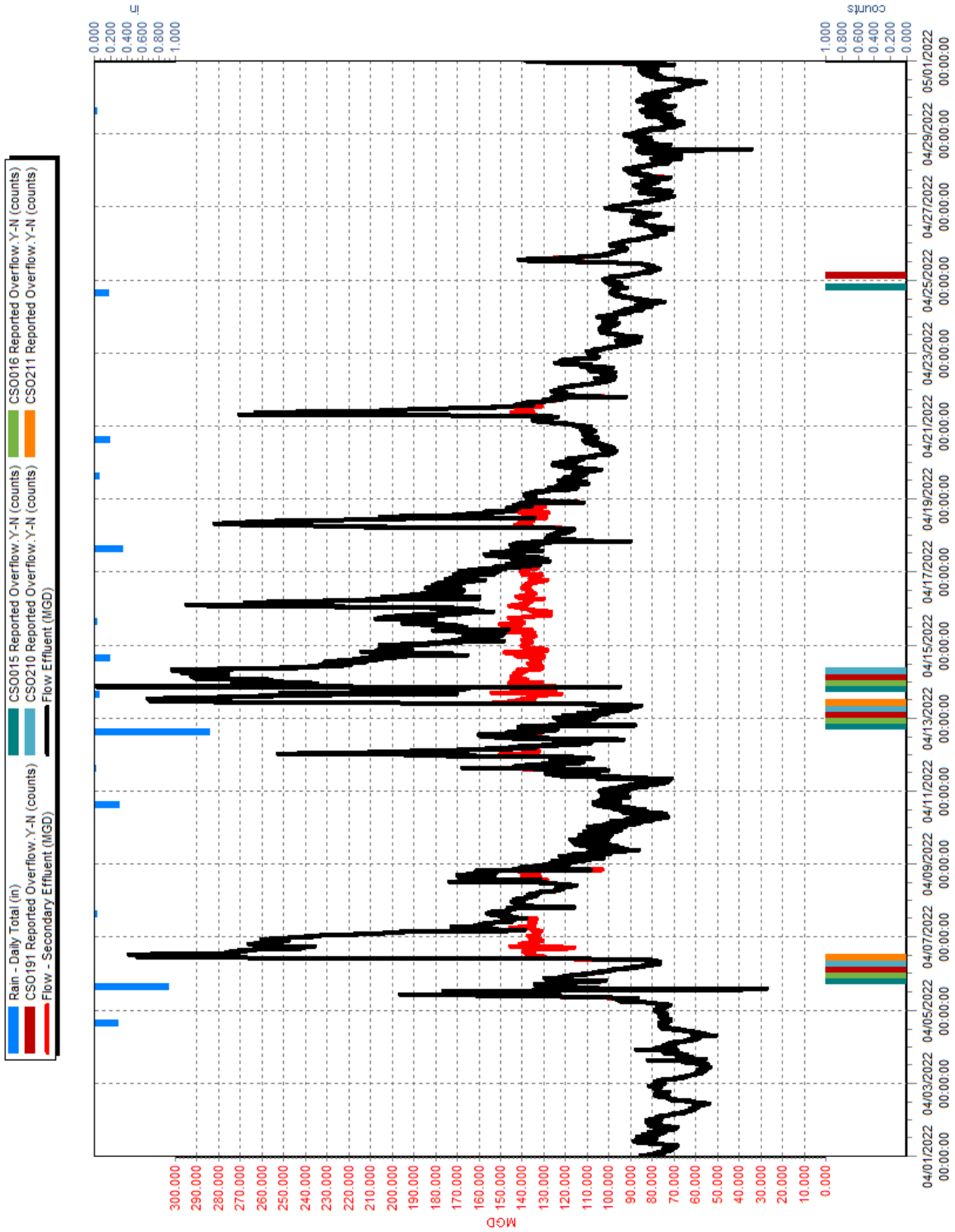


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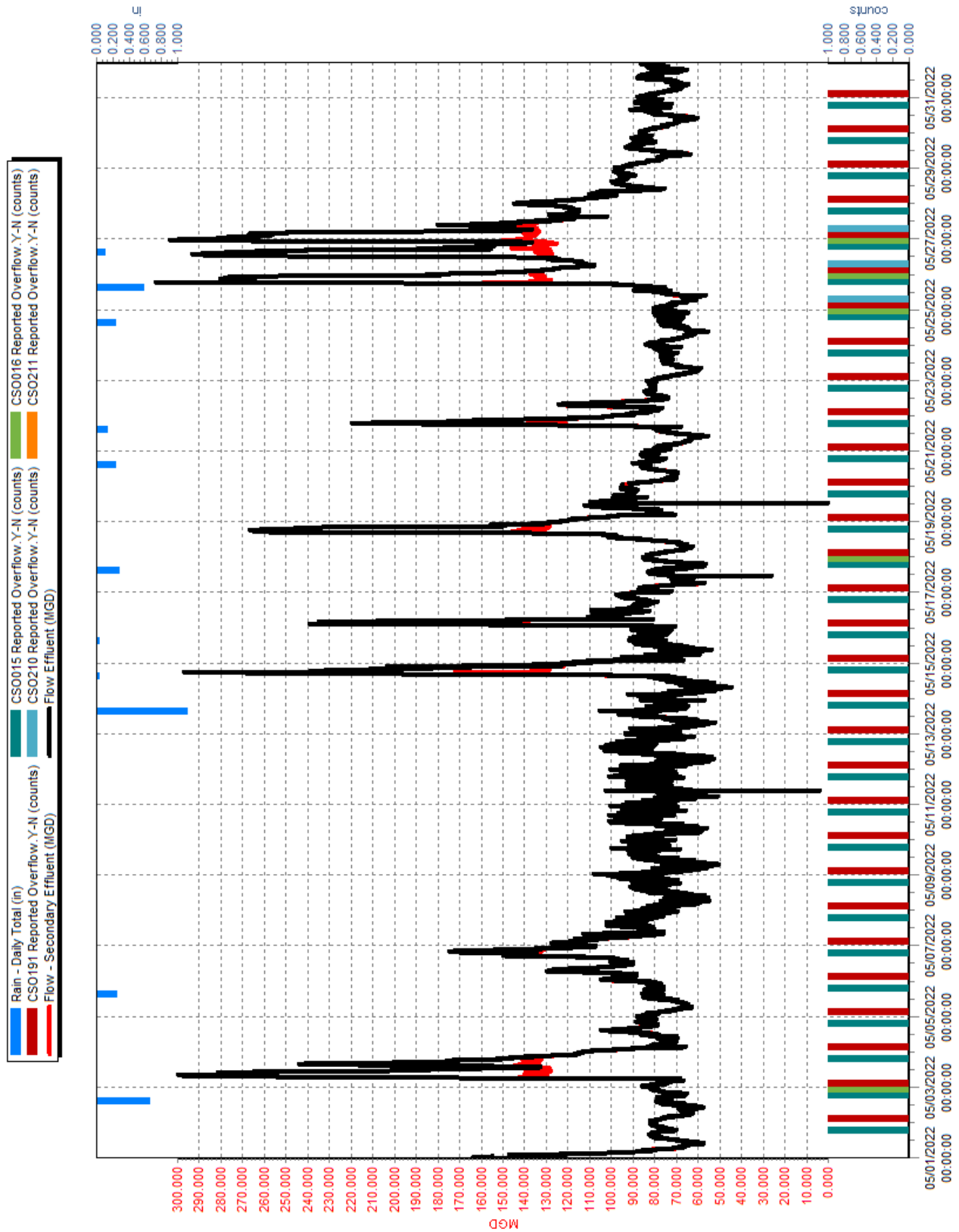


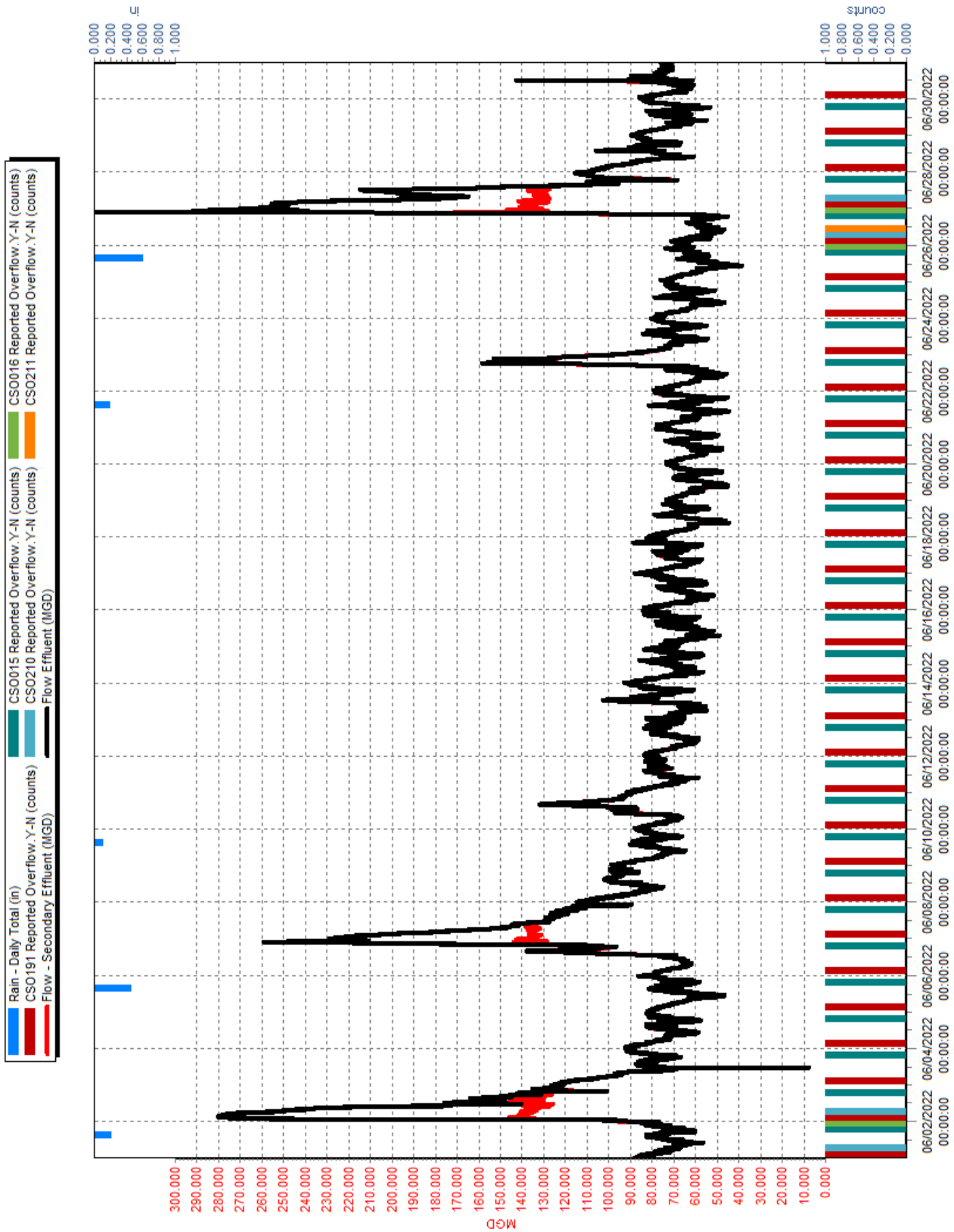






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APPENDIX K

ORGANIZATIONAL CHART

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Louisville and Jefferson County
Metropolitan Sewer District

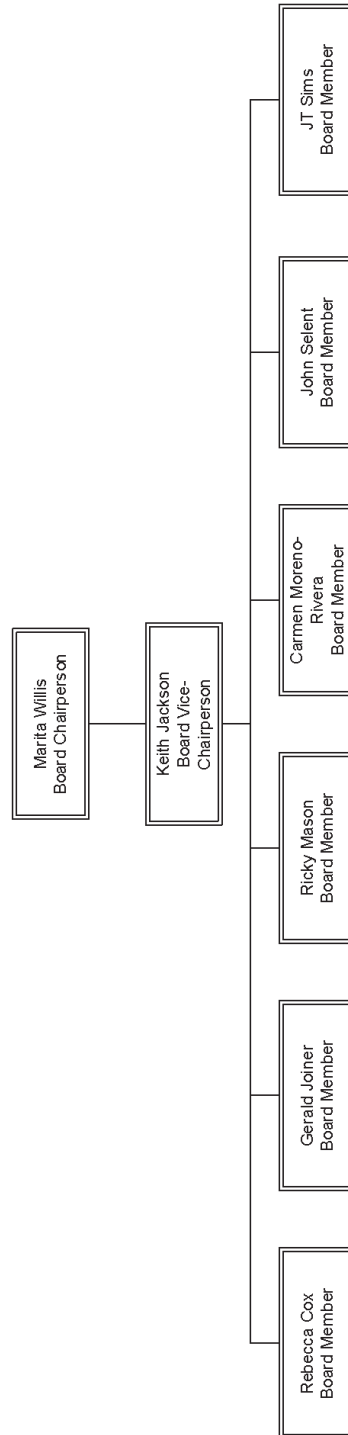
Organizational Chart
Effective 7/09/2022



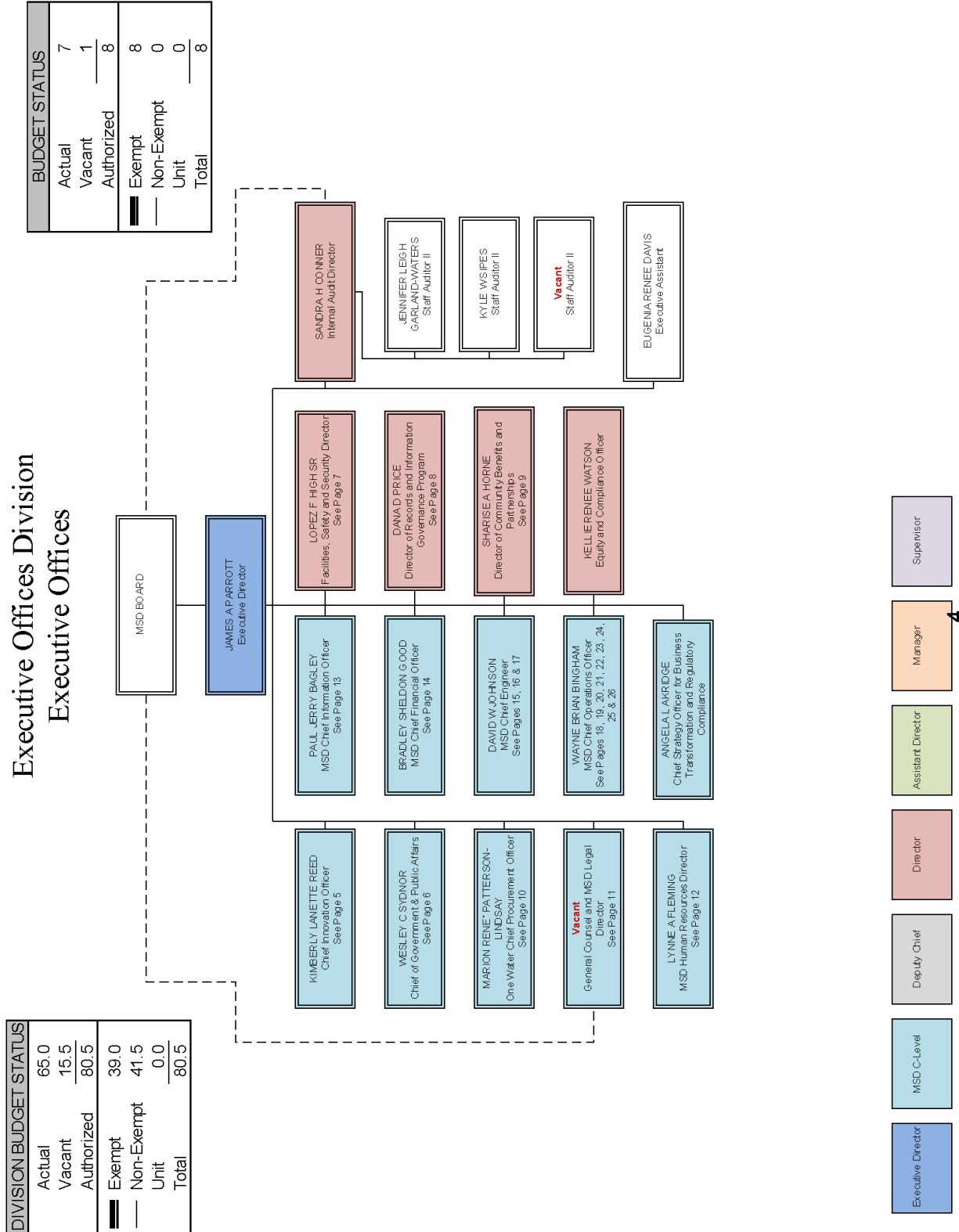
Organizational Summary

	<u>Total Positions</u>	<u>Current Actual</u>	<u>Vacant (Budgeted)</u>	<u>New/Unbudgeted (Vacant)</u>	<u>Exempt</u>	<u>Non- Exempt</u>	<u>Union</u>	<u>Net Overbudget</u>
Executive Offices Division								
Executive Offices	8	7	1	0	8	0	0	0
Innovation, Customer Relations and Dispatch	25	19	6	0	6	19	0	0
Government & Public Affairs	6	5	1	0	4	2	0	0
Facilities, Safety & Security	25.5	21	4.5	0	13	12.5	0	0
Records and Information Governance	9	8	1	0	3	6	0	0
Community Benefits and Partnerships	7	5	2	0	5	2	0	0
Supply Chain and Economic Inclusion Division	24	21	3	0	12	12	0	0
Legal Division	10	7	3	0	8	2	0	0
Human Resources Division	19	16	3	0	13	6	0	0
Information Technology Division	32	29	3	0	28	4	0	0
Finance Division	19	17	2	0	7	12	0	0
Engineering Division	17	17	0	0	13	4	0	0
Eng Admin, Reg Compliance, Records & GIS	48	43.5	4.5	0	26	22	0	0
Engineering Technical Services	30.5	28.5	2	0	19	11.5	0	0
Development & Stormwater Services								
Operations Division	3	2	1	0	2	1	0	0
Administration	65	48	17	0	15	16	34	0
Collections System and Emergency Response	21	19	2	0	4	1	16	0
Flood Protection	92	86	6	0	20	16	56	0
Treatment Facilities	46	41	5	0	6	2	38	0
Treatment Facilities (Maintenance)	38	28	10	0	13	25	0	0
Support Services	130	113	17	0	15	13	102	0
Wastewater and Drainage	81	73	8	0	11	1	69	0
Wastewater and Drainage (Sanitary)	19	18	1	0	4	1	14	0
Fleet Services								
DISTRICT TOTAL	775.0	672.0	103.0	0.0	255.0	191.0	329.0	0.0

Board Members



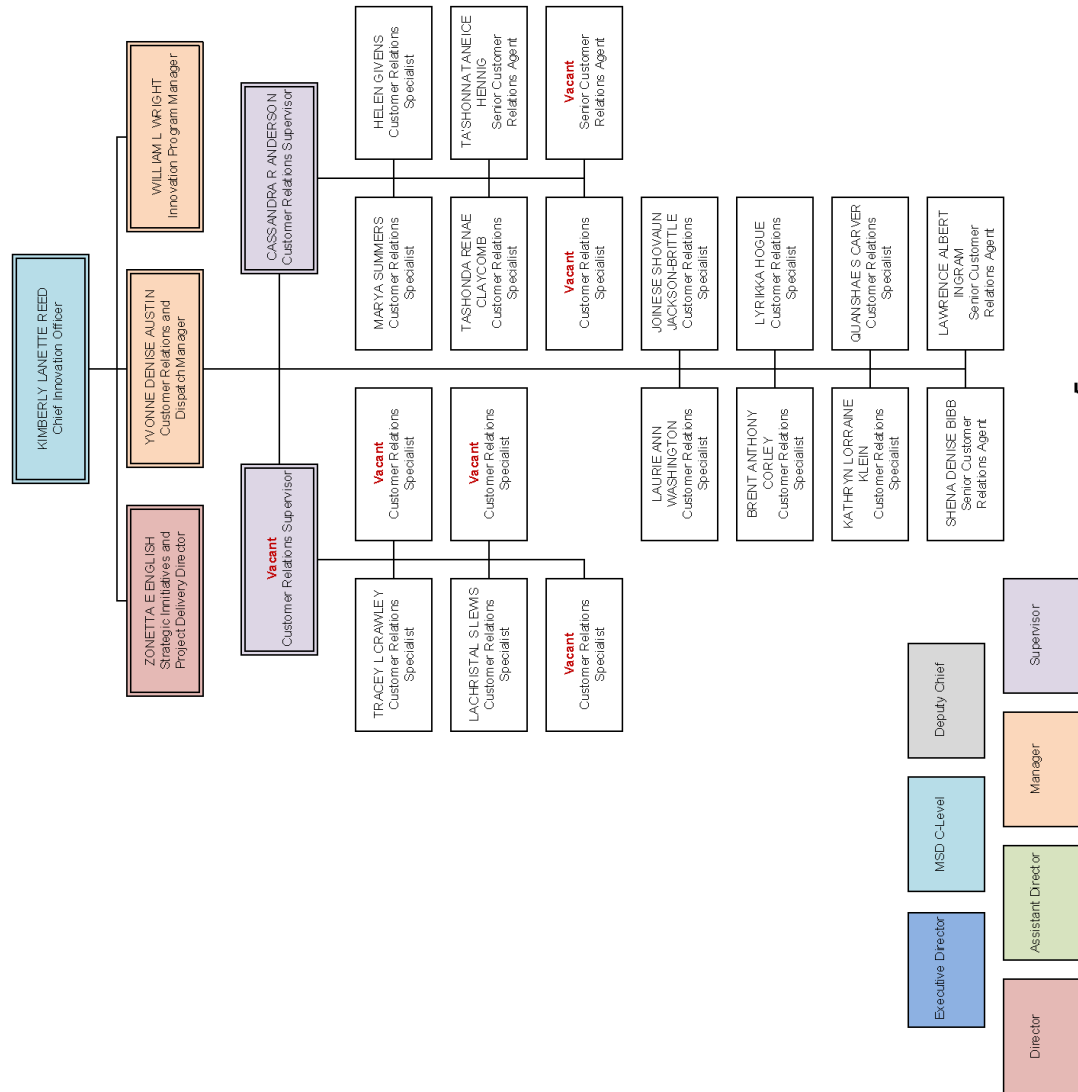
Executive Offices Division
Executive Offices





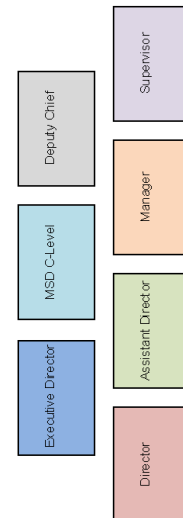
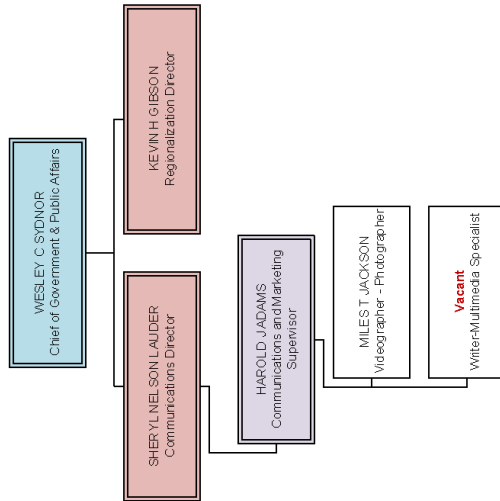
Executive Offices Division Innovation, Customer Relations & Dispatch

BUDGET STATUS	
Actual	19
Vacant	6
Authorized	25
Exempt	6
Non-Exempt	19
Unit	0
Total	25



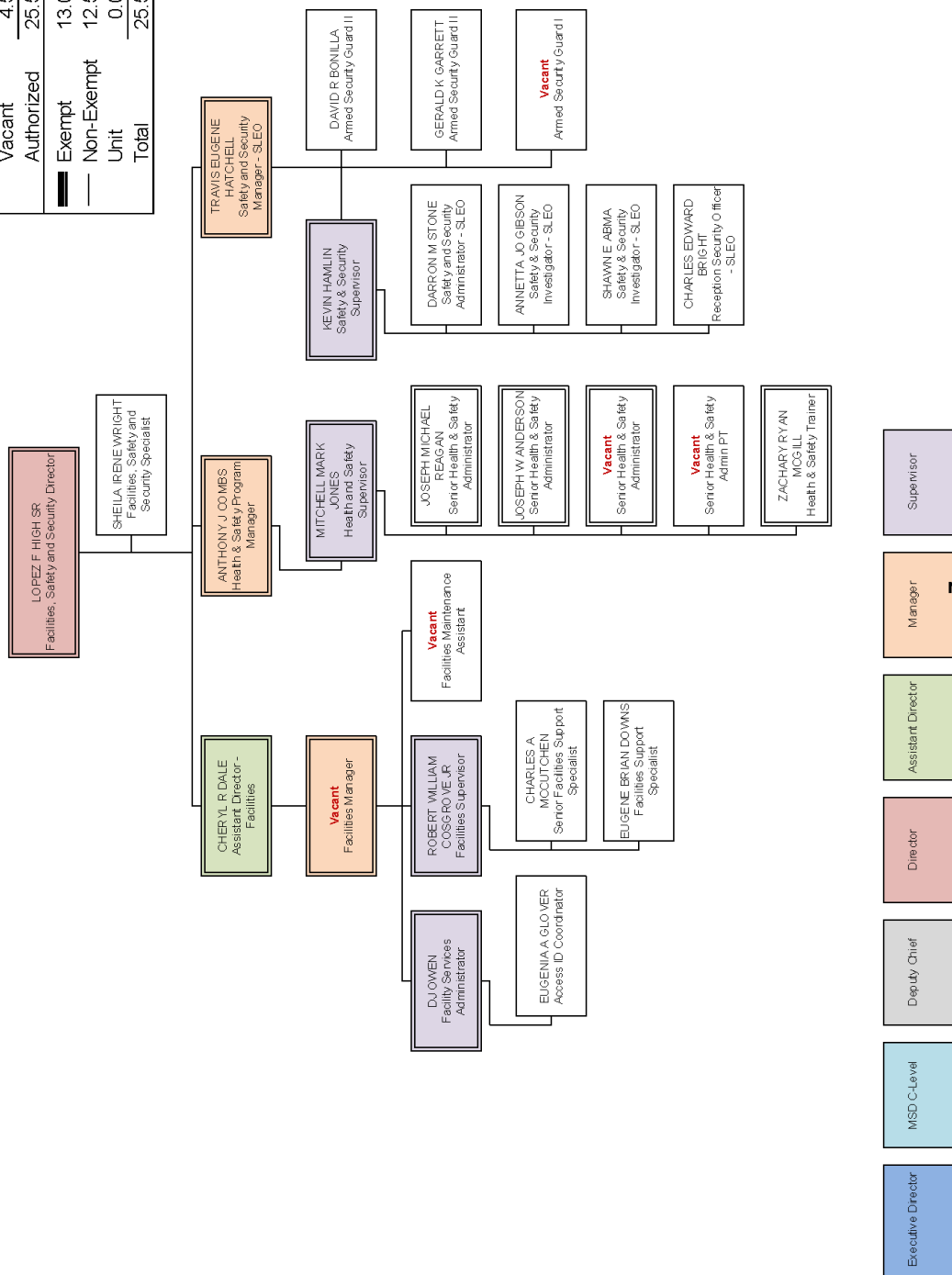
**Executive Offices Division
Government & Public Affairs**

BUDGET STATUS	
Actual	5
Vacant	1
Authorized	6
Exempt	4
Non-Exempt	2
Unit	0
Total	6



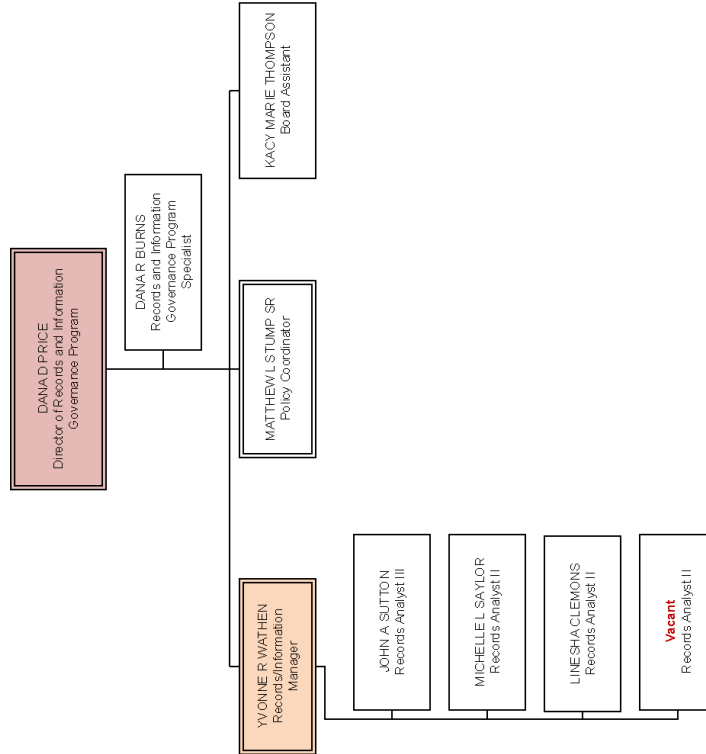
Executive Offices Division Facilities, Safety & Security

BUDGET STATUS	
Actual	21.0
Vacant	4.5
Authorized	25.5
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Exempt	13.0
Non-Exempt	12.5
Unit	0.0
Total	25.5



