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July 30, 2020

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Subject: Quarterly Report 59  
Civil Action No. 3:08-cv-00608-CRS

Attention Director and Chiefs:

Please find attached our Quarterly Report, prepared in accordance with Paragraph 29 of our Amended Consent Decree. This report is for the period April 1, 2020 – June 31, 2020, pertaining to Consent Decree compliance activities. Included are sections on Project WIN activities related to: NMC, SORP, Discharge Abatement Plans, Public Outreach, Education, Notification and Participation, CMOM and Performance Overview.

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

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

Sincerely,

Angela Akridge, PE  
Louisville MSD Chief Strategic Officer

cc: James A. Parrott  
Jacquelyn Quarles  
File



# **Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #59**



**Reporting Period:**

April 1, 2020 through June 30, 2020

**Submitted To:**

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

**Submitted By:**

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

**Submittal Date:**

July 30, 2020

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## INTRODUCTION

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

### Quarterly Reporting Period

This is the fifty-nine Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from April 1, 2020, through June 30, 2020. The structure for this report is outlined as follows:

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

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

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

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

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

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





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

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

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

#### 1.1.1. SANITARY SEWER OVERFLOW ELIMINATION ACTIVITIES

Refer to Section 4.4.1 for Final SSDP project updates.

#### 1.1.2. COMBINED SEWER OVERFLOW REDUCTION AND CONTROL ACTIVITIES

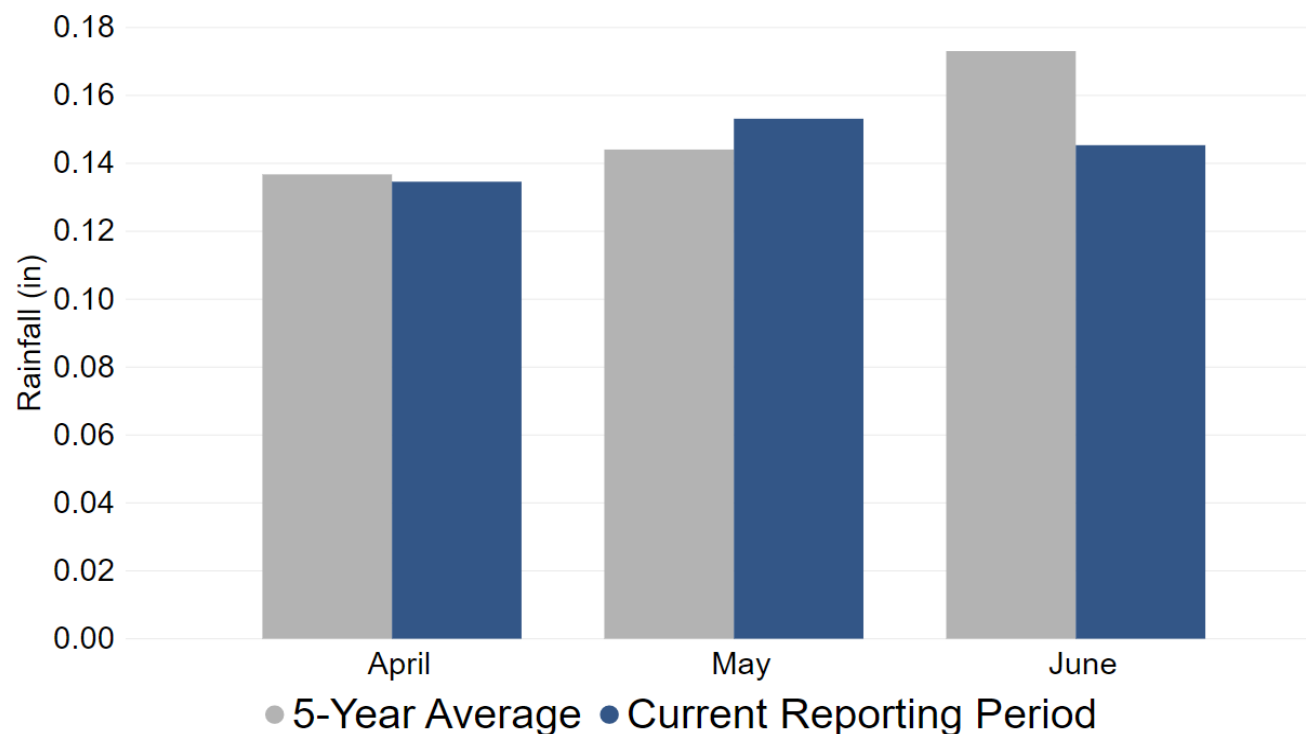
Refer to Section 4.4.2 for CSO LTCP project updates.

### 1.2. SYSTEMWIDE PERFORMANCE

#### 1.2.1. RAINFALL

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

Figure 1.1. Daily Average Rainfall by Month



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## **1.3. WATER QUALITY TREATMENT CENTER PERFORMANCE**

### **1.3.1. BYPASSES**

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

### **1.3.2. JEFFERSONTOWN WATER QUALITY TREATMENT CENTER**

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

### **1.3.3. PHOSPHORUS MONITORING AT THE PROSPECT WQTCs**

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

## **1.4. COMBINED SEWER OVERFLOW PERFORMANCE**

### **1.4.1. AUTHORIZED DISCHARGES – WET WEATHER CSOs**

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

### **1.4.2. UNAUTHORIZED DISCHARGES – DRY WEATHER CSOs**

There were no dry weather overflow reported at a CSO during the reporting period. Any details are included in Appendix A-2. MSD records information related to dry weather overflows from permitted combined sewer overflow outfalls. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. A detailed report of these overflows will be included in the Annual Report for the current reporting period.

### **1.4.3. CSO FLOW MONITORING QUALITY IMPROVEMENT**

During the July 2016 – September 2016 reporting period, MSD identified a potential for inaccurate volume reporting at some CSOs. This was identified by comparing measured overflow volumes against modeled overflow volumes for similar storms. It was determined that several CSO flow monitors are affected by backwater levels from the receiving streams causing a discrepancy actual overflow volume, along with other potential variables at some locations. MSD notified EPA and KDEP of data discrepancies on September 29, 2016.

A workgroup was established to review CSO flow monitoring and resolve potential over-reporting of overflow volumes. Initial findings indicated that potentially significant discrepancies between modeling and monitoring data existed at 33 of MSD's 98 CSO locations. This set of 33 CSOs was the highest priority to review, correct data, document SOPs, and implement changes. For these CSO locations, MSD performed site visits including elevation surveys, performed detailed analysis, investigated equipment configurations, and investigated PLC programming or monitoring program logic. This has led to the development of an SOP for each CSO that describes the existing monitoring equipment, configuration, and flow calculation in use as of December 31, 2016, and evaluates the effectiveness of the existing setup. If a more effective arrangement was recommended, MSD added the proposed arrangement to the SOP for implementation and determined if historical data could be updated. In cases where the historical data could be updated, MSD has developed revised volumes for reporting. Locations for which revised volumes have been developed are detailed in Appendix F. In some cases, historical volumes could not be recalculated based on the available data. For instance, CSOs influenced by river or creek



elevation for which there was no available historic level data could not be recalculated for historical volumes but will be calculated or measured according to the revised SOPs as they are implemented.

To date, SOPs have been drafted and historical volume data corrections (where possible) have been made for all of the 98 CSO locations as summarized in Figure 1.2 and Figure 1.3 and detailed in Appendix F. Multiple SOPs required programming or equipment changes in order to implement the final SOPs.

Now that the review is complete, CSO flow monitoring data included as an appendix to each quarterly report, will no longer be listed as “Draft”. Regular and ongoing meetings between the Engineering and Operations Divisions will continue to occur. MSD will continue to update and refine changes to meter location and calculation algorithms as needed. These changes will be documented in updated monitoring procedures.

Revised volumes for previous reporting periods up to and including FY18 for the 33 CSO locations initially reviewed were included as an appendix to the FY18 Consent Decree Annual Report. Any subsequently developed revised volumes for previous reporting periods up to and including FY20 will be included as an appendix to the FY20 Consent Decree Annual Report.

## **1.5. COLLECTION SYSTEM OVERFLOW PERFORMANCE**

### **1.5.1. UNAUTHORIZED DISCHARGES TO WATERS OF US**

MSD recorded information related to overflows reaching Waters of the United States (WUS) for the reporting period. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. Details of these overflows are included in Appendix A-3. During this quarter, 16 unauthorized discharges to WUS were reported, as summarized in Table 1.1.

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

### **1.5.2. OVERFLOWS TO INTERIOR**

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

## **1.6. GRAVITY LINE PREVENTIVE MAINTENANCE (GLPM)**

Each quarter, data and statistics relating to the cleaning, inspection and maintenance of sewer assets performed under the Gravity Line Preventive Maintenance program are reported. Data for the current reporting period is shown in Figure 1.4 through Figure 1.6.

Targets, indicated by a blue line on the gauges in Figure 1.4 and Figure 1.5 have been developed for structured work only, which includes any preventive or predictive activities that are routinely scheduled to maintain asset condition and decrease its likelihood of failure. Corrective maintenance activities are shown in Figure 1.6 and include those activities performed as a reaction to correct asset deficiencies, whether identified through structured work or from outside the program, and do not have associated targets.

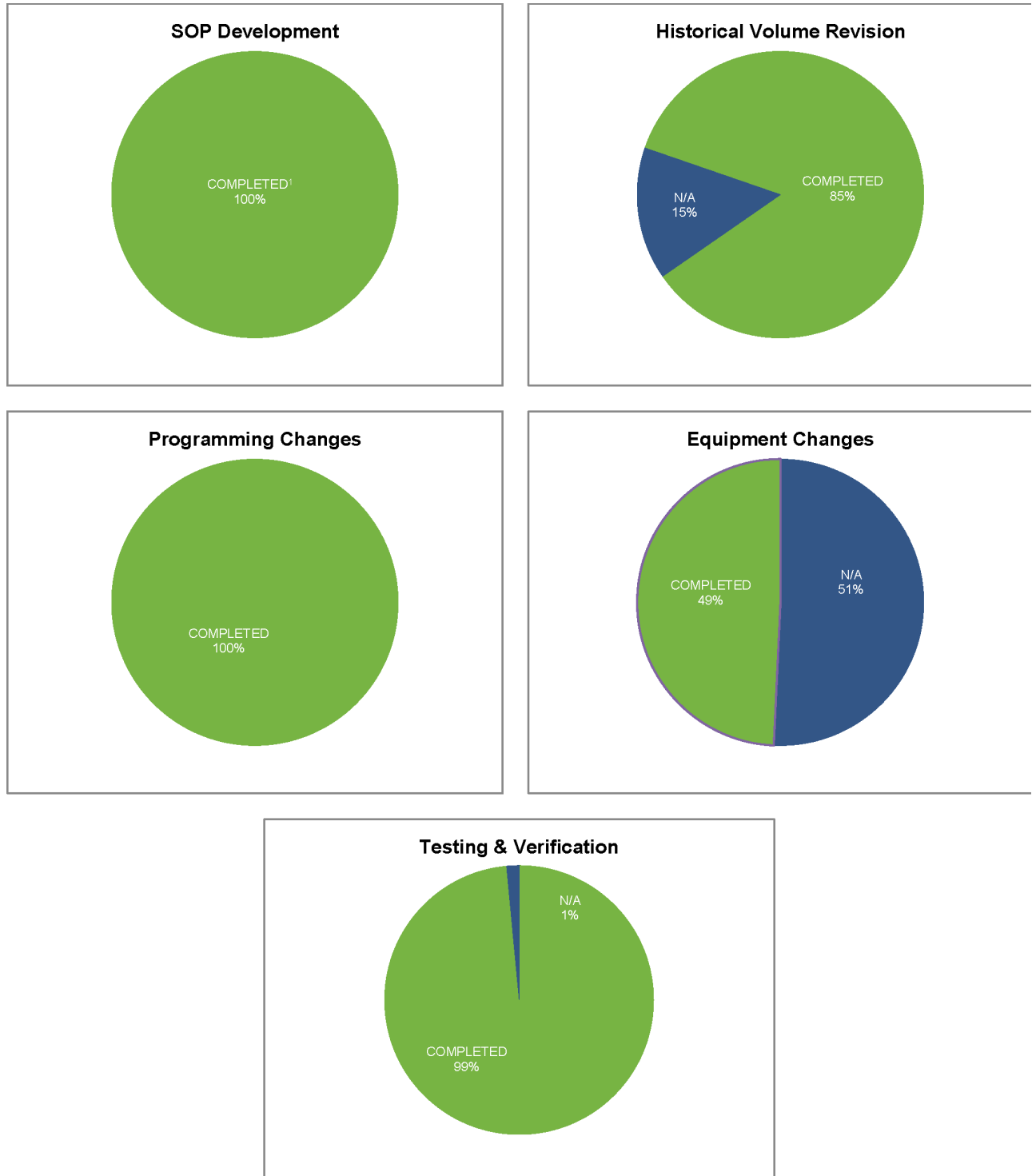
**Table 1.1. Dry and Wet Weather SSOs by Cause – Unauthorized Discharges to Waters of US**

<b>PROBLEM</b>	<b>DRY WEATHER</b>	<b>WET WEATHER</b>
LACK OF SYSTEM CAPACITY	0	14
STRUCTURAL FAILURE	0	1
MECHANICAL FAILURE	1	0

**Figure 1.2. CSO Flow Monitoring Improvement Status - Phase 1**



Figure 1.3. CSO Flow Monitoring Improvement Status - Phase 2



<sup>1</sup>Draft SOPs are completed and under review.