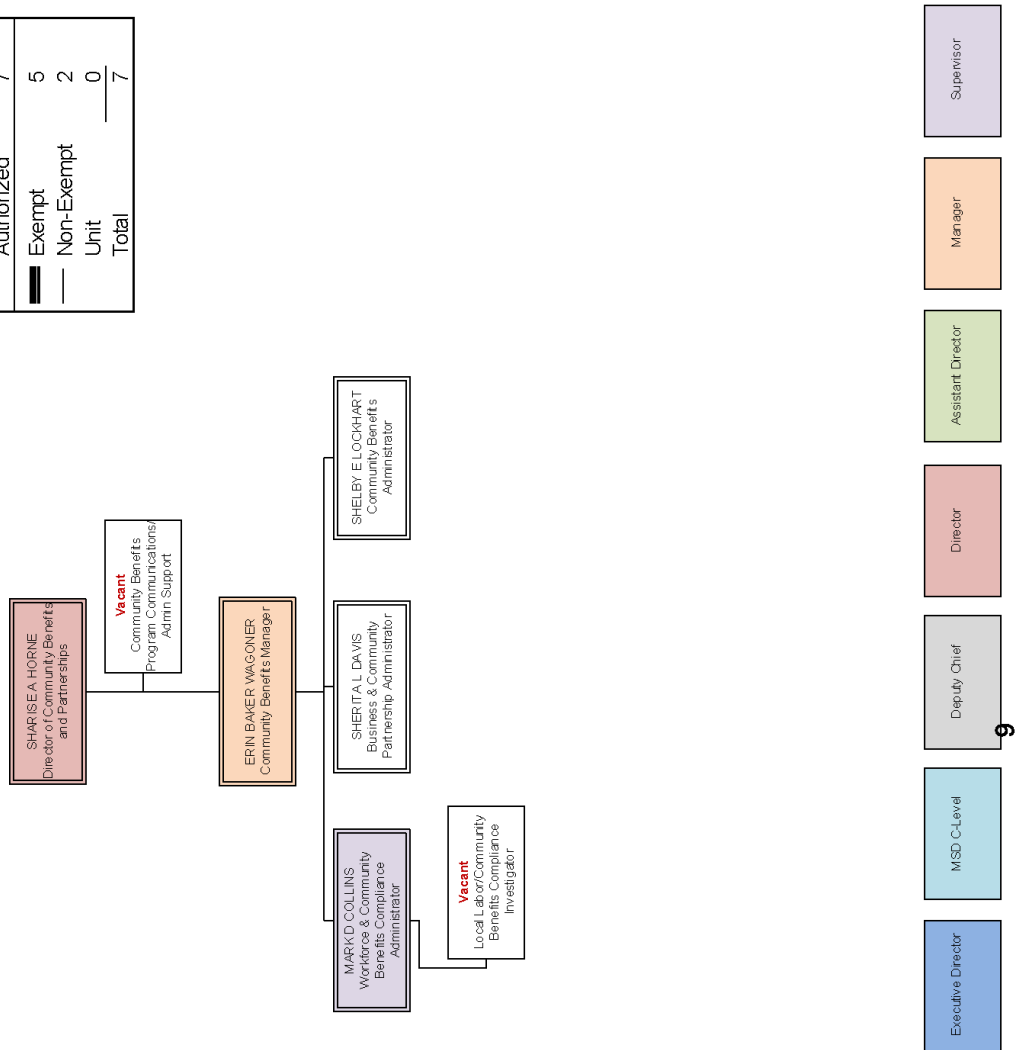
**Executive Offices Division
Records and Information Governance**

BUDGET STATUS	
Actual	8
Vacant	1
Authorized	9
Exempt	3
Non-Exempt	6
Unit	0
Total	9



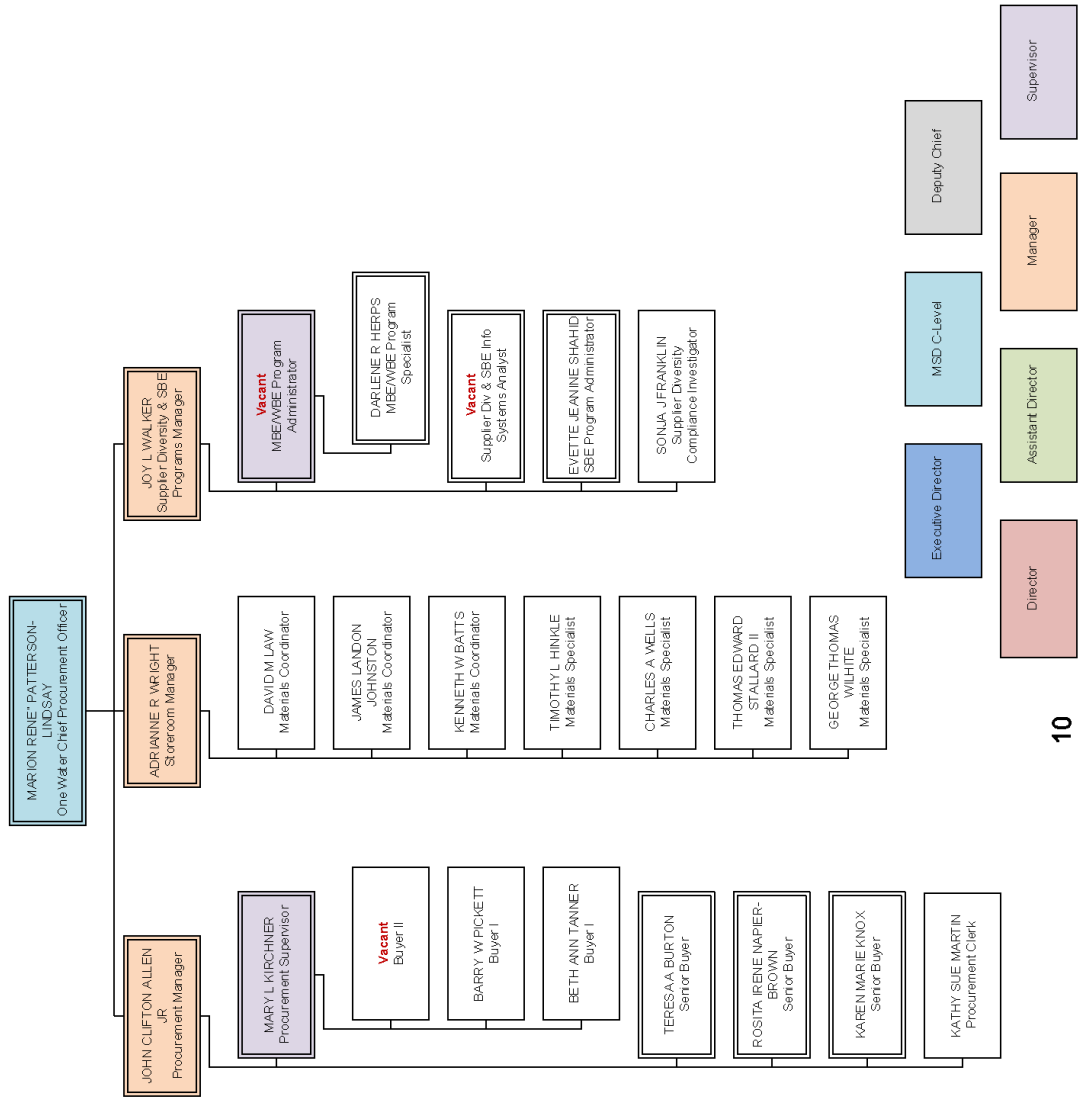
Executive Offices Division
 Community Benefits and Partnerships

BUDGET STATUS	
Actual	5
Vacant	2
Authorized	7
Exempt	5
Non-Exempt	2
Unit	0
Total	7



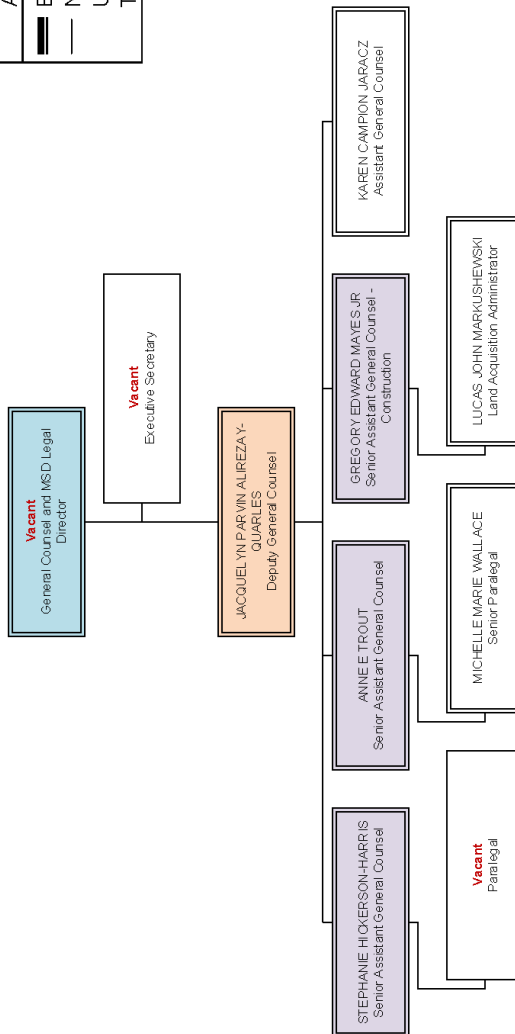
**Supply Chain and Economic Inclusion Division
Procurement, Storeroom & Supplier Diversity**

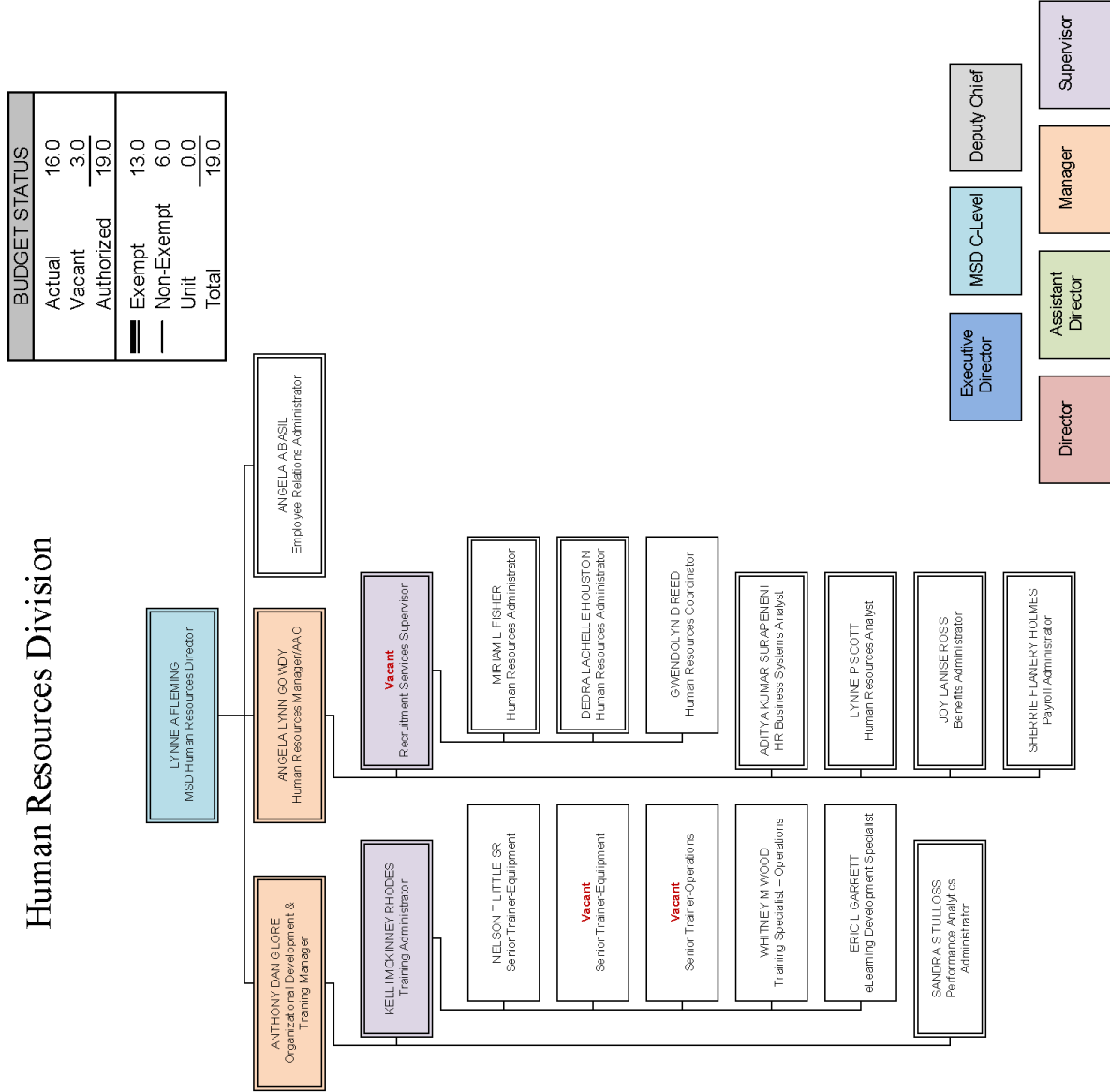
DIVISION BUDGET STATUS	
Actual	21.0
Vacant	3.0
Authorized	24.0
Exempt	12.0
Non-Exempt	12.0
Unit	0.0
Total	24.0



Legal Division

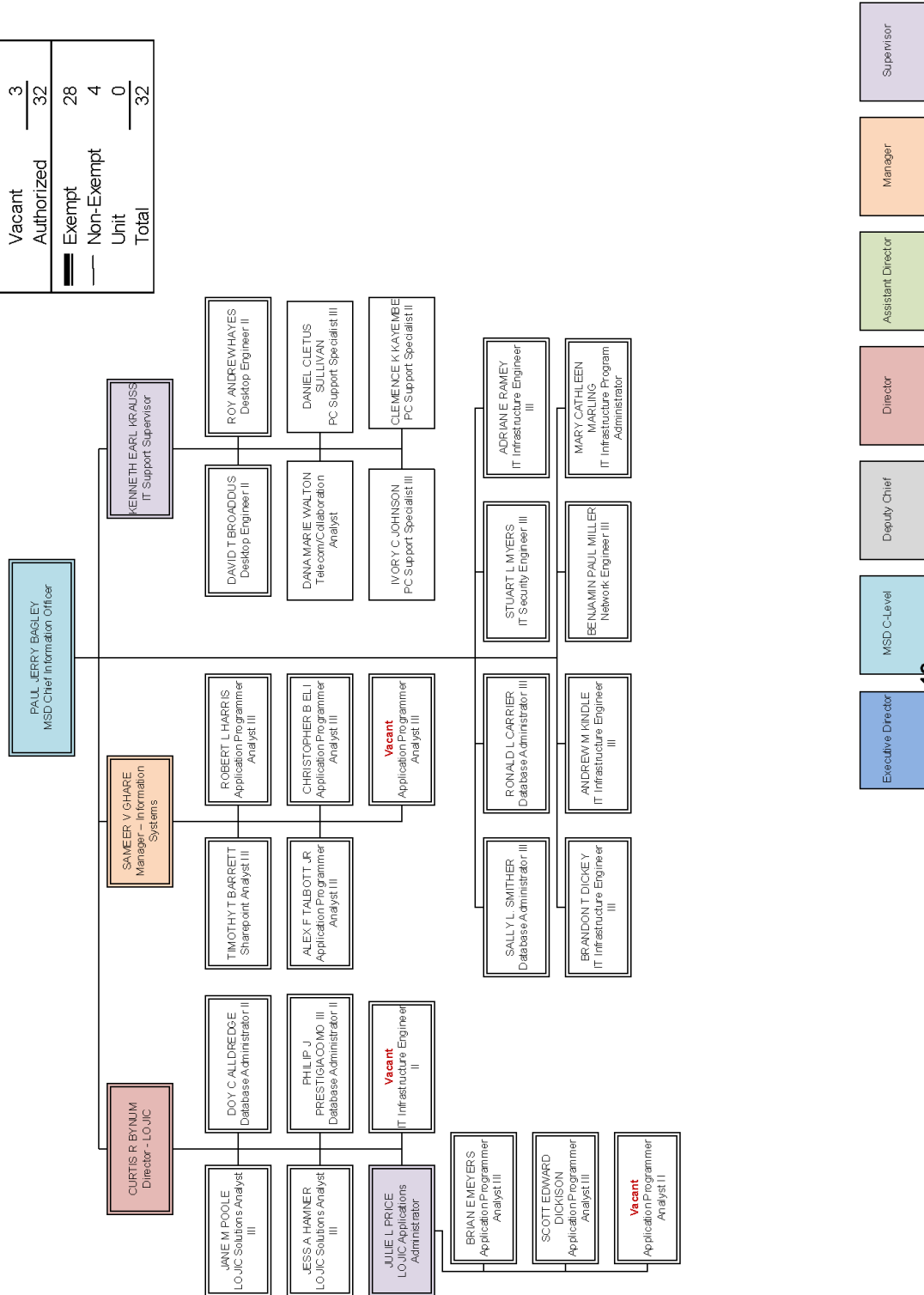
BUDGET STATUS	
Actual	7
Vacant	3
Authorized	10
Exempt	8
Non-Exempt	2
Unit	0
Total	10





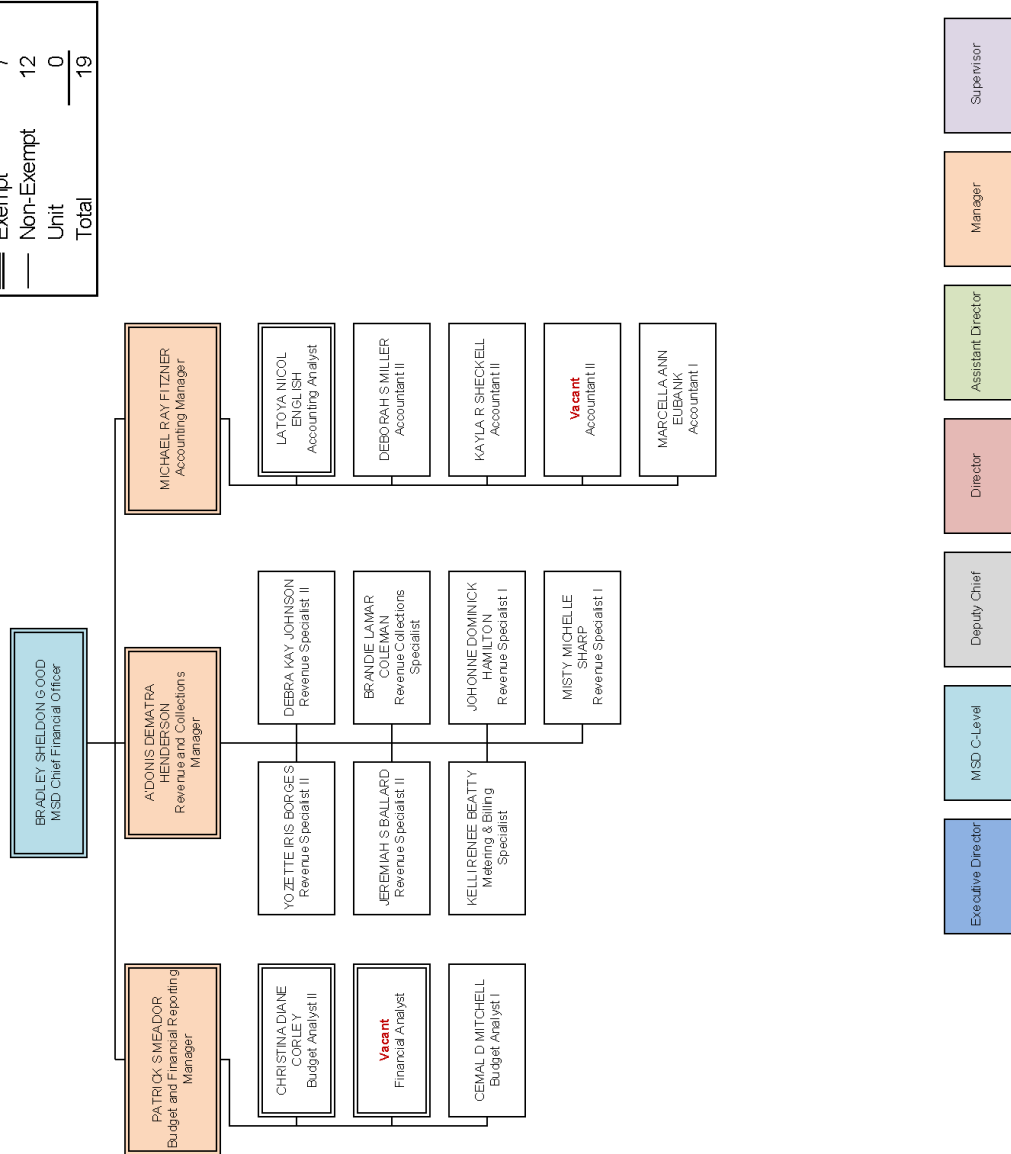
Information Technology Division

BUDGET STATUS	
Actual	29
Vacant	3
Authorized	32
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Exempt	28
Non-Exempt	4
Unit	0
Total	32



Finance Division

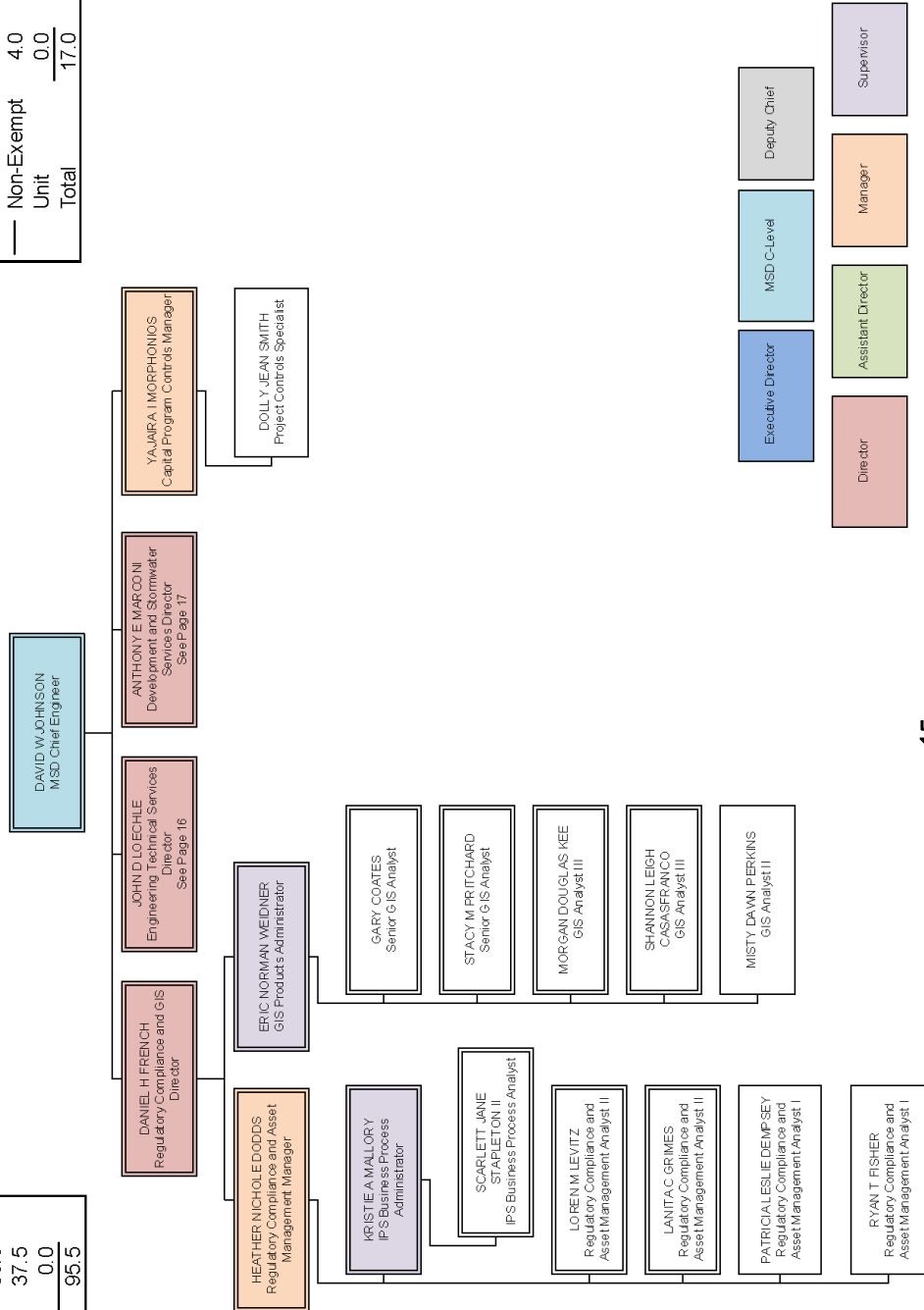
BUDGET STATUS	
Actual	17
Vacant	2
Authorized	19
Exempt	7
Non-Exempt	12
Unit	0
Total	19



Engineering Division
Engineering Admin, Regulatory Compliance, Records & GIS

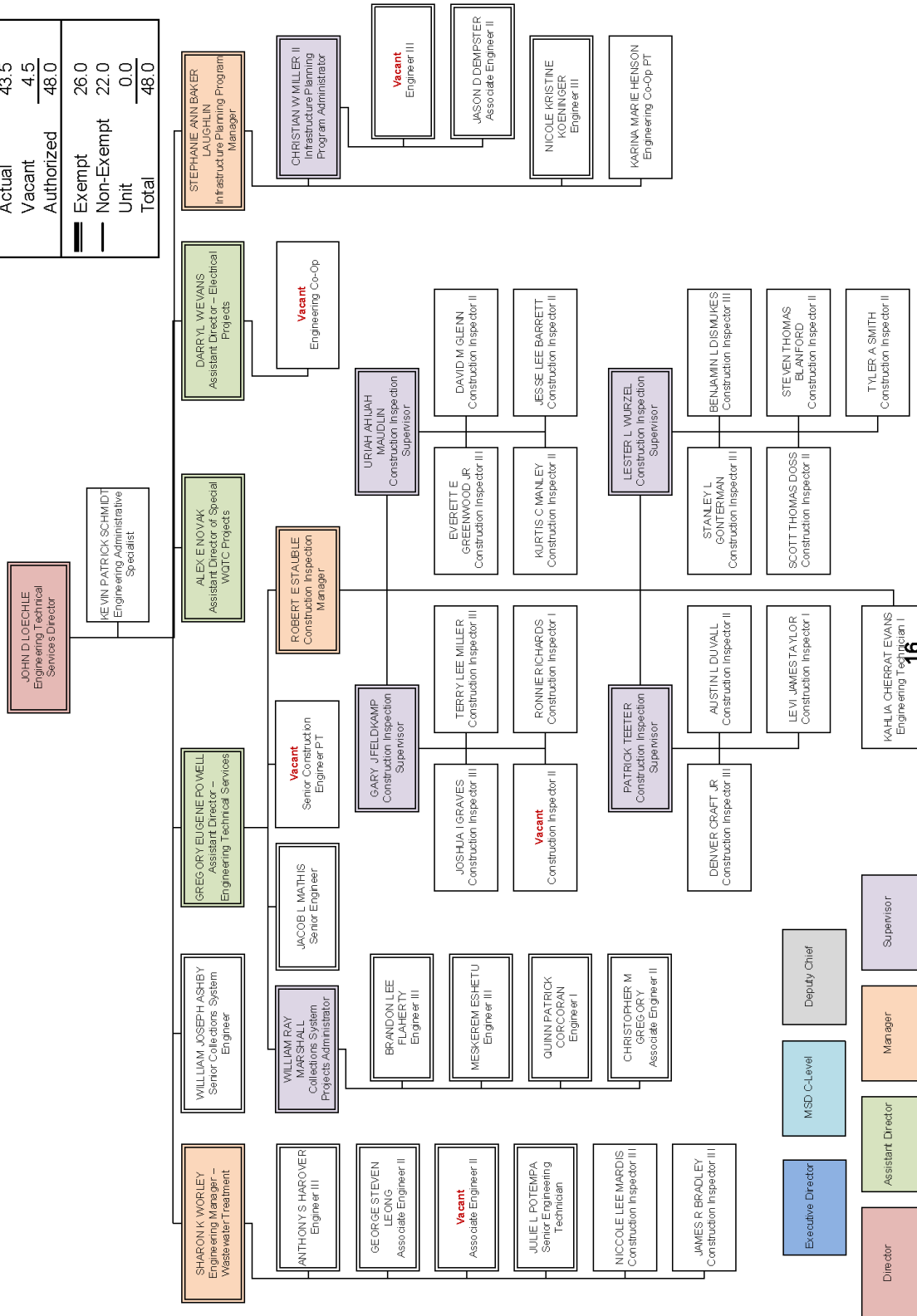
DIVISION BUDGET STATUS	
Actual	89.0
Vacant	6.5
Authorized	95.5
Exempt	58.0
Non-Exempt	37.5
Unit	0.0
Total	95.5

BUDGET STATUS	
Actual	17.0
Vacant	0.0
Authorized	17.0
Exempt	13.0
Non-Exempt	4.0
Unit	0.0
Total	17.0



**Engineering Division
Engineering Technical Services**

BUDGET STATUS	
Actual	43.5
Vacant	4.5
Authorized	48.0
Exempt	26.0
Non-Exempt	22.0
Unit	0.0
Total	48.0



Engineering Division
 Development & Stormwater Svcs

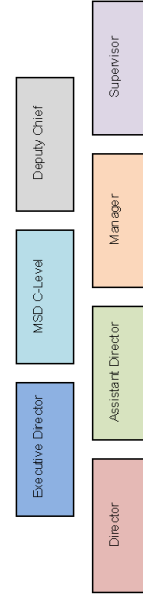
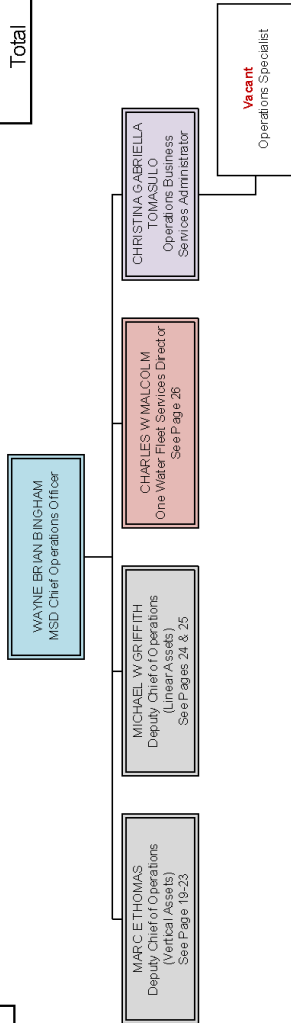
BUDGET STATUS	
Actual	28.5
Vacant	2.0
Authorized	30.5
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Exempt	19.0
Non-Exempt	11.5
Unit	0.0
Total	30.5



**Operations Division
Administration**

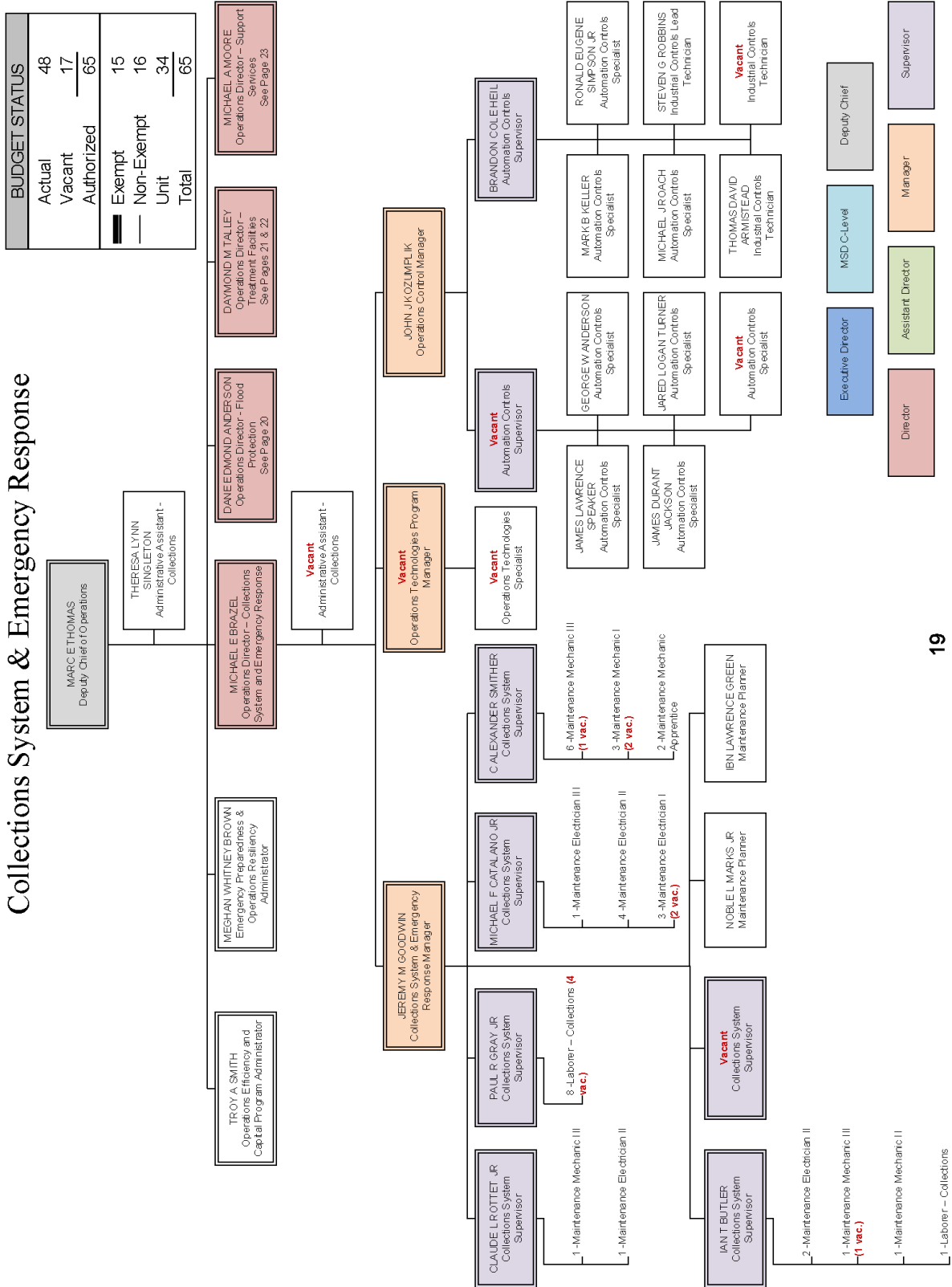
DIVISION BUDGET STATUS	
Actual	428
Vacant	67
Authorized	495
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Exempt	90
Non-Exempt	76
Unit	329
Total	495

BUDGET STATUS	
Actual	2
Vacant	1
Authorized	3
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Exempt	2
Non-Exempt	1
Unit	0
Total	3



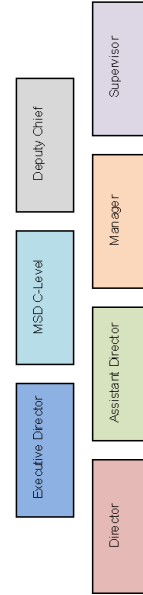
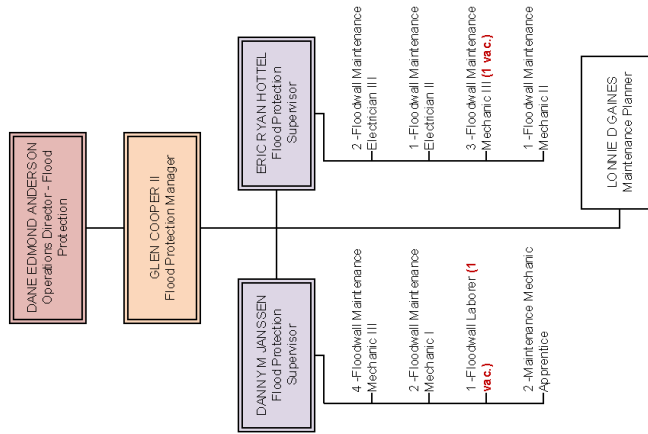


Operations Division (Vertical Assets)
Collections System & Emergency Response



Operations Division (Vertical Assets)
Flood Protection

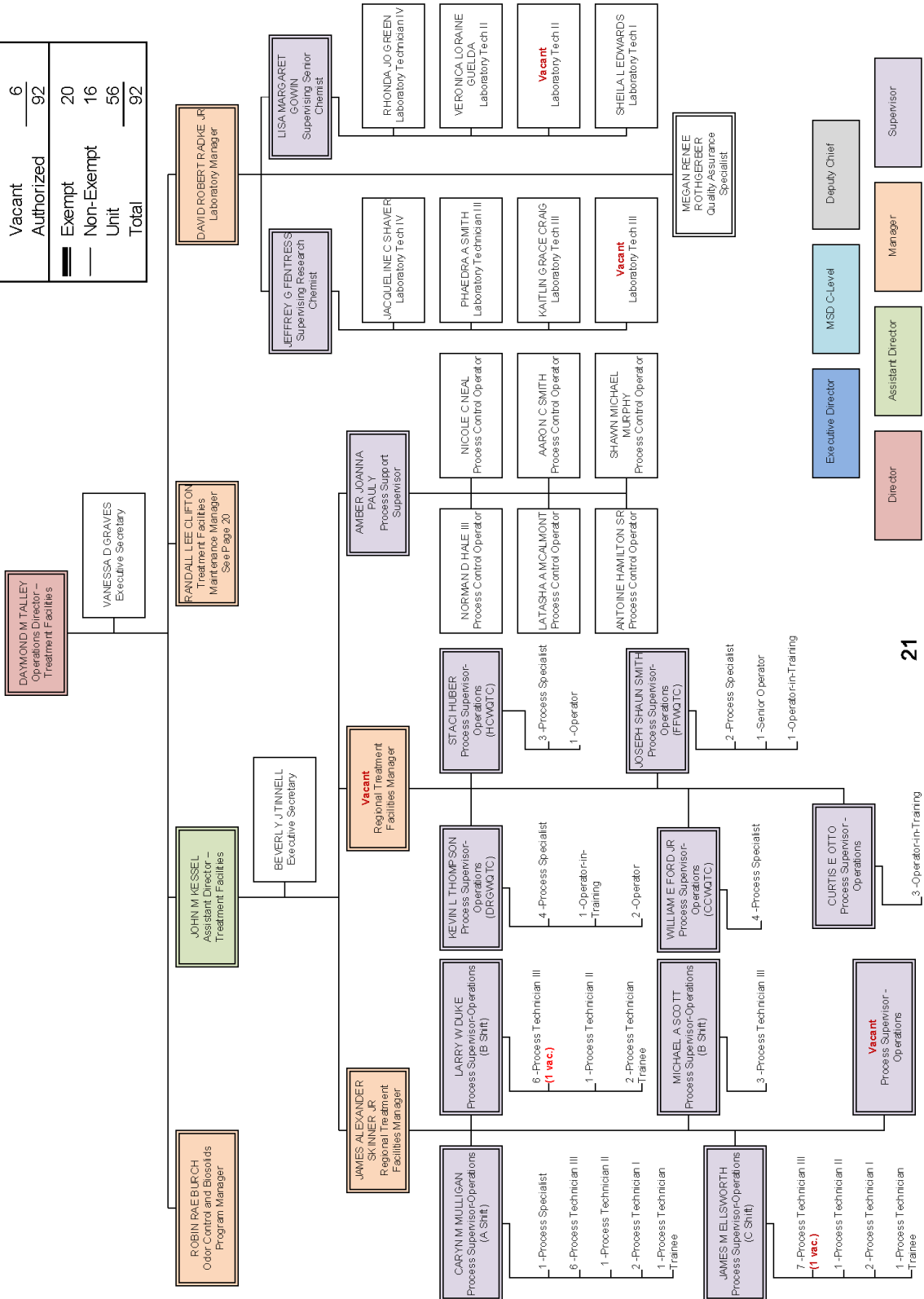
BUDGET STATUS	
Actual	19
Vacant	2
Authorized	21
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Exempt	4
Non-Exempt	1
Unit	16
Total	21





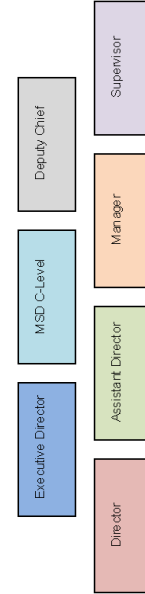
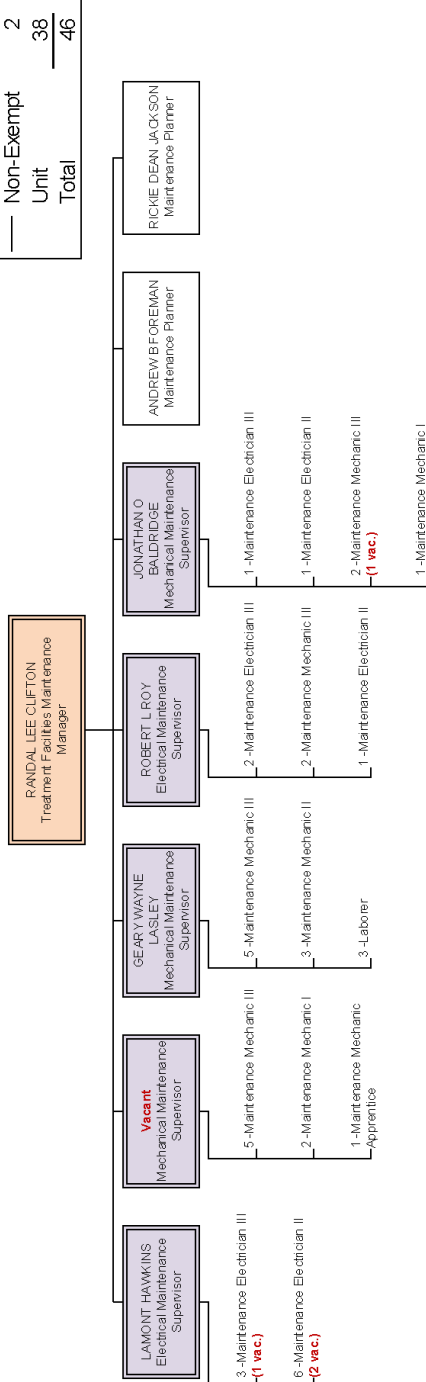
Operations Division (Vertical Assets) Treatment Facilities

BUDGET STATUS	
Actual	86
Vacant	6
Authorized	92
Exempt	20
Non-Exempt	16
Unit	56
Total	92



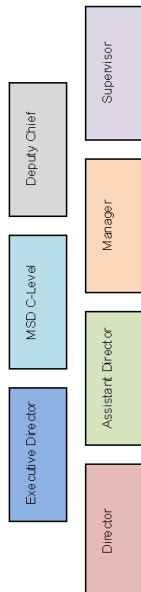
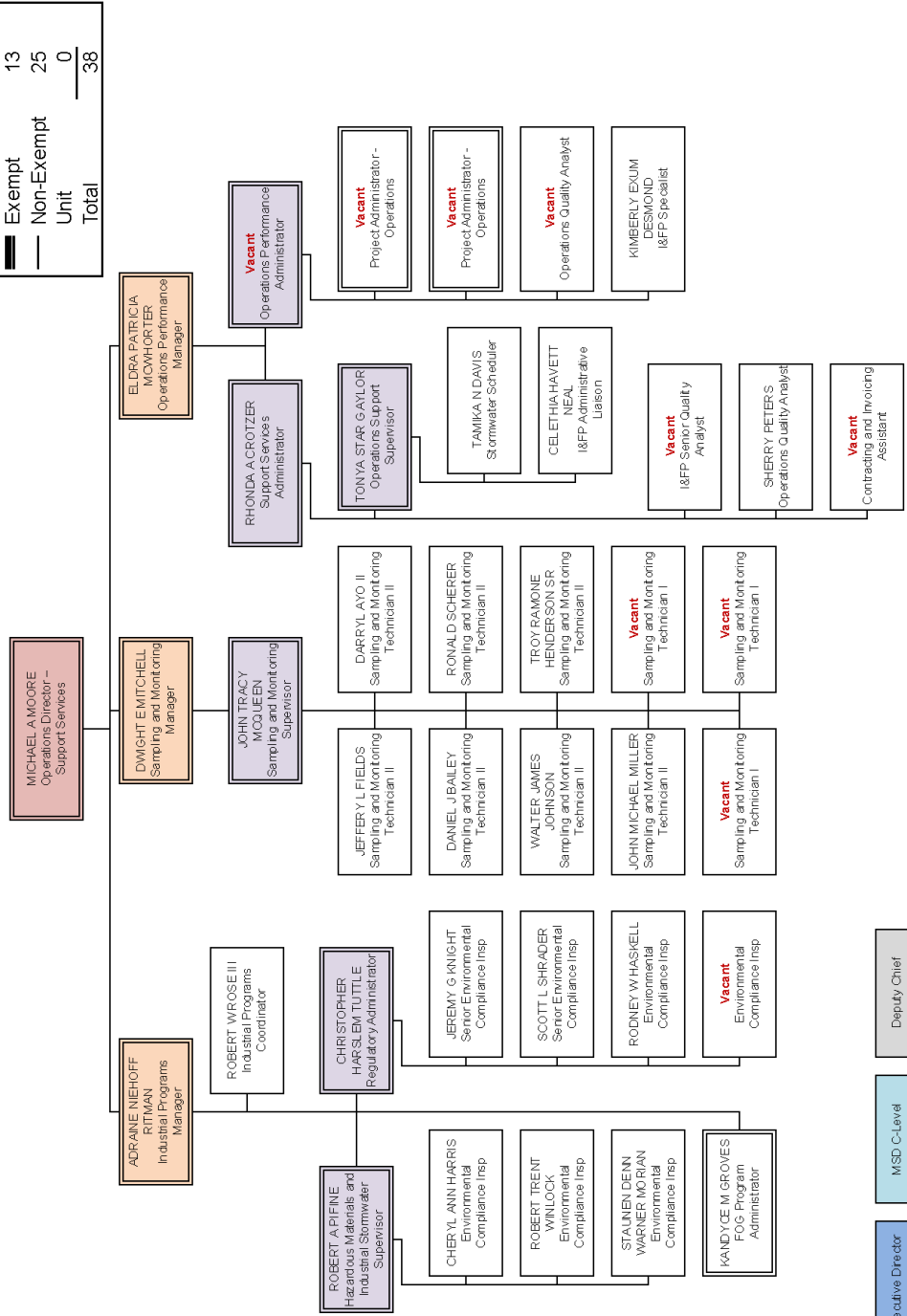
Operations Division (Vertical Assets)
Treatment Facilities (Maintenance)

BUDGET STATUS	
Actual	41
Vacant	5
Authorized	46
Exempt 6	
Non-Exempt 2	
Unit	38
Total	46



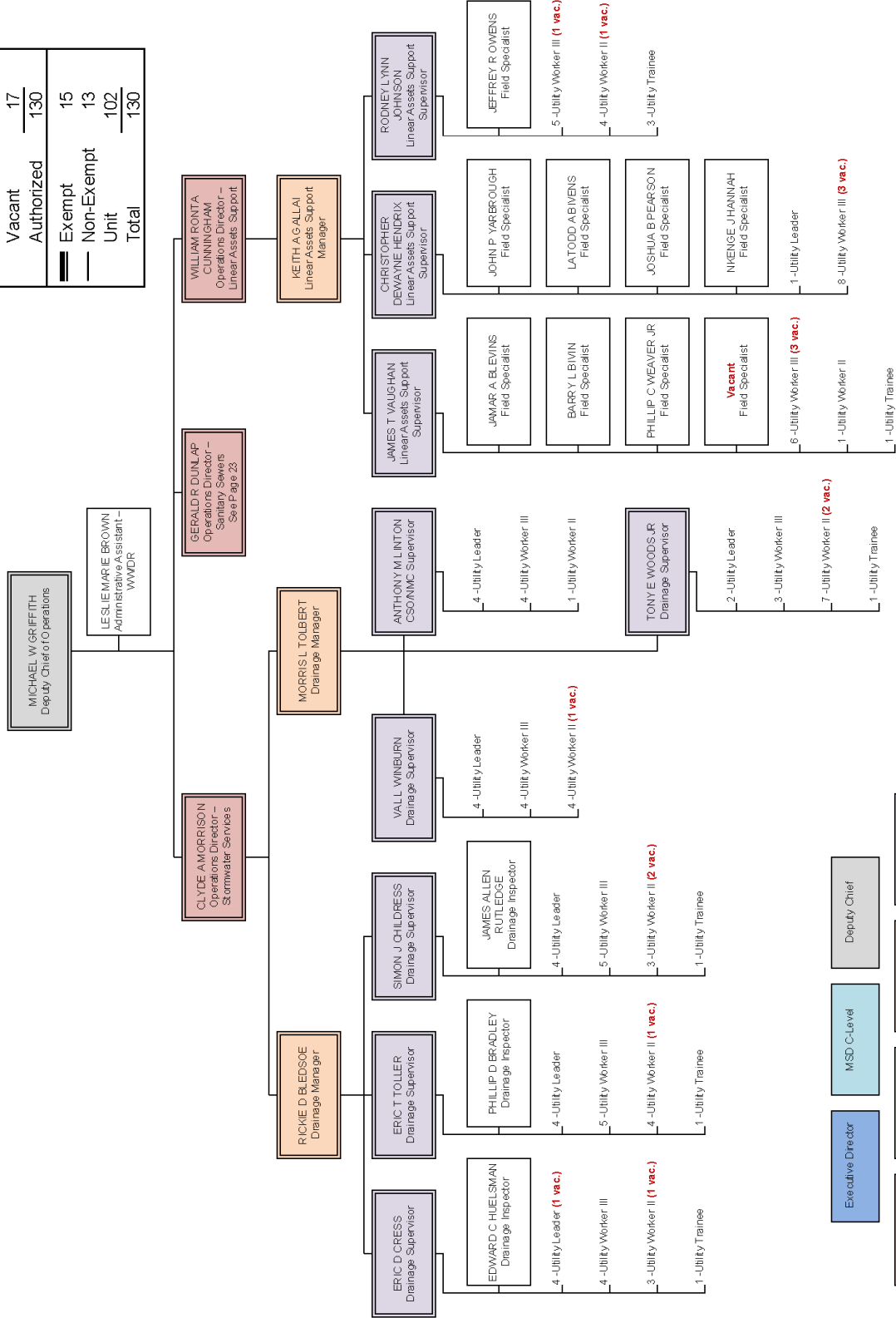
Operations Division (Vertical Assets)
Support Services

BUDGET STATUS	
Actual	28
Vacant	10
Authorized	38
Exempt	13
Non-Exempt	25
Unit	0
Total	38

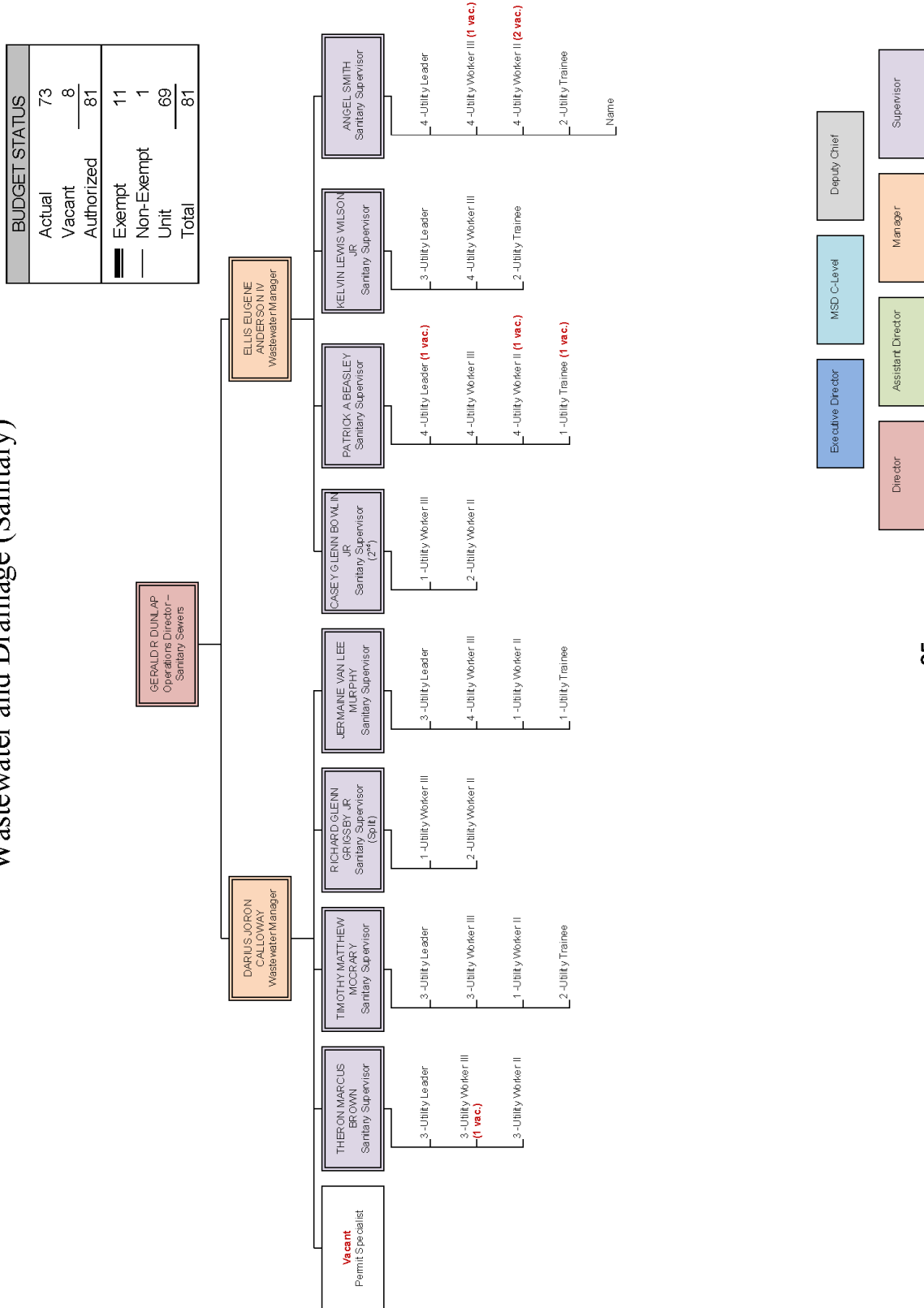


Operations Division (Linear Assets)
Wastewater and Drainage

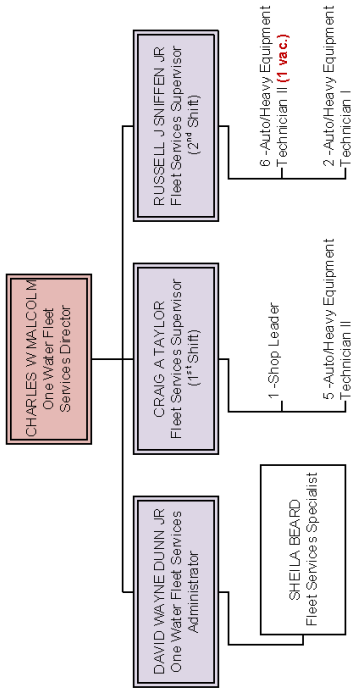
BUDGET STATUS	
Actual	113
Vacant	17
Authorized	130
<hr/>	
Exempt	15
Non-Exempt	13
Unit	102
Total	130



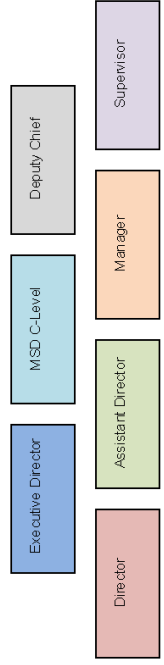
Operations Division (Linear Assets)
 Wastewater and Drainage (Sanitary)



Operations Division Fleet Services



BUDGET STATUS	
Actual	18
Vacant	1
Authorized	19
Exempt	4
Non-Exempt	1
Unit	14
Total	19





APPENDIX L

SCAP BALANCE

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**SECOND AMENDED CONSENT DECREE
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CREDIT BASIN	RELEASE DATE	APPLICATION	APPLICATION NAME	TYPE	FLOW	APPROVED CREDIT REQUIRED OR FLOW REDUCTION
Cedar Creek	11/1/2008	235533	MAINTENANCE WORK FY06 AUG-FY09 NOV - CEDAR CREEK	SCAPCREDIT		6,521
Cedar Creek	12/31/2008	362688	MAINTENANCE WORK FY09A - CEDAR CREEK	SCAPCREDIT		5
Cedar Creek	6/5/2009	236380	FY09 FAIRMOUNT ROAD MH REHAB	SCAPCREDIT		10,734
Cedar Creek	6/30/2009	362689	MAINTENANCE WORK FY09B - CEDAR CREEK	SCAPCREDIT		201
Cedar Creek	12/31/2009	SC1011254	MAINTENANCE WORK FY10A - CEDAR CREEK	SCAPCREDIT		347
Cedar Creek	6/30/2010	SC1011255	MAINTENANCE WORK FY10B - CEDAR CREEK	SCAPCREDIT		194
Cedar Creek	12/31/2010	SC1011259	MAINTENANCE WORK FY11A - CEDAR CREEK	SCAPCREDIT		1,720
Cedar Creek	6/30/2011	SC1011262	MAINTENANCE WORK FY11B - CEDAR CREEK	SCAPCREDIT		934
Cedar Creek	12/31/2011	SC1011264	MAINTENANCE WORK FY12A - CEDAR CREEK	SCAPCREDIT		269
Cedar Creek	6/30/2012	SC1011267	MAINTENANCE WORK FY12B - CEDAR CREEK	SCAPCREDIT		814
Cedar Creek	9/10/2012	SC1005519	CONTRACTED WORK FY12 - CEDAR CREEK	SCAPCREDIT		21,321
Cedar Creek	9/27/2012	320989	FY12 LITTLE CEDAR CREEK III REHABILITATION	SCAPCREDIT		652,907
Cedar Creek	11/30/2012	263934	ST JAMES CROSSINGS	LAT EXT	9,000	(19,575)
Cedar Creek	12/5/2012	196927	SONIC SPRINGS	LAT EXT	3,600	(7,830)
Cedar Creek	1/29/2013	350057	FMC EAST LOUISVILLE #1673-3	LAT EXT	3,400	(7,395)
Cedar Creek	6/30/2013	SC1074160	MAINTENANCE WORK FY13 JAN-JUN - CEDAR CREEK	SCAPCREDIT		4,443
Cedar Creek	8/19/2013	SC1005524	CONTRACTED WORK FY13 - CEDAR CREEK	SCAPCREDIT		425
Cedar Creek	12/31/2013	14SC1000	MAINTENANCE WORK FY14 JUL-DEC - CEDAR CREEK	SCAPCREDIT		2,220
Cedar Creek	12/31/2013	SC1082184	MAINTENANCE WORK FY13A - CEDAR CREEK	SCAPCREDIT		1,482
Cedar Creek	5/23/2014	13LE1155	RAISING CANE'S CEDARLOOK DRIVE	LAT EXT	1,175	(2,556)
Cedar Creek	6/30/2014	SC1082223	MAINTENANCE WORK FY14 JAN-JUN - CEDAR CREEK	SCAPCREDIT		4,729
Cedar Creek	12/30/2014	SC1082493	MAINTENANCE WORK FY15 JUL-DEC - CEDAR CREEK	SCAPCREDIT		4,863
Cedar Creek	1/26/2015	239030	POPLAR LAKES PH 1	LAT EXT	18,000	(39,150)
Cedar Creek	5/26/2015	13LE1003	Bardstow Woods Sec 6	LAT EXT	5,200	(11,310)
Cedar Creek	6/30/2015	SC1082496	MAINTENANCE WORK FY15 JAN-JUN - CEDAR CREEK	SCAPCREDIT		21
Cedar Creek	9/14/2015	LE916330	Allwood Development	LAT EXT	1,600	(3,480)
Cedar Creek	9/25/2015	SC1006188	CONTRACTED WORK FY15 - CEDAR CREEK	SCAPCREDIT		1
Cedar Creek	9/25/2015	SC1003694	CONTRACTED WORK FY16 - CEDAR CREEK	SCAPCREDIT		328
Cedar Creek	12/30/2015	SC1082497	MAINTENANCE WORK FY16 JUL-DEC - CEDAR CREEK	SCAPCREDIT		16
Cedar Creek	5/25/2016	LE915727	BARDSTOWN WOODS SEC 7	LAT EXT	4,400	(9,570)
Cedar Creek	6/30/2016	SC1082498	MAINTENANCE WORK FY16 JAN-JUN - CEDAR CREEK	SCAPCREDIT		169
Cedar Creek	8/9/2016	LE981692	Meredith Machinery	LAT EXT	400	(870)
Cedar Creek	10/26/2016	SC1006171	CONTRACTED WORK FY14 - CEDAR CREEK	SCAPCREDIT		45,900
Cedar Creek	12/30/2016	SC1082499	MAINTENANCE WORK FY17 JUL-DEC - CEDAR CREEK	SCAPCREDIT		2,396
Cedar Creek	2/9/2017	LE979589	Air Hydro Power Expansion	LAT EXT	3,120	(6,786)
Cedar Creek	3/8/2017	LE979025	Single Family Residence	LAT EXT	2,000	(4,350)
Cedar Creek	6/30/2017	SC1082500	MAINTENANCE WORK FY17 JAN-JUN - CEDAR CREEK	SCAPCREDIT		3,464