Figure 1.4. Catch Basin Cleaning

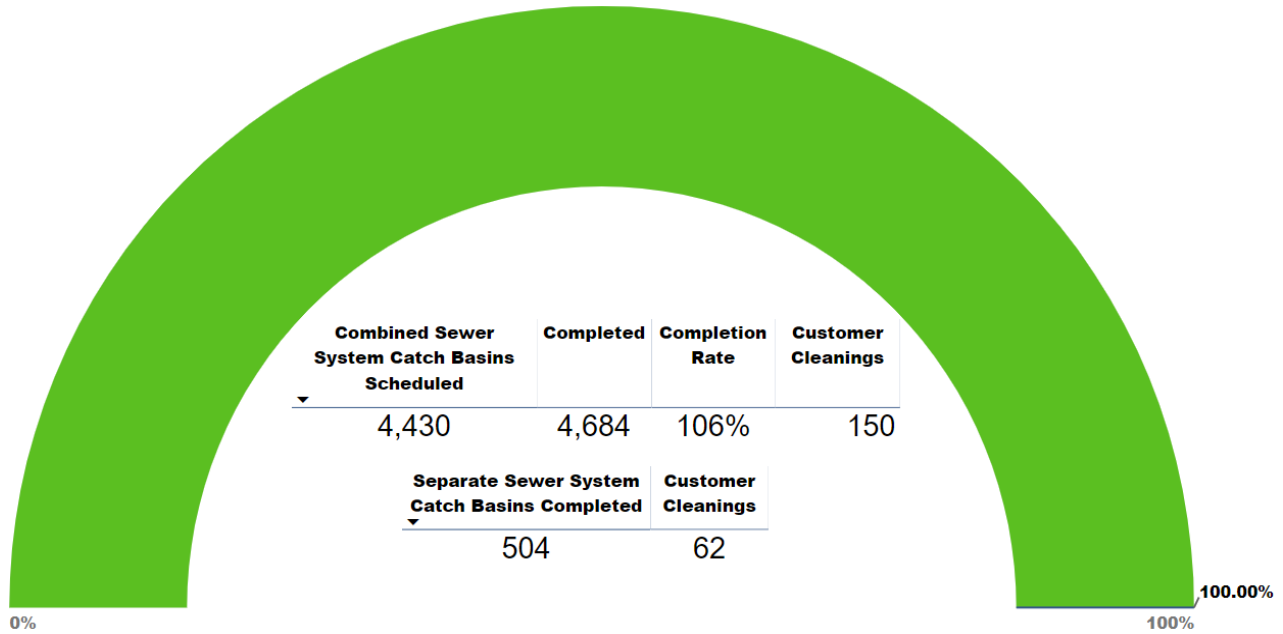


Figure 1.5. CSO Inspections and Cleaning

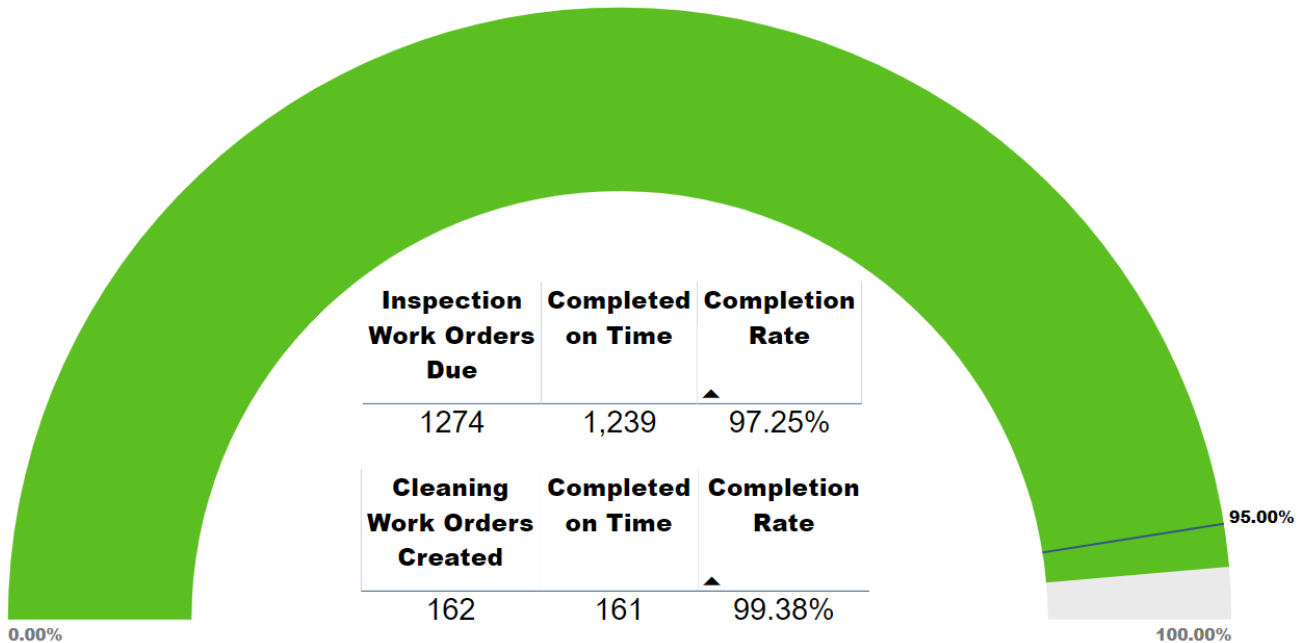
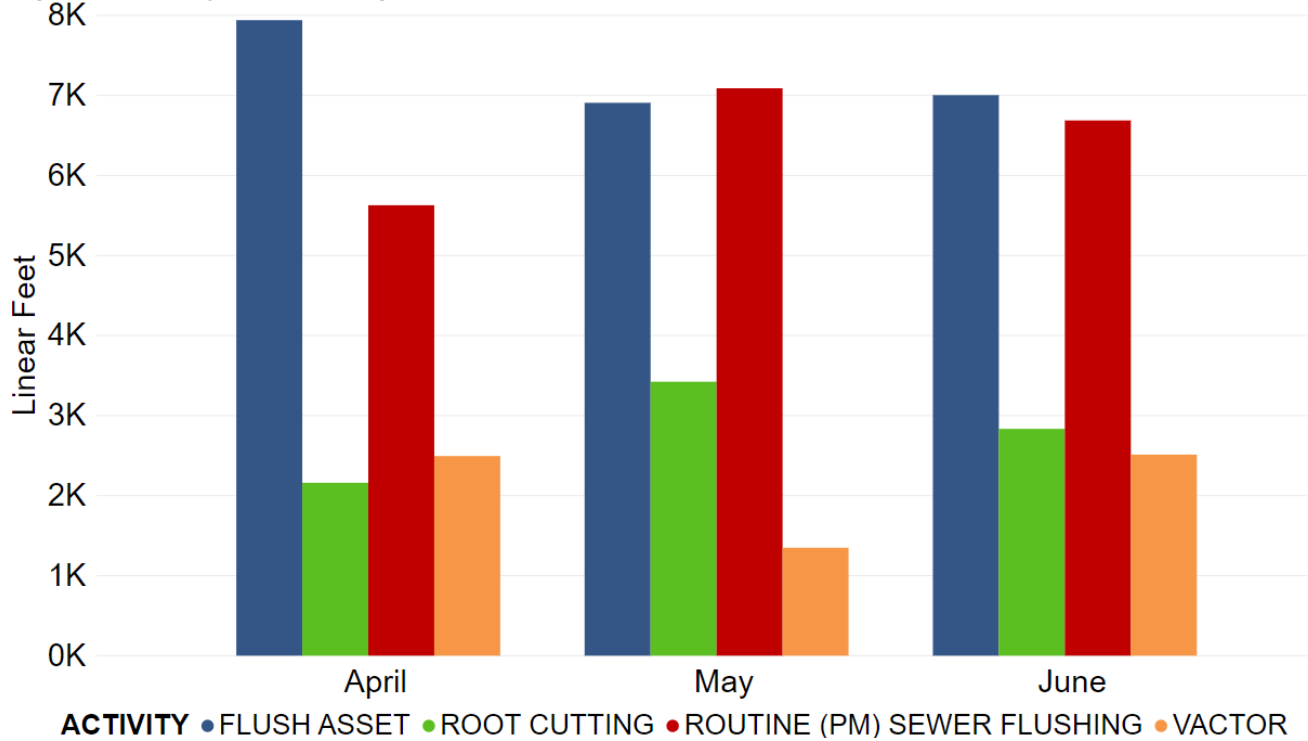


Figure 1.6. Gravity Main Cleaning







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

### **2.1. NINE MINIMUM CONTROLS PROGRAM BACKGROUND**

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

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

MSD has continued operation of the Real Time Control (RTC) system. During this reporting period, approximately 111 MG were stored in the system during rain events and routed to the Morris Forman WQTC once the system was able to handle the flow. See Table 2.1 at the end of this section for a detailed report.

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

#### RTC Integration

- MSD and the RTC consultant continue 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.
- During this reporting period, MSD and the RTC consultant continue 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.
- MSD and the RTC consultant continued preparing a master programming guide for RTC facilities to document existing programming and parameters at each facility as a reference to ensure long-term continuity of the RTC system.
- MSD continued review of the updated master RTC SOP manual and submittal of comments to the RTC Consultant.
- During the next reporting period, MSD will continue implementing RTC SOPs and validating operations. The RTC Consultant will begin developing Csoft configuration to support integration of the Portland CSO storage basin. Once the site has been validated through manual operation and gradual implementation of local automatic control, the facility will be fully commissioned into the RTC system. MSD and the RTC consultant will begin preparing SOPs for the Rowan St PS and the Logan CSO Interceptor in advance of integration of these facilities into RTC. MSD will complete the review of the updated master RTC SOP Manual. MSD will continue developing a master programming guide for RTC facilities to document existing programming and parameters at each facility as a reference to ensure long-term continuity of the RTC system. MSD will renew the RTC consultant's support contract for FY 21. MSD and the RTC consultant will begin development of an RTC Flood mode for facilities along the Ohio River influenced by high river levels.

#### RTC Performance Assessment and Improvements

- The main objective of the RTC performance assessment is to determine whether the available flow and storage capacities within the system are utilized to their optimal potential. MSD staff continues to review and prioritize strategies for performance improvement. During the next reporting period, MSD staff and the RTC consultant will continue to implement hardware, software, and set-point changes as applicable on a site-by-site basis.

- MSD completed temporary flow monitoring of the Middle Fork Trunk to gather data to improve model calibration during post event recovery to improve dewater of the Clifton Heights and Logan CSO Storage Basin.
- MSD and the RTC consultant deployed the Hydroweb RTC dashboard. The dashboard is fully functional and incorporates all RTC sites currently integrated into the RTC system and provides graphics and interfaces to support weekly and quarterly reporting functions.
- MSD and the RTC consultant continued incorporating Telog data into the Hydroweb dashboard.
- MSD improved level calculations at the Splitter Structure #1 to improve flow estimates from the SWPS to the MFWQTC.
- MSD and The RTC consultant adjusted the SOR1 management strategy to maintain a constant downstream setpoint at the MDS's inflatable dam.
- Gate 3 at the Southwestern Parkway CSO Storage facility was repaired so the facility could be managed under RTC control.
- Construction is in progress to install a flow meter between the Main Diversion Structure (MDS) and the Morris Forman Water Quality Treatment Center to improve monitoring of flow from the MDS.
- MSD will continue to monitor the RTC system to ensure proper operation and further refine operations of the RTC system as performance issues are observed. MSD and the RTC consultant will continue to refine the local site tuning of RTC facilities as needed based on performance during varying rain events. MSD will continue to improve and automate operations of the facilities integrated into the system. MSD and the RTC consultant will continue development of the Hydroweb dashboard.
- During the next reporting period, the RTC consultant will provide recommendations for improvements to the SWOR1 facility to enable set point increases that will allow a larger volume of in-line storage during rain events.

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

#### Plant Outage

The East and West Headworks were in service during the reporting period. Channels were taken out of service due to low flow as appropriate. The Final Effluent Pump Station (FEPS) was in service 56 days of the reporting period, limiting plant flow to 205 MGD. Flows at MFWQTC were sustained between 70 and 150 MGD, with some exceptions discussed below, before allowing flow to bypass secondary treatment during wet weather. Flows are shown in Figure 2.1 through Figure 2.3.

#### Morris Forman WQTC Projects

- MFWQTC Biosolids Management Solutions – The WIFIA loan application was submitted during the previous reporting period. Application is under review and is waiting for approval.
- MFWQTC Truck Unloading Station – The project was completed during the reporting period.
- MFWQTC Primary Sludge Line Replacement Project – The project was completed during the reporting period.
- MFWQTC FEPS VFD Replacement – The project scope changed from VFDs to soft starts. The project is scheduled to be completed in the third quarter of 2020.
- MFWQTC Cake Pump, Phase II – This project will add a larger cake pump to the existing screw and pump conveyance systems for additional cake solids conveyance to the cake truck load out for offsite disposal.

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

EVENT NUMBER	WET WEATHER EVENT			RAINFALL			CSO SAVED VOLUME (MG)														HIGH RIVER LEVELS	COMMENTS
	START DATE	END DATE	DURATION	AVERAGE*	MAX**		SWPS SG CHAMBER (14.25)	SWOR2 (4.1)	BRADY LAKE AND EXECUTIVE INN STORAGE (21.5)	ASHLAND (1.0)	OHIO RIVER INTERCEPTOR (1.8)	SOR1 (14.05)	SOBA BASIN (20.0)	SOBA WO (0.95)	SOBA NWI (3.9)	CLIFTON HEIGHTS (6.9)	LOGAN (17.0)	SNEADS BRANCH (2.5)	NGPS (8.0)	TOTAL (111.1)		
				TRFD (IN)	TRFD (IN)	RAIN GAUGE																
2020-025	2020-04-08 10:50 PM	2020-04-09 11:15 PM	24:01	0.35	0.45	TR11	3.60	0.75	1.40	0.00	1.40	0.60	0.80	-	0.35	0.40	0.90	0.10	0.10	10.40	No	Moderate wet weather event homogeneously distributed across the collection system with back-to-back storm cells. SOBA-WO data unavailable.
2020-026	2020-04-12 04:30 PM	2020-04-15 12:35 AM	56:01	1.60	1.80	TR14	22.65	4.55	20.00	1.20	1.85	14.00	15.75	-	4.00	3.15	16.00	1.45	0.60	105.20	No	Large wet weather event heterogeneously distributed across the collection system with back-to-back storm cells. SOBA-WO data unavailable.
2020-027	2020-04-17 02:55 PM	2020-04-18 07:00 AM	16:01	0.38	0.80	TR13	0.30	0.40	0.45	0.00	0.90	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	2.05	No	Moderate wet weather event heterogeneously distributed across the collection system with back-to-back storm cells. SOBA-WO data unavailable. The SWSG site was controlled manually.
2020-028	2020-04-23 06:00 AM	2020-04-24 03:35 PM	33:01	0.65	1.00	TR04	1.50	1.15	2.90	0.00	1.40	2.45	3.90	0.85	1.45	0.25	2.40	0.10	0.00	18.35	No	Large wet weather event homogeneously distributed across the collection system with back-to-back storm cells.
2020-029	2020-04-25 01:00 PM	2020-04-28 01:20 AM	60:01	0.73	0.96	TR13	0.20	0.65	1.10	0.00	2.20	0.10	0.30	0.45	3.10	0.20	0.85	0.00	0.00	9.15	No	Moderate wet weather event homogeneously distributed across the collection system with back-to-back storm cells.
2020-030	2020-04-29 11:20 AM	2020-04-30 04:30 PM	29:01	0.19	0.32	TR12	0.00	0.60	1.05	0.00	0.15	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	2.80	Yes	Small wet weather event homogeneously distributed across the collection system with back-to-back storm cells. The SWSG site was controlled manually.
2020-032	2020-05-05 04:35 AM	2020-05-05 03:55 PM	11:01	0.26	0.32	TR14	0.00	0.35	0.25	0.00	1.15	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	2.85	Yes	Small wet weather event homogeneously distributed across the collection system with back-to-back storm cells. The SWSG site was controlled manually.
2020-033	2020-05-08 07:35 AM	2020-05-09 10:35 AM	27:01	0.75	0.96	TR12	12.55	1.85	9.90	0.95	1.30	5.25	1.05	0.40	0.35	0.75	5.90	0.45	0.25	40.95	Yes	Moderate wet weather event homogeneously distributed across the collection system with back-to-back storm cells. The SWSG site was controlled manually.

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

EVENT NUMBER	WET WEATHER EVENT			RAINFALL			CSO SAVED VOLUME (MG)														HIGH RIVER LEVELS	COMMENTS	
	START DATE	END DATE	DURATION	AVERAGE*	MAX**		SWPS SG CHAMBER (14.25)	SWOR2 (4.1)	BRADY LAKE AND EXECUTIVE INN STORAGE (21.5)	ASHLAND (1.0)	OHIO RIVER INTERCEPTOR (1.8)	SOR1 (14.05)	SOBA BASIN (20.0)	SOBA WO (0.95)	SOBA NWI (3.9)	CLIFTON HEIGHTS (6.9)	LOGAN (17.0)	SNEADS BRANCH (2.5)	NGPS (8.0)	TOTAL (111.1)			
				TRFD (IN)	TRFD (IN)	RAIN GAUGE																	
2020-034	2020-05-13 05:35 AM	2020-05-14 05:40 PM	36:01	0.25	0.36	TR11	0.00	0.65	0.85	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	No	Moderate wet weather event homogeneously distributed across the collection system with back-to-back storm cells.
2020-035	2020-05-15 11:30 AM	2020-05-17 08:00 PM	56:01	1.48	1.78	TR11	24.05	2.50	18.80	1.00	1.20	13.40	8.70	1.30	3.95	0.30	3.25	0.80	0.40	0.40	79.65	No	Large wet weather event homogeneously distributed across the collection system with back-to-back storm cells.
2020-036	2020-05-17 08:00 PM	2020-05-19 10:10 AM	38:01	0.55	1.02	TR04	6.60	0.30	1.00	0.25	1.45	4.05	2.55	0.65	1.95	0.00	7.45	0.30	0.00	0.00	26.55	No	Moderate wet weather event homogeneously distributed across the collection system with back-to-back storm cells.
2020-037	2020-05-19 10:10 AM	2020-05-20 12:20 PM	26:01	0.02	0.05	TR04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	7.40	0.00	0.00	0.00	9.50	Yes	Very small wet weather event heterogeneously distributed across the collection system.
2020-039	2020-05-23 04:45 PM	2020-05-25 04:15 PM	47:01	0.79	1.33	TR15	2.00	0.70	3.85	0.30	1.20	0.00	0.00	0.00	0.00	0.80	1.80	0.10	0.45	0.45	11.20	Yes	Moderate wet weather event homogeneously distributed across the collection system with back-to-back storm cells. The SWSG site was controlled manually.
2020-040	2020-05-25 04:15 PM	2020-05-26 12:10 PM	19:01	0.22	0.86	TR04	7.00	1.90	0.65	0.15	1.50	1.05	1.35	0.45	2.10	1.65	0.75	0.10	0.00	0.00	18.65	Yes	Small wet weather event heterogeneously distributed across the collection system. The SWSG site was controlled manually.
2020-041	2020-05-26 03:15 PM	2020-05-30 12:00 AM	80:01	0.42	0.74	TR13	2.40	1.00	0.20	0.30	1.25	0.70	0.55	0.35	0.00	0.30	0.15	0.20	0.00	0.00	7.40	Yes	Moderate wet weather event homogeneously distributed across the collection system with back-to-back storm cells. The SWSG site was controlled manually.
2020-042	2020-06-04 01:55 PM	2020-06-06 03:50 PM	49:01	0.72	0.86	TR04	14.60	2.80	12.10	0.80	1.50	3.95	0.00	0.85	3.85	3.20	3.05	0.35	0.10	0.10	47.15	No	Moderate wet weather event heterogeneously distributed across the collection system.
2020-043	2020-06-09 12:20 PM	2020-06-14 07:30 AM	115:01	0.12	0.33	TR05	0.00	0.00	0.00	0.00	0.60	0.00	0.45	0.00	0.00	0.55	0.00	0.00	0.00	0.00	1.60	No	Small wet weather event heterogeneously distributed across the collection system.
2020-046	2020-06-21 11:40 AM	2020-06-22 10:25 AM	22:01	0.57	0.74	TR04	5.05	0.50	3.70	0.00	1.45	3.85	0.05	0.20	1.70	1.25	3.50	0.35	0.30	0.30	21.90	No	Moderate wet weather event homogeneously distributed across the collection system with back-to-back storm cells.

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

EVENT NUMBER	WET WEATHER EVENT			RAINFALL			CSO SAVED VOLUME (MG)													HIGH RIVER LEVELS	COMMENTS	
	START DATE	END DATE	DURATION	AVERAGE*	MAX**		SWPS SG CHAMBER (14.25)	SWOR2 (4.1)	BRADY LAKE AND EXECUTIVE INN STORAGE (21.5)	ASHLAND (1.0)	OHIO RIVER INTERCEPTOR (1.8)	SOR1 (14.05)	SOBA BASIN (20.0)	SOBA WO (0.95)	SOBA NWI (3.9)	CLIFTON HEIGHTS (6.9)	LOGAN (17.0)	SNEADS BRANCH (2.5)	NGPS (8.0)			TOTAL (111.1)
				TRFD (IN)	TRFD (IN)	RAIN GAUGE																
2020-047	2020-06-22 08:30 PM	2020-06-27 06:40 PM	118:01	1.08	1.43	TR11	13.45	2.40	13.05	0.90	2.40	4.45	1.10	0.00	3.90	4.15	16.15	1.40	0.10	63.45	No	Large wet weather event homogeneously distributed across the collection system with back-to-back storm cells.
2020-048	2020-06-27 06:40 PM	2020-06-29 03:15 AM	32:01	0.58	1.58	TR11	14.15	3.70	18.00	1.20	0.50	1.35	0.00	0.00	0.00	0.00	2.30	0.40	0.05	41.65	No	Moderate wet weather event homogeneously distributed across the collection system, with very intense peak at the beginning.
TOTAL							130.10	26.75	109.25	7.05	24.10	55.20	38.65	5.50	26.70	19.05	71.85	6.10	2.35	522.65		

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

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

\*\*\* The MDS is always controlled manually by operators.



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The project will also provide modifications to the East Cake Truck Bay to allow this second truck bay to be available for cake solids load out for offsite disposal. The project will add a third means for cake solids transfer to the load out bay and allow two trucks to be loaded from the West and East truck bay areas. Construction is estimated to be completed in the fourth quarter of 2020.

- MFWQTC Sedimentation Basin Rehabilitation – The Technology Selection Committee selected the Traveling Bridge technology. Design on the project is underway.
- MFWQTC Groundwater Study – The study was underway during this period.
- MFWQTC Hypochlorite Building Relocation – The project is currently in the design phase.
- MFWQTC OGA, PTO, and Chlorine Rail Car Facility Demolition – The project design was nearly completed during this period.
- MFWQTC Dryer Demolition - The demolition of all Dryer Trains was completed during the reporting period. Installation of new equipment is expected to begin in the fourth quarter of 2020.
- MFWQTC Chiller Replacement – Design of the Chiller Replacement is complete and ready for bidding.
- MFWQTC Headworks and Dumpster Building Structural and Blower Building Stairs – The design of project is completed and ready for bidding.
- MFWQTC Sewer and Manhole Condition Assessment – Design of the project is nearly completed.