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Cedar Creek	7/11/2017	SC1107176	CONTRACTED WORK FY17 - CEDAR CREEK	SCAPCREDIT		309
Cedar Creek	7/21/2017	SC1107180	FY17 PROVIDENCE COURT PS REHABILITATION	SCAPCREDIT		1,275
Cedar Creek	7/26/2017	LE974464	Blue Sky Logistical Center	LAT EXT	2,250	(4,894)
Cedar Creek	8/14/2017	LE983107	Poplar Lakes Phase 3	LAT EXT	12,000	(26,100)
Cedar Creek	10/24/2017	LE971176	Cedar Ridge	LAT EXT	18,800	(40,890)
Cedar Creek	12/30/2017	SC1082501	MAINTENANCE WORK FY18 JUL-DEC-CEDAR CREEK	SCAPCREDIT		3,067
Cedar Creek	3/13/2018	LE1027406	Chenoweth Run, LLC	LAT EXT	1,600	(3,480)
Cedar Creek	4/2/2018	LE1005655	Carrier Court	LAT EXT	400	(870)
Cedar Creek	6/25/2019	SC1107051	FY18 BARDSTOWN RD VI REMEDIATION	SCAPCREDIT		22,963
Cedar Creek	7/23/2019	LE1048252	Landherr Estates Phase II	LAT EXT	17,600	(38,280)
Cedar Creek	8/16/2019	LE1039387	Tuscany Ridge Section 3	LAT EXT	8,000	(17,400)
Cedar Creek	9/12/2019	LE1049657	Little Spring Farm, Section 4B	LAT EXT	14,000	(30,450)
Cedar Creek	9/12/2019	LE1015579	Glennary Commons	LAT EXT	8,800	(19,140)
Cedar Creek	10/2/2019	LE978334	Houchens Industries	LAT EXT	780	(1,697)
Cedar Creek	1/30/2020	LE1049477	Hearlstone Meadows	LAT EXT	14,400	(31,320)
Cedar Creek	2/27/2020	LE1085520	Jefferson Trace Blvd. Sewer Extension	LAT EXT	400	(870)
Cedar Creek	9/10/2020	LE1099947	Cedar Creek Subdivision - Section 1	LAT EXT	16,000	(34,800)
Cedar Creek	10/27/2020	LE1057197	Cedar Brook Subdivision Section 4	LAT EXT	1,200	(2,610)
Cedar Creek	2/19/2021	LE1105493	Heritage Creek East Lot 384 PSC	LAT EXT	400	(870)
Cedar Creek	11/3/2021	LE1089846	Cedar Brook Subdivision, Section 5A FKA 5	LAT EXT	16,400	(35,670)
Cedar Creek Total						391,545
Floyds Fork	11/1/2008	235557	MAINTENANCE WORK FY06AUG-FY09 NOV - FLOYDS FORK	SCAPCREDIT		14,540
Floyds Fork	12/31/2008	362638	MAINTENANCE WORK FY09A - FLOYDS FORK	SCAPCREDIT		1
Floyds Fork	6/30/2009	362647	MAINTENANCE WORK FY09B - FLOYDS FORK	SCAPCREDIT		4
Floyds Fork	12/31/2009	362651	MAINTENANCE WORK FY10A - FLOYDS FORK	SCAPCREDIT		524
Floyds Fork	1/5/2010	230379	SHAKES RUN SECTION 4	LAT EXT	3,770	(8,200)
Floyds Fork	6/30/2010	362655	MAINTENANCE WORK FY10B - FLOYDS FORK	SCAPCREDIT		82
Floyds Fork	12/31/2010	362661	MAINTENANCE WORK FY11A - FLOYDS FORK	SCAPCREDIT		14,163
Floyds Fork	6/30/2011	362669	MAINTENANCE WORK FY11B - FLOYDS FORK	SCAPCREDIT		22,707
Floyds Fork	10/12/2011	309608	BLANKENBAKER TRAIL OFFICE LN-B	LAT EXT	2,880	(6,264)
Floyds Fork	10/17/2011	242480	CLAIBOURNE CROSSINGS PHASE 2	LAT EXT	-	-
Floyds Fork	12/31/2011	359320	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		4,000
Floyds Fork	12/31/2011	362674	MAINTENANCE WORK FY12A - FLOYDS FORK	SCAPCREDIT		317
Floyds Fork	3/13/2012	319027	PREMIER SURGERY CENTER	LAT EXT	5,740	(12,485)
Floyds Fork	6/30/2012	362678	MAINTENANCE WORK FY12B - FLOYDS FORK	SCAPCREDIT		338
Floyds Fork	7/13/2012	332823	SINGLE FAMILY HOME	LAT EXT	400	(870)
Floyds Fork	10/26/2012	318945	BROOKFIELD SEC 3	LAT EXT	12,800	(27,840)
Floyds Fork	12/19/2012	361689	FY13 LAKE FOREST REHAB PH1	SCAPCREDIT		174,789

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Floyds Fork	12/31/2012	362683	MAINTENANCE WORK FY13A - FLOYDS FORK	SCAPCREDIT		10
Floyds Fork	5/8/2013	331397	BROOKFIELD SEC 2A	LAT EXT	14,400	(31,320)
Floyds Fork	6/30/2013	SC1082514	MAINTENANCE WORK FY13 JAN-JUN-FLOYDS FORK	SCAPCREDIT		161
Floyds Fork	6/30/2013	13SC1000	FY14 STARVIEW REHABILITATION	SCAPCREDIT		14,183
Floyds Fork	12/30/2013	SC1082517	MAINTENANCE WORK FY14 JUL-DEC-FLOYDS FORK	SCAPCREDIT		991
Floyds Fork	6/30/2014	SC1082518	MAINTENANCE WORK FY14 JAN-JUN-FLOYDS FORK	SCAPCREDIT		662
Floyds Fork	12/30/2014	SC1082519	MAINTENANCE WORK FY15 JUL-DEC-FLOYDS FORK	SCAPCREDIT		1,318
Floyds Fork	2/18/2015	13LE1062	SPEEDWAY #9451	LAT EXT	540	(1,175)
Floyds Fork	6/30/2015	SC1003809	Donan Engineering Co., Inc Main Office	LAT EXT	1,335	116,834
Floyds Fork	6/30/2015	LE932084	MAINTENANCE WORK FY15 JAN-JUN-FLOYDS FORK	SCAPCREDIT		(2,904)
Floyds Fork	6/30/2015	LE939198	Speckman Center	LAT EXT	1,920	(4,176)
Floyds Fork	6/30/2015	SC1082520	FY14 BERRY TOWN WQTC // REMEDIATION	SCAPCREDIT		661
Floyds Fork	11/6/2015	SC1003723	FY16 MIDDLE TOWN SSR P2S2 // REMEDIATION	SCAPCREDIT		102
Floyds Fork	11/23/2015	LE959078	Edwards Restaurant	LAT EXT	1,750	(3,806)
Floyds Fork	11/23/2015	LE965189	The Meadows at the Polo Fields Patio Homes	LAT EXT	1,200	(2,610)
Floyds Fork	12/30/2015	SC1082521	MAINTENANCE WORK FY16 JUL-DEC-FLOYDS FORK	SCAPCREDIT		659
Floyds Fork	1/7/2016	LE941673	Locust Creek Section 8B	LAT EXT	2,000	(4,350)
Floyds Fork	6/30/2016	SC1082523	MAINTENANCE WORK FY16 JAN-JUN-FLOYDS FORK	SCAPCREDIT		3,578
Floyds Fork	7/7/2016	SC1003331	CONTRACTED WORK FY16 - FLOYDS FORK	SCAPCREDIT		35
Floyds Fork	9/20/2016	LE932677	Shakes Run Sec 9	LAT EXT	12,000	(26,100)
Floyds Fork	12/30/2016	SC1082524	MAINTENANCE WORK FY17 JUL-DEC-FLOYDS FORK	SCAPCREDIT		1,804
Floyds Fork	1/4/2017	LE945783	Urton Woods, Section 2B	LAT EXT	17,200	(37,410)
Floyds Fork	1/6/2017	LE963784	Catalpa Farms Subdivision	LAT EXT	16,000	(34,800)
Floyds Fork	2/27/2017	LE971261	Notling Hills Section 4 and Clubhouse	LAT EXT	10,400	(22,620)
Floyds Fork	6/30/2017	SC1082525	MAINTENANCE WORK FY17 JAN-JUN-FLOYDS FORK	SCAPCREDIT		1,320
Floyds Fork	10/9/2017	LE992628	Blankenbaker Centre II	LAT EXT	2,340	(5,090)
Floyds Fork	12/30/2017	SC1082526	MAINTENANCE WORK FY18 JUL-DEC-FLOYDS FORK	SCAPCREDIT		6,158
Floyds Fork	12/27/2018	LE1026269	Valencia Villas at Landis Lakes	LAT EXT	1,600	(3,480)
Floyds Fork	1/7/2019	LE1039193	Glen Lakes Section 4 - Phase 3	LAT EXT	16,400	(35,670)
Floyds Fork	2/7/2019	LE1030166	Victory Knoll Apartments - Phase 1	LAT EXT	91,400	(198,795)
Floyds Fork	4/19/2019	LE1024277	St. Joseph's Property	LAT EXT	70,128	(152,528)
Floyds Fork	6/25/2019	LE1030172	Victory Knoll Apartments - Phase 2	LAT EXT	36,100	(78,518)
Floyds Fork	8/27/2019	SC1107197	CONTRACTED WORK FY19 - FLOYDS FORK	SCAPCREDIT		1,554
Floyds Fork	10/21/2019	LE1060982	Courtyard at Curry Farms Section 1	LAT EXT	17,000	(36,975)
Floyds Fork	12/6/2019	LE1025883	Vinings at Clabourne	LAT EXT	69,800	(151,815)
Floyds Fork Total						(508,326)
Hite Creek	5/15/2006	SC1006307	CONTRACTED WORK FY06 - HITE CREEK	SCAPCREDIT		656
Hite Creek	11/1/2008	235561	MAINTENANCE WORK FY06 AUG-FY09 NOV - HITE CREEK	SCAPCREDIT		6,404



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Hite Creek	12/31/2008	362641	MAINTENANCE WORK FY08A - HITE CREEK	SCAPCREDIT		2
Hite Creek	6/1/2009	SC1006214	CONTRACTED WORK FY08 - HITE CREEK	SCAPCREDIT		328
Hite Creek	6/30/2009	362648	MAINTENANCE WORK FY08B - HITE CREEK	SCAPCREDIT		7
Hite Creek	12/31/2009	362652	MAINTENANCE WORK FY10A - HITE CREEK	SCAPCREDIT		10
Hite Creek	6/30/2010	362657	MAINTENANCE WORK FY10B - HITE CREEK	SCAPCREDIT		332
Hite Creek	12/17/2010	320906	FY11 FLOYDSBURG ROAD // REHABILITATION	SCAPCREDIT		28,437
Hite Creek	12/31/2010	362662	MAINTENANCE WORK FY11A - HITE CREEK	SCAPCREDIT		9
Hite Creek	6/30/2011	362670	MAINTENANCE WORK FY11B - HITE CREEK	SCAPCREDIT		9
Hite Creek	9/7/2011	SC1011058	FY12 MEADOW STREAM PS AND FM EXPANSION	SCAPCREDIT		2,304,000
Hite Creek	9/28/2011	246638	CHAPMAN COURT S/S	LAT EXT	800	(1,740)
Hite Creek	12/31/2011	362675	MAINTENANCE WORK FY12A - HITE CREEK	SCAPCREDIT		340
Hite Creek	6/30/2012	362679	MAINTENANCE WORK FY12B - HITE CREEK	SCAPCREDIT		5,007
Hite Creek	8/31/2012	290181	CAMDEN WOOD APARTMENTS	LAT EXT	12,400	(26,970)
Hite Creek	12/1/2012	304536	MAGNOLIA SPRINGS EAST PRV P/S	LAT EXT	9,500	(20,663)
Hite Creek	12/7/2012	335610	ROCK SPRINGS FARM SEC 4B	LAT EXT	6,400	(13,920)
Hite Creek	12/31/2012	362684	MAINTENANCE WORK FY13A - HITE CREEK	SCAPCREDIT		7
Hite Creek	4/11/2013	SC1005530	CONTRACTED WORK FY13 - HITE CREEK	SCAPCREDIT		1,442
Hite Creek	6/30/2013	SC1082527	MAINTENANCE WORK FY13 JAN-JUN-HITE CREEK	SCAPCREDIT		967
Hite Creek	11/26/2013	13LE1150	SINGLE FAMILY 5800 MOUNT PLEASANT RD	LAT EXT	400	(870)
Hite Creek	12/30/2013	SC1082528	MAINTENANCE WORK FY14 JUL-DEC-HITE CREEK	SCAPCREDIT		3,211
Hite Creek	6/30/2014	SC1082529	MAINTENANCE WORK FY14 JAN-JUNE-HITE CREEK	SCAPCREDIT		2,207
Hite Creek	12/30/2014	SC1082530	MAINTENANCE WORK FY15 JUL-DEC-HITE CREEK	SCAPCREDIT		360
Hite Creek	1/27/2015	SC1006178	CONTRACTED WORK FY14 - HITE CREEK	SCAPCREDIT		77,660
Hite Creek	3/13/2015	SC983697	FY13 MEADOWSTREAM REHABILITATION	SCAPCREDIT		448,447
Hite Creek	6/30/2015	SC1082531	MAINTENANCE WORK FY15 JAN-JUN-HITE CREEK	SCAPCREDIT		124
Hite Creek	12/30/2015	SC1082532	MAINTENANCE WORK FY16 JUL-DEC-HITE CREEK	SCAPCREDIT		1,191
Hite Creek	3/2/2016	LE967612	Camden Wood Apartments, Phase III	LAT EXT	2,400	(5,220)
Hite Creek	6/30/2016	SC1082533	MAINTENANCE WORK FY16 JAN-JUN-HITE CREEK	SCAPCREDIT		336
Hite Creek	9/13/2016	LE943178	Rock Springs Farm Section 5A	LAT EXT	6,800	(14,790)
Hite Creek	10/28/2016	SC1006192	CONTRACTED WORK FY15 - HITE CREEK	SCAPCREDIT		1
Hite Creek	12/30/2016	SC1082534	MAINTENANCE WORK FY17 JUL-DEC-HITE CREEK	SCAPCREDIT		3,599
Hite Creek	3/17/2017	LE971406	Old Henry Business Park	LAT EXT	930	(2,023)
Hite Creek	6/30/2017	SC1082535	MAINTENANCE WORK FY17 JAN-JUN-HITE CREEK	SCAPCREDIT		4,109
Hite Creek	8/25/2017	LE1008225	LINK Expansion	LAT EXT	3,610	(7,852)
Hite Creek	12/30/2017	SC1082536	MAINTENANCE WORK FY18 JUL-DEC-HITE CREEK	SCAPCREDIT		6,823
Hite Creek	8/9/2018	SC1107182	FY18 FLOYDSBURG ROAD PS REHABILITATION	SCAPCREDIT		7,825
Hite Creek	1/7/2019	LE1031180	Norton Commons North Village Phase 6	LAT EXT	26,800	(68,290)
Hite Creek	1/7/2019	LE1042390	Norton Commons North Village Phase 7	LAT EXT	12,000	(26,100)

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Hite Creek	1/10/2019	LE1079940	Norton Commons North Village Phase 6A	LAT EXT	6,800	(14,790)
Hite Creek	3/15/2019	LE1066431	Norton Commons North Village The Grove Pool	LAT EXT	400	(870)
Hite Creek	3/28/2019	LE1088579	A & L Expansion	LAT EXT	400	(870)
Hite Creek	5/8/2019	14LE1103	Accomack Mini Warehouses	LAT EXT	400	(870)
Hite Creek	5/29/2019	LE1068886	GhasemFactory Lane Project	LAT EXT	685	(1,490)
Hite Creek	11/18/2019	LE1103150	Anchorage Plaza II Phase II	LAT EXT	2,300	(5,003)
Hite Creek	2/20/2020	LE1104289	LYRICAT NORTON COMMONS	LAT EXT	71,357	(155,201)
Hite Creek	2/21/2020	LE1054784	Norton Commons North Village Phase 8	LAT EXT	9,600	(20,880)
Hite Creek	3/3/2020	LE1102996	Thomas Eastpoint Warehouse Expansion	LAT EXT	400	(870)
Hite Creek	6/3/2020	LE1104592	EPOP II	LAT EXT	510	(1,109)
Hite Creek	6/12/2020	LE1102431	Tony's Wrecker Service	LAT EXT	400	(870)
Hite Creek	6/30/2020	LE1089366	Norton Commons North Village Phase 10	LAT EXT	29,200	(63,510)
Hite Creek	7/16/2020	LE1104374	KEN TOWERY	LAT EXT	400	(870)
Hite Creek Total						2,458,209
Jeffersontown	11/1/2008	2355663	MAINTENANCE WORK FY06 AUG-FY09 NOV - JEFFERSONTOWN	SCAPCREDIT		6,203
Jeffersontown	12/31/2008	359323	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
Jeffersontown	8/10/2010	254871	LAKESIDE BAPT CHURCH PRIV PS	LAT EXT	2,500	(5,438)
Jeffersontown	8/11/2011	340213	FY12 JEFFERSONTOWN ENG REHAB	SCAPCREDIT		997,448
Jeffersontown	12/31/2011	359324	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		4,000
Jeffersontown	12/31/2012	14SC1002	MAINTENANCE WORK FY13A - JEFFERSONTOWN	SCAPCREDIT		3,490
Jeffersontown	5/28/2013	337261	SINGLE FAMILY 2909 PELHAM CT	LAT EXT	400	(870)
Jeffersontown	6/28/2013	13LE1010	SWOPE HR & TRAINING BLDG	LAT EXT	400	(870)
Jeffersontown	10/25/2013	13LE1092	BALE EQUIPMENT	LAT EXT	450	(979)
Jeffersontown	2/27/2014	13LE1098	UNIPAK	LAT EXT	720	(1,566)
Jeffersontown	5/1/2014	LE924043	Bluegrass Indoor Carling	LAT EXT	400	(870)
Jeffersontown	7/9/2014	13LE1153	VALUE PLACE	LAT EXT	12,400	(26,970)
Jeffersontown	7/22/2014	14LE1082	Single Family Home	LAT EXT	400	(870)
Jeffersontown	12/31/2014	13LE1067	PARK COMMUNITY	LAT EXT	2,200	(4,785)
Jeffersontown	8/17/2015	LE92541	TYLER RETAIL CTR & KROGER EXPAN	LAT EXT	-	-
Jeffersontown	2/1/2016	14LE1149	Grand Lakes Section 3	LAT EXT	5,600	(12,180)
Jeffersontown	3/10/2016	LE924049	Blankenaker Road S/S	LAT EXT	9,010	(19,597)
Jeffersontown	3/15/2016	LE948691	Kowaleski Salon	LAT EXT	600	(1,305)
Jeffersontown	5/4/2016	326360	WATTERSON TRAIL CENTER	LAT EXT	2,745	(5,970)
Jeffersontown	5/9/2016	LE972153	Tova Industries	LAT EXT	400	(870)
Jeffersontown	6/21/2016	LE930127	Vanage Point Sec 3B	LAT EXT	7,200	(15,660)
Jeffersontown	7/28/2016	13LE1158	GOODWILL INDUSTRIES OF KENTUCKY	LAT EXT	400	(870)
Jeffersontown	11/8/2016	14LE1148	Grand Lakes Section 2	LAT EXT	4,400	(9,570)
Jeffersontown	11/17/2016	LE950059	Embassy Square Office Park	LAT EXT	600	(1,305)



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Jeffersontown	3/23/2017	LE926081	Monticello Manors Sec 2	LAT EXT	7,600	(16,530)
Jeffersontown	3/31/2017	LE967619	Louis F. Zoeller, Jr Minor Plat	LAT EXT	400	(870)
Jeffersontown Total						887,196
Middle Fork Beargrass Creek	12/31/2007	359328	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		20,000
Middle Fork Beargrass Creek	12/31/2007	359400	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		84,000
Middle Fork Beargrass Creek	11/1/2008	235666	MAINTENANCE WORK FY06 AUG-FY09 NOV - MIDDLE FORK	SCAPCREDIT		43,779
Middle Fork Beargrass Creek	12/31/2008	SC1011287	MAINTENANCE WORK FY09A - MIDDLE FORK	SCAPCREDIT		13
Middle Fork Beargrass Creek	12/31/2008	359329	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		8,000
Middle Fork Beargrass Creek	1/16/2009	236517	FY11 ANCHOR ESTATES MH REHAB	SCAPCREDIT		15,552
Middle Fork Beargrass Creek	3/30/2009	217235	FY09 SINKING FORK ICA PHASE I REHAB	SCAPCREDIT		437,967
Middle Fork Beargrass Creek	5/15/2009	235376	FY09 MIDDLE FORK INT REHAB PH1	SCAPCREDIT		487,744
Middle Fork Beargrass Creek	5/26/2009	179246	SHADY GLEN OF LYNDON PERSONAL	LAT EXT	(500)	1,088
Middle Fork Beargrass Creek	6/30/2009	SC1011288	MAINTENANCE WORK FY09B - MIDDLE FORK	SCAPCREDIT		4,208
Middle Fork Beargrass Creek	11/4/2009	250572	1316 WITAWANGA AVE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	12/31/2009	359331	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		24,000
Middle Fork Beargrass Creek	12/31/2009	SC1011290	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		50
Middle Fork Beargrass Creek	12/31/2009	359401	MAINTENANCE WORK FY10A - MIDDLE FORK	SCAPCREDIT		4,000
Middle Fork Beargrass Creek	3/16/2010	197432	ALMOST HOME KENNELS - ALL PET	LAT EXT	3,700	(8,048)
Middle Fork Beargrass Creek	4/15/2010	260065	OXMOOR GOLF FRONT 9	LAT EXT	400	(870)
Middle Fork Beargrass Creek	4/15/2010	260064	OXMOOR GOLF BACK 9	LAT EXT	400	(870)
Middle Fork Beargrass Creek	4/27/2010	229834	THE BROOK HOS- DUPONT ADDITION	LAT EXT	1,763	(3,835)
Middle Fork Beargrass Creek	6/30/2010	SC1011292	MAINTENANCE WORK FY10B - MIDDLE FORK	SCAPCREDIT		1,113
Middle Fork Beargrass Creek	7/2/2010	265723	ZXPRESS CAR WASH	LAT EXT	5,449	(11,852)
Middle Fork Beargrass Creek	7/14/2010	255793	HERR LANE APARTMENTS - 4 PLEX	LAT EXT	1,200	(2,610)
Middle Fork Beargrass Creek	7/14/2010	255792	HERR LANE APARTMENTS - 8 PLEX	LAT EXT	2,400	(5,220)
Middle Fork Beargrass Creek	9/9/2010	274303	FARM CREDIT SERVICES	LAT EXT	525	(1,142)

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Middle Fork Beargrass Creek	12/15/2010	278015	METROPOLITAN UROLOGY	LAT EXT	400	(870)
Middle Fork Beargrass Creek	12/31/2010	359333	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
Middle Fork Beargrass Creek	12/31/2010	SC1011293	MAINTENANCE WORK FY11A - MIDDLE FORK	SCAPCREDIT		1,205
Middle Fork Beargrass Creek	12/31/2010	359402	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		8,000
Middle Fork Beargrass Creek	1/20/2011	285637	SHELBYHURST OFFICE BUILDING 1	LAT EXT	6,600	(14,355)
Middle Fork Beargrass Creek	1/27/2011	313465	DORSEY POINTE/CODOMINIUMS 8-13	LAT EXT	2,400	(5,220)
Middle Fork Beargrass Creek	4/14/2011	291263	BROWNS LANE BUILDING	LAT EXT	400	(870)
Middle Fork Beargrass Creek	6/14/2011	293400	FOUR PLEX APARTMENTS	LAT EXT	1,200	(2,610)
Middle Fork Beargrass Creek	6/30/2011	SC1011294	MAINTENANCE WORK FY11B - MIDDLE FORK	SCAPCREDIT		7,183
Middle Fork Beargrass Creek	8/11/2011	330019	FY11 ANCHOR ESTATES REHAB	SCAPCREDIT		1,359
Middle Fork Beargrass Creek	10/31/2011	310046	EL NAPEL - MCMAHAN CENTER	LAT EXT	3,100	(6,743)
Middle Fork Beargrass Creek	11/29/2011	314591	CHOCOLATE MARTINI BAR/REST	LAT EXT	3,275	(7,123)
Middle Fork Beargrass Creek	12/27/2011	320983	FY12 HURSTBOURNE // INVESTIGATION	SCAPCREDIT		1,408,279
Middle Fork Beargrass Creek	12/31/2011	359335	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		16,000
Middle Fork Beargrass Creek	12/31/2011	SC1011295	MAINTENANCE WORK FY12A - MIDDLE FORK	SCAPCREDIT		919
Middle Fork Beargrass Creek	2/15/2012	321228	SINGLE FAMILY UNIT	LAT EXT	400	(870)
Middle Fork Beargrass Creek	3/16/2012	SC1005671	CONTRACTED WORK FY12 - MIDDLE FORK	SCAPCREDIT		7,305
Middle Fork Beargrass Creek	3/27/2012	321647	SINGLE FAMILY	LAT EXT	400	(870)
Middle Fork Beargrass Creek	6/22/2012	328074	SINGLE FAMILY:703 FOUNTAIN AVE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	6/30/2012	SC1011297	MAINTENANCE WORK FY12B - MIDDLE FORK	SCAPCREDIT		949
Middle Fork Beargrass Creek	8/20/2012	193195	CEDAR LAKE LODGE WASHBURN	LAT EXT	1,900	(4,133)
Middle Fork Beargrass Creek	8/23/2012	320923	FY12 ST MATTHEWS // REHABILITATION	SCAPCREDIT		20,841
Middle Fork Beargrass Creek	9/5/2012	337796	CHAMPPS	LAT EXT	635	(1,381)
Middle Fork Beargrass Creek	12/28/2012	347126	ADVANCE PRODUCTION SYSTEMS	LAT EXT	400	(870)
Middle Fork Beargrass Creek	12/31/2012	359336	MAINTENANCE WORK FY13A - MIDDLE FORK	SCAPCREDIT		92,000