#### Morris Forman WQTC Performance

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

Note that the flow meter downstream from CSO211 is known to be affected by Ohio River backwater effects and the ultrasonic signal is sometimes blocked by mist and condensation when air and sewage temperatures are significantly different. Therefore, CSO activations at CSO211 are keyed to water levels upstream and downstream of the inflatable dam in the Main Diversion Structure. The other CSO activations are tied to flow measurement downstream of the respective CSO. At times, “blips” representing very small volumes of overflow are indicated by flow meters even though an overflow cannot be verified by level measurements or other indicators. These blips are not reported as overflows, but are noted in the CSO monitoring data reported in Appendix B. In addition, indications of rainfall and CSO activations are shown on the day they happened, but are not aligned with the exact time, so the effluent flow graph (which is tied to actual time) may show peaks that are offset from the indicated rain or CSO events by as much as 24 hours.

Morris Forman effluent compliance for the previous three months is summarized in Table 2.2 where a “©” indicates compliance and an “X” indicates noncompliance. MSD continues to employ additional solids processing methods, including dewatered cake, an outside vendor to assist with solids handling in addition to purchasing additional liquid oxygen, and dewatering of regional solids at Derek R. Guthrie WQTC in an effort to meet permit requirements.

## **2.4. NMC ACTIVITY SCHEDULE**

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





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

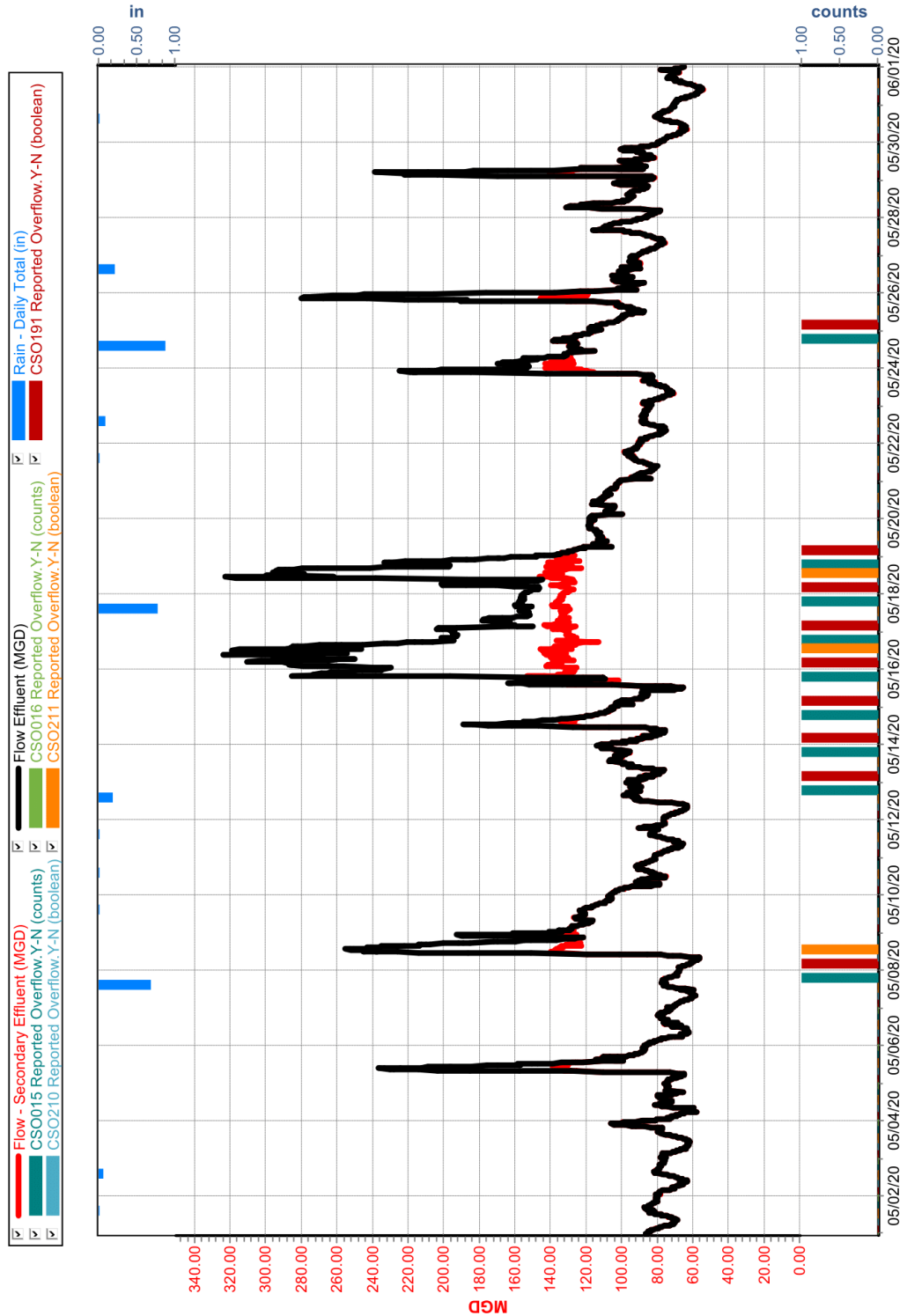
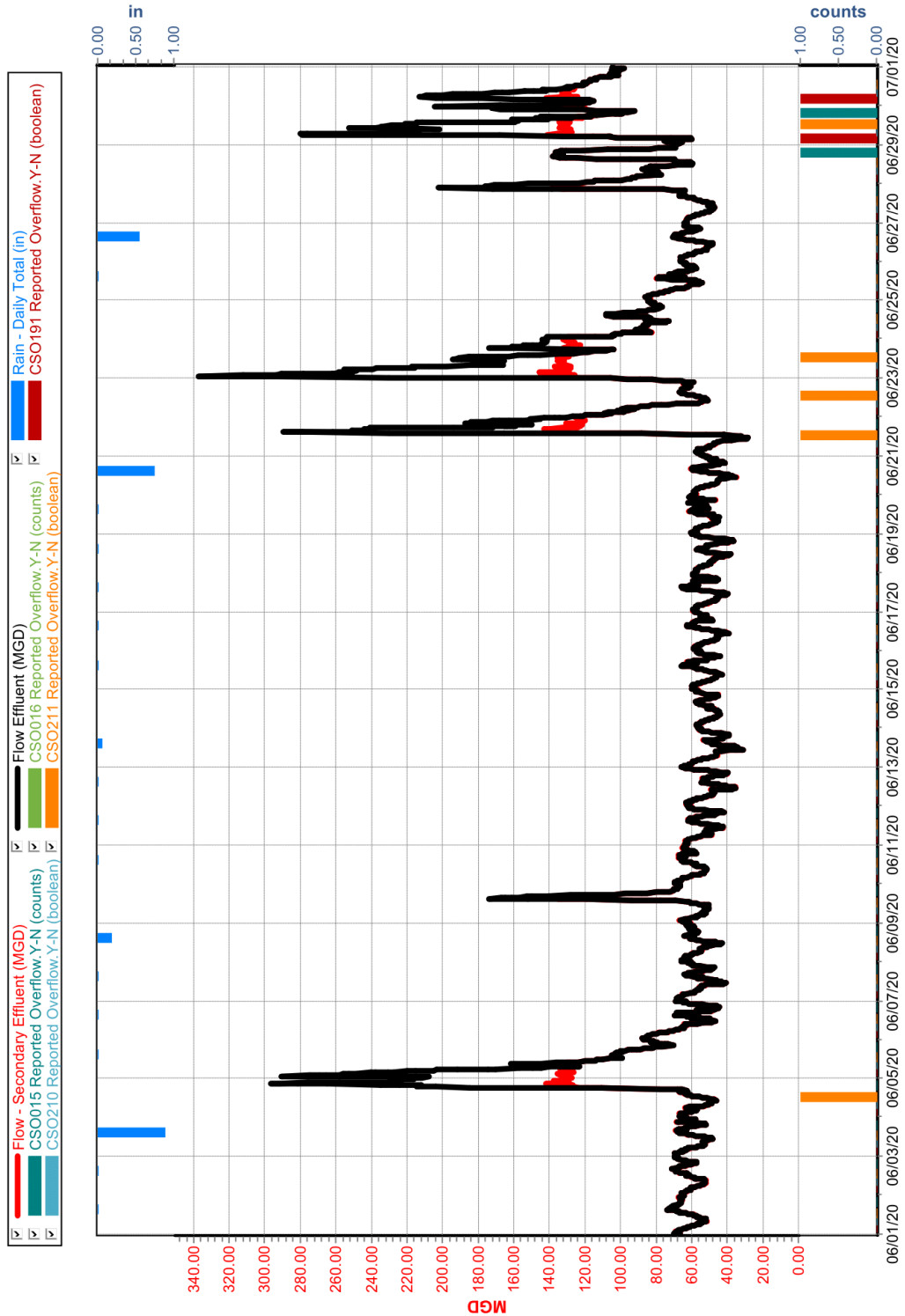


Figure 2.3. Morris Forman WQTC - Plant Flows and Associated CSO Activations - June



**Table 2.2. Morris Forman WQTC Permit Compliance**

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

Figure 2.4. NMC Quarterly Commitments Schedule

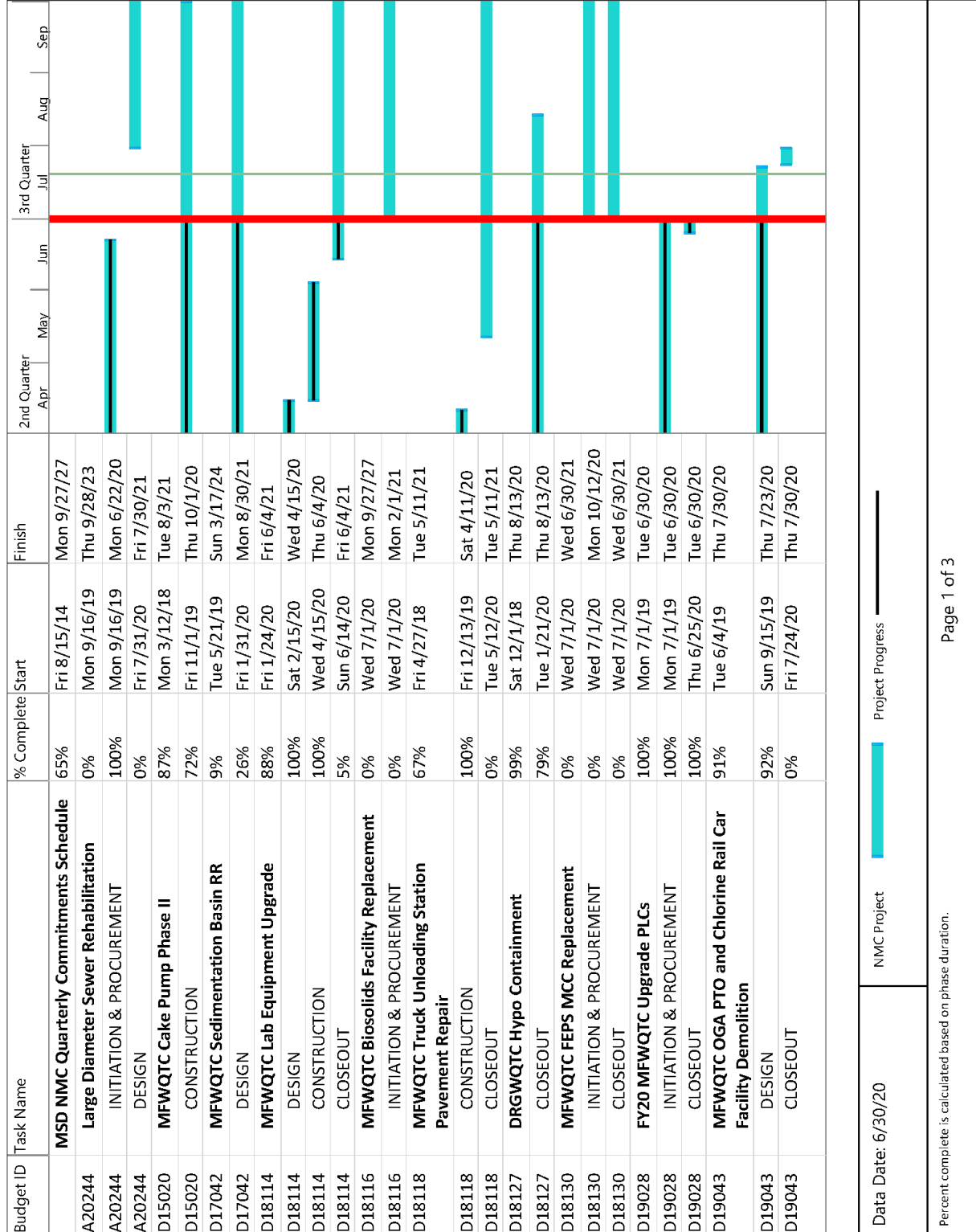


Figure 2.4. NMC Quarterly Commitments Schedule

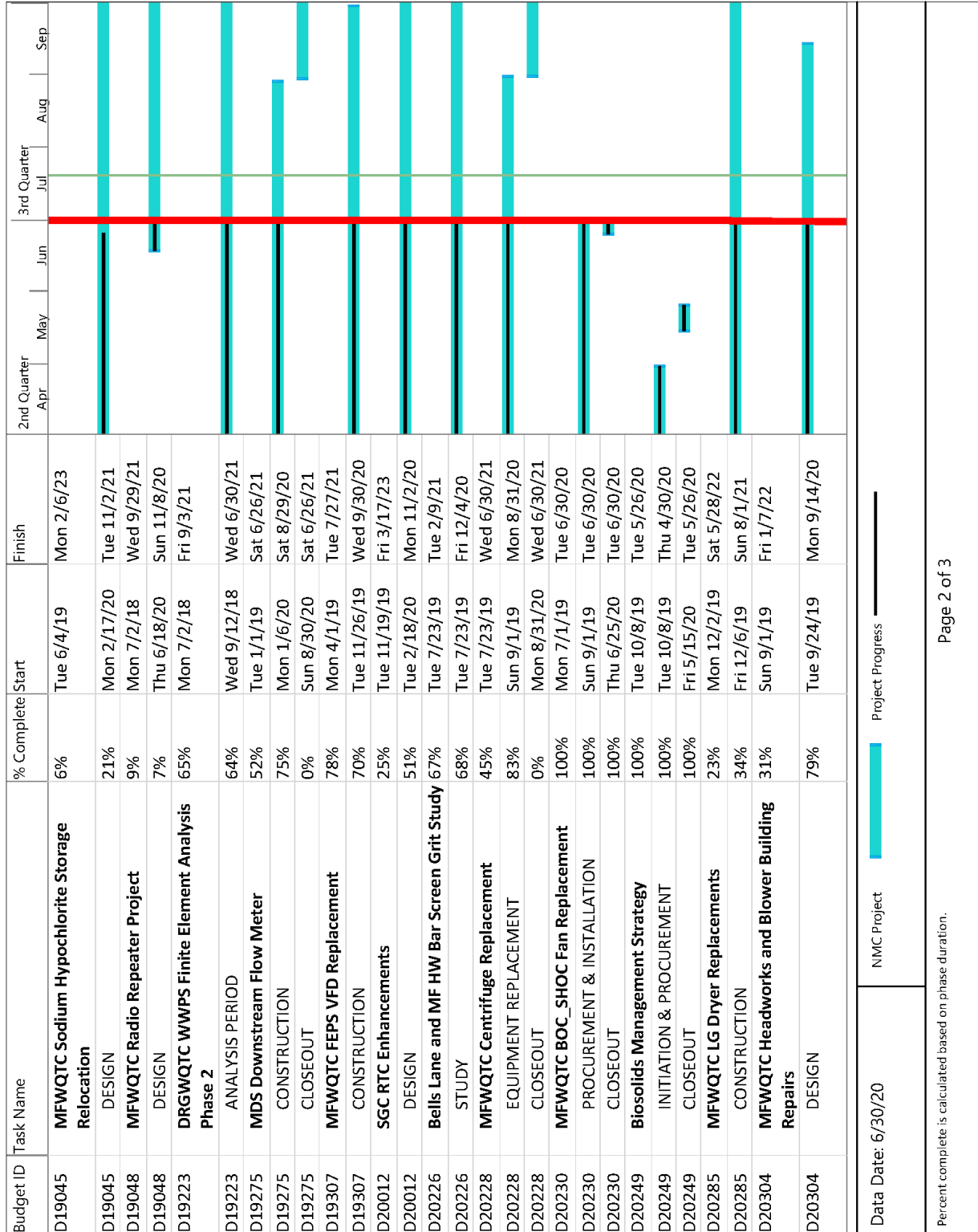
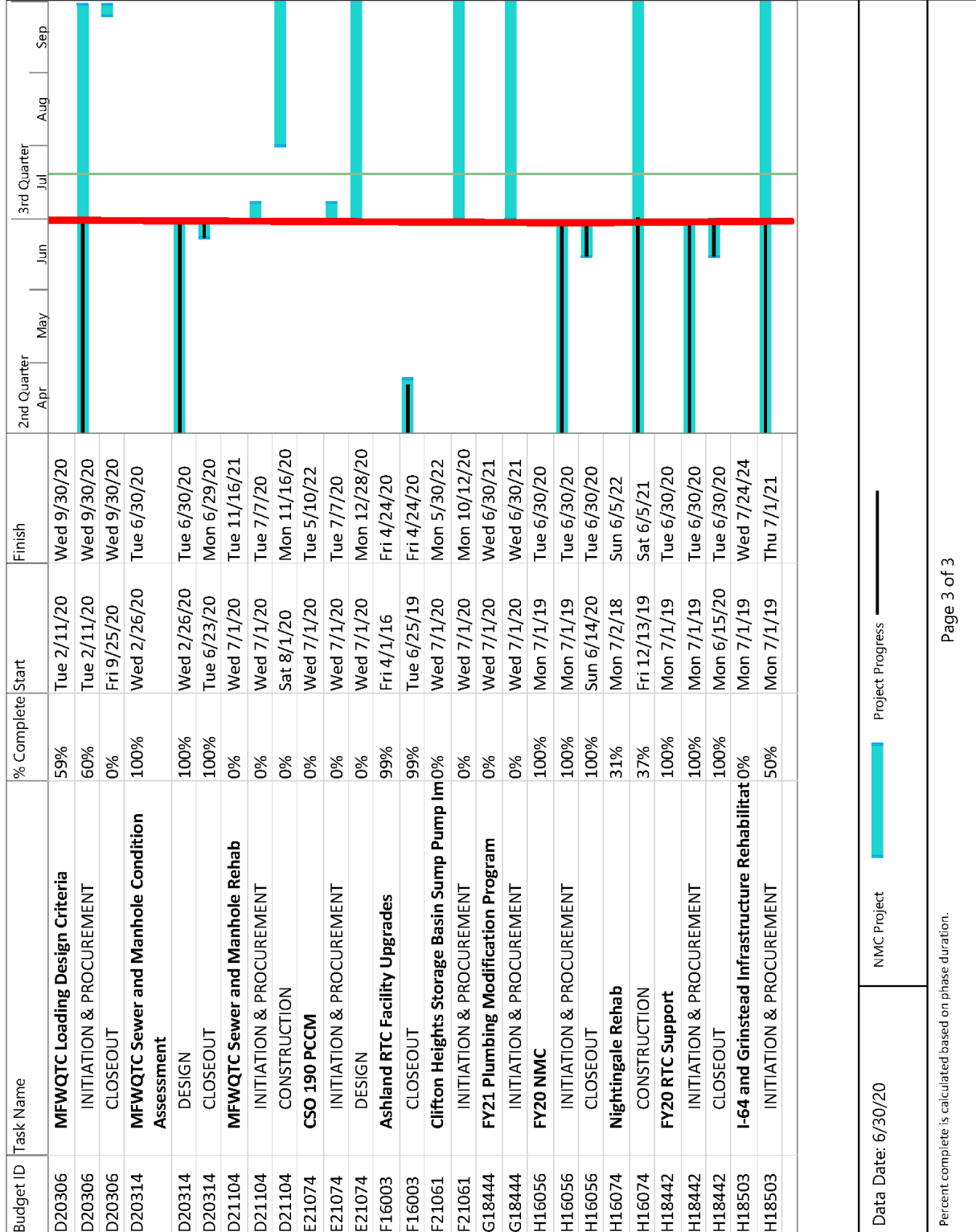


Figure 2.4. NMC Quarterly Commitments Schedule



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

### **3.1. PROGRAM BACKGROUND**

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

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

### **3.2. OVERFLOW MANAGEMENT AND FIELD DOCUMENTATION**

MSD monitored approximately 143 sanitary sewer overflow (SSO) sites, which have been grouped into routes based on the range of rainfall rates necessary to cause a SSO. These routes are monitored during rain events depending on the magnitude and location of the storm. If an overflow is observed, a Discharge Work Order is created to document the event. During this quarter, 17 unauthorized discharges were identified through route reconnaissance. During this period, 3 inspection routes were run.