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Middle Fork Beargrass Creek	12/31/2012	14SC1003	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		3,309
Middle Fork Beargrass Creek	1/4/2013	339367	BAPTIST RADIATION ONCOLOGY	LAT EXT	1,500	(3,263)
Middle Fork Beargrass Creek	1/16/2013	340778	PANDA RESTAURANT	LAT EXT	1,725	(3,752)
Middle Fork Beargrass Creek	1/29/2013	349044	BLAIRWOOD POOL ADDITION	LAT EXT	400	(870)
Middle Fork Beargrass Creek	2/4/2013	328659	SINGLE FAMILY HOME - 6911 AMBR	LAT EXT	400	(870)
Middle Fork Beargrass Creek	2/20/2013	352805	POOL HOUSE 9213 REIGATE COURT	LAT EXT	200	(435)
Middle Fork Beargrass Creek	3/19/2013	14LE1001	MIRANDA LAGRANGE RD	LAT EXT	400	(870)
Middle Fork Beargrass Creek	3/20/2013	350246	SINGLE FAMILY - 218 BLISS AVE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	3/26/2013	349974	SINGLE FAMILY 205 N WATTERSON	LAT EXT	400	(870)
Middle Fork Beargrass Creek	4/15/2013	342433	SHELBYHURST 700 OFFICE BLDG	LAT EXT	7,500	(16,313)
Middle Fork Beargrass Creek	4/16/2013	350340	JARED THE GALLERY OF JEWELRY	LAT EXT	770	(1,875)
Middle Fork Beargrass Creek	5/30/2013	SC1005532	CONTRACTED WORK FY13 - MIDDLE FORK	SCAPCREDIT		6,480
Middle Fork Beargrass Creek	6/7/2013	13LE1009	Single family 11716 Wetherby Ave	LAT EXT	400	(870)
Middle Fork Beargrass Creek	6/30/2013	SC1082545	MAINTENANCE WORK FY13 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6,989
Middle Fork Beargrass Creek	8/28/2013	13LE1001	Single Family 835 Fountain Ave	LAT EXT	400	(870)
Middle Fork Beargrass Creek	9/3/2013	344385	WALDORF SCHOOL OF LOUISVILLE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	9/10/2013	355162	PROPOSED RESTAURANT	LAT EXT	7,540	(16,400)
Middle Fork Beargrass Creek	9/30/2013	13LE1045	SINGLE FAMILY 8325 WHIPPS MILL RD	LAT EXT	400	(870)
Middle Fork Beargrass Creek	10/22/2013	319292	WATERMARK ON HURSTBOURNE	LAT EXT	71,600	(155,730)
Middle Fork Beargrass Creek	10/28/2013	331542	DENTAL/MEDICAL OFFICE BLDG	LAT EXT	400	(870)
Middle Fork Beargrass Creek	11/5/2013	13LE1128	SINGLE FAMILY 1329 ETAWAH AVE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	11/5/2013	13LE1144	SINGLE FAMILY HOME 1327 ETAWAH AVE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	11/25/2013	13LE1165	SINGLE FAMILY 8504 LORE LANE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	11/28/2013	13LE1146	CITY OF ST MATTHEWS COMMUNITY CTR PARK RESTROOM	LAT EXT	1,500	(3,263)
Middle Fork Beargrass Creek	12/11/2013	13LE1099	NICKLIES - ST MATTHEWS	LAT EXT	1,920	(4,176)

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Middle Fork Beargrass Creek	12/18/2013	353963	DORSEY COMMONS TRACTS 1,2,3	LAT EXT	1,960	(4,263)
Middle Fork Beargrass Creek	12/30/2013	SC1082546	MAINTENANCE WORK FY14 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		91,183
Middle Fork Beargrass Creek	12/31/2013	352026	MCMAHAN PLAZA PHASE II BLDG B	LAT EXT	766	(1,666)
Middle Fork Beargrass Creek	4/10/2014	13LE1117	THE VININGS	LAT EXT	850	(1,849)
Middle Fork Beargrass Creek	6/18/2014	14LE1021	KODA KENTUCKY ORGAN DONOR AFFILIATES	LAT EXT	400	(870)
Middle Fork Beargrass Creek	6/30/2014	SC1082547	MAINTENANCE WORK FY14 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		4,404
Middle Fork Beargrass Creek	6/30/2014	14LE1128	WALDORF SCHOOL OF LOUISVILLE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	7/7/2014	13LE1163	FIRSTWATCH RESTAURANT	LAT EXT	925	(2,012)
Middle Fork Beargrass Creek	7/17/2014	14LE1114	Madison Station	LAT EXT	1,640	(3,567)
Middle Fork Beargrass Creek	8/1/2014	356879	MARYHURST CAMPUS ADDITION	LAT EXT	1,800	(3,915)
Middle Fork Beargrass Creek	8/18/2014	14LE1040	SFU-206 Wood Road	LAT EXT	400	(870)
Middle Fork Beargrass Creek	8/19/2014	354880	ADULT DAY CARE	LAT EXT	630	(1,370)
Middle Fork Beargrass Creek	9/8/2014	14LE1081	Woodlawn Center - Lot 2	LAT EXT	540	(1,175)
Middle Fork Beargrass Creek	12/29/2014	LE921312	Oxmoor Ford Car Wash	LAT EXT	2,520	(5,481)
Middle Fork Beargrass Creek	12/30/2014	SC1082548	MAINTENANCE WORK FY15 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,664
Middle Fork Beargrass Creek	1/29/2015	14LE1097	TOWNPLACE SUITES & HAMPTON INN	LAT EXT	15,700	(34,148)
Middle Fork Beargrass Creek	2/10/2015	SC1006201	FY14 GOOSE CREEK PLANTATION III REHABILITATION	SCAPCREDIT		163,919
Middle Fork Beargrass Creek	2/11/2015	SC1006179	CONTRACTED WORK FY14 - MIDDLE FORK	SCAPCREDIT		15,043
Middle Fork Beargrass Creek	2/25/2015	LE917106	ETSCORN - DAISEY LANE	LAT EXT	400	(870)
Middle Fork Beargrass Creek	5/13/2015	LE924108	City of Middletown City Hall	LAT EXT	400	(870)
Middle Fork Beargrass Creek	6/30/2015	LE943174	MAINTENANCE WORK FY15 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		(870)
Middle Fork Beargrass Creek	6/30/2015	SC1082549	Single Family - 11707 Hazelwood Road	LAT EXT	400	2,568
Middle Fork Beargrass Creek	6/30/2015	LE943173	Single Family - 11707 Hazelwood Road	LAT EXT	400	(870)
Middle Fork Beargrass Creek	10/2/2015	LE927510	The Vinings Apartments	LAT EXT	38,100	(82,668)
Middle Fork Beargrass Creek	10/5/2015	LE940742	LOUVINO	LAT EXT	1,930	(4,198)



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Middle Fork Beargrass Creek	12/30/2015	SC1082550	MAINTENANCE WORK FY16 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		15,216
Middle Fork Beargrass Creek	2/4/2016	LE971036	Robison Park Splash Pad Bathroom	LAT EXT	400	(870)
Middle Fork Beargrass Creek	2/22/2016	LE969593	First Watch	LAT EXT	760	(1,653)
Middle Fork Beargrass Creek	4/18/2016	14LE1026	HIGHLANDS LATIN SCHOOL GYM ADDITION	LAT EXT	400	(870)
Middle Fork Beargrass Creek	5/9/2016	LE982217	Dropping Bird #12	LAT EXT	1,600	(3,480)
Middle Fork Beargrass Creek	6/8/2016	LE939199	Westport Road Apartments	LAT EXT	62,800	(136,590)
Middle Fork Beargrass Creek	6/15/2016	LE972151	Baptist Hospital East ER Expansion	LAT EXT	1,856	(4,037)
Middle Fork Beargrass Creek	6/30/2016	SC1082552	MAINTENANCE WORK FY16 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,573
Middle Fork Beargrass Creek	8/30/2016	LE971405	Lyndon Lane Office Condos	LAT EXT	2,652	(5,768)
Middle Fork Beargrass Creek	10/17/2016	LE987390	Oxmoor Park Condominiums	LAT EXT	1,800	(3,915)
Middle Fork Beargrass Creek	10/19/2016	SC1003387	CONTRACTED WORK FY16 - MIDDLE FORK	SCAPCREDIT		91,284
Middle Fork Beargrass Creek	10/24/2016	SC1006194	CONTRACTED WORK FY15 - MIDDLE FORK	SCAPCREDIT		3
Middle Fork Beargrass Creek	11/17/2016	LE996129	Norton Women's & Kosair Children's Hospital	LAT EXT	1,000	(2,175)
Middle Fork Beargrass Creek	12/14/2016	LE1009529	Single Family Residence , 12006 Brimley	LAT EXT	400	(870)
Middle Fork Beargrass Creek	12/20/2016	LE938563	The Paddock at Sawyer Park	LAT EXT	99,800	(217,065)
Middle Fork Beargrass Creek	12/30/2016	SC1082554	MAINTENANCE WORK FY17 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		2,385
Middle Fork Beargrass Creek	2/14/2017	LE1008219	BMW Certified Pre-Owned	LAT EXT	800	(1,740)
Middle Fork Beargrass Creek	2/28/2017	LE994524	Wanwick Storage	LAT EXT	400	(870)
Middle Fork Beargrass Creek	3/28/2017	LE998260	North Hurstbourne Storage	LAT EXT	400	(870)
Middle Fork Beargrass Creek	5/9/2017	LE1005641	City of Anchorage Sewer Extension	LAT EXT	800	(1,740)
Middle Fork Beargrass Creek	5/11/2017	LE1005633	Louisville Family Chiropractor	LAT EXT	400	(870)
Middle Fork Beargrass Creek	6/30/2017	SC1082555	CONTRACTED WORK FY17 - MIDDLE FORK	SCAPCREDIT		3,798
Middle Fork Beargrass Creek	6/30/2017	SC1107188	MAINTENANCE WORK FY17 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		51,809
Middle Fork Beargrass Creek	12/30/2017	SC1082557	MAINTENANCE WORK FY18 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		5,851
Middle Fork Beargrass Creek	2/19/2018	LE1017531	526 & 528 Fountain Ave	LAT EXT	800	(1,740)

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Middle Fork Beargrass Creek	3/9/2018	LE960134	ShelbyHurst Office - 805 Building	LAT EXT	9,500	(20,663)
Middle Fork Beargrass Creek	3/15/2018	LE960135	ShelbyHurst Office - 815 Building	LAT EXT	5,000	(10,875)
Middle Fork Beargrass Creek	4/23/2018	LE1032029	The Endave at Douglas Hills Section 1	LAT EXT	27,200	(69,160)
Middle Fork Beargrass Creek	5/17/2018	LE960133	ShelbyHurst Office - 435 Building	LAT EXT	7,125	(15,497)
Middle Fork Beargrass Creek	6/6/2018	LE1056615	Bennett & Bloom Medical Office	LAT EXT	585	(1,272)
Middle Fork Beargrass Creek	7/24/2018	LE1041043	Single Family Unit (Lot 11)	LAT EXT	400	(870)
Middle Fork Beargrass Creek	9/7/2018	166053	616 & 618 FOUNTAIN AVE SIS	LAT EXT	400	(870)
Middle Fork Beargrass Creek	10/8/2018	LE1074826	Tri-Plex Apartments	LAT EXT	900	(1,958)
Middle Fork Beargrass Creek	1/15/2019	LE1065625	Brown Park	LAT EXT	400	(870)
Middle Fork Beargrass Creek	4/22/2019	SC1107196	CONTRACTED WORK FY19 - MIDDLE FORK	SCAPCREDIT		1,476
Middle Fork Beargrass Creek	5/29/2019	LE1082291	Taco Bell	LAT EXT	1,100	(2,393)
Middle Fork Beargrass Creek	7/1/2019	LE1102470	Hurstbourne Town Center - Hyatt House Louisville E	LAT EXT	15,275	(33,223)
Middle Fork Beargrass Creek	7/23/2019	LE1051776	Bluegrass Manor - Tract 2	LAT EXT	450	(979)
Middle Fork Beargrass Creek	7/26/2019	LE1024084	Morat Avenue Apartments	LAT EXT	62,250	(135,394)
Middle Fork Beargrass Creek	7/26/2019	LE1020250	LFPL - Northeast Regional Library	LAT EXT	800	(1,740)
Middle Fork Beargrass Creek	8/28/2019	LE1039542	Meadowview - Breckenridge Lane	LAT EXT	2,080	(4,524)
Middle Fork Beargrass Creek	11/4/2019	LE1083952	1700 Cold Spring Rd & 12004 Osage Rd	LAT EXT	800	(1,740)
Middle Fork Beargrass Creek	12/2/2019	LE1056406	Stewart Condos	LAT EXT	4,500	(9,788)
Middle Fork Beargrass Creek	1/30/2020	LE1104174	JAGGERS	LAT EXT	1,460	(3,176)
Middle Fork Beargrass Creek	2/13/2020	LE1089288	Portland Christian School System Inc	LAT EXT	400	(870)
Middle Fork Beargrass Creek	4/24/2020	LE1059259	904 Browns Lane	LAT EXT	1,600	(3,480)
Middle Fork Beargrass Creek	4/30/2020	LE1083858	Hurstbourne Town Center - Tract1	LAT EXT	54,730	(12,432)
Middle Fork Beargrass Creek	4/30/2020	LE1061684	Hurstbourne Town Center - Tract 5 & 6	LAT EXT	5,716	(11,9,038)
Middle Fork Beargrass Creek	5/5/2020	LE1102767	Parks - Herr Lane Office Building	LAT EXT	580	(1,218)
Middle Fork Beargrass Creek	5/14/2020	LE1104478	Breckenridge Center	LAT EXT	4,000	(8,700)



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Middle Fork Beargrass Creek	6/5/2020	LE1082329	St. Luke's Episcopal Church	LAT EXT	920	(2,001)
Middle Fork Beargrass Creek	8/28/2020	LE1010450	Ormsby Lane Senior Apartments	LAT EXT	11,900	(25,883)
Middle Fork Beargrass Creek	9/11/2020	LE1098358	Golden Retriever Rescue & Adoption	LAT EXT	400	(870)
Middle Fork Beargrass Creek	9/28/2020	LE1104887	Episcopal Home - Dudley Square Condominiums	LAT EXT	1,300	(2,828)
Middle Fork Beargrass Creek	10/5/2020	LE1090567	4229 Taylorsville Road	LAT EXT	11,200	(24,360)
Middle Fork Beargrass Creek	11/9/2020	LE1105277	Partridge Meadows New Maintenance and Laundry Bldg	LAT EXT	3,200	(6,960)
Middle Fork Beargrass Creek	2/1/2021	LE1097560	North Hurstbourne Climate Controlled Storage	LAT EXT	400	(870)
Middle Fork Beargrass Creek	11/22/2021	LE1102535	Enclave at Warwick Village	LAT EXT	5,100	(11,093)
Middle Fork Beargrass Creek	12/2/2021	LE1106282	Aspen Dental	LAT EXT	1,395	(3,034)
Middle Fork Beargrass Creek	3/15/2022	LE1106661	Walgreens	LAT EXT	-	-
Middle Fork Beargrass Creek						1,815,716
Mill Creek	12/31/2005	359380	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
Mill Creek	12/31/2007	359381	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		24,000
Mill Creek	11/1/2008	235568	MAINTENANCE WORK FY06 AUG-FY09 NOV - MILL CREEK	SCAPCREDIT		51,530
Mill Creek	12/31/2008	359382	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
Mill Creek	12/31/2008	362642	MAINTENANCE WORK FY09A - MILL CREEK	SCAPCREDIT		93
Mill Creek	6/30/2009	362649	MAINTENANCE WORK FY09B - MILL CREEK	SCAPCREDIT		1,507
Mill Creek	9/9/2009	236614	DEVEROES	LAT EXT	960	(2,088)
Mill Creek	12/31/2009	362653	MAINTENANCE WORK FY10A - MILL CREEK	SCAPCREDIT		25,272
Mill Creek	12/31/2009	359383	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		32,000
Mill Creek	1/6/2010	253586	KINGSFORD RETAIL CENTER	LAT EXT	480	(1,044)
Mill Creek	4/28/2010	238421	6840 DIXIE HWY OUTLOT	LAT EXT	2,100	(4,568)
Mill Creek	6/30/2010	362658	MAINTENANCE WORK FY10B - MILL CREEK	SCAPCREDIT		6,216
Mill Creek	7/2/2010	259408	FAMILY DOLLAR 5105 DIXIE	LAT EXT	1,200	(2,610)
Mill Creek	7/23/2010	264294	SAINT PETER THE APOSTLE CATHOL	LAT EXT	2,000	(4,350)
Mill Creek	10/12/2010	276215	FAMILY DOLLAR - KRISTIN WAY	LAT EXT	400	(870)
Mill Creek	12/31/2010	359325	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
Mill Creek	12/31/2010	362664	MAINTENANCE WORK FY11A - MILL CREEK	SCAPCREDIT		22,745
Mill Creek	12/31/2010	359394	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		4,000
Mill Creek	6/30/2011	362671	FY11 SONNE AVE PS REHABILITATION	SCAPCREDIT		11,745
Mill Creek	6/30/2011	320916	MAINTENANCE WORK FY11B - MILL CREEK	SCAPCREDIT		120,800
Mill Creek	10/4/2011	299399	FAMILY DOLLAR - GREENWOOD RD	LAT EXT	800	(1,740)

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Mill Creek	11/9/2011	309018	PRP PERFORMING ARTS ADDITION	LAT EXT	1,134	(2,466)
Mill Creek	12/31/2011	359395	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12,000
Mill Creek	12/31/2011	359326	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
Mill Creek	12/31/2011	362676	MAINTENANCE WORK FY12A - MILL CREEK	SCAPCREDIT		4,800
Mill Creek	1/19/2012	319096	CRACKER BARREL OLD COUNTRY	LAT EXT	6,000	(13,050)
Mill Creek	3/16/2012	SC1005678	CONTRACTED WORK FY12 - MILL CREEK	SCAPCREDIT		22
Mill Creek	5/21/2012	262545	DIXIE MANOR SHOPPING CENTER	LAT EXT	985	(2,099)
Mill Creek	6/26/2012	300374	FORT KNOX FEDERAL CREDIT UNION	LAT EXT	400	(870)
Mill Creek	6/30/2012	362680	FY12 MILL CREEK REHAB	SCAPCREDIT		4,133
Mill Creek	6/30/2012	361693	MAINTENANCE WORK FY12B - MILL CREEK	SCAPCREDIT		81,675
Mill Creek	7/24/2012	231800	PIONEER MOBILE HOME PARK	LAT EXT	11,200	(24,360)
Mill Creek	9/18/2012	237457	WAVERLY HILLS	LAT EXT	400	(870)
Mill Creek	10/19/2012	341883	NHK SPRING PRECISION	LAT EXT	17,800	(38,715)
Mill Creek	12/5/2012	334997	BEECHLAND BAPTIST CHURCH	LAT EXT	2,715	(5,905)
Mill Creek	12/31/2012	359386	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
Mill Creek	12/31/2012	362685	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		22,996
Mill Creek	12/31/2012	359327	MAINTENANCE WORK FY13A - MILL CREEK	SCAPCREDIT		148,000
Mill Creek	1/18/2013	343763	SOUTHEAST CHRISTIAN CHURCH SW	LAT EXT	6,000	(13,050)
Mill Creek	3/20/2013	224875	ASHBY GREEN APARTMENT HOMES	LAT EXT	36,400	(79,170)
Mill Creek	6/6/2013	265944	RIVERPORT PHASE 4A - MICHELIN	LAT EXT	400	(870)
Mill Creek	6/30/2013	SC1082559	MAINTENANCE WORK FY13 JAN-JUN-MILL CREEK	SCAPCREDIT		32,425
Mill Creek	9/10/2013	314887	DAYTON FREIGHT	LAT EXT	1,200	(2,610)
Mill Creek	9/26/2013	13LE1014	LOUISVILLE FREE PUBLIC LIBRARY SOUTHWEST	LAT EXT	2,400	(5,220)
Mill Creek	10/3/2013	357140	FAMILY DOLLAR CANE RUN ROAD	LAT EXT	832	(1,810)
Mill Creek	12/30/2013	SC1082560	MAINTENANCE WORK FY14 JUL-DEC-MILL CREEK	SCAPCREDIT		11,451
Mill Creek	1/3/2014	13LE1007	Cane Run Generating Station	LAT EXT	495	(1,077)
Mill Creek	1/29/2014	13LE1171	SINGLE FAMILY HOME 3700 ROMANIA DR	LAT EXT	400	(870)
Mill Creek	6/30/2014	SC1082562	MAINTENANCE WORK FY14 JAN-JUN-MILL CREEK	SCAPCREDIT		7,753
Mill Creek	7/23/2014	14LE1120	Shively Center - Additional Office Space	LAT EXT	400	(870)
Mill Creek	8/18/2014	14LE1124	Raising Canes - 5212 Dixie Highway	LAT EXT	1,400	(3,045)
Mill Creek	9/15/2014	14LE1075	Global Drive Warehouse Addition	LAT EXT	1,200	(2,610)
Mill Creek	9/16/2014	14LE1171	Planet Fitness	LAT EXT	3,400	(7,395)
Mill Creek	11/25/2014	14LE1164	Near Office Building Expansion	LAT EXT	795	(1,729)
Mill Creek	12/30/2014	SC1082563	MAINTENANCE WORK FY15 JUL-DEC-MILL CREEK	SCAPCREDIT		4,491
Mill Creek	3/10/2015	SC1005536	FY13 ROSA TERRACE II REHABILITATION	SCAPCREDIT		156,635
Mill Creek	6/30/2015	LE941671	MAINTENANCE WORK FY15 JAN-JUN-MILL CREEK	SCAPCREDIT		(870)
Mill Creek	6/30/2015	SC1082564	Key Oil	LAT EXT	400	4,861
Mill Creek	7/31/2015	SC1003690	CONTRACTED WORK FY15 - MILL CREEK	SCAPCREDIT		58



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Mill Creek	8/10/2015	LE937142	ZAXBYS DIXIE HWY	LAT EXT	924	(2,010)
Mill Creek	10/5/2015	LE938172	Thorntons Convenience Store/Gas Station	LAT EXT	1,000	(870)
Mill Creek	10/5/2015	LE945721	Misa Metals	LAT EXT	400	(2,175)
Mill Creek	10/28/2015	LE947311	Chick-fil-A	LAT EXT	1,500	(3,263)
Mill Creek	11/23/2015	LE959150	Misa Metals Processing Warehouse Expansion	LAT EXT	1,000	(2,175)
Mill Creek	12/14/2015	LE942399	Restaurant - 6900 Dixie Highway	LAT EXT	860	(1,871)
Mill Creek	12/30/2015	SC1082566	MAINTENANCE WORK FY16 JUL-DEC-MILL CREEK	SCAPCREDIT		6,892
Mill Creek	2/22/2016	LE971379	Discount Tires	LAT EXT	400	(870)
Mill Creek	5/9/2016	LE967622	Thorntons - 4136 Cane Run Road	LAT EXT	1,000	(9,135)
Mill Creek	5/9/2016	LE953021	1719 Leroy Ave. Town Homes	LAT EXT	4,200	(2,175)
Mill Creek	6/30/2016	SC1082566	MAINTENANCE WORK FY16 JAN-JUN-MILL CREEK	SCAPCREDIT		3,523
Mill Creek	7/28/2016	LE944727	Britz Deer Hollow Lane	LAT EXT	800	(1,740)
Mill Creek	12/30/2016	SC1082567	MAINTENANCE WORK FY17 JUL-DEC-MILL CREEK	SCAPCREDIT		12,857
Mill Creek	2/20/2017	SC1107184	CONTRACTED WORK FY17 - MILL CREEK	SCAPCREDIT		11
Mill Creek	4/7/2017	LE978336	Blue Iguauna Car Wash	LAT EXT	20,217	(43,972)
Mill Creek	6/30/2017	SC1082568	MAINTENANCE WORK FY17 JAN-JUN-MILL CREEK	SCAPCREDIT		5,103
Mill Creek	10/19/2017	LE991553	Greenwood Plaza	LAT EXT	1,256	(2,732)
Mill Creek	11/13/2017	LE1025905	RussTech, Inc	LAT EXT	875	(1,903)
Mill Creek	12/30/2017	SC1082569	MAINTENANCE WORK FY18 JUL-DEC-MILL CREEK	SCAPCREDIT		27,293
Mill Creek	3/8/2018	LE986760	Algood Food Company Warehouse	LAT EXT	750	(1,831)
Mill Creek	5/15/2018	LE1049057	Advanced ENT	LAT EXT	705	(1,533)
Mill Creek	4/10/2019	LE995375	1105 Dorsey lane	LAT EXT	10,300	(22,403)
Mill Creek	4/12/2019	LE1041776	Terry Road Gas & Retail	LAT EXT	788	(1,714)
Mill Creek	10/31/2019	LE1039415	Delcour Multi-Family Apartments	LAT EXT	60,400	(131,370)
Mill Creek Total						438,344
Northern Ditch	12/31/2007	359404	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		28,000
Northern Ditch	11/1/2008	235569	MAINTENANCE WORK FY06 AUG-FY09 NOV - NORTHERN DIT	SCAPCREDIT		11,147
Northern Ditch	11/25/2008	236363	FY09 NORTHERN DITCH INT REHAB PH1	SCAPCREDIT		108,760
Northern Ditch	12/31/2008	SC1011338	MAINTENANCE WORK FY09A - NORTHERN DITCH	SCAPCREDIT		11
Northern Ditch	6/30/2009	SC1011339	MAINTENANCE WORK FY09B - NORTHERN DITCH	SCAPCREDIT		1,884
Northern Ditch	12/31/2009	SC1011340	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		1,177
Northern Ditch	12/31/2009	359339	MAINTENANCE WORK FY10A - NORTHERN DITCH	SCAPCREDIT		4,000
Northern Ditch	3/5/2010	234678	THE LIGHTHOUSE PROMISE COMPLEX	LAT EXT	2,925	(6,144)
Northern Ditch	6/30/2010	SC1011343	MAINTENANCE WORK FY10B - NORTHERN DITCH	SCAPCREDIT		2,552
Northern Ditch	12/31/2010	284728	SUBWAY - NEW CUT RD	LAT EXT	1,314	(2,858)
Northern Ditch	12/31/2010	SC1011344	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		2,456
Northern Ditch	12/31/2010	359340	MAINTENANCE WORK FY11A - NORTHERN DITCH	SCAPCREDIT		4,000
Northern Ditch	6/28/2011	320908	FY11 PARKVIEW ESTATES REHABILITATION	SCAPCREDIT		36

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Northern Ditch	6/30/2011	SC1011345	MAINTENANCE WORK FY11B - NORTHERN DITCH	SCAPCREDIT		1,989
Northern Ditch	11/11/2011	312810	WILLOW PLACE APT COMMUNITY CEN	LAT EXT	400	(870)
Northern Ditch	12/31/2011	359405	MAINTENANCE WORK FY12A - NORTHERN DITCH	SCAPCREDIT		12,000
Northern Ditch	12/31/2011	359341	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		24,000
Northern Ditch	12/31/2011	SC1011346	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		911
Northern Ditch	1/26/2012	315723	JCPS EARLY CHILDHOOD DEVELOP	LAT EXT	6,000	(13,050)
Northern Ditch	3/21/2012	312057	DOLLAR GENERAL - MEDALLION CT	LAT EXT	400	(870)
Northern Ditch	6/30/2012	SC1011336	MAINTENANCE WORK FY12B - NORTHERN DITCH	SCAPCREDIT		7,893
Northern Ditch	8/20/2012	312659	KROGER L-350 FUEL STATION	LAT EXT	400	(870)
Northern Ditch	12/31/2012	14SC1004	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		4,239
Northern Ditch	12/31/2012	359343	MAINTENANCE WORK FY13A - NORTHERN DITCH	SCAPCREDIT		24,000
Northern Ditch	6/30/2013	SC1082570	MAINTENANCE WORK FY13 JAN-JUN-NORTH DITCH	SCAPCREDIT		6,459
Northern Ditch	12/5/2013	13LE1147	CARLON ROOFING	LAT EXT	982	(2,158)
Northern Ditch	12/12/2013	13LE1126	JENNINGS CROSSING TRACT 3	LAT EXT	2,100	(4,568)
Northern Ditch	12/30/2013	SC1082571	MAINTENANCE WORK FY14 JUL-DEC-NORTH DITCH	SCAPCREDIT		2,707
Northern Ditch	6/30/2014	SC1082572	MAINTENANCE WORK FY14 JAN-JUN-NORTH DITCH	SCAPCREDIT		9,044
Northern Ditch	10/21/2014	SC1006180	CONTRACTED WORK FY14 - NORTHERN DITCH	SCAPCREDIT		5
Northern Ditch	12/29/2014	14LE1136	Single Family - 5220 Petersburg Road	LAT EXT	400	(870)
Northern Ditch	12/29/2014	14LE1065	Jennings Crossings Tracts 1 & 2	LAT EXT	1,440	(3,132)
Northern Ditch	12/30/2014	SC1082573	MAINTENANCE WORK FY15 JUL-DEC-NORTH DITCH	SCAPCREDIT		8,330
Northern Ditch	5/20/2015	LE916532	Trei Louisville - HVAC Distributors	LAT EXT	4,225	(9,189)
Northern Ditch	6/30/2015	SC1082575	MAINTENANCE WORK FY15 JAN-JUN-NORTH DITCH	SCAPCREDIT		5,564
Northern Ditch	8/14/2015	LE947316	Heimbrook I	LAT EXT	400	(870)
Northern Ditch	8/14/2015	LE947318	Heimbrook II	LAT EXT	400	(870)
Northern Ditch	12/30/2015	SC1082576	MAINTENANCE WORK FY16 JUL-DEC-NORTH DITCH	SCAPCREDIT		6,074
Northern Ditch	1/5/2016	LE968510	Hugh Ave. Warehouse	LAT EXT	400	(870)
Northern Ditch	6/30/2016	SC1082577	MAINTENANCE WORK FY16 JAN-JUN-NORTH DITCH	SCAPCREDIT		5,519
Northern Ditch	11/7/2016	LE978344	Townplace Suites	LAT EXT	9,500	(20,663)
Northern Ditch	12/30/2016	SC1082578	MAINTENANCE WORK FY17 JUL-DEC-NORTH DITCH	SCAPCREDIT		9,266
Northern Ditch	6/30/2017	SC1082579	MAINTENANCE WORK FY17 JAN-JUN-NORTH DITCH	SCAPCREDIT		6,441
Northern Ditch	12/30/2017	SC1082580	MAINTENANCE WORK FY18 JUL-DEC-NORTH DITCH	SCAPCREDIT		7,810
Northern Ditch	4/9/2018	LE1042541	5051 Poplar Level	LAT EXT	7,600	(16,530)
Northern Ditch	8/28/2018	LE1053453	Durrett Lane & Preston Highway Convenience Stores/G	LAT EXT	1,980	(4,089)
Northern Ditch	10/10/2018	LE1056400	Thomas Car Wash	LAT EXT	4,570	(10,157)
Northern Ditch	10/22/2018	LE1032761	TRACKSIDE at Churchill Downs	LAT EXT	13,400	(29,145)
Northern Ditch	6/18/2019	SC1107198	CONTRACTED WORK FY19 - NORTHERN DITCH	SCAPCREDIT		14,321
Northern Ditch Total						192,802
Ohio River FM	12/31/2007	359344	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		4,000