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

MSD Operations staff hauled 37,400 gallons due to capacity-related issues during this reporting period. Hauling was also initiated due to other issues as indicated in Table 3.1.

**Table 3.1. Hauled Volumes in Gallons**

<b>PROBLEM</b>	<b>APRIL</b>	<b>MAY</b>	<b>JUN</b>
LACK OF SYSTEM CAPACITY	-	4,200	23,200
STRUCTURAL FAILURE	-	-	10,000

### **STAFF TRAINING AND COMMUNICATION**

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

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

- Assessment & Minimum Documentation
- Mitigation
- Updates

The quarterly training was delivered to 269 staff in Operations and Engineering.



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

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

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

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

### **4.1. INTEGRATED OVERFLOW ABATEMENT PLAN (IOAP)**

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

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

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

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

### **4.2. SANITARY SEWER DISCHARGE PLAN (SSDP)**

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

#### **4.2.1. UPDATED SANITARY SEWER OVERFLOW PLAN (SSOP) IMPLEMENTATION**

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

#### **4.2.2. INTERIM SANITARY SEWER DISCHARGE PLAN (ISSDP)**

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

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

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### **4.2.3. FINAL SANITARY SEWER DISCHARGE PLAN (SSDP)**

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

### **4.3. CSO LONG TERM CONTROL PLAN (LTCP)**

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

#### **4.3.1. INTERIM CSO LONG TERM CONTROL PLAN (LTCP)**

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

#### **4.3.2. FINAL CSO LONG TERM CONTROL PLAN (LTCP)**

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

#### **4.3.3. GREEN INFRASTRUCTURE PROGRAM UPDATE**

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

### **4.4. DISCHARGE ABATEMENT PLAN PROJECT STATUS**

#### **4.4.1. SANITARY SEWER DISCHARGE PLAN (SSDP)**

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

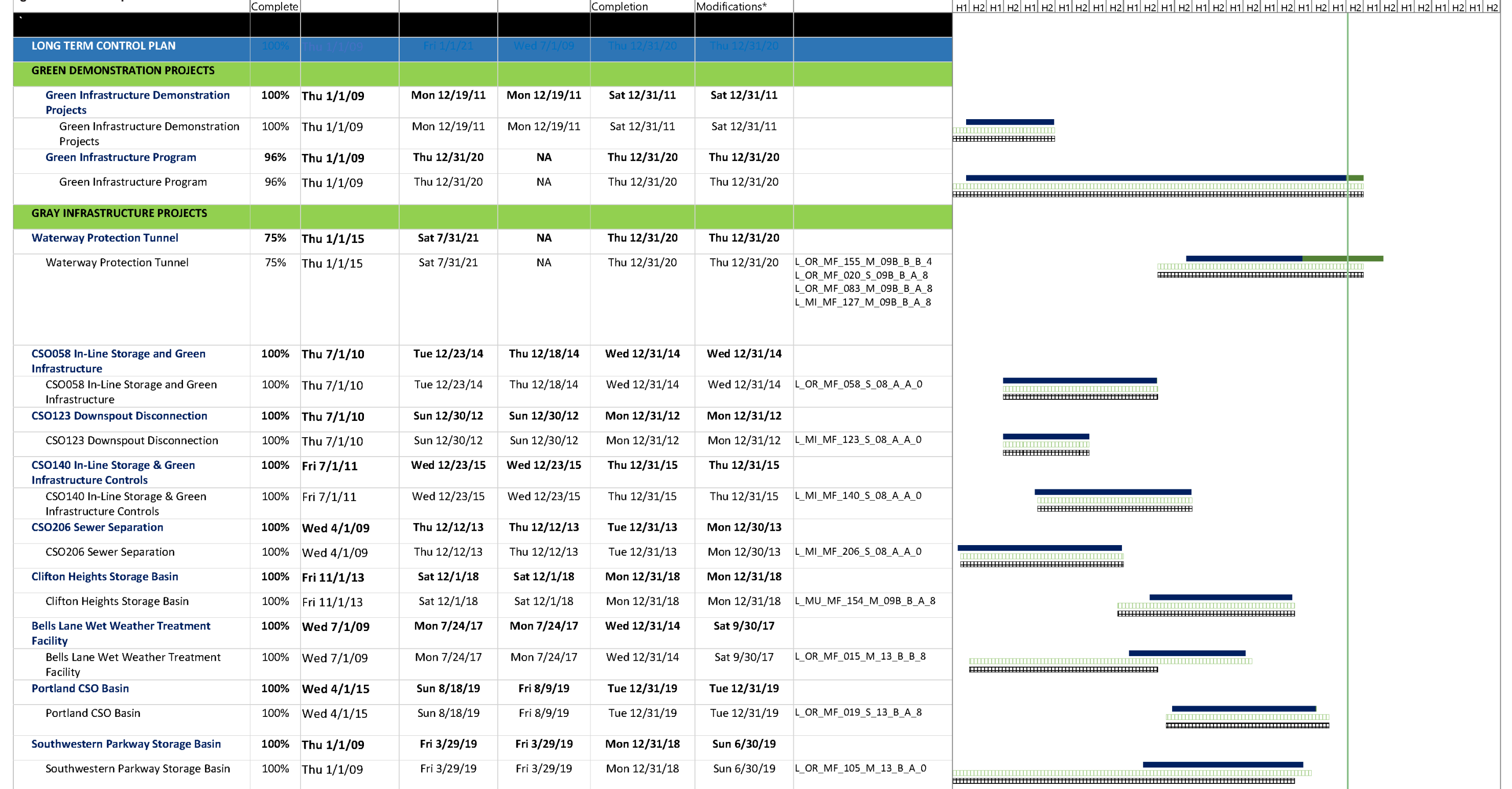
#### **4.4.2. COMBINED SEWER OVERFLOW LONG TERM CONTROL PLAN (LTCP)**

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

#### **4.4.3. ACTIVITY PROGRESS CHART**

A Gantt chart showing the 2012 IOAP Modification project schedules and subsequent approved minor modifications for the entire program is provided in Figure 4.1. Refer to IOAP, Volume 1 – Figure 6.3.1 for the previous chart. A crosswalk of projects and associated overflows is provided in Appendix E.

Figure 4.1. IOAP Implementation Schedule



Approved 2009 IOAP ██████████ IOAP Modifications ██████████ Remaining Work ██████████ Completed Work ██████████

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date. MSD has a need to reprioritize its capital program. As such, MSD is currently discussing the start and end dates for the remaining IOAP projects that have not yet started with USEPA and KDOW. The dates that are shown in Figure 4-1 as "NA" and will be provided in a future report pending the outcome of these discussions. The dates that were previously provided























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

### **5.1. PUBLIC NOTIFICATION PROGRAM**

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

### **5.2. PUBLIC EDUCATION PROGRAMS**

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

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

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

Social media and our website — LouisvilleMSD.org — are important methods to reach and educate the public. We are on FaceBook, Twitter and Instagram.

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

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

**Table 5.1. Metro TV Broadcasts**

<b>DATE</b>	<b>PROGRAM TITLE</b>	<b>ORIGINAL MEETING DATE</b>
4/1/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
4/8/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
4/20/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
4/26/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
5/10/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
5/11/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
5/18/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
5/30/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
6/7/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
6/14/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
6/21/2020	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
6/23/2020	Ohio River Tunnel: Construction Meeting	1/10/2018

### **5.3. PUBLIC OUTREACH PROGRAMS**

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

#### **5.3.1. IOAP PROJECT AND PROGRAM MEETINGS**

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

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

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

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

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

The primary objectives of CMOM are as follows:

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

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

### **6.1. MANAGEMENT PROGRAMS**

#### M-E-9 Infrastructure Rehabilitation

Refer to the CMOM activity schedule provided in Section 6.4.

#### M-E-10 System Capacity Assurance Program

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

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

### **6.2. OPERATIONS PROGRAMS**

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

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

Refer to the CMOM activity schedule provided in Section 6.4.



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

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

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

#### **6.3.1. HITE CREEK WATER QUALITY TREATMENT CENTER**

The HCWQTC Expansion project will expand the capacity of HCWQTC from 6 MGD to 9 MGD and provide regional dewatering of solids. The project will be in construction during the next several reporting periods.

#### **6.3.2. FLOYDS FORK WATER QUALITY TREATMENT CENTER**

No major project occurred during the reporting period.

#### **6.3.3. DEREK R. GUTHRIE WATER QUALITY TREATMENT CENTER**

Construction of the Dewatering Project continued during this reporting period. Solids from all the regional WQTCs (Cedar Creek, Floyds Fork, Hite Creek as well as DRG) are being dewatered at a temporary system referred to as Phase 1. Construction of the Phase 2 building is nearing completion. Construction of the Phase 3 building is underway.

Clarifier Grout Repair and Gate Replacement project continued in construction during this reporting period.

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

The RAS Electrical Modifications project is in construction during the reporting period.

Design of the Paving project was completed and during the reporting period.

#### **6.3.4. CEDAR CREEK WATER QUALITY TREATMENT CENTER**

Design of the Sodium Aluminate Building project was completed during the reporting period.

Design of the CCWQTC Effluent Parshall Flume Upgrades project was completed during the reporting period.

The CCWQTC MCC Upgrades project is under construction.