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Ohio River FM	12/31/2007	359433	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		56,000
Ohio River FM	11/1/2008	235572	MAINTENANCE WORK FY06 AUG-FY09 NOV - ORFM	SCAPCREDIT		19,826
Ohio River FM	12/31/2008	362643	MAINTENANCE WORK FY09A - ORFM	SCAPCREDIT		2
Ohio River FM	6/30/2009	362650	MAINTENANCE WORK FY09B - ORFM	SCAPCREDIT		3,835
Ohio River FM	12/31/2009	362654	MAINTENANCE WORK FY10A - ORFM	SCAPCREDIT		7,330
Ohio River FM	5/18/2010	263548	SINGLE FAMILY CONNECTION	LAT EXT	400	(870)
Ohio River FM	6/28/2010	213488	NORTHEAST CHRISTIAN CHURCH	LAT EXT	10,000	(21,750)
Ohio River FM	6/30/2010	362660	MAINTENANCE WORK FY10B - ORFM	SCAPCREDIT		6,773
Ohio River FM	8/30/2010	254919	TRILOGY HEALTH SERVICES, LLC	LAT EXT	8,200	(17,835)
Ohio River FM	12/31/2010	362665	MAINTENANCE WORK FY11A - ORFM	SCAPCREDIT		181
Ohio River FM	6/30/2011	362672	MAINTENANCE WORK FY11B - ORFM	SCAPCREDIT		4,139
Ohio River FM	9/20/2011	280837	SPRINGHURST TOWNE CTR LOT C	LAT EXT	400	(870)
Ohio River FM	9/30/2011	320920	FY11 SHADOW WOOD // REHABILITATION	SCAPCREDIT		14,279
Ohio River FM	10/14/2011	311412	SPRINGHURST CHEVROLET	LAT EXT	855	(1,860)
Ohio River FM	12/31/2011	359434	MAINTENANCE WORK FY12A - ORFM	SCAPCREDIT		16,000
Ohio River FM	12/31/2011	359345	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
Ohio River FM	12/31/2011	362677	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		7,268
Ohio River FM	3/1/2012	320921	FY12 DERINGTON COURT // REHABILITATION	SCAPCREDIT		56,208
Ohio River FM	3/5/2012	213450	GLENVIEW PARK SUBD SECTION 1	LAT EXT	4,400	(12,180)
Ohio River FM	3/5/2012	187028	GLENVIEW PARK SUB, SEC 2	LAT EXT	5,600	(9,570)
Ohio River FM	3/12/2012	322455	FIRST LADY NAILS	LAT EXT	400	(870)
Ohio River FM	6/30/2012	362681	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		19,941
Ohio River FM	6/30/2012	SC1011315	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		19,941
Ohio River FM	7/5/2012	292239	SPRINGHURST RESTAURANT/ RETAIL	LAT EXT	3,440	(7,482)
Ohio River FM	12/11/2012	323821	TIRE DISCOUNTERS WESTPORT RD	LAT EXT	400	(870)
Ohio River FM	12/18/2012	341319	FY13 PROSPECT MANHOLE REHAB	SCAPCREDIT		(2,664)
Ohio River FM	12/18/2012	363238	RAISING CANES RETAIL CENTER	LAT EXT	1,225	72,703
Ohio River FM	12/31/2012	359346	MAINTENANCE WORK FY13A - ORFM	SCAPCREDIT		24,000
Ohio River FM	12/31/2012	363235	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		41,653
Ohio River FM	12/31/2012	362686	FY13 MUDDY FORK WH REHAB	SCAPCREDIT		1,161
Ohio River FM	3/12/2013	322458	KROGER L-707 STORE EXPANSION	LAT EXT	400	(870)
Ohio River FM	5/13/2013	360282	SINGLE FAMILY 3419 HILLVALE RD	LAT EXT	400	(870)
Ohio River FM	6/21/2013	343729	RETAIL & RESTAURANT	LAT EXT	3,500	(7,613)
Ohio River FM	6/30/2013	SC1082581	MAINTENANCE WORK FY13 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		279
Ohio River FM	11/5/2013	13LE1145	SINGLE FAMILY 3930 1/2 OLD BROWNSBORO RD	LAT EXT	400	(870)
Ohio River FM	11/7/2013	334154	GLENVIEW PARK SUBD SEC 4	LAT EXT	3,600	(7,830)
Ohio River FM	11/20/2013	13LE1161	Single Family Residence 3221 Woodside Rd	LAT EXT	400	(870)
Ohio River FM	12/30/2013	SC1082582	MAINTENANCE WORK FY14 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		1,302

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Ohio River FM	12/31/2013	13LE1024	Overlook at Beech Spring Farm Sec 4	LAT EXT	5,600	(12,180)
Ohio River FM	3/11/2014	199896	SPRINGDALE OFFICE BUILDING	LAT EXT	4,210	(9,157)
Ohio River FM	5/13/2014	352090	DRURY INN	LAT EXT	11,508	(25,030)
Ohio River FM	5/16/2014	225863	SPRING FARM LAKES SEC 1	LAT EXT	4,800	(10,440)
Ohio River FM	6/30/2014	SC1082583	MAINTENANCE WORK FY14 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		1,293
Ohio River FM	9/22/2014	177756	SUMMIT GARDENS PHASE 1	LAT EXT	32,000	(69,600)
Ohio River FM	11/10/2014	14LE1121	Riverside Sewer Extension	LAT EXT	1,200	(2,610)
Ohio River FM	12/30/2014	SC1082584	MAINTENANCE WORK FY15 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		4,394
Ohio River FM	12/31/2014	SC1006181	CONTRACTED WORK FY14 - ORFM	SCAPCREDIT		1,654
Ohio River FM	1/16/2015	13LE1071	SPRING FARM LAKE SEC 2	LAT EXT	6,000	(13,050)
Ohio River FM	2/12/2015	352634	BAUER PROPERTY	LAT EXT	2,920	(6,351)
Ohio River FM	6/30/2015	SC1082585	MAINTENANCE WORK FY15 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		2,547
Ohio River FM	7/12/2015	SC9883704	FY13 PROSPECT I&I REHABILITATION - PHASE IA	SCAPCREDIT		1,034,758
Ohio River FM	8/5/2015	SC1003730	FY15 RIVER ROAD I/ REMEDIATION	SCAPCREDIT		120,418
Ohio River FM	10/21/2015	LE929244	Summit Gardens Phase 2	LAT EXT	18,000	(39,150)
Ohio River FM	11/19/2015	SC1006195	CONTRACTED WORK FY15 - ORFM	SCAPCREDIT		1
Ohio River FM	12/14/2015	LE938166	Spring Farm Lake Section 3	LAT EXT	3,200	(6,960)
Ohio River FM	12/30/2015	SC1082586	MAINTENANCE WORK FY16 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		1,478
Ohio River FM	4/6/2016	LE950063	Panda Express - 10600 Westport Road	LAT EXT	2,000	(4,350)
Ohio River FM	6/30/2016	SC1082589	MAINTENANCE WORK FY16 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		3,171
Ohio River FM	6/30/2016	SC1082587	MAINTENANCE WORK FY17 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		460
Ohio River FM	8/10/2016	SC1003696	CONTRACTED WORK FY16 - ORFM	SCAPCREDIT		17,566
Ohio River FM	10/6/2016	SC1003728	FY16 PROSPECT I&I REHABILITATION - PHASE IB	SCAPCREDIT		199,036
Ohio River FM	11/16/2016	LE923204	Indian Springs Hotel	LAT EXT	13,000	(28,275)
Ohio River FM	6/30/2017	SC1082590	MAINTENANCE WORK FY17 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		1,630
Ohio River FM	12/30/2017	SC1082592	MAINTENANCE WORK FY18 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		3,330
Ohio River FM	6/20/2018	SC1107187	CONTRACTED WORK FY18 - ORFM	SCAPCREDIT		656
Ohio River FM	7/30/2019	SC1107194	CONTRACTED WORK FY19 - ORFM	SCAPCREDIT		32,673
Ohio River FM	9/12/2019	LE997630	QSR Automations, Inc.	LAT EXT	3,300	(7,178)
Ohio River FM	12/6/2019	LE971285	Cityscape - Simcoe Lane	LAT EXT	66,700	(145,073)
Ohio River FM	6/16/2020	LE937450	Poplar Hill Place	LAT EXT	4,000	(6,700)
Ohio River FM	10/14/2021	LE1056413	Schuhmann - Blankenbaker Lane	LAT EXT	800	(1,740)
Ohio River FM Total						1,332,299
Pond Creek	11/1/2008	235574	MAINTENANCE WORK FY06 AUG-FY08 NOV - POND CREEK	SCAPCREDIT		7,1782
Pond Creek	12/31/2008	359347	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
Pond Creek	12/31/2008	359438	MAINTENANCE WORK FY09A - POND CREEK	SCAPCREDIT		4,000
Pond Creek	12/31/2008	SC1011298	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		1,913
Pond Creek	6/30/2009	SC1011299	MAINTENANCE WORK FY09B - POND CREEK	SCAPCREDIT		6,403



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Pond Creek	12/31/2009	359348	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		4,000
Pond Creek	12/31/2009	SC1011305	MAINTENANCE WORK FY10A - POND CREEK	SCAPCREDIT		22,337
Pond Creek	12/31/2009	359439	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
Pond Creek	2/17/2010	192513	BANNON CROSSINGS SECTION 3A-1	LAT EXT	800	(1,740)
Pond Creek	3/26/2010	219734	DSL LIFE LONG LEARNING CENTER	LAT EXT	900	(1,958)
Pond Creek	4/27/2010	261115	EMERGENCY RESTORATION	LAT EXT	400	(870)
Pond Creek	6/30/2010	SC1011307	MAINTENANCE WORK FY10B - POND CREEK	SCAPCREDIT		11,060
Pond Creek	10/13/2010	276977	DADISMAN BUILDERS-POPLAR TREE	LAT EXT	400	(870)
Pond Creek	12/1/2010	266833	THORNTONS @ PRESTON HWY	LAT EXT	400	(870)
Pond Creek	12/29/2010	280751	NOTTINGTON HILLS SEC 1	LAT EXT	4,400	(9,570)
Pond Creek	12/31/2010	359350	MAINTENANCE WORK FY11A - POND CREEK	SCAPCREDIT		12,000
Pond Creek	12/31/2010	SC1011308	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		19,773
Pond Creek	1/13/2011	187739	GLENGARRY INDUSTRIAL PARK	LAT EXT	4,300	(9,353)
Pond Creek	3/21/2011	277777	TIRE DISCOUNTERS - BOERSTE WAY	LAT EXT	2,960	(6,438)
Pond Creek	6/30/2011	SC1011309	MAINTENANCE WORK FY11B - POND CREEK	SCAPCREDIT		10,562
Pond Creek	9/14/2011	304408	UPS SUPPLY CHAIN SOLUTIONS #7	LAT EXT	2,250	(4,894)
Pond Creek	9/27/2011	320918	FY12 EDESL III REHABILITATION	SCAPCREDIT		106,700
Pond Creek	11/4/2011	313444	PLANET FITNESS - JEFF BLVD	LAT EXT	1,600	(3,480)
Pond Creek	11/29/2011	312391	LONGHORN STEAKHOUSE RESTAURANT	LAT EXT	4,840	(10,527)
Pond Creek	12/29/2011	320919	FY12 LANTANA II REHABILITATION	SCAPCREDIT		5,000
Pond Creek	12/31/2011	359351	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		20,000
Pond Creek	12/31/2011	SC1011310	MAINTENANCE WORK FY12A - POND CREEK	SCAPCREDIT		5,380
Pond Creek	2/28/2012	310845	ZAXBY'S RESTAURANT	LAT EXT	3,750	(8,156)
Pond Creek	3/13/2012	255044	ISA-RECYCLING CENTER	LAT EXT	400	(870)
Pond Creek	3/19/2012	312814	MILLER TRANSPORTATION	LAT EXT	1,800	(3,915)
Pond Creek	4/16/2012	324554	NORTONS TEMPORARY OFFICE	LAT EXT	900	(1,958)
Pond Creek	6/19/2012	234102	ETHOS AT VALLEY FARM SR LIVING	LAT EXT	7,050	(15,334)
Pond Creek	6/21/2012	322367	SHEPHERDS CARE MEMORY HOME	LAT EXT	2,000	(4,350)
Pond Creek	6/30/2012	SC1011313	MAINTENANCE WORK FY12B - POND CREEK	SCAPCREDIT		3,877
Pond Creek	8/6/2012	307332	LOUISVILLE INDUSTRIAL BLDG B	LAT EXT	2,520	(5,481)
Pond Creek	8/10/2012	279860	CONTRACTED WORK FY12 - POND CREEK	SCAPCREDIT		(20,880)
Pond Creek	8/10/2012	SC1005684	BANNON CROSSINGS SEC 3B-2	LAT EXT	9,800	3,812
Pond Creek	8/13/2012	312053	DOLLAR GENERAL - CLEARWATER FA	LAT EXT	400	(870)
Pond Creek	10/12/2012	343455	SINGLE FAMILY 1812 GREYLING DR	LAT EXT	400	(870)
Pond Creek	11/9/2012	243109	OVERBROOK APARTMENTS	LAT EXT	41,200	(89,610)
Pond Creek	12/31/2012	14SC1005	MAINTENANCE WORK FY13A - POND CREEK	SCAPCREDIT		25,984
Pond Creek	12/31/2012	359354	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		56,000
Pond Creek	2/20/2013	329624	COPART	LAT EXT	400	(870)

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CREDIT BASIN	RELEASE DATE	APPLICATION	APPLICATION NAME	TYPE	FLOW	APPROVED CREDIT REQUIRED OR FLOW REDUCTION
Pond Creek	4/8/2013	320924	FY12 LEA ANN WAY INTERCEPTOR I&RE	SCAPCREDIT		1,195,676
Pond Creek	4/15/2013	348982	SOUTHGATE BUSINESS CTR RETAIL	LAT EXT	2,060	(4,481)
Pond Creek	5/2/2013	346082	ZAXBYS	LAT EXT	2,065	(4,491)
Pond Creek	6/30/2013	SC1082593	MAINTENANCE WORK FY13 JAN-JUN-POND CREEK	SCAPCREDIT		41,995
Pond Creek	7/2/2013	335385	HARRISON LOW PRESSURE S/S	LAT EXT	1,600	(3,480)
Pond Creek	7/12/2013	SC1005534	FY13 PICADILLY I/II REHABILITATION	SCAPCREDIT		187,564
Pond Creek	8/16/2013	320940	4 RESIDENCE SFU 7821 MANSLUK	LAT EXT	400	(870)
Pond Creek	8/27/2013	SC1005538	CONTRACTED WORK FY13 - POND CREEK	SCAPCREDIT		18,958
Pond Creek	9/6/2013	324886	PNC BANK	LAT EXT	400	(870)
Pond Creek	9/6/2013	361336	REMAISSANCE SOUTH BUSINESS	LAT EXT	540	(1,175)
Pond Creek	9/26/2013	13LE1083	SINGLE FAMILY HOME 5402 (H) E MANSLUK RD	LAT EXT	400	(870)
Pond Creek	10/7/2013	331546	BLAIR JEFFERSON BLVD	LAT EXT	3,500	(7,613)
Pond Creek	11/12/2013	SC1005319	FY13 FEGENBUSH I/II REHABILITATION	SCAPCREDIT		226,201
Pond Creek	12/9/2013	353125	PEGASUS TRANSPORTATION	LAT EXT	250	(544)
Pond Creek	12/10/2013	341439	PRESTON GARDENS APTS	LAT EXT	22,200	(48,285)
Pond Creek	12/10/2013	308206	APPLEGATE FARMS	LAT EXT	57,200	(124,410)
Pond Creek	12/30/2013	SC1082594	MAINTENANCE WORK FY14 JUL-DEC-POND CREEK	SCAPCREDIT		19,491
Pond Creek	2/14/2014	13LE1179	TIMBERBEND SUBDIVISION SEC 5B	LAT EXT	6,400	(13,920)
Pond Creek	4/10/2014	13LE1035	REMAISSANCE SOUTH BUSINESS PARK TRACT 4	LAT EXT	5,415	(11,778)
Pond Creek	4/22/2014	13LE1115	VERIZON-OUTER LOOP	LAT EXT	400	(870)
Pond Creek	4/24/2014	348014	ASHTON PARK TOWN HOMES	LAT EXT	9,000	(19,575)
Pond Creek	5/16/2014	280180	LOUISVILLE INDUSTRIAL CTR F	LAT EXT	2,480	(5,394)
Pond Creek	5/28/2014	14LE1085	Williams Properties - Self Storage Facility	LAT EXT	400	(870)
Pond Creek	6/9/2014	13LE1034	6300 GEIL LANE WAREHOUSE	LAT EXT	720	(1,566)
Pond Creek	6/12/2014	14LE1052	Stor-Alli Fairdale	LAT EXT	400	(870)
Pond Creek	6/30/2014	SC1082595	MAINTENANCE WORK FY14 JAN-JUN-POND CREEK	SCAPCREDIT		14,457
Pond Creek	7/7/2014	284215	HURSTBOURNE POINTE APTS	LAT EXT	9,600	(20,880)
Pond Creek	8/25/2014	344230	AUSTIN PARK APARTMENTS PH6	LAT EXT	27,600	(60,030)
Pond Creek	8/29/2014	14LE1177	Valley Farm Subd.	LAT EXT	-	-
Pond Creek	11/13/2014	13LE1105	JEFFERSON COMMONS	LAT EXT	17,075	(37,138)
Pond Creek	11/18/2014	SC1005323	FY13 FERN CREEK I/II REHABILITATION	SCAPCREDIT		551,108
Pond Creek	12/30/2014	SC1082596	MAINTENANCE WORK FY15 JUL-DEC-POND CREEK	SCAPCREDIT		26,095
Pond Creek	1/13/2015	13LE1017	APEX ON PRESTON APT HOMES(Formerly CITYSCAPE APTS	LAT EXT	84,400	(183,570)
Pond Creek	2/6/2015	14LE1145	Murphy USA - Outer Loop	LAT EXT	2,000	(4,350)
Pond Creek	3/10/2015	SC1005541	FY13 STONY BROOK I/II REHABILITATION	SCAPCREDIT		345,397
Pond Creek	3/11/2015	SC995942	FY13 CAVENAVE I/II REMEDIATION	SCAPCREDIT		225,645
Pond Creek	4/29/2015	354209	COOPER FARMS SEC 11A	LAT EXT	13,200	(28,710)
Pond Creek	4/29/2015	354207	COOPER FARMS SEC 11B	LAT EXT	12,400	(26,970)



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Pond Creek	5/14/2015	LE939897	Thornfoss - 8405 National Turnpike	LAT EXT	1,000	(2,175)
Pond Creek	6/30/2015	SC1082597	MAINTENANCE WORK FY15 JAN-JUN-POND CREEK	SCAPCREDIT		10,279
Pond Creek	7/28/2015	LE948692	Jim's Express Wash	LAT EXT	10,500	(22,838)
Pond Creek	8/7/2015	LE951121	Algeler Site	LAT EXT	400	(870)
Pond Creek	8/25/2015	13LE1086	WOODS OF PENN RUN OFFSITE SS	LAT EXT	1,000	(2,175)
Pond Creek	10/1/2015	LE950066	Challenger Lifts New Assembly	LAT EXT	1,010	(2,197)
Pond Creek	10/2/2015	13LE1140	JEFFERSON POST APARTMENTS	LAT EXT	28,800	(62,640)
Pond Creek	10/6/2015	LE950068	Single Family Home - 1707 Greyling Drive	LAT EXT	400	(870)
Pond Creek	10/6/2015	LE950067	Single Family Home - 1801 Greyling Drive	LAT EXT	400	(870)
Pond Creek	12/30/2015	SC1082598	CATALPA SPRINGS	LAT EXT	2,800	13,994
Pond Creek	12/30/2015	14LE1116	MAINTENANCE WORK FY16 JUL-DEC-POND CREEK	SCAPCREDIT		(6,090)
Pond Creek	2/4/2016	13LE1056	MORNING POINTE AT HURSTBOURNE	LAT EXT	13,000	(28,275)
Pond Creek	2/12/2016	358356	WOODS OF PENN RUN Section 1	LAT EXT	18,800	(40,890)
Pond Creek	2/22/2016	LE971260	Louisville Free Public Library South Central	LAT EXT	2,325	(5,057)
Pond Creek	3/14/2016	LE947322	Renaissance South Business Park Tract 5B	LAT EXT	10,140	(22,055)
Pond Creek	3/22/2016	LE971269	Renaissance South Business Park, Tract 5	LAT EXT	9,336	(20,306)
Pond Creek	5/17/2016	SC1003699	CONTRACTED WORK FY16 - POND CREEK	SCAPCREDIT		36,063
Pond Creek	6/6/2016	LE936598	Jefferson Commerce Center Tract 1A	LAT EXT	5,250	(11,419)
Pond Creek	6/21/2016	14LE1170	AUSTIN PARK SS PHASE 8	LAT EXT	16,800	(67,420)
Pond Creek	6/21/2016	LE918484	Austin Park Phase 7 & 8	LAT EXT	26,400	(66,540)
Pond Creek	6/30/2016	SC1082599	MAINTENANCE WORK FY16 JAN-JUN-POND CREEK	SCAPCREDIT		12,650
Pond Creek	8/5/2016	SC1003087	FY14 HILLRIDGE III REMEDIATION	SCAPCREDIT		308,184
Pond Creek	8/20/2016	SC939830	FY15 LEA ANN WAY WEST (LAWW) III REHABILITATION	SCAPCREDIT		538,285
Pond Creek	8/31/2016	SC1003292	FY14 LEA ANN WAY WEST (LAWW) QUAD3 III REMEDIATION	SCAPCREDIT		311,526
Pond Creek	10/24/2016	SC1006197	CONTRACTED WORK FY15 - POND CREEK	SCAPCREDIT		310
Pond Creek	10/26/2016	SC1006182	CONTRACTED WORK FY14 - POND CREEK	SCAPCREDIT		8,390
Pond Creek	10/31/2016	SC1005631	FY14 LEA ANN WAY WEST (LAWW) QUAD4 I/II REHAB	SCAPCREDIT		692,905
Pond Creek	10/31/2016	SC1005639	FY16 SILVER HEIGHTS SEWER REHAB	SCAPCREDIT		284,936
Pond Creek	12/30/2016	SC1082601	MAINTENANCE WORK FY17 JUL-DEC-POND CREEK	SCAPCREDIT		14,699
Pond Creek	1/17/2017	LE942002	Preston Crossing Apartments	LAT EXT	46,400	(100,920)
Pond Creek	2/2/2017	LE942229	Jefferson Commerce Center Bldg.2	LAT EXT	3,150	(6,851)
Pond Creek	3/28/2017	LE971220	Woods of Penn Run, Sec. 2	LAT EXT	20,000	(43,500)
Pond Creek	6/30/2017	SC1082602	MAINTENANCE WORK FY17 JAN-JUN-POND CREEK	SCAPCREDIT		14,076
Pond Creek	7/6/2017	LE967615	Cooper Farms Section 12	LAT EXT	21,200	(46,110)
Pond Creek	7/31/2017	SC1107179	CONTRACTED WORK FY17 - POND CREEK	SCAPCREDIT		39
Pond Creek	9/20/2017	LE1020224	Renaissance South Business Park Tract 11	LAT EXT	6,000	(13,050)
Pond Creek	12/30/2017	SC1082603	MAINTENANCE WORK FY18 JUL-DEC-POND CREEK	SCAPCREDIT		10,803
Pond Creek	2/19/2018	LE1016885	Poplar Logistics	LAT EXT	3,212	(6,966)

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Pond Creek	3/15/2018	LE1029503	Texas Roadhouse	LAT EXT	700	(1,523)
Pond Creek	4/9/2018	LE1063266	Yokomori Manufacturing Facility	LAT EXT	1,750	(3,806)
Pond Creek	6/4/2018	SC1107183	FY18 MOUNT WASHINGTON ROAD PS REHABILITATION	SCAPCREDIT		48,610
Pond Creek	6/30/2018	SC1096902	FY17 ADMIRAL PS	SCAPCREDIT		977,768
Pond Creek	2/14/2019	LE1049609	Poplar Logistics Center - Building 3	LAT EXT	3,364	(8,213)
Pond Creek	2/14/2019	LE1049612	Poplar Logistics Center building 2	LAT EXT	3,776	(7,317)
Pond Creek	6/10/2019	LE1047077	Orell Station IC	LAT EXT	10,400	(22,620)
Pond Creek	6/21/2019	SC1107191	FY18 OKLAWIN	SCAPCREDIT		198,872
Pond Creek	7/10/2019	LE1063368	Femdale Place Subdivision	LAT EXT	9,600	(20,880)
Pond Creek	8/8/2019	LE1055055	Convington by the Lake Area 1	LAT EXT	33,600	(73,080)
Pond Creek	11/22/2019	LE1048948	Estates of St Anthony Sec 3	LAT EXT	4,000	(8,700)
Pond Creek	1/6/2020	LE1013108	Menards	LAT EXT	18,450	(40,129)
Pond Creek	1/13/2020	LE1092880	Hidden Forest Section 2	LAT EXT	10,000	(21,750)
Pond Creek	2/18/2020	LE1102769	L & N Federal Credit Union	LAT EXT	1,950	(4,241)
Pond Creek	5/12/2020	LE1047091	New Cut Road Retail Shop	LAT EXT	1,381	(3,004)
Pond Creek	6/10/2020	LE1078674	Frontgate Apartments	LAT EXT	30,600	(66,555)
Pond Creek	12/10/2020	LE1104752	Carwash USA	LAT EXT	9,000	(19,575)
Pond Creek	3/9/2022	LE1104279	Parkside at Mt. Washington Section 2	LAT EXT	48,800	(106,140)
Pond Creek Total						4,976,608
Southeast Diversion	12/31/2007	359355	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		8,000
Southeast Diversion	12/31/2007	359440	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		128,000
Southeast Diversion	11/1/2008	235575	MAINTENANCE WORK FY06 AUG-FY09 NOV - SE DIVERSION	SCAPCREDIT		71,472
Southeast Diversion	12/22/2008	236296	FY09 GOLDSMITH BLUECHB ICA PHI REHAB	SCAPCREDIT		122,688
Southeast Diversion	12/22/2008	236214	FY09 BEARGRASS INT REHAB PH1 (SED)	SCAPCREDIT		314,808
Southeast Diversion	12/31/2008	SC1011317	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		1,555
Southeast Diversion	12/31/2008	359441	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		16,000
Southeast Diversion	12/31/2008	359356	MAINTENANCE WORK FY09A - SE DIVERSION	SCAPCREDIT		4,000
Southeast Diversion	6/30/2009	SC1011318	MAINTENANCE WORK FY09B - SE DIVERSION	SCAPCREDIT		2,929
Southeast Diversion	10/20/2009	229854	TINY HANDS DAYCARE	LAT EXT	1,225	(2,864)
Southeast Diversion	12/31/2009	SC1011322	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		16,974
Southeast Diversion	12/31/2009	359357	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12,000
Southeast Diversion	12/31/2009	359443	MAINTENANCE WORK FY10A - SE DIVERSION	SCAPCREDIT		8,000
Southeast Diversion	2/11/2010	235291	SULLIVAN COLLEGE OF TECHNOLOGY	LAT EXT	900	(1,958)
Southeast Diversion	3/1/2010	238328	LOUISVILLE COLLEGIATE SPORTS	LAT EXT	400	(870)
Southeast Diversion	3/5/2010	241759	FRISCHS BIG BOY RESTAURANT	LAT EXT	2,400	(5,220)
Southeast Diversion	4/16/2010	257275	LOUISVILLE JUNIOR ACADEMY	LAT EXT	520	(1,131)
Southeast Diversion	6/29/2010	270858	SINGLE FAMILY CONNECTION	LAT EXT	400	(870)
Southeast Diversion	6/30/2010	SC1011326	MAINTENANCE WORK FY10B - SE DIVERSION	SCAPCREDIT		10,739