#### **6.3.5. PROSPECT AREA WATER QUALITY TREATMENT CENTER UPDATES**

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

#### **6.3.6. JEFFERSONTOWN WATER QUALITY TREATMENT CENTER**

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

#### **6.3.7. OTHER WATER QUALITY TREATMENT CENTERS**

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

#### **6.4. CMOM ACTIVITY SCHEDULE**

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

Figure 6.1. CMOM Quarterly Commitments Schedule

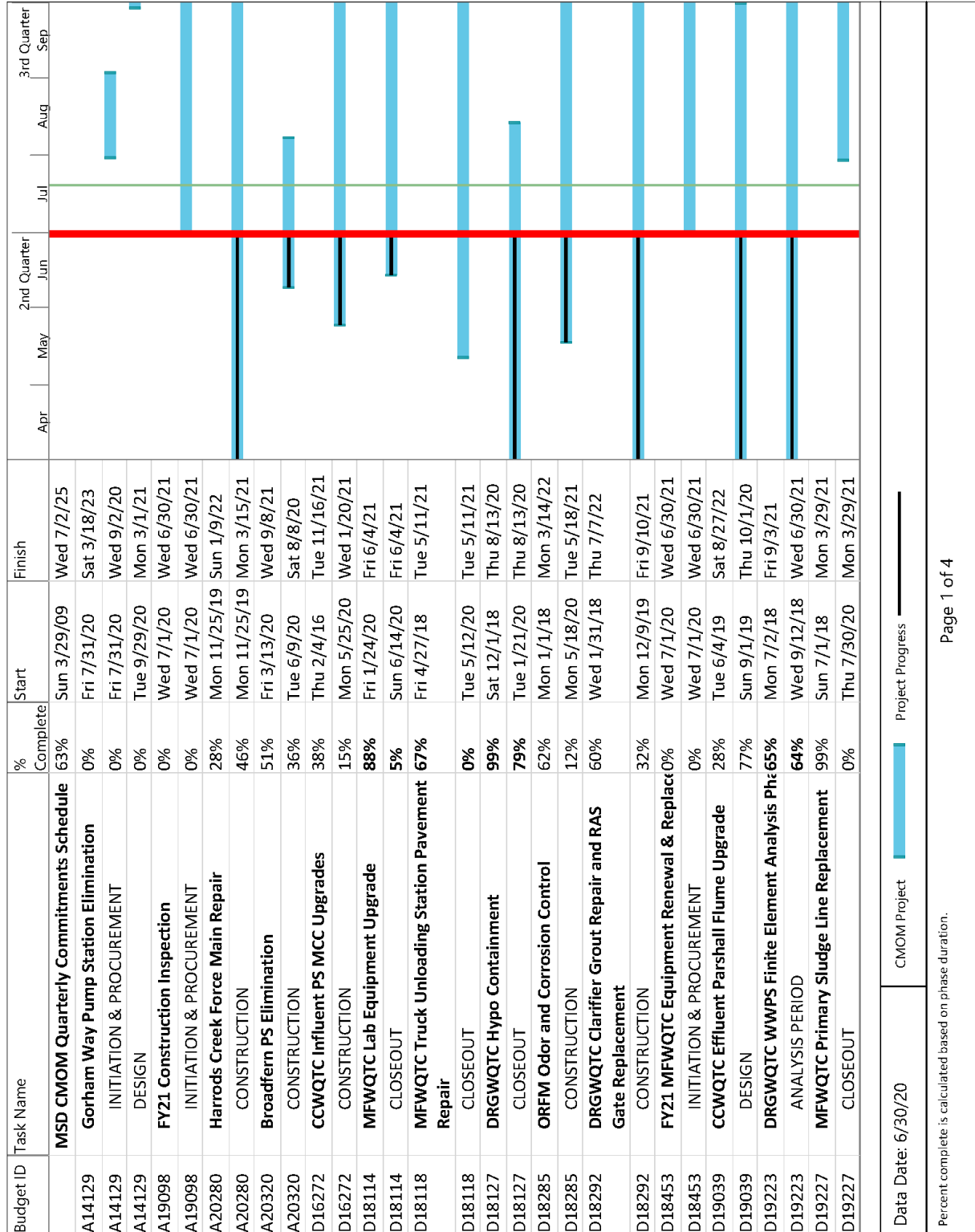


Figure 6.1. CMOM Quarterly Commitments Schedule

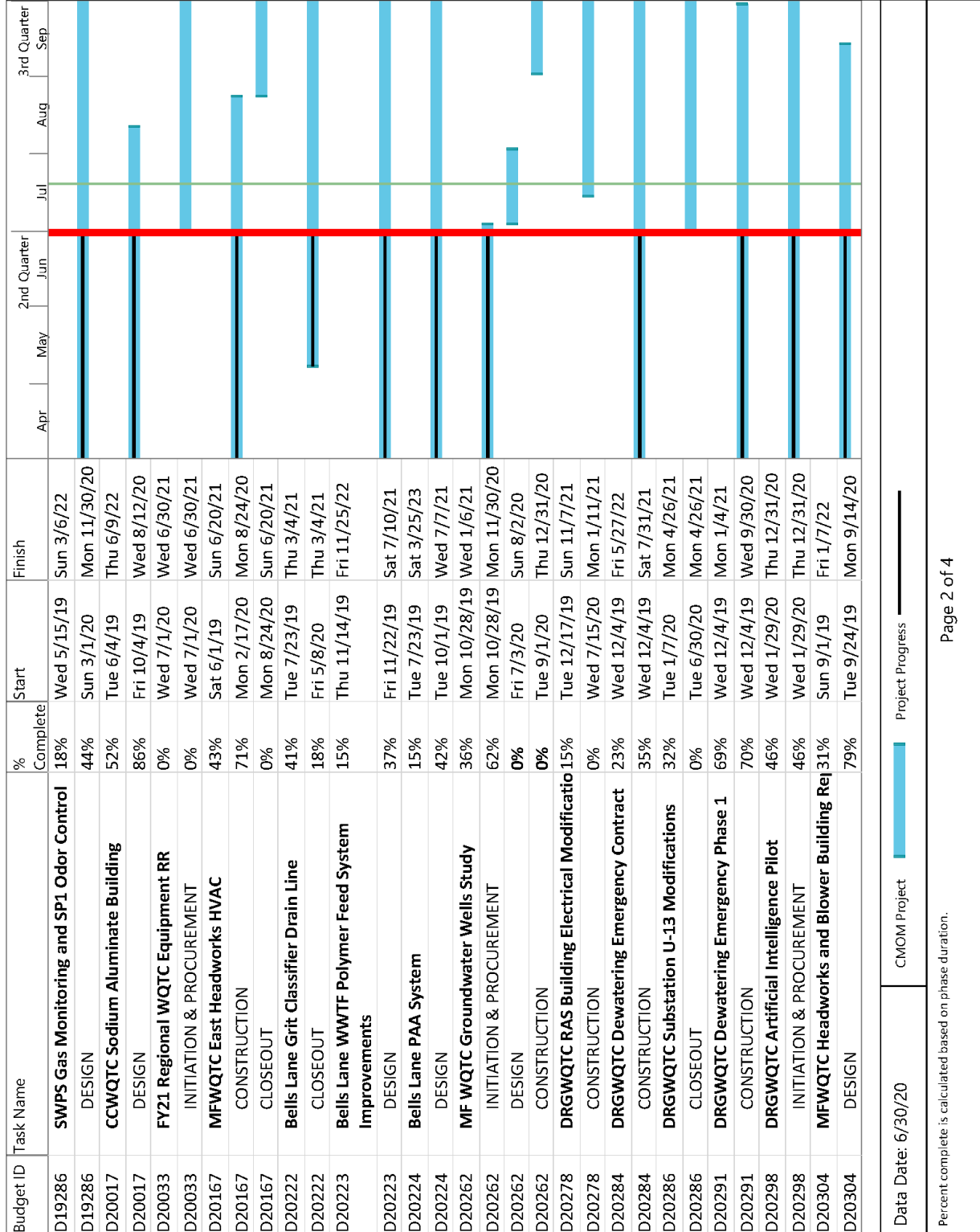


Figure 6.1. CMOM Quarterly Commitments Schedule

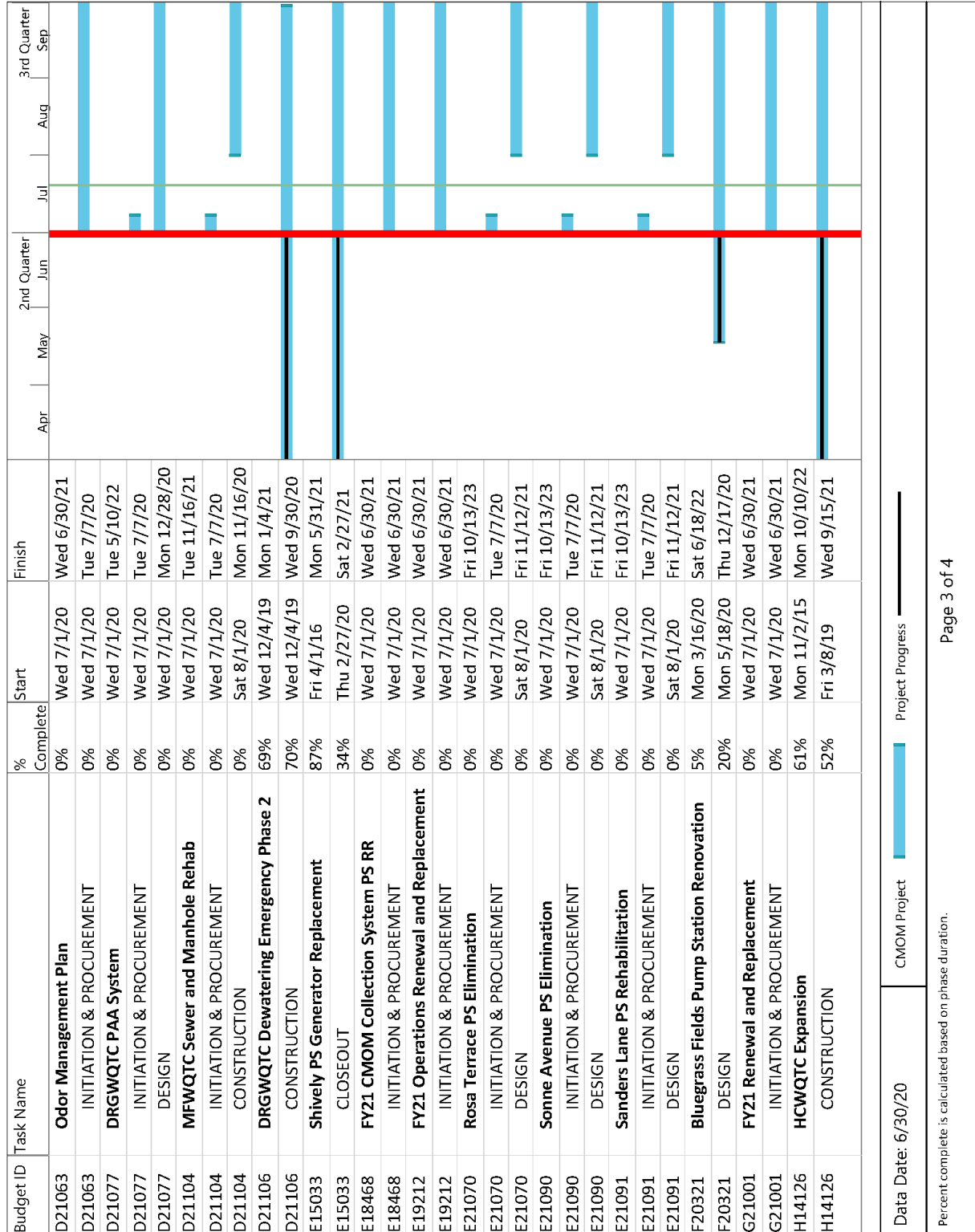
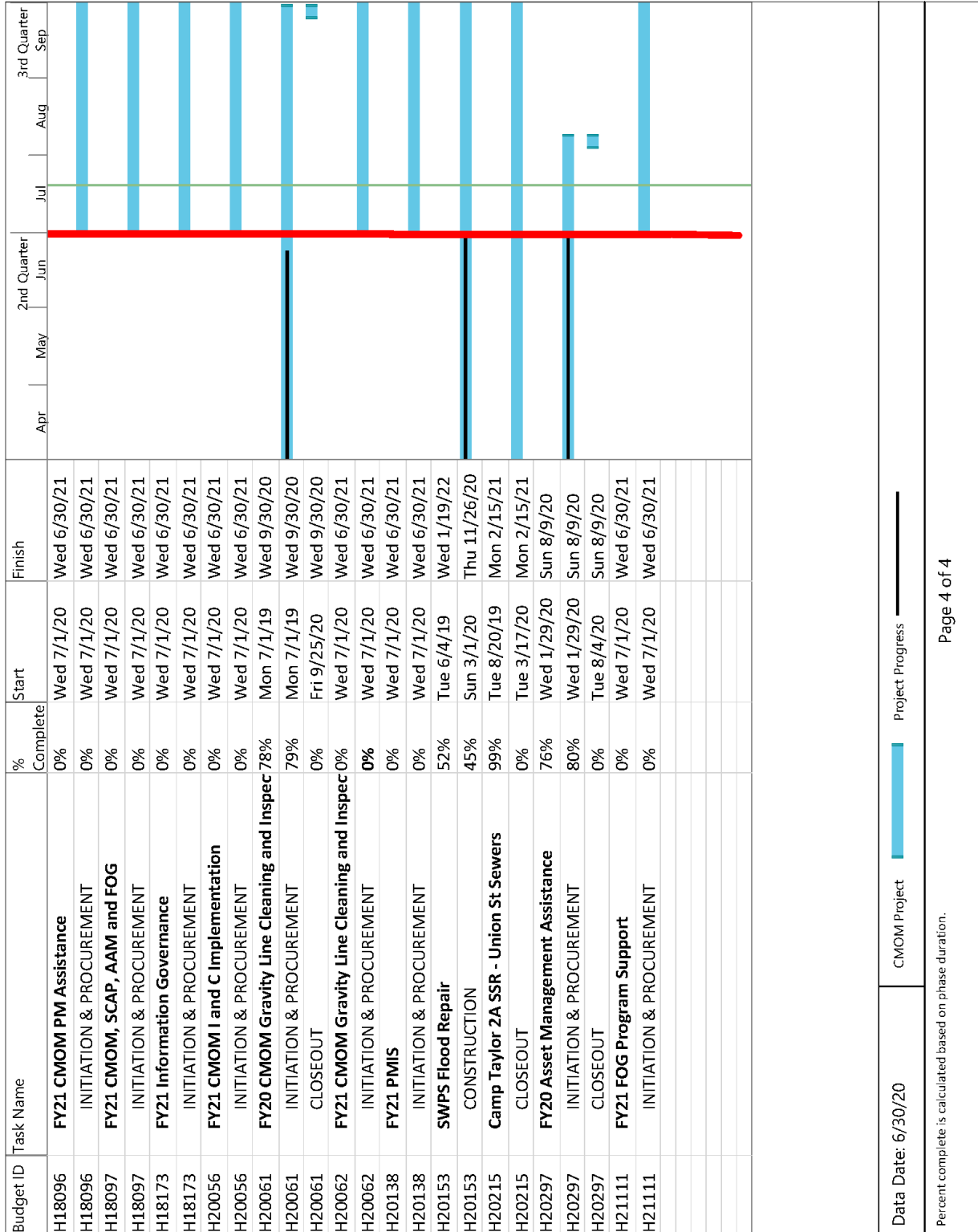


Figure 6.1. CMOM Quarterly Commitments Schedule







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**APPENDIX A**

**DISCHARGE WORK ORDERS**





**APPENDIX A-1**

**BYPASSES**



ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD
MORRIS FORMAN	KY0022411	4522 ALGONQUIN PKY	5/6/2020 9:00	5/6/2020 9:10	1000	Sewer Treatment Plant	MSD0278	STREAM	OHIO RIVER	MANHOLE OVERWHELMED DUE TO A POSSIBLE BLOCKAGE OR COLLAPSED LINE.	BYPASS AT WQTC	RAIN EVENT DISCHARGE	3255672	STAFF HOSED DOWN AREA INTO PLANT DRAIN. VACTOR VENDOR DISPATCHED TO CLEAN AREA.	OBSTRUCTION CLEARED.
CEDAR CREEK	KY0098540	8405 CEDAR CREEK RD	5/8/2020 17:08	5/8/2020 17:11	150	Sewer Treatment Plant	MSD0289	GROUND	CEDAR CREEK	LACK OF SYSTEM CAPACITY	BYPASS AT WQTC	RAIN EVENT DISCHARGE	3256040	THERE WAS NO DEBRIS PRESENT	WE OPENED THE SAND FILTER BYPASS GATE.



**APPENDIX A-2**

**DRY WEATHER CSOs**



ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD

**No Dry Weather CSOs Occurred during the Reporting Period**





**APPENDIX A-3**

**UNAUTHORIZED DISCHARGES**



ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	4/13/2020 3:50	4/13/2020 11:39	44123	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3234714	NO CLEANUP REQUIRED, MANHOLE IS DISCHARGING DIRECTLY INTO CREEK.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	4/13/2020 4:30	4/13/2020 18:00	2100000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY: HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3234703	NO CLEANUP REQUIRED, MANHOLE IS DISCHARGING DIRECTLY INTO CREEK.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3317 DELL RD	4/13/2020 9:15	4/13/2020 11:11	3000	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3234916	WO#3235008	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3400 DELL RD	4/13/2020 9:20	#□□	3000	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3234918	WO#3235009	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	4/13/2020 9:20	4/13/2020 11:13	3000	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3234919	WO#3235010	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	4/13/2020 9:30	4/13/2020 13:10	16500	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3234925	WO#3235013	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	4/13/2020 9:40	4/13/2020 12:00	3500	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3234924	WO#3235011	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1418 CHEROKEE RD	5/14/2020 13:32	5/14/2020 13:35	5	Sewer Service Line	J04964039	GROUND	MIDDLE FORK BEARGRASS CREEK	LINE DAMAGED BY CONTRACTOR.	STRUCTURAL FAILURE	RAIN EVENT DISCHARGE	3256719	MSD WILL CLEAN AREA.	MADE NEEDED REPAIRS TO LINE.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	5/16/2020 5:45	5/16/2020 18:30	700000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3257030	NO CLEAN UP NOT PERFORMED NO PUBLIC ACCESS TO THE DISCHARGE SITE.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9317 LANTANA DR	5/16/2020 7:33	5/16/2020 15:11	3750	Sewer Manhole	93719	DITCH	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3257023	CLEANED AND SANITIZED THE IMPACTED AREA.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	5/16/2020 8:03	5/16/2020 15:15	1800	Sewer Manhole	102339	GROUND	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3257025	CLEANED AND SANITIZED THE IMPACTED AREA.	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	5/16/2020 10:08	5/16/2020 15:00	1500	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3257061	WO#3257194	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	334 MOCKINGBIRD VALLEY RD	6/23/2020 22:20	6/23/2020 22:50	350	Sewer Lift Station	MSD0007-PS	DITCH	MUDDY FORK BEARGRASS CREEK	MECHANICAL FAILURE, PUMP FAIL TO START.	MECHANICAL FAILURE	DRY WEATHER DISCHARGE	3274984	CLEANED AND SANITIZED THE IMPACTED AREA.	PUMP BATTERY CABLE REPAIRED AND PUMP STARTED.
CEDAR CREEK	KY0098540	9719 COLLIER LN	6/30/2020 0:40	6/30/2020 9:37	92000	Sewer Manhole	98022	STREAM	CEDAR CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3275944	NO DEBRIS WAS OBSERVED.	SYSTEM CAPACITY CAUGHT UP WITH FLOW.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	6/30/2020 7:10	6/30/2020 9:00	2750	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3275985	WO#3276093	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	6/30/2020 7:15	6/30/2020 9:15	3000	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3275987	WO#3276094	LOCATION INCLUDED IN IOAP.





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**APPENDIX B**

**CSO FLOW MONITORING DATA**



**PROJECT WIN QUARTERLY REPORT #59**  
**APRIL 1, 2020 - JUNE 30, 2020**



C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
CSO015	4/12/2020 17:45	4/13/2020 9:00	915	3	3844280	4	0	12	Atlas	(blank)	10,687,098	1
	4/23/2020 14:15	4/23/2020 17:15	180	0	1509	2	0	12	Atlas	(blank)	1,434	1
	4/25/2020 12:30	4/26/2020 2:15	825	0	1898	2	0	24	Atlas	(blank)	1,860	1
	5/8/2020 15:45	5/8/2020 19:15	210	0	6740	0	0	6	Atlas	(blank)	4,246	1
	5/13/2020 22:30	5/14/2020 22:00	1410	0	9185800	0	0	1	Atlas	(blank)	91,858	1
	5/15/2020 16:00	5/16/2020 20:15	1695	2	1998209	2	0	24	Atlas	(blank)	4,036,383	1
	5/18/2020 10:00	5/18/2020 13:00	180	0	174086	3	0	6	Atlas	(blank)	147,973	1
	5/25/2020 19:00	5/25/2020 20:30	90	0	16176	0	0	1	Atlas	(blank)	11,647	1
	6/29/2020 6:15	6/29/2020 21:30	915	0	896084	3	0	3	Atlas	(blank)	224,021	1
	6/30/2020 11:45	7/1/2020 0:00	735	0	880125	1	0	1	Atlas	(blank)	70,410	1
CSO015 Total											15,276,930	10
CSO019	4/12/2020 15:45	4/13/2020 13:30	1305	2	1850064	4	0	12	Atlas	(blank)	4,329,149	1
	4/17/2020 14:15	4/18/2020 2:00	705	1	243641	4	0	12	Atlas	(blank)	311,860	1
	4/23/2020 5:30	4/23/2020 21:30	960	0	583600	2	0	12	Atlas	(blank)	519,404	1
	4/25/2020 13:00	4/26/2020 18:15	1755	1	650253	2	0	1	Atlas	(blank)	903,851	1
	4/29/2020 9:30	4/29/2020 12:00	150	0	487894	2	0	48	Atlas	(blank)	87,821	1
	5/5/2020 4:00	5/5/2020 8:00	240	0	406152	0	0	3	Atlas	(blank)	101,538	1
	5/8/2020 6:45	5/8/2020 14:45	480	0	527054	0	0	12	Atlas	(blank)	300,421	1
	5/13/2020 14:00	5/13/2020 20:45	405	0	1191715	0	0	12	Atlas	(blank)	154,923	1
	5/14/2020 8:45	5/14/2020 10:00	75	0	277442	0	0	1	Atlas	(blank)	33,293	1
	5/15/2020 11:00	5/16/2020 15:30	1710	1	749650	1	0	24	Atlas	(blank)	832,111	1
	5/18/2020 2:45	5/18/2020 21:45	1140	0	751663	2	0	1	Atlas	(blank)	548,714	1
	5/23/2020 17:15	5/23/2020 17:45	30	0	234368	1	0	1	Atlas	(blank)	51,561	1
	5/25/2020 16:30	5/25/2020 18:15	105	0	800114	0	0	1	Atlas	(blank)	112,016	1
	5/27/2020 11:45	5/27/2020 17:15	330	0	206351	0	0	48	Atlas	(blank)	76,350	1
	5/28/2020 2:15	5/28/2020 4:15	120	0	131892	0	0	48	Atlas	(blank)	48,800	1
	5/29/2020 0:30	5/29/2020 2:15	105	0	480507	0	0	1	Atlas	(blank)	67,271	1
	6/4/2020 18:00	6/5/2020 2:15	495	1	1701159	1	0	3	Atlas	(blank)	1,888,287	1
	6/9/2020 11:45	6/9/2020 12:45	60	0	261314	1	0	1	Atlas	(blank)	36,584	1
	6/14/2020 6:45	6/14/2020 7:45	60	0	413963	0	0	1	Atlas	(blank)	33,117	1
	6/21/2020 11:30	6/21/2020 18:30	420	0	284256	0	0	1	Atlas	(blank)	176,239	1
	6/22/2020 20:00	6/23/2020 9:00	780	0	1750753	2	0	3	Atlas	(blank)	1,540,663	1
	6/27/2020 18:30	6/27/2020 19:00	30	0	83938	2	0	1	Atlas	(blank)	10,912	1
	6/29/2020 2:30	6/29/2020 10:00	450	0	663226	2	0	1	Atlas	(blank)	504,052	1
	6/29/2020 18:45	6/30/2020 7:00	735	0	677640	2	0	3	Atlas	(blank)	426,913	1



CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
CSO019 Total											13,095,850	24
CSO022	5/25/2020 17:30	5/25/2020 17:45	15	0	285385	0	0	1	Atlas	(blank)	94,177	1
CSO022	6/22/2020 23:30	6/22/2020 23:30	0	0	80693	0	0	3	Atlas	(blank)	77,465	1
CSO022 Total											171,642	2
CSO029	6/22/2020 22:15	6/22/2020 22:15	0	1	8210	1	0	3	Atlas	(blank)	8,210	1
CSO029 Total											8,210	1
CSO031	5/16/2020 7:15	5/16/2020 7:15	0	1	124	2	0	24	Atlas	(blank)	168	1
CSO031	6/22/2020 22:30	6/22/2020 23:45	75	1	689	1	0	3	Atlas	(blank)	689	1
CSO031 Total											857	2
CSO034	5/16/2020 7:15	5/16/2020 7:15	0	1	8484	2	0	24	Atlas	(blank)	11,454	1
CSO034	6/21/2020 11:30	6/21/2020 11:30	0	0	20084	0	0	1	Atlas	(blank)	8,837	1
CSO034	6/22/2020 22:15	6/22/2020 23:45	90	1	32116	1	0	3	Atlas	(blank)	32,116	1
CSO034	6/29/2020 3:15	6/29/2020 3:15	0	0	10523	1	0	3	Atlas	(blank)	4,209	1
CSO034 Total											56,616	4
CSO035	5/25/2020 16:15	5/25/2020 16:30	15	0	1349	0	0	1	Atlas	(blank)	634	1
CSO035	6/22/2020 22:15	6/22/2020 22:15	0	0	20766	0	0	3	Atlas	(blank)	19,312	1
CSO035	6/29/2020 4:00	6/29/2020 4:00	0	0	2047	1	0	3	Atlas	(blank)	696	1
CSO035 Total											20,642	3
CSO036	5/16/2020 7:30	5/16/2020 7:30	0	1	18025	2	0	24	Atlas	(blank)	24,874	1
CSO036	5/25/2020 16:45	5/25/2020 16:45	0	0	54760	0	0	1	Atlas	(blank)	25,737	1
CSO036	6/21/2020 11:45	6/21/2020 11:45	0	0	72879	0	0	1	Atlas	(blank)	34,253	1
CSO036	6/22/2020 22:30	6/23/2020 0:00	90	0	109865	1	0	3	Atlas	(blank)	102,174	1
CSO036	6/29/2020 3:30	6/29/2020 4:30	60	0	60062	1	0	3	Atlas	(blank)	20,421	1
CSO036 Total											207,459	5
CSO038	6/22/2020 22:30	6/22/2020 22:30	0	1	5125	1	0	3	Atlas	(blank)	5,125	1
CSO038 Total											5,125	1
CSO050	5/25/2020 16:45	5/25/2020 16:45	0	0	96450	0	0	3	Atlas	(blank)	7,716	1
CSO050	5/29/2020 0:15	5/29/2020 0:30	15	0	344612	0	0	1	Atlas	(blank)	58,584	1
CSO050	6/4/2020 18:15	6/4/2020 20:30	135	0	255127	1	0	3	Atlas	(blank)	244,922	1
CSO050	6/9/2020 11:45	6/9/2020 12:00	15	0	431656	1	0	1	Atlas	(blank)	69,065	1

**PROJECT WIN QUARTERLY REPORT #59**  
**APRIL 1, 2020 - JUNE 30, 2020**



C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
	6/21/2020 11:45	6/21/2020 17:15	330	0	311549	0	0	6	Atlas	(blank)	121,504	1
	6/22/2020 22:30	6/23/2020 9:00	630	1	608317	2	0	6	Atlas	(blank)	669,149	1
	6/29/2020 2:45	6/29/2020 7:30	285	0	467478	2	0	3	Atlas	(blank)	336,584	1
	6/29/2020 19:00	6/30/2020 2:15	435	0	295401	3	0	1	Atlas	(blank)	239,275	1
CSO050 Total											1,746,799	8
CSO051	4/8/2020 22:00	4/8/2020 22:00	0	1	2116	0	0	3	Atlas	(blank)	2,455	1
	4/12/2020 18:15	4/13/2020 3:15	540	2	6248	3	0	12	Atlas	(blank)	13,996	1
	4/23/2020 15:00	4/23/2020 15:00	0	0	5208	2	0	12	Atlas	(blank)	3,906	1
	5/15/2020 16:45	5/16/2020 7:45	900	2	5713	2	0	24	Atlas	(blank)	8,741	1
	5/18/2020 2:45	5/18/2020 7:45	300	0	8091	3	0	1	Atlas	(blank)	5,987	1
	5/25/2020 16:30	5/25/2020 16:30	0	0	14225	0	0	3	Atlas	(blank)	1,138	1
	5/29/2020 0:15	5/29/2020 0:15	0	0	20665	0	0	1	Atlas	(blank)	3,513	1
	6/4/2020 18:00	6/4/2020 18:15	15	0	10782	0	0	3	Atlas	(blank)	10,351	1
	6/21/2020 11:30	6/21/2020 11:45	15	0	14503	0	0	6	Atlas	(blank)	5,656	1
	6/22/2020 22:30	6/23/2020 8:30	600	1	23058	2	0	6	Atlas	(blank)	25,364	1
	6/29/2020 2:45	6/29/2020 4:15	90	0	12646	2	0	3	Atlas	(blank)	9,105	1
	6/29/2020 19:00	6/30/2020 1:00	360	0	8858	3	0	1	Atlas	(blank)	7,175	1
CSO051 Total											97,387	12
CSO054	4/12/2020 18:15	4/13/2020 3:15	540	2	6371	3	0	12	Atlas	(blank)	13,507	1
	5/16/2020 7:30	5/16/2020 7:45	15	1	10079	2	0	24	Atlas	(blank)	15,017	1
	6/22/2020 23:30	6/23/2020 0:15	45	0	79829	1	0	3	Atlas	(blank)	78,232	1
CSO054 Total											106,756	3
CSO055	4/8/2020 22:15	4/8/2020 22:15	0	1	16153	0	0	3	Atlas	(blank)	19,060	1
	4/12/2020 17:45	4/13/2020 4:00	615	2	180091	3	0	12	Atlas	(blank)	381,792	1
	5/15/2020 23:00	5/15/2020 23:00	0	1	468	0	0	24	Atlas	(blank)	697	1
	5/16/2020 7:15	5/16/2020 8:15	60	1	86676	2	0	24	Atlas	(blank)	129,147	1
	5/18/2020 3:00	5/18/2020 12:00	540	0	7369	2	0	6	Atlas	(blank)	5,158	1
	5/25/2020 16:45	5/25/2020 16:45	0	0	199423	0	0	1	Atlas	(blank)	25,925	1
	5/29/2020 0:30	5/29/2020 0:30	0	0	879	0	0	1	Atlas	(blank)	123	1
	6/4/2020 18:15	6/4/2020 18:30	15	0	42040	0	0	3	Atlas	(blank)	27,326	1
	6/9/2020 11:45	6/9/2020 11:45	0	0	13981	0	0	1	Atlas	(blank)	2,237	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	53773	0	0	1	Atlas	(blank)	19,896	1
	6/22/2020 22:30	6/23/2020 1:00	150	0	291074	1	0	3	Atlas	(blank)	285,253	1
	6/29/2020 2:45	6/29/2020 5:00	135	0	102548	2	0	3	Atlas	(blank)	61,529	1



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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
	6/29/2020 19:00	6/29/2020 19:15	15	0	18304	2	0	1	Atlas	(blank)	9,518	1
CSO055 Total											967,661	13
CSO056	5/16/2020 7:30	5/16/2020 7:30	0	1	6526	2	0	24	Atlas	(blank)	9,724	1
	5/25/2020 16:45	5/25/2020 16:45	0	0	18831	0	0	1	Atlas	(blank)	2,448	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	29951	0	0	1	Atlas	(blank)	11,082	1
	6/22/2020 22:45	6/23/2020 0:15	90	0	76005	1	0	3	Atlas	(blank)	74,485	1
	6/29/2020 3:30	6/29/2020 4:30	60	0	22592	2	0	3	Atlas	(blank)	13,555	1
CSO056 Total											111,294	5
CSO057	4/12/2020 16:15	4/13/2020 2:00	585	2	1491	3	0	12	Atlas	(blank)	2,654	1
	4/17/2020 14:00	4/17/2020 22:30	510	0	624	3	0	12	Atlas	(blank)	449	1
	4/23/2020 7:00	4/23/2020 17:30	630	0	160	1	0	12	Atlas	(blank)	88	1
	4/25/2020 12:15	4/26/2020 5:45	1050	0	1571	0	0	24	Atlas	(blank)	817	1
	5/5/2020 4:00	5/5/2020 12:30	510	0	650	0	0	3	Atlas	(blank)	156	1
	5/8/2020 7:00	5/8/2020 10:45	225	0	317	0	0	12	Atlas	(blank)	190	1
	5/15/2020 11:30	5/15/2020 11:30	0	1	20	0	0	24	Atlas	(blank)	26	1
	5/18/2020 2:45	5/18/2020 2:45	0	0	133	2	0	12	Atlas	(blank)	52	1
	5/25/2020 16:30	5/25/2020 16:30	0	0	4595	0	0	1	Atlas	(blank)	2,022	1
	5/29/2020 0:15	5/29/2020 0:15	0	0	37186	0	0	1	Atlas	(blank)	5,206	1
	6/21/2020 11:30	6/21/2020 11:45	15	0	7211	0	0	1	Atlas	(blank)	2,524	1
	6/23/2020 8:30	6/23/2020 8:30	0	0	159	1	0	3	Atlas	(blank)	124	1
	6/29/2020 2:45	6/29/2020 4:15	90	0	7759	1	0	1	Atlas	(blank)	2,638	1
CSO057 Total											16,946	13
CSO062	5/8/2020 11:00	5/8/2020 12:45	105	0	11088710	0	0	12	Atlas	(blank)	6,875,000	1
	5/16/2020 7:15	5/16/2020 9:00	105	1	3373779	1	0	24	Atlas	(blank)	3,981,059	1
	5/23/2020 18:45	5/24/2020 3:30	525	0	257812500	0	0	3	Atlas	(blank)	30,937,500	1
	6/22/2020 23:15	6/23/2020 10:15	660	0	17608506	1	0	6	Atlas	(blank)	14,086,805	1
	6/29/2020 4:00	6/29/2020 6:15	135	0	18942537	1	0	1	Atlas	(blank)	8,145,291	1
	6/30/2020 2:30	6/30/2020 3:15	45	0	7919947	1	0	1	Atlas	(blank)	3,009,580	1
CSO062 Total											67,035,235	6
CSO082	5/8/2020 10:45	5/8/2020 12:45	120	0	427287	0	0	12	Atlas	(blank)	256,372	1
	5/16/2020 7:15	5/16/2020 10:00	165	1	120286	1	0	24	Atlas	(blank)	146,749	1
	5/23/2020 18:15	5/24/2020 3:15	540	0	4436874	0	0	3	Atlas	(blank)	843,006	1
	6/22/2020 22:45	6/23/2020 10:00	675	0	550012	1	0	6	Atlas	(blank)	445,510	1

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	6/29/2020 4:00	6/29/2020 6:15	135	0	544000	1	0	3	Atlas	(blank)	250,240	1
	6/30/2020 2:15	6/30/2020 3:30	75	0	258917	1	0	1	Atlas	(blank)	90,621	1
	7/1/2020 0:00	7/1/2020 0:00	0	0	58900	0	0	1	Atlas	(blank)	2,945	1
CSO082 Total											2,035,443	7
CSO083	5/16/2020 2:15	5/16/2020 2:15	0	1	1755	0	0	24	Atlas	(blank)	2,211	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	46180	0	0	1	Atlas	(blank)	20,781	1
	6/22/2020 22:45	6/23/2020 0:00	75	0	53234	1	0	6	Atlas	(blank)	46,846	1
CSO083 Total											69,838	3
CSO088	4/8/2020 22:45	4/8/2020 23:45	60	0	21586	0	0	3	Atlas	(blank)	20,291	1
	4/12/2020 16:45	4/13/2020 6:30	825	2	113205	3	0	12	Atlas	(blank)	199,240	1
	4/17/2020 18:30	4/17/2020 19:15	45	0	4769	2	0	12	Atlas	(blank)	2,814	1
	4/23/2020 8:00	4/23/2020 17:45	585	0	95960	1	0	12	Atlas	(blank)	47,980	1
	4/25/2020 17:15	4/26/2020 12:45	1170	0	93622	0	0	24	Atlas	(blank)	43,066	1
CSO088 Total											313,391	5
CSO092	4/8/2020 22:15	4/8/2020 22:30	15	1	470	0	0	3	Atlas	(blank)	498	1
	4/12/2020 14:15	4/13/2020 3:15	780	2	664	3	0	12	Atlas	(blank)	1,182	1
	4/26/2020 6:45	4/26/2020 6:45	0	0	98	0	0	24	Atlas	(blank)	52	1
	4/29/2020 5:30	4/29/2020 7:00	90	0	518	1	0	24	Atlas	(blank)	57	1
	5/15/2020 23:45	5/16/2020 7:30	465	1	673	2	0	24	Atlas	(blank)	936	1
	5/18/2020 7:30	5/18/2020 7:30	0	0	406	2	0	12	Atlas	(blank)	138	1
	6/21/2020 11:30	6/21/2020 11:30	0	0	329	0	0	1	Atlas	(blank)	181	1
	6/22/2020 23:15	6/22/2020 23:15	0	0	77	1	0	6	Atlas	(blank)	58	1
	6/29/2020 3:15	6/29/2020 4:00	45	0	1589	2	0	3	Atlas	(blank)	1,382	1
	6/30/2020 22:30	6/30/2020 22:30	0	0	1500	1	0	1	Atlas	(blank)	255	1
CSO092 Total											4,739	10
CSO097	4/12/2020 16:45	4/13/2020 7:15	870	2	75518	3	0	12	Atlas	(blank)	166,139	1
	4/26/2020 7:45	4/26/2020 8:00	15	0	69	1	0	24	Atlas	(blank)	40	1
	5/8/2020 11:30	5/8/2020 13:15	105	0	69308	0	0	6	Atlas	(blank)	42,278	1
	5/16/2020 0:30	5/16/2020 10:45	615	1	184034	2	0	24	Atlas	(blank)	250,286	1
	5/18/2020 8:30	5/18/2020 8:45	15	0	19074	2	0	12	Atlas	(blank)	7,439	1
	5/23/2020 18:30	5/23/2020 19:15	45	0	264029	0	0	3	Atlas	(blank)	108,252	1
	6/4/2020 16:30	6/4/2020 19:45	195	0	62206	0	0	6	Atlas	(blank)	41,678	1
	6/21/2020 12:45	6/21/2020 13:00	15	0	39904	0	0	6	Atlas	(blank)	21,947	1



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	6/22/2020 23:30	6/23/2020 1:45	135	1	223490	2	0	6	Atlas	(blank)	281,598	1
	6/29/2020 4:15	6/29/2020 6:15	120	1	283756	3	0	3	Atlas	(blank)	309,294	1
	6/30/2020 23:30	7/1/2020 0:00	30	0	116867	2	0	1	Atlas	(blank)	50,253	1
CSO097 Total											1,279,204	11
CSO104	4/9/2020 4:00	4/9/2020 8:30	270	1	1982	1	0	3	Atlas	(blank)	2,299	1
CSO104 Total											2,299	1
CSO105	6/22/2020 23:45	6/23/2020 0:00	15	1	698701	2	0	6	Atlas	(blank)	887,350	1
CSO105 Total											887,350	1
CSO109	5/16/2020 2:30	5/16/2020 2:30	0	2	37510	1	0	24	Atlas	(blank)	58,140	1
	5/23/2020 17:45	5/23/2020 18:00	15	0	238041	1	0	1	Atlas	(blank)	133,303	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	137973	0	0	1	Atlas	(blank)	85,543	1
	6/23/2020 0:00	6/23/2020 0:00	0	2	57075	2	0	6	Atlas	(blank)	93,033	1
	6/29/2020 3:30	6/29/2020 4:30	60	1	111249	4	0	3	Atlas	(blank)	160,198	1
CSO109 Total											530,217	5
CSO111	4/8/2020 22:30	4/8/2020 22:30	0	1	1975	0	0	3	Atlas	(blank)	2,014	1
	4/12/2020 18:00	4/13/2020 3:30	570	2	40361	3	0	12	Atlas	(blank)	76,686	1
	5/8/2020 10:45	5/8/2020 11:15	30	0	16537	0	0	6	Atlas	(blank)	9,757	1
	5/16/2020 0:00	5/16/2020 2:45	165	1	11777	0	0	24	Atlas	(blank)	14,721	1
	5/18/2020 7:30	5/18/2020 7:30	0	0	5379	2	0	1	Atlas	(blank)	2,044	1
	5/23/2020 17:45	5/23/2020 18:00	15	0	89950	0	0	1	Atlas	(blank)	12,593	1
	6/4/2020 18:30	6/4/2020 18:30	0	0	3027	0	0	6	Atlas	(blank)	1,786	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	33992	0	0	6	Atlas	(blank)	17,336	1
	6/29/2020 5:30	6/29/2020 6:00	30	0	306470	2	0	3	Atlas	(blank)	214,529	1
CSO111 Total											351,466	9
CSO113	5/16/2020 2:30	5/16/2020 7:30	300	1	44684	2	0	24	Atlas	(blank)	62,111	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	149555	0	0	1	Atlas	(blank)	82,255	1
	6/22/2020 22:45	6/22/2020 22:45	0	0	45399	1	0	6	Atlas	(blank)	34,049	1
	6/29/2020 3:30	6/29/2020 4:30	60	0	116740	2	0	3	Atlas	(blank)	101,564	1
	6/30/2020 22:45	6/30/2020 23:00	15	0	524606	1	0	1	Atlas	(blank)	89,183	1
CSO113 Total											369,162	5
CSO117	4/13/2020 5:15	4/13/2020 5:30	15	2	1495	3	0	12	Atlas	(blank)	2,541	1
	5/16/2020 7:15	5/16/2020 8:30	75	1	805470	2	0	24	Atlas	(blank)	1,063,220	1