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Southeast Diversion	12/14/2010	320993	FY11 BEARGRASS CREEK PHASE II (SED)	SCAPCREDIT		10,368
Southeast Diversion	12/31/2010	SC1011328	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		11,090
Southeast Diversion	12/31/2010	359444	MAINTENANCE WORK FY11A - SE DIVERSION	SCAPCREDIT		24,000
Southeast Diversion	12/31/2010	359356	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
Southeast Diversion	2/16/2011	286513	GARDINER POINT RESIDENCE HALL	LATEXT	10,800	(23,490)
Southeast Diversion	5/6/2011	276376	TIRE DISCOUNTERS - BARDSTOWN	LATEXT	1,500	(3,263)
Southeast Diversion	5/30/2011	287888	BEVERAGE WAREHOUSE	LATEXT	1,180	(2,567)
Southeast Diversion	6/30/2011	SC1011330	MAINTENANCE WORK FY11B - SE DIVERSION	SCAPCREDIT		3,661
Southeast Diversion	7/1/2011	296295	KEN TOWERY -3800 S HURSTBOURNE	LATEXT	400	(670)
Southeast Diversion	12/31/2011	359359	MAINTENANCE WORK FY12A - SE DIVERSION	SCAPCREDIT		64,000
Southeast Diversion	12/31/2011	SC1011331	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		5,071
Southeast Diversion	12/31/2011	359445	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		8,000
Southeast Diversion	4/20/2012	325231	ASSUMPTION SPORTS AND REC CTR	LATEXT	1,800	(3,915)
Southeast Diversion	6/30/2012	SC1011316	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		24,202
Southeast Diversion	6/30/2012	SC1011333	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		6,141
Southeast Diversion	8/10/2012	307018	HOOK PROPERTY FAMILY DOLLAR	LATEXT	400	(670)
Southeast Diversion	10/11/2012	341828	SINGLE FAMILY - 3408 HUNSIGNER	LATEXT	400	(670)
Southeast Diversion	12/31/2012	145C1006	MAINTENANCE WORK FY13A - SE DIVERSION	SCAPCREDIT		24,202
Southeast Diversion	12/31/2012	359446	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
Southeast Diversion	12/31/2012	359361	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		68,000
Southeast Diversion	3/11/2013	187741	BROOKSTONE SENIOR APARTMENTS	LATEXT	16,800	(36,540)
Southeast Diversion	4/22/2013	359068	SINGLE FAMILY 2233 BEARGRASS	LATEXT	400	(670)
Southeast Diversion	5/15/2013	355163	ZOELLER APARTMENTS LOT 1	LATEXT	2,300	(5,003)
Southeast Diversion	6/14/2013	232601	RAINTREEMARIAN CT P/S ELIM	LATEXT	105,800	(230,115)
Southeast Diversion	6/30/2013	SC1082605	MAINTENANCE WORK FY13 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		21,761
Southeast Diversion	8/22/2013	13LE1052	BACHMAN PRE-OWNED CAR DEALERSHIP	LATEXT	845	(1,838)
Southeast Diversion	9/18/2013	SC1005539	CONTRACTED WORK FY13 - SOUTHEAST DIVERSION	SCAPCREDIT		25,344
Southeast Diversion	9/20/2013	13LE1041	RESTAURANT/RETAIL AT 2131 HURSTBOURNE PKWY	LATEXT	1,920	(4,176)
Southeast Diversion	11/26/2013	330437	COLLEGIATE ATHLETIC FIELD	LATEXT	800	(1,740)
Southeast Diversion	12/30/2013	SC1082606	MAINTENANCE WORK FY14 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		19,491
Southeast Diversion	6/30/2014	SC1082607	MAINTENANCE WORK FY14 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		9,087
Southeast Diversion	12/29/2014	14LE1156	Copper Chase Business Park, Phase	LATEXT	840	(1,827)
Southeast Diversion	12/30/2014	SC1082608	MAINTENANCE WORK FY15 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		15,321
Southeast Diversion	2/11/2015	SC1006185	CONTRACTED WORK FY14 - SOUTHEAST DIVERSION	SCAPCREDIT		187,478
Southeast Diversion	5/14/2015	LE939900	Thermions - 4154 Bardstewn Road	LATEXT	1,000	(2,175)
Southeast Diversion	6/30/2015	SC1082610	MAINTENANCE WORK FY15 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		10,273
Southeast Diversion	6/30/2015	LE932083	Commercial Shell Bldg Addition	LATEXT	400	(670)
Southeast Diversion	10/20/2015	SC1006199	CONTRACTED WORK FY15 - SOUTHEAST DIVERSION	SCAPCREDIT		1

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Southeast Diversion	12/22/2015	LE919560	Todd's Place Express Car Wash	LATEXT	4,830	(10,595)
Southeast Diversion	12/30/2015	SC1082611	MAINTENANCE WORK FY16 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		7,052
Southeast Diversion	1/8/2016	LE948013	Unspecified Commercial Development	LATEXT	2,620	(5,689)
Southeast Diversion	2/16/2016	SC1003718	FY16 FSOUTHEAST DIVERSION AREA G (SEDG) J/I REHAB	SCAPCREDIT		76,998
Southeast Diversion	4/4/2016	14LE1110	Bosniak-American Islamic Center	LATEXT	1,100	(2,393)
Southeast Diversion	5/24/2016	SC1003704	CONTRACTED WORK FY16 - SOUTHEAST DIVERSION	SCAPCREDIT		66
Southeast Diversion	6/30/2016	SC1082612	MAINTENANCE WORK FY16 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		19,904
Southeast Diversion	7/28/2016	LE943171	Costco Wholesale and Fuel Facility	LATEXT	8,000	(17,400)
Southeast Diversion	12/30/2016	SC1082613	MAINTENANCE WORK FY17 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		5,812
Southeast Diversion	1/6/2017	LE967621	Chick-fil-A FSU #	LATEXT	1,500	(3,263)
Southeast Diversion	6/30/2017	SC1082614	MAINTENANCE WORK FY17 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6,961
Southeast Diversion	7/18/2017	LE1019576	Bachman Subaru Dealership	LATEXT	489	(1,064)
Southeast Diversion	8/10/2017	LE1030200	Wingate Hotel Pool	LATEXT	400	(870)
Southeast Diversion	12/30/2017	SC1082615	MAINTENANCE WORK FY18 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		14,909
Southeast Diversion	3/9/2018	LE1031137	Collins Body Shop Expansion	LATEXT	400	(870)
Southeast Diversion	3/15/2018	LE1002002	ALDI #89	LATEXT	400	(870)
Southeast Diversion	4/9/2018	LE1039341	Silver Creek Place Apartments	LATEXT	7,200	(15,660)
Southeast Diversion	4/18/2018	LE1046691	Crown Packaging	LATEXT	400	(870)
Southeast Diversion	6/4/2018	LE1061616	Bob Hook Chevrolet	LATEXT	400	(870)
Southeast Diversion	1/10/2019	LE1068750	Nicklles Paragon Centre - Corporate Office Additio	LATEXT	3,040	(6,612)
Southeast Diversion	8/30/2019	SC1107193	CONTRACTED WORK FY19 - SOUTHEAST DIVERSION	SCAPCREDIT		15,780
Southeast Diversion	9/12/2019	SC1107192	FY18 SOUTHEAST DIVERSION AREA F (SEDF)	SCAPCREDIT		1,617,410
Southeast Diversion	1/17/2020	LE1102994	Honda World - building expansion	LATEXT	400	(870)
Southeast Diversion	7/29/2020	LE1074909	Bardstow Road Storage	LATEXT	400	(870)
Southeast Diversion	1/4/2021	LE1104178	DRAKES RESTAURANT	LATEXT	3,000	(6,525)
Southeast Diversion	1/5/2021	LE1104275	FKC WATTERSON DIALYSIS	LATEXT	6,180	(13,442)
Southeast Diversion	9/2/2021	SC1107199	FY20 NIGHTINGALE (SEDC) REHABILITATION	SCAPCREDIT		739,758
Southeast Diversion	11/22/2021	LE1054201	9603 Watterson Trail	LATEXT	400	(870)
Southeast Diversion Total						3,343,051

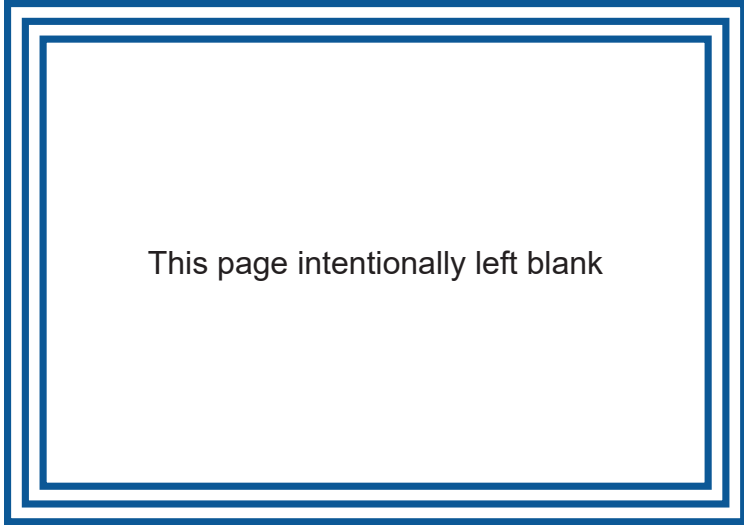


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APPENDIX M

ASSET MANAGEMENT PROGRAM COSTS



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BUDGET ID	PROJECT NAME	ACTUAL EXPENDITURES
A14129	Gorham Way Pump Station Elimination	\$83,841
A20320	Broadfern PS Elimination	\$0
A21241	26th Street Sewer Repair Emergency	\$6,420,104
A22183	15th St Emergency Sewer Repair	\$2,003,674
C22028	Lower Floyds Fork Facilities Plan	\$157,242
C22052	Rehabilitation Project Management Support	\$202,436
C22054	PSC Program Support	\$149,936
D15020	MFQWTC Wet Cake Pump Phase II	\$422
D15024	MFQWTC Chiller Replacement	\$248,024
D16272	CCWQTC Influent PS MCC Upgrades	\$13,178
D18128	DRGWQTC Paving	\$338
D18285	ORFM Odor and Corrosion Control	\$266,374
D18292	DRGWQTC Clarifier Grout Repair and RAS Gate Replacement	\$626,523
D18453	FY21 MFQWTC Equipment RR	\$0
D18454	FY22 MFQWTC Equipment RR	\$1,178,772
D18473	FY22 MFQWTC Other Facilities Repairs	\$198,904
D18489	Fairmount Road Pump Station Force Main Extension - Phase 1	\$933,787
D19039	CCWQTC Effluent Parshall Flume Upgrade	\$529,182
D19275	MDS Downstream Flow Meter	\$0
D19286	SWPS Gas Monitoring and SP1 Odor Control	\$128,316
D20012	SGC RTC Enhancements	\$248,824
D20016	DRG Admin and RAS Buildings HVAC	\$8,840
D20017	CCWQTC Sodium Aluminate Building	\$277,412
D20033	FY21 Regional WQTC Equipment RR	\$181,751
D20148	FFWQTC Regional Facilities Plan Update	\$231,920
D20223	Bells Lane WWTF Polymer Dosing System Updates	\$197,729
D20224	Bells Lane Disinfection System Upgrades	\$872,532
D20278	DRGWQTC RAS Building Electrical Modifications	\$0
D20304	MFQWTC Headworks and Dumpster Building Repairs and Primary Blower Building Stair Repairs	\$19,462
D20314	MFQWTC Sewer and Manhole Condition Assessment and Repair	\$267,675
D21059	Asset Management Plan Development	\$1,923,642
D21079	Fairmount Road Pump Station Force Main Extension - Phase 2	\$462,868
D21092	FY21 WQTC Engineering Support	\$2,693
D21095	FY22 Regional WQTC Equipment RR	\$73,607
D21129	DRGWQTC Elevator Repairs	\$1,144,762
D21208	MFQWTC Administration Building Exterior Repairs	\$108,870
D21209	DRG WWPS Vibration Analysis Testing of Pump 1A and 2B	\$0
D21222	DRGWQTC Grit Handling Building Roof Replacement	\$261,726
D21223	HCWQTC Grit Building Roof Replacement	\$13,240



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BUDGET ID	PROJECT NAME	ACTUAL EXPENDITURES
D21224	DRGWQTC Sodium Hypochlorite and Process Water Buildings Roof Replacement	\$42,893
D21226	DRGWQTC WWPS Building Roof Replacement	\$11,617
D21229	CCWQTC Facilities Base Map	\$9,926
D21230	DRG RAS Pumps 2 and 3 Replacement	\$57,042
D21232	FY21 MFWQTC Process Improvements	\$111,021
D21233	MFWQTC MEB Roof Replacement	\$72,915
D21237	MFWQTC Secondary Clarifiers Assessment	\$97,888
D21238	SWPS Screens CFD Modeling	\$39,312
D21239	MFWQTC Groundwater Wells Assistance	\$111,021
D21242	DRGWQTC Lab Upgrade	\$102,198
D21247	MFWQTC MEB HVAC Replacement	\$173,708
D22041	District Wide High Voltage Maintenance Program	\$54,798
D22042	FFWQTC Power Factor Correction	\$59,501
D22074	Bells Ln WWTF and SWPS Liquid and Vapor Sampling	\$34,783
D22080	DRG Clarifier 4-6 Mechanism Update	\$8,538
D22098	CCWQTC Re-rating to 9_0 MGD	\$322,390
D22102	MFWQTC Centrifuge Repair	\$0
D22122	MFWQTC MEB Boiler Replacement	\$101,241
D22186	MFWQTC Computer Room Upgrades	\$46,172
D22187	FFWQTC Tertiary Treatment Bldgs Roof Replacement	\$44,423
D22213	CCWQTC Tertiary Filtration	\$0
E15035	Lake Forest Pump Station Eliminations	\$74,752
E18468	FY21 CMOM Collection Systems PS RR	\$59,605
E18469	FY22 CMOM Collection System PS RR	\$739,823
E19212	FY21 Operations Renewal and Replacement	\$844,514
E19213	FY22 Operations Renewal and Replacement	\$60,129
E21062	Modesto Pump Station Elimination	\$0
E21066	Pirogue Court Pump Station Elimination	\$0
E21070	Rosa Terrace PS Elimination	\$183,907
E21071	Wathen Lane PS Rehabilitation	\$23,110
E21090	Sonne Avenue PS Elimination	\$61,389
E21091	Sanders Lane PS Rehabilitation	\$125,202
E22116	South Shelby St Sanitary Sewer Improvements	\$0
F20321	Bluegrass Fields PS Renovation	\$523,234
F21061	Clifton Heights Storage Basin Sump Pump Improvements	\$0
F21123	10th St MCC Replacement	\$0
F21153	SWPS Influent Gate Seal Replacement	\$181,664
F21202	SGC Gate 1 Repair	\$6,175
G18417	MFWQTC Admin Building Roof Replacement	\$334,412

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BUDGET ID	PROJECT NAME	ACTUAL EXPENDITURES
G20018	SWPS Site Security	\$15,556
G20028	MFWQTC Elevator Repair	\$686,405
G21001	FY21 Renewal and Replacement	\$143,715
G21231	FY21 WQTC and FPS Roof Assessments	\$250,941
G22001	FY22 Renewal and Replacement	\$1,256,224
G22061	1400 K Coleman Jr Sewer	\$595,428
G22062	4th & Main Sewer	\$476,351
G22063	Babe Drive PSC Sewer	\$537,602
G22064	MFWQTC FEPS N Substation	\$448,200
G22065	5th & Chestnut Sewer	\$219,052
G22066	DRG RAS PS Spool	\$428,768
G22067	7th & Main Sewer	\$473,783
H09215	FY22 CMOM Infrastructure Rehabilitation Program	\$1,189,345
H18443	FY21 NMC_RTC	\$54,338
H19116	FY22 NMC RTC	\$356,135
H20021	Admiral Rd Force Main	\$0
H20048	FY21 NMC CSO Inspection Cameras	\$0
H20049	FY22 NMC CSO Inspection Cameras	\$0
H20056	FY21 CMOM I and C Implementation	\$6,477
H20057	FY22 CMOM I and C Implementation	\$151,698
H20063	FY22 CMOM Gravity Line Cleaning and Inspection	\$1,354,213
H20153	SWPS Flood Repair	\$0
H22009	FY22 WQTC Engineering Support	\$38,686
H22014	MFWQTC Groundwater Dewatering System Automation	\$112,698
H22017	Regional Biosolids Management Study	\$497,701
H22018	CCWQTC Sludge Storage Tank Improvements	\$299,092
H22019	DRGWQTC Substation Unit 3 & 4 Elimination	\$14,148
H22022	SGC Gate Replacements	\$1,515,731
H22032	DRGWQTC Sodium Bisulfite Bldg Improvements	\$101,341
H22034	CC FF HC Sodium Aluminate Automation	\$57,757
H22038	Sneads Branch Pump Replacement	\$118,273
H22086	Floyds Fork and Ohio River Condition Assessment	\$402,998

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APPENDIX N

CSO 108 SEMI-ANNUAL REPORTS

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January 30, 2022

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

Subject: CSO108 Semi-Annual Report #27

Dear Mr. Lillpop,

As required in Paragraph #2 of the document titled "Memorandum of Understanding by and between the Commonwealth of Kentucky, Office of Kentucky Nature Preserves and the Louisville and Jefferson County Metropolitan Sewer District", MSD submits to you the MOU Semi-Annual Report #27. This report summarizes activities at the CSO108 CDS Site during the reporting period of July 1, 2021 to December 31, 2021.

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

Sincerely,

Heather Dodds, PE
Regulatory Compliance & Asset Management Administrator

**MOU SEMI-ANNUAL REPORT 27
JULY 1, 2021 - DECEMBER 31, 2021**

INTRODUCTION

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

This is the 27th Semi-Annual Report submitted in accordance with Paragraph 2 of the MOU. This report covers the time period of July 1, 2021 to December 31, 2021.

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

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

1. PARAGRAPH #2 OF THE MOU

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

2. MSD RESPONSE

This document is the 27th semi-annual report to the Commission since the completion of the Project. Appendix A shows photos of the area around the CDS unit and South Fork Beargrass Creek during the reporting period.

2.1. CLEANING & INSPECTION ACTIVITIES

The CSO108 CDS unit is inspected weekly and cleaned on an as-needed basis. During the reporting period, MSD did not clean the CDS Unit bar racks. The information is generated from work orders initiated whenever the CDS Unit is inspected and needs to be cleaned. Cleaning consists of either washing debris off the bar racks or hauling the solids and floatables from the site. Both operations result in removing debris that would otherwise overflow into Beargrass Creek. When cleaning the bar racks, the debris is reintroduced into the sewer system, and as a result, is difficult to accurately estimate the amount removed during the maintenance process. The report often indicates the quantity removed as "unknown".

Verification was performed on the work orders to validate the lack of cleaning work orders during the reporting period; while all inspections were completed in a timely manner, the bar racks did not require cleaning.

2.2. MAINTENANCE ACTIVITIES

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

2.3. CAPTURED FLOW

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



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In an effort to estimate the volume of debris captured by the CDS unit and kept within the sewer system, a study of the efficiency of the unit was performed in the early 2002. The results of the study indicated that the concentration of solids kept within the sewer system was approximately 1ml/l. Using pump run times and knowing the efficiency of the pumps, MSD was able to determine a volume of solids captured by the CDS technology. MSD estimates that the CDS unit captured 7 tons of solids during the reporting period based on available data. Due to the low capture rate reported during this period, MSD will investigate the telemetry equipment and calculations during the upcoming reporting period and make any necessary changes. Appendix B lists the pump run times and Appendix C shows the calculations MSD used to determine the amount of debris captured by the CDS Unit and sent to the Morris Forman WQTC for treatment.



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APPENDIX A

**PHOTOS OF AREA ADJACENT TO CSO108 AND THE
CDS UNIT (DATED JANUARY 4, 2022)**

Figure 1. Entrance to CDS Unit



Figure 2. Entrance to CDS Unit



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Figure 3. Area Adjacent to CDS Unit



Figure 4. Area Adjacent to CDS Unit



Figure 5. Area Adjacent to Creek



Figure 6. Area Adjacent to Creek



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APPENDIX B

CDS UNIT PUMP RUN TIMES

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
July 1, 2021	0.00	0.00	0.00
July 2, 2021	0.00	0.00	0.00
July 3, 2021	0.00	0.00	0.17
July 4, 2021	0.00	0.00	0.05
July 5, 2021	0.00	0.00	0.00
July 6, 2021	0.00	0.00	0.00
July 7, 2021	0.00	0.00	0.03
July 8, 2021	0.00	0.00	0.00
July 9, 2021	0.00	0.00	0.05
July 10, 2021	0.00	0.00	0.00
July 11, 2021	0.00	0.00	0.03
July 12, 2021	0.00	0.00	0.00
July 13, 2021	0.00	0.00	0.13
July 14, 2021	0.00	0.00	0.37
July 15, 2021	0.00	0.00	0.08
July 16, 2021	0.00	0.00	0.03
July 17, 2021	0.00	0.00	0.00
July 18, 2021	0.00	0.00	0.00
July 19, 2021	0.00	0.00	0.13
July 20, 2021	0.00	0.00	0.00
July 21, 2021	0.00	0.00	0.05
July 22, 2021	0.00	0.00	0.00
July 23, 2021	0.00	0.00	0.00
July 24, 2021	0.00	0.00	0.15
July 25, 2021	0.00	0.00	0.00
July 26, 2021	0.00	0.00	0.00
July 27, 2021	0.00	0.00	0.00
July 28, 2021	0.00	0.00	0.17
July 29, 2021	0.00	0.00	0.00
July 30, 2021	0.00	0.00	0.00
July 31, 2021	0.00	0.00	0.00
August 1, 2021	0.00	0.00	0.00
August 2, 2021	0.00	0.00	0.00
August 3, 2021	0.00	0.00	0.00
August 4, 2021	0.00	0.00	0.18
August 5, 2021	0.00	0.00	0.00
August 6, 2021	0.00	0.00	0.05
August 7, 2021	0.00	0.00	0.00
August 8, 2021	0.00	0.00	0.20
August 9, 2021	0.00	0.00	0.00

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
August 10, 2021	0.00	0.00	0.00
August 11, 2021	0.00	0.00	0.03
August 12, 2021	0.00	0.00	0.05
August 13, 2021	0.00	0.00	0.00
August 14, 2021	0.00	0.00	0.00
August 15, 2021	0.00	0.00	0.00
August 16, 2021	0.00	0.00	0.03
August 17, 2021	0.00	0.00	0.00
August 18, 2021	0.00	0.00	0.00
August 19, 2021	0.00	9.43	0.60
August 20, 2021	0.00	6.82	0.05
August 21, 2021	0.00	0.00	0.05
August 22, 2021	0.00	0.00	0.00
August 23, 2021	0.00	0.00	0.00
August 24, 2021	0.00	0.00	0.03
August 25, 2021	0.00	0.00	0.00
August 26, 2021	0.00	0.00	0.00
August 27, 2021	0.00	0.00	0.05
August 28, 2021	0.00	0.00	0.00
August 29, 2021	0.00	0.00	0.00
August 30, 2021	0.00	0.00	0.00
August 31, 2021	0.00	0.00	0.03
September 1, 2021	0.00	0.00	0.57
September 2, 2021	0.00	0.00	0.05
September 3, 2021	0.00	0.00	0.03
September 4, 2021	0.00	0.00	0.05
September 5, 2021	0.00	0.00	0.00
September 6, 2021	0.00	0.00	0.05
September 7, 2021	0.00	0.00	0.12
September 8, 2021	0.00	0.00	0.05
September 9, 2021	0.00	0.00	0.03
September 10, 2021	0.00	0.00	0.00
September 11, 2021	0.00	0.00	0.00
September 12, 2021	0.00	0.00	0.05
September 13, 2021	0.00	0.00	0.00
September 14, 2021	0.00	0.00	0.00
September 15, 2021	0.00	0.00	0.05
September 16, 2021	0.00	0.00	0.00
September 17, 2021	0.00	0.00	0.00
September 18, 2021	0.00	0.00	0.03

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
September 19, 2021	0.00	0.00	0.00
September 20, 2021	0.00	0.00	0.00
September 21, 2021	0.00	0.00	0.05
September 22, 2021	0.00	1.42	0.72
September 23, 2021	0.00	0.13	0.05
September 24, 2021	0.00	0.18	0.43
September 25, 2021	0.00	0.00	0.17
September 26, 2021	0.00	0.00	0.03
September 27, 2021	0.00	0.00	0.05
September 28, 2021	0.00	0.00	0.00
September 29, 2021	0.00	0.00	0.05
September 30, 2021	0.00	0.00	0.00
October 1, 2021	0.00	0.00	0.03
October 2, 2021	0.02	0.00	0.35
October 3, 2021	0.00	0.00	0.00
October 4, 2021	0.00	0.00	0.00
October 5, 2021	0.00	0.00	0.05
October 6, 2021	0.00	0.00	0.03
October 7, 2021	0.00	0.12	0.45
October 8, 2021	0.00	0.00	0.05
October 9, 2021	0.00	0.00	0.08
October 10, 2021	0.00	0.00	0.08
October 11, 2021	0.00	0.00	0.05
October 12, 2021	0.00	0.00	0.03
October 13, 2021	0.00	0.00	0.05
October 14, 2021	0.00	0.00	0.00
October 15, 2021	0.00	0.00	0.03
October 16, 2021	0.00	0.00	0.00
October 17, 2021	0.00	0.00	0.05
October 18, 2021	0.00	0.00	0.08
October 19, 2021	0.00	0.00	0.00
October 20, 2021	0.00	0.00	0.03
October 21, 2021	0.00	0.00	0.00
October 22, 2021	0.00	0.00	0.17
October 23, 2021	0.00	0.00	0.00
October 24, 2021	0.00	0.00	0.00
October 25, 2021	0.00	0.00	0.00
October 26, 2021	0.00	0.00	0.00
October 27, 2021	0.00	0.00	0.00
October 28, 2021	0.00	0.00	0.05

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



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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
December 8, 2021	0.00	0.00	0.05
December 9, 2021	0.00	0.00	0.03
December 10, 2021	0.00	0.00	0.05
December 11, 2021	0.00	0.00	0.00
December 12, 2021	0.00	0.00	0.40
December 13, 2021	0.00	0.00	0.18
December 14, 2021	0.00	0.00	0.08
December 15, 2021	0.00	0.00	0.08
December 16, 2021	0.00	0.00	0.00
December 17, 2021	0.00	0.00	0.08
December 18, 2021	0.00	0.00	0.05
December 19, 2021	0.00	0.00	0.22
December 20, 2021	0.00	0.00	0.08
December 21, 2021	0.00	0.00	0.08
December 22, 2021	0.00	0.00	0.05
December 23, 2021	0.00	0.00	0.03
December 24, 2021	0.00	0.00	0.05
December 25, 2021	0.00	0.00	0.00
December 26, 2021	0.00	0.00	0.05
December 27, 2021	0.00	0.00	0.03
December 28, 2021	0.00	0.00	0.00
December 29, 2021	0.00	0.00	0.05
December 30, 2021	0.00	0.00	0.08
December 31, 2021	0.00	0.00	0.05



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APPENDIX C

CSO108 UNDERFLOW PUMP FLOW METER DATA

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
July 1, 2021	0.26	34,516.80	258,203.63
July 2, 2021	0.02	2,599.83	19,448.07
July 3, 2021	0.00	652.73	4,882.72
July 4, 2021	-	0.00	0.00
July 5, 2021	-	0.00	0.00
July 6, 2021	0.00	621.79	4,651.28
July 7, 2021	-	0.00	0.00
July 8, 2021	0.00	652.75	4,882.90
July 9, 2021	-	0.00	0.00
July 10, 2021	0.00	626.86	4,689.25
July 11, 2021	-	0.00	0.00
July 12, 2021	0.01	1,759.57	13,162.49
July 13, 2021	0.04	5,490.37	41,070.85
July 14, 2021	0.01	1,252.41	9,368.69
July 15, 2021	0.00	667.09	4,990.19
July 16, 2021	-	0.00	0.00
July 17, 2021	-	0.00	0.00
July 18, 2021	0.01	1,938.18	14,498.59
July 19, 2021	-	0.00	0.00
July 20, 2021	0.00	664.74	4,972.61
July 21, 2021	-	0.00	0.00
July 22, 2021	-	0.00	0.00
July 23, 2021	0.02	2,195.51	16,423.58
July 24, 2021	-	0.00	0.00
July 25, 2021	-	0.00	0.00
July 26, 2021	-	0.00	0.00
July 27, 2021	0.01	1,896.02	14,183.22
July 28, 2021	-	0.00	0.00
July 29, 2021	-	0.00	0.00
July 30, 2021	-	0.00	0.00
July 31, 2021	-	0.00	0.00
August 1, 2021	-	0.00	0.00
August 2, 2021	-	0.00	0.00
August 3, 2021	0.02	2,752.92	20,593.29
August 4, 2021	-	0.00	0.00
August 5, 2021	0.00	664.37	4,969.81
August 6, 2021	-	0.00	0.00
August 7, 2021	0.02	2,976.05	22,262.42
August 8, 2021	-	0.00	0.00
August 9, 2021	-	0.00	0.00

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
August 10, 2021	0.00	661.47	4,948.14
August 11, 2021	0.00	649.72	4,860.25
August 12, 2021	-	0.00	0.00
August 13, 2021	-	0.00	0.00
August 14, 2021	-	0.00	0.00
August 15, 2021	0.00	665.37	4,977.35
August 16, 2021	-	0.00	0.00
August 17, 2021	-	0.00	0.00
August 18, 2021	0.07	8,998.36	67,312.42
August 19, 2021	0.01	891.97	6,672.38
August 20, 2021	0.00	654.90	4,899.02
August 21, 2021	-	0.00	0.00
August 22, 2021	-	0.00	0.00
August 23, 2021	0.00	651.22	4,871.49
August 24, 2021	-	0.00	0.00
August 25, 2021	-	0.00	0.00
August 26, 2021	0.00	662.09	4,952.79
August 27, 2021	-	0.00	0.00
August 28, 2021	-	0.00	0.00
August 29, 2021	-	0.00	0.00
August 30, 2021	0.00	657.26	4,916.67
August 31, 2021	0.07	8,703.84	65,109.25
September 1, 2021	0.01	668.59	5,001.43
September 2, 2021	0.01	676.92	5,063.71
September 3, 2021	0.00	643.95	4,817.07
September 4, 2021	-	0.00	0.00
September 5, 2021	0.00	647.69	4,845.02
September 6, 2021	0.01	1,885.42	14,103.89
September 7, 2021	0.00	647.85	4,846.27
September 8, 2021	0.00	650.24	4,864.10
September 9, 2021	-	0.00	0.00
September 10, 2021	-	0.00	0.00
September 11, 2021	0.00	568.69	4,254.10
September 12, 2021	-	0.00	0.00
September 13, 2021	-	0.00	0.00
September 14, 2021	0.00	645.26	4,826.84
September 15, 2021	-	0.00	0.00
September 16, 2021	-	0.00	0.00
September 17, 2021	0.00	615.97	4,607.80
September 18, 2021	-	0.00	0.00

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
September 19, 2021	-	0.00	0.00
September 20, 2021	0.01	669.18	5,005.84
September 21, 2021	0.09	11,403.48	85,303.96
September 22, 2021	0.01	903.68	6,760.00
September 23, 2021	0.05	6,354.51	47,535.06
September 24, 2021	0.02	2,587.89	19,358.75
September 25, 2021	0.00	643.98	4,817.31
September 26, 2021	0.00	609.38	4,558.44
September 27, 2021	-	0.00	0.00
September 28, 2021	0.00	647.09	4,840.55
September 29, 2021	-	0.00	0.00
September 30, 2021	0.00	648.75	4,853.01
October 1, 2021	0.03	4,115.42	30,785.50
October 2, 2021	-	0.00	0.00
October 3, 2021	-	0.00	0.00
October 4, 2021	0.00	660.78	4,942.95
October 5, 2021	0.00	658.50	4,925.91
October 6, 2021	0.05	6,796.34	50,840.14
October 7, 2021	0.00	646.13	4,833.40
October 8, 2021	0.01	1,304.74	9,760.14
October 9, 2021	0.01	1,300.33	9,727.18
October 10, 2021	0.00	655.18	4,901.05
October 11, 2021	0.00	623.43	4,663.59
October 12, 2021	0.00	649.84	4,861.12
October 13, 2021	-	0.00	0.00
October 14, 2021	0.00	650.09	4,863.02
October 15, 2021	-	0.00	0.00
October 16, 2021	0.00	651.21	4,871.37
October 17, 2021	0.01	1,285.44	9,615.78
October 18, 2021	0.00	9.26	69.26
October 19, 2021	0.00	624.29	4,670.02
October 20, 2021	0.00	2.47	18.48
October 21, 2021	0.02	2,181.36	16,317.73
October 22, 2021	-	0.00	0.00
October 23, 2021	-	0.00	0.00
October 24, 2021	0.00	1.99	14.90
October 25, 2021	-	0.00	0.00
October 26, 2021	-	0.00	0.00
October 27, 2021	0.00	652.64	4,882.10
October 28, 2021	0.00	34.72	259.76

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
October 29, 2021	0.00	609.47	4,559.16
October 30, 2021	-	0.00	0.00
October 31, 2021	0.01	1,309.30	9,794.24
November 1, 2021	0.00	659.83	4,935.86
November 2, 2021	0.00	666.65	4,986.88
November 3, 2021	0.01	675.17	5,050.66
November 4, 2021	0.00	111.95	837.45
November 5, 2021	0.01	773.09	5,783.08
November 6, 2021	0.00	107.77	806.21
November 7, 2021	0.01	731.29	5,470.40
November 8, 2021	0.00	85.96	643.01
November 9, 2021	0.01	702.84	5,257.61
November 10, 2021	0.00	33.19	248.31
November 11, 2021	0.00	655.54	4,903.79
November 12, 2021	0.00	654.17	4,893.54
November 13, 2021	0.00	66.52	497.58
November 14, 2021	0.01	765.75	5,728.24
November 15, 2021	0.00	119.49	893.83
November 16, 2021	0.01	778.73	5,825.28
November 17, 2021	0.00	81.07	606.42
November 18, 2021	0.00	610.89	4,569.77
November 19, 2021	0.01	684.26	5,118.61
November 20, 2021	0.00	163.20	1,220.82
November 21, 2021	0.01	774.19	5,791.31
November 22, 2021	0.01	697.45	5,217.31
November 23, 2021	0.00	141.94	1,061.80
November 24, 2021	0.01	868.18	6,494.40
November 25, 2021	0.00	128.91	964.28
November 26, 2021	0.01	680.40	5,089.76
November 27, 2021	0.01	846.25	6,330.37
November 28, 2021	0.01	780.56	5,838.99
November 29, 2021	0.00	89.78	671.63
November 30, 2021	0.01	804.86	6,020.78
December 1, 2021	0.00	65.59	490.67
December 2, 2021	0.01	727.99	5,445.72
December 3, 2021	0.00	0.81	6.08
December 4, 2021	0.00	31.12	232.82
December 5, 2021	0.01	693.88	5,190.61
December 6, 2021	0.00	57.03	426.65
December 7, 2021	0.02	2,706.69	20,247.46

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
December 8, 2021	0.01	793.88	5,938.65
December 9, 2021	0.01	840.02	6,283.76
December 10, 2021	0.01	782.69	5,854.96
December 11, 2021	0.00	3.52	26.35
December 12, 2021	0.05	6,720.91	50,275.92
December 13, 2021	0.02	2,089.89	15,633.46
December 14, 2021	0.01	1,431.62	10,709.29
December 15, 2021	0.01	1,417.28	10,602.00
December 16, 2021	0.00	663.53	4,963.52
December 17, 2021	0.00	655.62	4,904.39
December 18, 2021	0.01	719.00	5,378.48
December 19, 2021	0.02	3,341.98	24,999.74
December 20, 2021	0.01	1,455.80	10,890.13
December 21, 2021	0.01	1,523.18	11,394.14
December 22, 2021	0.01	769.88	5,759.12
December 23, 2021	0.01	826.41	6,181.96
December 24, 2021	0.01	754.98	5,647.66
December 25, 2021	-	0.00	0.00
December 26, 2021	0.00	652.34	4,879.83
December 27, 2021	0.00	612.31	4,580.38
December 28, 2021	-	0.00	0.00
December 29, 2021	0.01	678.82	5,077.96
December 30, 2021	0.01	1,331.47	9,960.06
December 31, 2021	0.00	655.48	4,903.32



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July 30, 2022

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

Subject: CSO108 Semi-Annual Report #28

Dear Mr. Lillpop,

As required in Paragraph #2 of the document titled "Memorandum of Understanding by and between the Commonwealth of Kentucky, Office of Kentucky Nature Preserves and the Louisville and Jefferson County Metropolitan Sewer District", MSD submits to you the MOU Semi-Annual Report #28. This report summarizes activities at the CSO108 CDS Site during the reporting period of January 1, 2022 to June 30, 2022.

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

Sincerely,

Heather Dodds, PE
Regulatory Compliance & Asset Management Administrator



**MOU SEMI-ANNUAL REPORT 28
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INTRODUCTION

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

This is the 28th Semi-Annual Report submitted in accordance with Paragraph 2 of the MOU. This report covers the time period of January 1, 2022 to June 30, 2022.

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

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

1. PARAGRAPH #2 OF THE MOU

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

2. MSD RESPONSE

This document is the 28th semi-annual report to the Commission since the completion of the Project. Appendix A shows photos of the area around the CDS unit and South Fork Beargrass Creek during the reporting period.

2.1. CLEANING & INSPECTION ACTIVITIES

The CSO108 CDS unit is inspected weekly and cleaned on an as-needed basis. During the reporting period, MSD did not clean the CDS Unit bar racks. The information is generated from work orders initiated whenever the CDS Unit is inspected and needs to be cleaned. Cleaning consists of either washing debris off the bar racks or hauling the solids and floatables from the site. Both operations result in removing debris that would otherwise overflow into Beargrass Creek. When cleaning the bar racks, the debris is reintroduced into the sewer system, and as a result, is difficult to accurately estimate the amount removed during the maintenance process. The report often indicates the quantity removed as “unknown”. Details of cleaning activities are detailed in Table 1.

2.2. MAINTENANCE ACTIVITIES

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

Table 1. CSO108 CDS Unit Debris Removal

ACTIVITY	QUANTITY	COMMENTS	COMPLETED DATE
DEBRIS	UNKNOWN	CLEANED MEDIUM DEBRIS OFF RACK BARS NORTHINGTON BRITTLE	1/25/2022
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS OFF RACK BARS NORTHINGTON BRITTLE	2/1/2022
DEBRIS	UNKNOWN	CLEANED MEDIUM DEBRIS OFF RACK BARS NORTHINGTON BRITTLE	2/15/2022
DEBRIS	UNKNOWN	CLEANED RACK BARS MEDIUM DEBRIS NORTHINGTON CORLEY	3/29/2022

maintenance. During the reporting period, MSD began to implement major repairs to two of the pumps, which are under contract for replacement.

2.3. CAPTURED FLOW

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

In an effort to estimate the volume of debris captured by the CDS unit and kept within the sewer system, a study of the efficiency of the unit was performed in the early 2002. The results of the study indicated that the concentration of solids kept within the sewer system was approximately 1ml/l. Using pump run times and knowing the efficiency of the pumps, MSD was able to determine a volume of solids captured by the CDS technology. MSD estimates that the CDS unit captured less than 1 ton of solids during the reporting period based on available data. Despite equipment replacement, due to the low capture rate reported during this period, MSD will continue to investigate the telemetry equipment and calculations during the upcoming reporting period and make any necessary changes. Appendix B lists the pump run times and Appendix C shows the calculations MSD used to determine the amount of debris captured by the CDS Unit and sent to the Morris Forman WQTC for treatment.



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APPENDIX A

**PHOTOS OF AREA ADJACENT TO CSO108 AND THE
CDS UNIT (DATED JULY 14, 2022)**

Figure 1. Entrance to CDS Unit



Figure 2. Entrance to CDS Unit



Figure 3. Area Adjacent to CDS Unit



Figure 4. Area Adjacent to CDS Unit



Figure 5. Area Adjacent to Creek



Figure 6. Area Adjacent to Creek





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APPENDIX B

CDS UNIT PUMP RUN TIMES



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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
January 1, 2022	0.00	0.00	0.00
January 2, 2022	0.02	0.12	1.13
January 3, 2022	0.00	0.00	0.48
January 4, 2022	0.00	0.00	0.27
January 5, 2022	0.00	0.00	0.22
January 6, 2022	0.00	0.00	0.18
January 7, 2022	0.00	0.00	0.08
January 8, 2022	0.00	0.00	0.08
January 9, 2022	0.00	0.00	0.05
January 10, 2022	0.00	0.00	1.30
January 11, 2022	0.00	0.00	0.32
January 12, 2022	0.00	0.00	0.22
January 13, 2022	0.00	0.00	0.22
January 14, 2022	0.00	0.00	0.13
January 15, 2022	0.00	0.00	0.13
January 16, 2022	0.00	0.00	0.03
January 17, 2022	0.00	0.00	0.05
January 18, 2022	0.00	0.00	0.03
January 19, 2022	0.00	0.00	0.00
January 20, 2022	0.00	0.00	0.05
January 21, 2022	0.00	0.00	0.05
January 22, 2022	0.00	0.00	0.00
January 23, 2022	0.00	0.00	0.03
January 24, 2022	0.00	0.00	0.00
January 25, 2022	0.00	0.00	0.20
January 26, 2022	0.00	0.00	0.00
January 27, 2022	0.00	0.00	0.00
January 28, 2022	0.00	0.00	0.00
January 29, 2022	0.00	0.00	0.00
January 30, 2022	0.00	0.00	0.00
January 31, 2022	0.00	0.00	0.00
February 1, 2022	0.00	0.00	0.00
February 2, 2022	0.00	0.00	0.00
February 3, 2022	0.00	0.00	0.03
February 4, 2022	0.00	0.00	0.45
February 5, 2022	0.00	0.00	0.40
February 6, 2022	0.00	0.00	0.17
February 7, 2022	0.00	0.00	0.17
February 8, 2022	0.00	0.00	0.13
February 9, 2022	0.00	0.00	0.13

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
February 10, 2022	0.00	0.00	0.08
February 11, 2022	0.00	0.00	0.08
February 12, 2022	0.00	0.00	0.05
February 13, 2022	0.00	0.00	0.00
February 14, 2022	0.00	0.00	0.05
February 15, 2022	0.00	0.00	0.00
February 16, 2022	0.00	0.00	0.03
February 17, 2022	0.00	0.00	0.00
February 18, 2022	0.03	2.97	4.22
February 19, 2022	0.00	0.00	1.20
February 20, 2022	0.00	0.00	0.22
February 21, 2022	0.00	0.00	0.22
February 22, 2022	0.00	0.00	0.17
February 23, 2022	0.00	0.00	0.48
February 24, 2022	0.00	0.00	0.27
February 25, 2022	0.00	0.00	0.30
February 26, 2022	0.00	0.00	0.43
February 27, 2022	0.00	0.00	0.27
February 28, 2022	0.00	0.00	0.22
March 1, 2022	0.00	0.00	0.17
March 2, 2022	0.00	0.00	0.18
March 3, 2022	0.00	0.00	0.13
March 4, 2022	0.00	0.00	0.08
March 5, 2022	0.00	0.00	0.03
March 6, 2022	0.00	0.00	0.05
March 7, 2022	0.00	0.00	0.08
March 8, 2022	0.00	0.50	1.37
March 9, 2022	0.00	0.00	0.25
March 10, 2022	0.00	0.00	0.18
March 11, 2022	0.00	0.00	0.17
March 12, 2022	0.00	0.00	0.13
March 13, 2022	0.00	0.00	0.13
March 14, 2022	0.00	0.00	0.13
March 15, 2022	0.00	0.00	0.08
March 16, 2022	0.00	0.00	0.05
March 17, 2022	0.00	0.00	0.03
March 18, 2022	0.00	0.00	0.00
March 19, 2022	0.00	0.00	0.05
March 20, 2022	0.00	0.00	0.05
March 21, 2022	0.00	0.00	0.03

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
March 22, 2022	0.00	0.00	0.00
March 23, 2022	0.00	0.00	0.05
March 24, 2022	0.00	0.00	0.00
March 25, 2022	0.00	0.00	0.00
March 26, 2022	0.00	0.00	0.05
March 27, 2022	0.00	0.00	0.00
March 28, 2022	0.00	0.00	0.00
March 29, 2022	0.00	0.00	0.03
March 30, 2022	0.00	0.00	0.00
March 31, 2022	0.00	0.00	0.00
April 1, 2022	0.00	0.00	0.00
April 2, 2022	0.00	0.00	0.00
April 3, 2022	0.00	0.00	0.00
April 4, 2022	0.00	0.00	0.00
April 5, 2022	0.00	0.00	0.00
April 6, 2022	0.00	0.00	0.00
April 7, 2022	0.00	0.00	0.00
April 8, 2022	0.00	0.00	0.00
April 9, 2022	0.00	0.00	0.00
April 10, 2022	0.00	0.00	0.00
April 11, 2022	0.00	0.00	0.00
April 12, 2022	0.00	0.00	0.00
April 13, 2022	0.00	0.00	0.00
April 14, 2022	0.00	0.00	0.00
April 15, 2022	0.00	0.00	0.00
April 16, 2022	0.00	0.00	0.00
April 17, 2022	0.00	0.00	0.00
April 18, 2022	0.00	0.00	0.00
April 19, 2022	0.00	0.00	0.00
April 20, 2022	0.00	0.00	0.00
April 21, 2022	0.00	0.00	0.00
April 22, 2022	0.00	0.00	0.00
April 23, 2022	0.00	0.00	0.00
April 24, 2022	0.00	0.00	0.00
April 25, 2022	0.00	0.00	0.08
April 26, 2022	0.00	0.00	0.08
April 27, 2022	0.00	0.00	0.08
April 28, 2022	0.00	0.00	0.05
April 29, 2022	0.00	0.00	0.03
April 30, 2022	0.00	0.00	0.00

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
May 1, 2022	0.00	0.00	0.10
May 2, 2022	0.00	0.00	0.00
May 3, 2022	0.00	0.00	0.00
May 4, 2022	0.00	0.00	0.00
May 5, 2022	0.00	0.00	0.05
May 6, 2022	0.00	0.00	0.00
May 7, 2022	0.00	0.00	0.00
May 8, 2022	0.00	0.00	0.03
May 9, 2022	0.00	0.00	0.00
May 10, 2022	0.00	0.00	0.05
May 11, 2022	0.00	0.00	0.00
May 12, 2022	0.00	0.00	0.00
May 13, 2022	0.00	0.00	0.00
May 14, 2022	0.00	0.00	0.03
May 15, 2022	0.00	0.00	0.00
May 16, 2022	0.00	0.00	0.00
May 17, 2022	0.00	0.00	0.05
May 18, 2022	0.00	0.00	0.00
May 19, 2022	0.00	0.00	0.03
May 20, 2022	0.00	0.00	0.00
May 21, 2022	0.00	0.00	0.00
May 22, 2022	0.00	0.00	0.05
May 23, 2022	0.00	0.00	0.00
May 24, 2022	0.00	0.00	0.00
May 25, 2022	0.00	0.00	0.00
May 26, 2022	0.00	0.00	0.03
May 27, 2022	0.00	0.00	0.38
May 28, 2022	0.00	0.00	0.08
May 29, 2022	0.00	0.00	0.13
May 30, 2022	0.00	0.00	0.05
May 31, 2022	0.00	0.00	0.00
June 1, 2022	0.00	0.00	0.03
June 2, 2022	0.00	0.00	0.00
June 3, 2022	0.00	0.00	0.00
June 4, 2022	0.05	0.18	0.60
June 5, 2022	0.00	0.00	0.00
June 6, 2022	0.00	0.00	0.03
June 7, 2022	0.00	0.00	0.00
June 8, 2022	0.00	0.00	0.00
June 9, 2022	0.00	0.00	0.13



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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
June 10, 2022	0.00	0.00	0.00
June 11, 2022	0.00	0.00	0.00
June 12, 2022	0.00	0.00	0.03
June 13, 2022	0.00	0.00	0.00
June 14, 2022	0.00	0.00	0.00
June 15, 2022	0.00	0.00	0.05
June 16, 2022	0.00	0.00	0.00
June 17, 2022	0.00	0.00	0.00
June 18, 2022	0.00	0.00	0.03
June 19, 2022	0.00	0.00	0.00
June 20, 2022	0.00	0.00	0.00
June 21, 2022	0.00	0.00	0.05
June 22, 2022	0.00	0.00	0.00
June 23, 2022	0.00	0.00	0.18
June 24, 2022	0.00	0.00	0.00
June 25, 2022	0.00	0.00	0.00
June 26, 2022	0.00	0.00	0.00
June 27, 2022	0.00	0.00	0.00
June 28, 2022	0.13	0.25	0.63
June 29, 2022	0.00	0.00	0.12
June 30, 2022	0.00	0.00	0.00



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APPENDIX C

CSO108 UNDERFLOW PUMP FLOW METER DATA



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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
January 1, 2022	1.43	190,609.26	1,425,856.35
January 2, 2022	0.13	17,688.25	132,317.30
January 3, 2022	0.05	6,743.03	50,441.38
January 4, 2022	0.03	4,146.23	31,015.99
January 5, 2022	0.02	3,192.37	23,880.60
January 6, 2022	0.02	2,655.51	19,864.56
January 7, 2022	0.01	1,623.40	12,143.85
January 8, 2022	0.01	1,655.83	12,386.44
January 9, 2022	0.01	946.71	7,081.87
January 10, 2022	0.14	19,335.49	144,639.49
January 11, 2022	0.04	4,733.43	35,408.50
January 12, 2022	0.03	3,444.78	25,768.76
January 13, 2022	0.03	3,387.22	25,338.17
January 14, 2022	0.02	2,147.16	16,061.90
January 15, 2022	0.01	1,978.27	14,798.52
January 16, 2022	0.01	818.41	6,122.11
January 17, 2022	0.01	872.33	6,525.52
January 18, 2022	0.01	936.22	7,003.43
January 19, 2022	0.00	174.37	1,304.39
January 20, 2022	0.01	767.54	5,741.60
January 21, 2022	0.01	939.23	7,025.96
January 22, 2022	0.00	349.44	2,614.02
January 23, 2022	0.01	949.82	7,105.11
January 24, 2022	0.00	250.93	1,877.07
January 25, 2022	0.02	2,508.54	18,765.21
January 26, 2022	(2.04)	(272,851.44)	(2,041,070.64)
January 27, 2022	(0.00)	(2.33)	(17.47)
January 28, 2022	-	0.00	0.00
January 29, 2022	-	0.00	0.00
January 30, 2022	-	0.00	0.00
January 31, 2022	-	0.00	0.00
February 1, 2022	-	0.00	0.00
February 2, 2022	-	0.00	0.00
February 3, 2022	-	0.00	0.00
February 4, 2022	0.01	687.72	5,144.54
February 5, 2022	(0.01)	(687.72)	(5,144.54)
February 6, 2022	0.01	670.25	5,013.84
February 7, 2022	(0.01)	(670.25)	(5,013.84)
February 8, 2022	-	0.00	0.00

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
February 9, 2022	-	0.00	0.00
February 10, 2022	-	0.00	0.00
February 11, 2022	-	0.00	0.00
February 12, 2022	-	0.00	0.00
February 13, 2022	-	0.00	0.00
February 14, 2022	-	0.00	0.00
February 15, 2022	-	0.00	0.00
February 16, 2022	-	0.00	0.00
February 17, 2022	-	0.00	0.00
February 18, 2022	0.00	47.61	356.13
February 19, 2022	(0.00)	(47.61)	(356.13)
February 20, 2022	0.00	607.75	4,546.27
February 21, 2022	(0.00)	(607.75)	(4,546.27)
February 22, 2022	-	0.00	0.00
February 23, 2022	-	0.00	0.00
February 24, 2022	-	0.00	0.00
February 25, 2022	-	0.00	0.00
February 26, 2022	-	0.00	0.00
February 27, 2022	-	0.00	0.00
February 28, 2022	-	0.00	0.00
March 1, 2022	-	0.00	0.00
March 2, 2022	-	0.00	0.00
March 3, 2022	-	0.00	0.00
March 4, 2022	-	0.00	0.00
March 5, 2022	-	0.00	0.00
March 6, 2022	-	0.00	0.00
March 7, 2022	-	0.00	0.00
March 8, 2022	-	0.00	0.00
March 9, 2022	-	0.00	0.00
March 10, 2022	-	0.00	0.00
March 11, 2022	-	0.00	0.00
March 12, 2022	-	0.00	0.00
March 13, 2022	-	0.00	0.00
March 14, 2022	0.01	1,308.93	9,791.50
March 15, 2022	(0.00)	(623.02)	(4,660.52)
March 16, 2022	(0.00)	(67.66)	(506.11)
March 17, 2022	(0.00)	(618.25)	(4,624.87)
March 18, 2022	0.01	679.74	5,084.78
March 19, 2022	(0.01)	(679.74)	(5,084.78)



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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
March 20, 2022	0.00	644.79	4,823.36
March 21, 2022	(0.00)	(644.79)	(4,823.36)
March 22, 2022	0.00	636.61	4,762.17
March 23, 2022	(0.00)	(636.61)	(4,762.17)
March 24, 2022	-	0.00	0.00
March 25, 2022	0.00	639.92	4,786.97
March 26, 2022	(0.00)	(639.92)	(4,786.97)
March 27, 2022	-	0.00	0.00
March 28, 2022	0.00	583.08	4,361.74
March 29, 2022	(0.00)	(583.08)	(4,361.74)
March 30, 2022	-	0.00	0.00
March 31, 2022	-	0.00	0.00
April 1, 2022	-	0.00	0.00
April 2, 2022	-	0.00	0.00
April 3, 2022	-	0.00	0.00
April 4, 2022	-	0.00	0.00
April 5, 2022	-	0.00	0.00
April 6, 2022	-	0.00	0.00
April 7, 2022	-	0.00	0.00
April 8, 2022	-	0.00	0.00
April 9, 2022	-	0.00	0.00
April 10, 2022	-	0.00	0.00
April 11, 2022	-	0.00	0.00
April 12, 2022	-	0.00	0.00
April 13, 2022	-	0.00	0.00
April 14, 2022	-	0.00	0.00
April 15, 2022	-	0.00	0.00
April 16, 2022	-	0.00	0.00
April 17, 2022	-	0.00	0.00
April 18, 2022	-	0.00	0.00
April 19, 2022	-	0.00	0.00
April 20, 2022	-	0.00	0.00
April 21, 2022	-	0.00	0.00
April 22, 2022	-	0.00	0.00
April 23, 2022	-	0.00	0.00
April 24, 2022	0.01	1,297.82	9,708.37
April 25, 2022	(0.00)	(33.27)	(248.89)
April 26, 2022	0.00	27.26	203.95
April 27, 2022	(0.00)	(642.09)	(4,803.16)

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
April 28, 2022	0.00	4.17	31.20
April 29, 2022	(0.00)	(653.89)	(4,891.47)
April 30, 2022	0.01	1,371.64	10,260.59
May 1, 2022	(0.01)	(1,371.64)	(10,260.59)
May 2, 2022	-	0.00	0.00
May 3, 2022	-	0.00	0.00
May 4, 2022	0.00	651.21	4,871.36
May 5, 2022	(0.00)	(651.21)	(4,871.36)
May 6, 2022	-	0.00	0.00
May 7, 2022	0.00	648.54	4,851.39
May 8, 2022	(0.00)	(648.54)	(4,851.39)
May 9, 2022	0.00	602.70	4,508.47
May 10, 2022	(0.00)	(602.70)	(4,508.47)
May 11, 2022	-	0.00	0.00
May 12, 2022	-	0.00	0.00
May 13, 2022	0.00	644.40	4,820.41
May 14, 2022	(0.00)	(644.40)	(4,820.41)
May 15, 2022	-	0.00	0.00
May 16, 2022	0.00	560.29	4,191.23
May 17, 2022	(0.00)	(560.29)	(4,191.23)
May 18, 2022	0.00	651.22	4,871.43
May 19, 2022	(0.00)	(651.22)	(4,871.43)
May 20, 2022	-	0.00	0.00
May 21, 2022	0.00	649.82	4,861.02
May 22, 2022	(0.00)	(649.82)	(4,861.02)
May 23, 2022	-	0.00	0.00
May 24, 2022	-	0.00	0.00
May 25, 2022	0.00	644.34	4,819.97
May 26, 2022	0.04	5,189.58	38,820.76
May 27, 2022	(0.03)	(4,549.92)	(34,035.77)
May 28, 2022	0.00	656.41	4,910.32
May 29, 2022	(0.01)	(1,292.53)	(9,668.76)
May 30, 2022	(0.00)	(647.88)	(4,846.51)
May 31, 2022	0.00	651.98	4,877.18
June 1, 2022	(0.00)	(651.98)	(4,877.18)
June 2, 2022	-	0.00	0.00
June 3, 2022	0.07	8,733.15	65,328.49
June 4, 2022	(0.07)	(8,733.15)	(65,328.49)
June 5, 2022	0.00	656.93	4,914.19

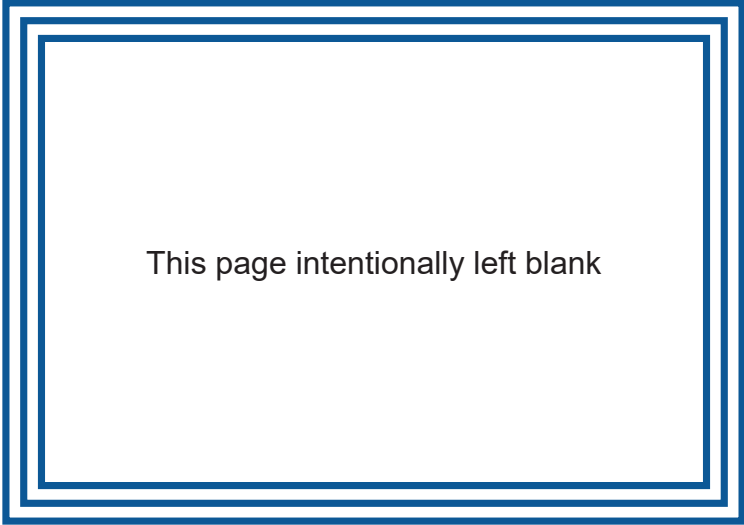


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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
June 6, 2022	(0.00)	(656.93)	(4,914.19)
June 7, 2022	-	0.00	0.00
June 8, 2022	0.01	1,983.98	14,841.21
June 9, 2022	(0.01)	(1,983.98)	(14,841.21)
June 10, 2022	-	0.00	0.00
June 11, 2022	0.00	644.20	4,818.94
June 12, 2022	(0.00)	(644.20)	(4,818.94)
June 13, 2022	-	0.00	0.00
June 14, 2022	0.00	643.77	4,815.72
June 15, 2022	(0.00)	(643.77)	(4,815.72)
June 16, 2022	-	0.00	0.00
June 17, 2022	0.00	656.28	4,909.35
June 18, 2022	(0.00)	(656.28)	(4,909.35)
June 19, 2022	-	0.00	0.00
June 20, 2022	0.00	623.99	4,667.78
June 21, 2022	(0.00)	(623.99)	(4,667.78)
June 22, 2022	0.02	2,243.60	16,783.31
June 23, 2022	(0.02)	(2,243.60)	(16,783.31)
June 24, 2022	-	0.00	0.00
June 25, 2022	-	0.00	0.00
June 26, 2022	-	0.00	0.00
June 27, 2022	0.06	8,189.82	61,264.14
June 28, 2022	(0.05)	(6,212.06)	(46,469.44)
June 29, 2022	(0.01)	(1,977.76)	(14,794.70)
June 30, 2022	0.00	663.00	4,959.56



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**Louisville and Jefferson County
Metropolitan Sewer District
Second Amended Consent Decree
Annual Report FY22**