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	6/22/2020 22:30	6/22/2020 22:30	0	0	3934	0	0	3	Atlas	(blank)	3,541	1
	6/30/2020 1:30	6/30/2020 3:00	90	0	664500	0	0	12	Atlas	(blank)	164,280	1
	6/30/2020 22:45	6/30/2020 23:45	60	0	5157129	0	0	1	Atlas	(blank)	360,999	1
CSO117 Total											1,594,581	5
CSO118	4/8/2020 22:30	4/8/2020 22:45	15	1	167562	0	0	3	Atlas	(blank)	197,723	1
	4/12/2020 16:30	4/13/2020 4:00	690	2	1657995	3	0	12	Atlas	(blank)	2,752,272	1
	4/23/2020 8:30	4/23/2020 15:45	435	0	169812	1	0	12	Atlas	(blank)	84,906	1
	4/26/2020 6:45	4/26/2020 7:15	30	0	63833	0	0	24	Atlas	(blank)	33,193	1
	5/5/2020 6:45	5/5/2020 6:45	0	0	23491	0	0	6	Atlas	(blank)	5,403	1
	5/8/2020 10:15	5/8/2020 13:15	180	0	1053873	0	0	12	Atlas	(blank)	632,324	1
	5/15/2020 17:00	5/16/2020 8:45	945	1	2656227	1	0	24	Atlas	(blank)	3,346,846	1
	5/18/2020 7:30	5/18/2020 12:45	315	0	1375147	2	0	1	Atlas	(blank)	412,544	1
	5/25/2020 16:45	5/25/2020 17:15	30	0	2339091	0	0	1	Atlas	(blank)	537,991	1
	5/29/2020 0:45	5/29/2020 1:00	15	0	463945	0	0	1	Atlas	(blank)	102,068	1
	6/4/2020 18:30	6/4/2020 21:00	150	0	1339448	0	0	3	Atlas	(blank)	669,724	1
	6/21/2020 11:45	6/21/2020 12:45	60	0	2328616	0	0	1	Atlas	(blank)	1,047,877	1
	6/22/2020 22:45	6/23/2020 9:30	645	0	2838135	1	0	6	Atlas	(blank)	2,497,559	1
	6/29/2020 3:15	6/29/2020 5:15	120	0	4729727	2	0	3	Atlas	(blank)	2,648,647	1
	6/30/2020 1:45	6/30/2020 2:45	60	0	563850	1	0	12	Atlas	(blank)	112,770	1
	6/30/2020 23:00	6/30/2020 23:00	0	0	533457	0	0	1	Atlas	(blank)	37,342	1
CSO118 Total											15,119,189	16
CSO119	4/8/2020 22:15	4/8/2020 22:30	15	1	55964	0	0	3	Atlas	(blank)	66,038	1
	4/12/2020 16:30	4/13/2020 3:30	660	2	433086	3	0	12	Atlas	(blank)	718,923	1
	4/23/2020 12:45	4/23/2020 13:00	15	0	111146	1	0	12	Atlas	(blank)	55,573	1
	5/8/2020 10:30	5/8/2020 12:30	120	0	384112	0	0	12	Atlas	(blank)	230,467	1
	5/15/2020 16:30	5/16/2020 8:00	930	1	558430	1	0	24	Atlas	(blank)	703,622	1
	5/18/2020 7:15	5/18/2020 8:00	45	0	447413	2	0	1	Atlas	(blank)	134,224	1
	5/25/2020 16:45	5/25/2020 16:45	0	0	121439	0	0	1	Atlas	(blank)	27,931	1
	5/29/2020 0:30	5/29/2020 0:30	0	0	150882	0	0	1	Atlas	(blank)	33,194	1
	6/4/2020 18:15	6/4/2020 19:15	60	0	227486	0	0	3	Atlas	(blank)	113,743	1
	6/21/2020 11:30	6/21/2020 12:00	30	0	291469	0	0	1	Atlas	(blank)	131,161	1
	6/22/2020 22:30	6/23/2020 0:30	120	0	514581	1	0	6	Atlas	(blank)	452,831	1
	6/23/2020 8:45	6/23/2020 9:00	15	0	64076	1	0	6	Atlas	(blank)	56,387	1
	6/29/2020 3:00	6/29/2020 4:45	105	0	520579	2	0	3	Atlas	(blank)	291,524	1
	6/30/2020 22:45	6/30/2020 23:00	15	0	975386	0	0	1	Atlas	(blank)	68,277	1



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CSO119 Total											3,083,895	14
CSO121	4/8/2020 22:30	4/8/2020 22:30	0	1	8859	0	0	3	Atlas	(blank)	10,454	1
	4/12/2020 18:00	4/12/2020 18:00	0	2	2651	2	0	12	Atlas	(blank)	4,612	1
	5/8/2020 11:00	5/8/2020 11:00	0	0	5480	0	0	12	Atlas	(blank)	3,288	1
	5/15/2020 16:45	5/16/2020 8:00	915	1	117417	1	0	24	Atlas	(blank)	143,249	1
	5/18/2020 7:30	5/18/2020 8:00	30	0	125048	2	0	1	Atlas	(blank)	41,266	1
	5/23/2020 18:00	5/23/2020 18:00	0	0	81779	0	0	3	Atlas	(blank)	15,538	1
	5/29/2020 0:45	5/29/2020 0:45	0	0	100647	0	0	1	Atlas	(blank)	19,123	1
	6/4/2020 18:15	6/4/2020 19:30	75	0	214086	0	0	3	Atlas	(blank)	104,902	1
	6/21/2020 11:45	6/21/2020 12:00	15	0	147514	0	0	1	Atlas	(blank)	54,580	1
	6/22/2020 22:45	6/23/2020 0:30	105	0	197636	1	0	6	Atlas	(blank)	160,085	1
	6/23/2020 8:45	6/23/2020 9:00	15	0	60823	1	0	6	Atlas	(blank)	49,267	1
	6/29/2020 3:00	6/29/2020 4:45	105	0	378143	1	0	3	Atlas	(blank)	173,946	1
	6/30/2020 1:30	6/30/2020 2:30	60	0	127209	1	0	1	Atlas	(blank)	44,523	1
CSO121 Total											824,833	13
CSO125	4/8/2020 22:30	4/9/2020 1:00	150	1	40569	1	0	3	Atlas	(blank)	43,003	1
	4/12/2020 17:00	4/13/2020 5:45	765	2	214800	3	0	12	Atlas	(blank)	442,489	1
	4/23/2020 13:00	4/23/2020 20:00	420	0	64318	1	0	12	Atlas	(blank)	39,877	1
	4/25/2020 17:30	4/25/2020 17:45	15	0	37270	0	0	24	Atlas	(blank)	25,716	1
	4/29/2020 11:00	4/29/2020 11:15	15	0	43500	1	0	3	Atlas	(blank)	9,135	1
	5/5/2020 6:45	5/5/2020 6:45	0	0	26735	0	0	3	Atlas	(blank)	5,347	1
	5/8/2020 11:00	5/8/2020 12:15	75	0	75544	0	0	12	Atlas	(blank)	43,060	1
	5/15/2020 16:45	5/16/2020 8:00	915	1	46828	2	0	24	Atlas	(blank)	67,901	1
	5/18/2020 7:45	5/18/2020 8:00	15	0	11327	2	0	1	Atlas	(blank)	6,683	1
	5/23/2020 17:00	5/23/2020 17:00	0	0	24010	0	0	3	Atlas	(blank)	7,203	1
	5/29/2020 0:45	5/29/2020 0:45	0	0	2975	0	0	1	Atlas	(blank)	476	1
	6/21/2020 12:45	6/21/2020 15:30	165	0	894	0	0	1	Atlas	(blank)	563	1
CSO125 Total											691,453	12
CSO126	5/16/2020 7:45	5/16/2020 8:30	45	1	17534	2	0	24	Atlas	(blank)	25,425	1
	6/4/2020 18:15	6/4/2020 18:15	0	0	8113	0	0	3	Atlas	(blank)	4,543	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	26594	0	0	1	Atlas	(blank)	16,754	1
	6/23/2020 0:15	6/23/2020 0:30	15	1	3599	2	0	3	Atlas	(blank)	3,959	1
	6/29/2020 2:45	6/29/2020 2:45	0	0	100	2	0	3	Atlas	(blank)	91	1
	6/30/2020 23:15	6/30/2020 23:15	0	0	18375	1	0	3	Atlas	(blank)	3,675	1

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CSO126 Total											54,447	6
CSO127	4/8/2020 23:00	4/8/2020 23:15	15	0	1182	0	0	3	Atlas	(blank)	1,135	1
	4/12/2020 16:30	4/13/2020 6:00	810	2	25376	3	0	12	Atlas	(blank)	60,394	1
	4/17/2020 18:45	4/17/2020 19:00	15	0	11218	3	0	12	Atlas	(blank)	8,750	1
	4/23/2020 8:15	4/23/2020 15:45	450	0	14706	1	0	12	Atlas	(blank)	9,559	1
	4/25/2020 17:00	4/25/2020 17:15	15	0	7167	0	0	24	Atlas	(blank)	4,730	1
	4/26/2020 6:45	4/26/2020 7:15	30	0	4883	1	0	24	Atlas	(blank)	3,223	1
	4/29/2020 11:00	4/29/2020 11:15	15	0	6640	1	0	24	Atlas	(blank)	1,328	1
	4/29/2020 21:45	4/29/2020 21:45	0	0	2105	2	0	24	Atlas	(blank)	421	1
	5/5/2020 6:30	5/5/2020 7:00	30	0	8343	0	0	3	Atlas	(blank)	1,752	1
	5/8/2020 9:00	5/8/2020 13:15	255	0	38246	0	0	12	Atlas	(blank)	21,418	1
	5/15/2020 17:15	5/16/2020 8:30	915	2	59252	2	0	24	Atlas	(blank)	98,951	1
	5/18/2020 7:30	5/18/2020 12:45	315	0	49769	2	0	6	Atlas	(blank)	24,387	1
	5/23/2020 17:00	5/23/2020 18:30	90	0	678106	0	0	3	Atlas	(blank)	216,994	1
	5/25/2020 17:00	5/25/2020 17:00	0	0	3558	0	0	1	Atlas	(blank)	854	1
	5/29/2020 0:45	5/29/2020 1:00	15	0	85382	1	0	1	Atlas	(blank)	9,392	1
	6/4/2020 15:45	6/4/2020 21:00	315	0	81272	0	0	6	Atlas	(blank)	49,576	1
	6/21/2020 11:45	6/21/2020 17:45	360	0	139579	0	0	1	Atlas	(blank)	85,143	1
	6/22/2020 21:15	6/23/2020 0:45	210	1	267759	2	0	3	Atlas	(blank)	334,699	1
	6/23/2020 9:15	6/23/2020 9:15	0	1	1919	2	0	3	Atlas	(blank)	2,399	1
	6/27/2020 18:30	6/27/2020 18:45	15	0	13083	2	0	1	Atlas	(blank)	2,355	1
	6/29/2020 2:45	6/29/2020 5:00	135	0	89662	2	0	3	Atlas	(blank)	84,282	1
	6/30/2020 1:00	6/30/2020 1:45	45	0	129892	2	0	1	Atlas	(blank)	67,388	1
	6/30/2020 23:00	6/30/2020 23:30	30	0	44284	2	0	3	Atlas	(blank)	8,414	1
CSO127 Total											1,097,544	23
CSO131	5/16/2020 2:30	5/16/2020 7:45	315	1	57536	1	0	24	Atlas	(blank)	61,564	1
	6/21/2020 12:00	6/21/2020 12:00	0	0	282271	0	0	6	Atlas	(blank)	98,795	1
	6/23/2020 0:15	6/23/2020 0:15	0	0	37095	1	0	3	Atlas	(blank)	29,676	1
	6/29/2020 3:00	6/29/2020 4:15	75	0	174955	1	0	3	Atlas	(blank)	76,980	1
CSO131 Total											267,015	4
CSO132	5/16/2020 3:00	5/17/2020 0:00	1260	1	368677	1	0	24	Atlas	(blank)	387,111	1
	5/23/2020 17:45	5/24/2020 0:00	375	0	66032	0	0	3	Atlas	(blank)	14,527	1
	6/4/2020 19:00	6/5/2020 0:00	300	0	100585	0	0	3	Atlas	(blank)	46,269	1
	6/21/2020 12:30	6/22/2020 0:00	690	0	828265	0	0	1	Atlas	(blank)	306,458	1



CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
	6/22/2020 23:15	6/24/2020 0:00	1485	0	869456	1	0	3	Atlas	(blank)	652,092	1
	6/29/2020 3:30	6/30/2020 0:00	1230	0	324622	2	0	1	Atlas	(blank)	175,296	1
	6/30/2020 23:45	7/1/2020 0:00	15	0	4673	1	0	3	Atlas	(blank)	514	1
CSO132 Total											1,582,267	7
CSO140	6/23/2020 0:00	6/23/2020 0:00	0	0	28527	1	0	3	Atlas	(blank)	23,107	1
CSO140 Total											23,107	1
CSO141	6/22/2020 22:30	6/22/2020 22:30	0	0	5932	0	0	6	Atlas	(blank)	4,805	1
	6/23/2020 8:45	6/23/2020 8:45	0	0	621	1	0	6	Atlas	(blank)	503	1
CSO141 Total											5,308	2
CSO142	5/16/2020 2:15	5/16/2020 7:30	315	1	3274	2	0	24	Atlas	Retained by Sneads Branch	4,486	1
	5/18/2020 7:30	5/18/2020 7:30	0	0	4763	2	0	12	Atlas	Retained by Sneads Branch	1,953	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	49545	0	0	1	Atlas	Retained by Sneads Branch	23,286	1
	6/22/2020 22:30	6/23/2020 0:00	90	0	55705	1	0	3	Atlas	Retained by Sneads Branch	44,007	1
	6/27/2020 18:15	6/27/2020 18:15	0	0	8383	1	0	1	Atlas	Retained by Sneads Branch	2,012	1
	6/29/2020 3:30	6/29/2020 4:30	60	0	42837	2	0	3	Atlas	Retained by Sneads Branch	25,702	1
	6/30/2020 22:45	6/30/2020 22:45	0	0	183857	1	0	1	Atlas	Retained by Sneads Branch	12,870	1
CSO142 Total											114,316	7
CSO144	6/23/2020 0:00	6/23/2020 0:00	0	0	3932	1	0	3	Atlas	(blank)	3,303	1
CSO144 Total											3,303	1
CSO146	5/16/2020 7:45	5/16/2020 7:45	0	1	7508	2	0	24	Atlas	(blank)	10,286	1
	6/22/2020 23:00	6/22/2020 23:15	15	0	109281	1	0	3	Atlas	(blank)	86,332	1
	6/30/2020 22:45	6/30/2020 22:45	0	0	96657	1	0	1	Atlas	(blank)	6,766	1
CSO146 Total											103,384	3
CSO148	4/8/2020 22:15	4/8/2020 22:15	0	1	8582	0	0	3	Atlas	(blank)	8,754	1
	4/12/2020 16:30	4/13/2020 3:15	645	2	6573	3	0	12	Atlas	(blank)	14,461	1
	4/23/2020 12:45	4/23/2020 12:45	0	0	963	1	0	12	Atlas	(blank)	626	1
	5/8/2020 10:30	5/8/2020 11:00	30	0	22064	0	0	6	Atlas	(blank)	13,459	1

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	5/15/2020 23:00	5/16/2020 7:30	510	1	26549	1	0	24	Atlas	(blank)	36,107	1
	5/18/2020 7:30	5/18/2020 7:30	0	0	5577	2	0	12	Atlas	(blank)	2,175	1
	5/23/2020 16:45	5/23/2020 17:45	60	0	57402	0	0	3	Atlas	(blank)	23,535	1
	6/4/2020 15:30	6/4/2020 18:30	180	0	24360	0	0	6	Atlas	(blank)	16,321	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	19687	0	0	6	Atlas	(blank)	10,828	1
	6/22/2020 22:30	6/23/2020 0:00	90	1	103862	2	0	6	Atlas	(blank)	130,866	1
	6/27/2020 18:15	6/27/2020 18:15	0	0	24700	2	0	1	Atlas	(blank)	12,350	1
	6/29/2020 3:00	6/29/2020 4:30	90	1	66731	3	0	3	Atlas	(blank)	72,737	1
	6/30/2020 22:45	6/30/2020 23:00	15	0	66647	2	0	1	Atlas	(blank)	28,658	1
CSO148 Total											370,877	13
CSO151	4/8/2020 22:45	4/8/2020 23:00	15	1	37863	1	0	3	Atlas	(blank)	42,406	1
	4/12/2020 17:00	4/13/2020 5:45	765	2	273692	3	0	12	Atlas	(blank)	509,068	1
	4/23/2020 8:00	4/23/2020 16:00	480	0	178180	1	0	12	Atlas	(blank)	105,126	1
	4/25/2020 17:15	4/25/2020 17:15	0	0	9675	0	0	24	Atlas	(blank)	5,515	1
	4/26/2020 6:45	4/26/2020 10:30	225	0	51807	1	0	24	Atlas	(blank)	29,530	1
	4/29/2020 11:15	4/29/2020 11:15	0	0	159624	1	0	24	Atlas	(blank)	27,136	1
	4/29/2020 21:45	4/29/2020 21:45	0	0	140129	1	0	24	Atlas	(blank)	23,822	1
	5/5/2020 6:45	5/5/2020 7:15	30	0	466300	0	0	6	Atlas	(blank)	102,586	1
	5/8/2020 9:00	5/8/2020 13:45	285	0	1360452	0	0	12	Atlas	(blank)	816,271	1
	5/15/2020 23:30	5/16/2020 8:15	525	1	458246	2	0	24	Atlas	(blank)	650,709	1
	5/18/2020 7:45	5/18/2020 12:15	270	0	250800	2	0	6	Atlas	(blank)	95,304	1
	5/23/2020 17:15	5/23/2020 18:45	90	0	1870745	0	0	3	Atlas	(blank)	374,149	1
	5/29/2020 1:00	5/29/2020 1:00	0	0	45141	0	0	12	Atlas	(blank)	9,931	1
	6/4/2020 16:00	6/4/2020 21:00	300	0	563778	0	0	6	Atlas	(blank)	281,889	1
	6/21/2020 12:15	6/21/2020 12:30	15	0	54455	0	0	1	Atlas	(blank)	32,673	1
	6/22/2020 22:45	6/23/2020 0:45	120	0	285048	2	0	3	Atlas	(blank)	270,796	1
	6/23/2020 9:15	6/23/2020 9:15	0	0	8788	2	0	3	Atlas	(blank)	8,349	1
	6/27/2020 18:30	6/27/2020 18:45	15	0	82515	2	0	1	Atlas	(blank)	28,055	1
	6/29/2020 3:45	6/29/2020 8:00	255	0	187095	2	0	3	Atlas	(blank)	145,934	1
	6/30/2020 1:15	6/30/2020 1:30	15	0	178617	1	0	1	Atlas	(blank)	32,151	1
	6/30/2020 23:00	6/30/2020 23:45	45	0	305707	2	0	1	Atlas	(blank)	85,598	1
CSO151 Total											3,676,998	21
CSO153	4/8/2020 22:15	4/8/2020 22:30	15	1	29619	0	0	3	Atlas	(blank)	34,951	1
	4/12/2020 16:15	4/13/2020 3:30	675	2	155274	3	0	12	Atlas	(blank)	270,177	1
	4/23/2020 7:30	4/23/2020 13:00	330	0	92740	1	0	12	Atlas	(blank)	44,515	1



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	4/26/2020 0:15	4/26/2020 6:30	375	0	21075	0	0	24	Atlas	(blank)	10,959	1
	5/5/2020 6:15	5/5/2020 6:30	15	0	60764	0	0	6	Atlas	(blank)	13,368	1
	5/8/2020 8:30	5/8/2020 13:00	270	0	342527	0	0	12	Atlas	(blank)	205,516	1
	5/15/2020 16:30	5/16/2020 7:45	915	1	389718	1	0	24	Atlas	(blank)	475,456	1
	5/18/2020 7:30	5/18/2020 12:30	300	0	193091	2	0	1	Atlas	(blank)	63,720	1
	5/23/2020 16:45	5/23/2020 17:45	60	0	286421	0	0	3	Atlas	(blank)	54,420	1
	5/29/2020 0:30	5/29/2020 0:30	0	0	124837	0	0	1	Atlas	(blank)	23,719	1
	6/4/2020 18:15	6/4/2020 20:30	135	0	153712	0	0	3	Atlas	(blank)	75,319	1
	6/21/2020 11:45	6/21/2020 12:00	15	0	203430	0	0	1	Atlas	(blank)	75,269	1
	6/22/2020 22:30	6/23/2020 10:00	690	0	718758	1	0	6	Atlas	(blank)	582,194	1
	6/29/2020 2:45	6/29/2020 6:00	195	0	520761	1	0	3	Atlas	(blank)	239,550	1
	6/30/2020 1:15	6/30/2020 2:15	60	0	22109	1	0	1	Atlas	(blank)	7,738	1
	6/30/2020 22:45	6/30/2020 23:00	15	0	475140	0	0	1	Atlas	(blank)	23,757	1
CSO153 Total											2,200,628	16
CSO161	4/8/2020 22:00	4/8/2020 22:00	0	1	83	0	0	3	Atlas	(blank)	83	1
	5/16/2020 7:15	5/16/2020 7:15	0	1	456	2	0	24	Atlas	(blank)	602	1
	5/25/2020 16:30	5/25/2020 16:30	0	0	2766	0	0	1	Atlas	(blank)	1,217	1
	6/4/2020 18:00	6/4/2020 18:00	0	0	117	0	0	3	Atlas	(blank)	70	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	5791	0	0	1	Atlas	(blank)	2,027	1
	6/22/2020 22:30	6/23/2020 0:00	90	0	31267	1	0	3	Atlas	(blank)	24,388	1
	6/29/2020 2:45	6/29/2020 4:15	90	0	691	1	0	1	Atlas	(blank)	235	1
	6/29/2020 19:15	6/29/2020 19:15	0	0	4491	1	0	1	Atlas	(blank)	1,527	1
CSO161 Total											30,149	8
CSO166	4/8/2020 22:45	4/8/2020 23:15	30	0	29463	0	0	3	Atlas	(blank)	28,284	1
	4/12/2020 17:15	4/13/2020 6:30	795	2	839630	3	0	12	Atlas	(blank)	1,998,319	1
	4/23/2020 13:15	4/23/2020 13:45	30	0	71483	1	0	12	Atlas	(blank)	46,464	1
	4/25/2020 17:30	4/25/2020 18:00	30	0	58583	0	0	24	Atlas	(blank)	38,665	1
	4/29/2020 11:15	4/29/2020 11:30	15	0	160725	1	0	24	Atlas	(blank)	32,145	1
	5/8/2020 10:45	5/8/2020 12:30	105	0	131155	0	0	12	Atlas	(blank)	73,447	1
	5/15/2020 23:45	5/16/2020 9:15	570	2	695619	2	0	24	Atlas	(blank)	1,161,683	1
	5/18/2020 8:00	5/18/2020 13:00	300	0	93588	2	0	6	Atlas	(blank)	45,858	1
	5/23/2020 17:30	5/23/2020 19:30	120	0	3197291	0	0	3	Atlas	(blank)	1,023,133	1
	5/26/2020 15:00	5/26/2020 15:00	0	0	118280	0	0	3	Atlas	(blank)	17,742	1
	6/4/2020 18:15	6/4/2020 19:15	60	0	524228	0	0	6	Atlas	(blank)	319,779	1
	6/21/2020 12:00	6/21/2020 12:45	45	0	316905	0	0	1	Atlas	(blank)	193,312	1

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	6/22/2020 22:45	6/23/2020 9:30	645	1	1440070	2	0	3	Atlas	(blank)	1,800,087	1
	6/29/2020 3:00	6/29/2020 6:00	180	0	662967	2	0	3	Atlas	(blank)	641,989	1
	6/30/2020 1:15	6/30/2020 1:45	30	0	597537	2	0	1	Atlas	(blank)	310,719	1
	6/30/2020 23:15	7/1/2020 0:00	45	0	6452626	2	0	3	Atlas	(blank)	1,225,999	1
CSO166 Total											8,957,625	16
CSO167	5/16/2020 3:00	5/17/2020 0:00	1260	1	5994	1	0	24	Atlas	(blank)	6,294	1
	5/23/2020 17:45	5/24/2020 0:00	375	0	1073	0	0	3	Atlas	(blank)	236	1
	6/4/2020 19:00	6/5/2020 0:00	300	0	1635	0	0	3	Atlas	(blank)	752	1
	6/21/2020 12:30	6/22/2020 0:00	690	0	13468	0	0	1	Atlas	(blank)	4,983	1
	6/22/2020 23:15	6/24/2020 0:00	1485	0	14137	1	0	3	Atlas	(blank)	10,603	1
	6/29/2020 3:30	6/30/2020 0:00	1230	0	5278	2	0	1	Atlas	(blank)	2,850	1
CSO167 Total											25,718	6
CSO174	4/8/2020 22:30	4/8/2020 22:30	0	1	2680	0	0	3	Atlas	Retained by Sneads Branch	3,055	1
	4/12/2020 17:00	4/13/2020 3:15	615	2	64486	3	0	12	Atlas	Retained by Sneads Branch	117,364	1
	5/8/2020 10:30	5/8/2020 11:15	45	0	109664	0	0	12	Atlas	Retained by Sneads Branch	64,702	1
	5/15/2020 23:45	5/16/2020 7:30	465	1	115891	2	0	24	Atlas	Retained by Sneads Branch	158,771	1
	5/18/2020 7:45	5/18/2020 7:45	0	0	11156	2	0	12	Atlas	Retained by Sneads Branch	4,574	1
	5/23/2020 18:00	5/23/2020 18:00	0	0	270856	0	0	6	Atlas	Retained by Sneads Branch	24,377	1
	6/4/2020 15:45	6/4/2020 15:45	0	0	41772	0	0	6	Atlas	Retained by Sneads Branch	19,215	1
	6/21/2020 11:45	6/21/2020 12:00	15	0	447379	0	0	1	Atlas	Retained by Sneads Branch	210,268	1
	6/22/2020 22:30	6/23/2020 0:15	105	0	991415	1	0	3	Atlas	Retained by Sneads Branch	783,218	1
	6/27/2020 18:15	6/27/2020 18:30	15	0	361804	1	0	1	Atlas	Retained by Sneads Branch	86,833	1
	6/29/2020 3:30	6/29/2020 4:45	75	0	932103	2	0	3	Atlas	Retained by Sneads Branch	559,262	1
	6/30/2020 22:30	6/30/2020 23:00	30	0	4045286	1	0	1	Atlas	Retained by Sneads Branch	283,170	1
CSO174 Total											2,314,809	12



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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
CSO180	5/8/2020 10:30	5/8/2020 10:30	0	0	1158	0	0	12	Atlas	Retained by Sneads Branch	683	1
	5/16/2020 0:00	5/16/2020 7:30	450	1	76416	2	0	24	Atlas	Retained by Sneads Branch	104,690	1
	5/25/2020 16:30	5/25/2020 16:30	0	0	22742	0	0	1	Atlas	Retained by Sneads Branch	5,913	1
	6/4/2020 18:15	6/4/2020 18:15	0	0	243	0	0	6	Atlas	Retained by Sneads Branch	112	1
	6/21/2020 11:30	6/21/2020 11:45	15	0	49260	0	0	1	Atlas	Retained by Sneads Branch	23,152	1
	6/22/2020 22:30	6/23/2020 0:00	90	0	166271	1	0	3	Atlas	Retained by Sneads Branch	131,354	1
CSO180 Total											265,904	6
CSO183	5/18/2020 14:45	5/18/2020 14:45	0	0	461	2	0	1	Atlas	Retained by Sneads Branch	189	1
	6/22/2020 22:30	6/22/2020 22:30	0	1	5600	1	0	3	Atlas	Retained by Sneads Branch	7,504	1
	6/27/2020 18:15	6/27/2020 18:15	0	0	1267	2	0	1	Atlas	Retained by Sneads Branch	532	1
	6/29/2020 3:30	6/29/2020 3:30	0	0	5666	2	0	3	Atlas	Retained by Sneads Branch	2,323	1
CSO183 Total											10,548	4
CSO184	6/4/2020 15:30	6/4/2020 15:30	0	0	17339	0	0	6	Atlas	Retained by Sneads Branch	9,363	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	2643	0	0	1	Atlas	Retained by Sneads Branch	1,348	1
	6/22/2020 22:30	6/23/2020 0:00	90	1	18551	2	0	3	Atlas	Retained by Sneads Branch	24,859	1
	6/27/2020 18:15	6/27/2020 18:15	0	0	17052	2	0	1	Atlas	Retained by Sneads Branch	7,162	1
	6/29/2020 3:30	6/29/2020 4:30	60	0	3795	2	0	3	Atlas	Retained by Sneads Branch	1,556	1
CSO184 Total											44,288	5
CSO185	4/12/2020 18:00	4/13/2020 1:15	435	2	464	3	0	12	Atlas	Retained by Sneads Branch	853	1
	5/8/2020 10:30	5/8/2020 10:30	0	0	2085	0	0	6	Atlas	Retained by Sneads Branch	1,355	1
	5/16/2020 0:00	5/16/2020 2:45	165	1	5617	1	0	24	Atlas	Retained by Sneads Branch	6,909	1

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C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
	5/23/2020 17:45	5/23/2020 18:00	15	0	107525	0	0	1	Atlas	Retained by Sneads Branch	8,602	1
	6/4/2020 15:30	6/4/2020 15:45	15	0	51370	0	0	6	Atlas	Retained by Sneads Branch	27,740	1
CSO185 Total											45,459	5
CSO187	6/22/2020 22:15	6/22/2020 22:15	0	0	19004	0	0	3	Atlas	Retained by Sneads Branch	15,013	1
	6/29/2020 3:15	6/29/2020 3:15	0	0	1000	1	0	3	Atlas	Retained by Sneads Branch	600	1
CSO187 Total											15,613	2
CSO190	4/12/2020 17:45	4/12/2020 17:45	0	2	600	2	0	12	Atlas	(blank)	1,345	1
	4/13/2020 2:15	4/13/2020 2:30	15	2	154	3	0	12	Atlas	(blank)	346	1
	6/4/2020 19:00	6/4/2020 19:15	15	0	125	0	0	3	Atlas	(blank)	120	1
	6/21/2020 11:30	6/21/2020 17:15	345	0	60954	0	0	6	Atlas	(blank)	23,772	1
	6/22/2020 22:15	6/23/2020 8:45	630	1	122599	2	0	6	Atlas	(blank)	134,859	1
	6/29/2020 2:30	6/29/2020 4:30	120	0	32199	2	0	3	Atlas	(blank)	23,183	1
	6/29/2020 18:45	6/30/2020 2:15	450	0	30851	3	0	1	Atlas	(blank)	24,989	1
CSO190 Total											208,614	7
CSO191	4/12/2020 17:45	4/13/2020 9:00	915	3	172732	4	0	12	Atlas	(blank)	480,194	1
	4/23/2020 14:15	4/23/2020 17:15	180	0	67	2	0	12	Atlas	(blank)	64	1
	4/25/2020 12:30	4/26/2020 2:15	825	0	86	2	0	24	Atlas	(blank)	84	1
	5/8/2020 15:45	5/8/2020 19:15	210	0	303	0	0	6	Atlas	(blank)	191	1
	5/13/2020 22:30	5/14/2020 22:00	1410	0	412700	0	0	1	Atlas	(blank)	4,127	1
	5/15/2020 16:00	5/16/2020 20:15	1695	2	89784	2	0	24	Atlas	(blank)	181,363	1
	5/18/2020 10:00	5/18/2020 13:00	180	0	7822	3	0	6	Atlas	(blank)	6,649	1
	5/25/2020 19:00	5/25/2020 20:30	90	0	726	0	0	1	Atlas	(blank)	523	1
	6/29/2020 6:15	6/29/2020 21:30	915	0	40284	3	0	3	Atlas	(blank)	10,066	1
	6/30/2020 11:45	7/1/2020 0:00	735	0	39550	1	0	1	Atlas	(blank)	3,164	1
CSO191 Total											686,425	10
CSO193	6/29/2020 4:15	6/29/2020 4:15	0	0	518	2	0	3	Atlas	(blank)	207	1
CSO193 Total											207	1
CSO196	5/16/2020 2:15	5/16/2020 2:15	0	1	5226	1	0	24	Atlas	(blank)	7,630	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	1878	0	0	1	Atlas	(blank)	864	1
	6/22/2020 22:30	6/23/2020 0:00	90	0	22062	1	0	3	Atlas	(blank)	19,194	1



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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
CSO196	6/29/2020 3:30	6/29/2020 4:30	60	0	100657	2	0	3	Atlas	(blank)	56,368	1
CSO196 Total											84,056	4
CSO197	5/16/2020 7:00	5/16/2020 7:00	0	1	183	2	0	24	Atlas	(blank)	267	1
	6/22/2020 22:15	6/22/2020 22:15	0	0	2482	0	0	3	Atlas	(blank)	2,159	1
	6/29/2020 4:00	6/29/2020 4:00	0	0	1063	2	0	3	Atlas	(blank)	595	1
CSO197 Total											3,021	3
CSO198	5/16/2020 2:00	5/16/2020 7:00	300	1	3982	2	0	24	Atlas	(blank)	5,814	1
	6/22/2020 22:15	6/22/2020 22:15	0	0	10533	0	0	3	Atlas	(blank)	9,164	1
CSO198 Total											14,978	2
CSO199	5/16/2020 2:00	5/16/2020 7:15	315	1	4899	2	0	24	Atlas	(blank)	7,152	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	1746	0	0	1	Atlas	(blank)	803	1
	6/22/2020 22:30	6/23/2020 0:00	90	0	2199	1	0	3	Atlas	(blank)	1,913	1
	6/29/2020 3:30	6/29/2020 4:30	60	0	24746	2	0	3	Atlas	(blank)	13,858	1
CSO199 Total											23,726	4
CSO201	5/16/2020 7:30	5/16/2020 7:30	0	1	745	2	0	24	Atlas	(blank)	1,006	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	2041	0	0	1	Atlas	(blank)	898	1
	6/22/2020 22:30	6/23/2020 0:00	90	1	13244	1	0	3	Atlas	(blank)	13,244	1
	6/29/2020 3:30	6/29/2020 3:30	0	0	28258	1	0	3	Atlas	(blank)	11,303	1
CSO201 Total											26,451	4
CSO202	4/8/2020 22:15	4/8/2020 22:15	0	1	974	0	0	3	Atlas	(blank)	974	1
	4/12/2020 17:45	4/13/2020 1:15	450	2	890	2	0	12	Atlas	(blank)	1,549	1
	5/8/2020 10:30	5/8/2020 10:30	0	0	172	0	0	12	Atlas	(blank)	110	1
	5/15/2020 16:30	5/16/2020 7:30	900	1	7105	2	0	24	Atlas	(blank)	10,374	1
	5/25/2020 16:30	5/25/2020 16:30	0	0	9455	0	0	1	Atlas	(blank)	3,971	1
	5/28/2020 17:15	5/29/2020 0:30	435	0	335	0	0	1	Atlas	(blank)	57	1
	6/4/2020 18:15	6/4/2020 18:15	0	0	1065	0	0	6	Atlas	(blank)	543	1
	6/9/2020 11:45	6/9/2020 11:45	0	0	9600	0	0	1	Atlas	(blank)	960	1
	6/21/2020 11:45	6/21/2020 11:45	0	0	4504	0	0	1	Atlas	(blank)	2,072	1
	6/22/2020 22:30	6/23/2020 0:00	90	0	19757	1	0	3	Atlas	(blank)	17,189	1
	6/29/2020 3:15	6/29/2020 4:30	75	0	21577	2	0	3	Atlas	(blank)	12,083	1
CSO202 Total											49,882	11
CSO203	5/16/2020 2:15	5/16/2020 2:15	0	1	55	1	0	24	Atlas	(blank)	81	1

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C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
	6/21/2020 11:45	6/21/2020 11:45	0	0	554	0	0	1	Atlas	(blank)	255	1
	6/22/2020 22:30	6/22/2020 22:30	0	0	13301	1	0	3	Atlas	(blank)	11,572	1
	6/29/2020 3:30	6/29/2020 3:30	0	0	6702	1	0	3	Atlas	(blank)	3,753	1
CSO203 Total											15,661	4
CSO205	4/8/2020 22:15	4/8/2020 22:15	0	1	518	0	0	3	Atlas	Retained by Sneads Branch	591	1
	4/12/2020 16:30	4/13/2020 5:15	765	2	3333	3	0	12	Atlas	Retained by Sneads Branch	5,800	1
	4/23/2020 7:30	4/23/2020 13:00	330	0	959	1	0	12	Atlas	Retained by Sneads Branch	518	1
	4/26/2020 6:45	4/26/2020 6:45	0	0	50	0	0	24	Atlas	Retained by Sneads Branch	26	1
	5/8/2020 9:45	5/8/2020 12:45	180	0	5590	0	0	12	Atlas	Retained by Sneads Branch	3,298	1
	5/15/2020 19:15	5/16/2020 7:30	735	1	2859	1	0	24	Atlas	Retained by Sneads Branch	3,488	1
	5/18/2020 7:30	5/18/2020 13:00	330	0	646	2	0	1	Atlas	Retained by Sneads Branch	265	1
	5/23/2020 17:45	5/23/2020 17:45	0	0	614	0	0	1	Atlas	Retained by Sneads Branch	43	1
	5/29/2020 0:30	5/29/2020 0:30	0	0	1496	0	0	12	Atlas	Retained by Sneads Branch	344	1
	6/27/2020 18:15	6/27/2020 18:30	15	0	2769	2	0	1	Atlas	Retained by Sneads Branch	886	1
	6/29/2020 3:30	6/29/2020 4:45	75	0	7720	2	0	3	Atlas	Retained by Sneads Branch	4,169	1
	6/30/2020 22:30	6/30/2020 22:45	15	0	15384	1	0	1	Atlas	Retained by Sneads Branch	2,463	1
CSO205 Total											21,891	12
CSO210	4/12/2020 18:00	4/13/2020 9:00	900	3	129632	4	0	12	Atlas	(blank)	365,561	1
CSO210 Total											365,561	1
CSO211	4/12/2020 17:45	4/13/2020 6:00	735	3	812024	4	0	12	Atlas	(blank)	22,898,975	1
	5/8/2020 12:00	5/8/2020 14:00	120	0	4794284	0	0	12	Atlas	(blank)	2,780,685	1
	5/16/2020 3:45	5/16/2020 12:15	510	1	11321035	2	0	24	Atlas	(blank)	16,641,921	1
	5/18/2020 9:15	5/18/2020 10:15	60	0	298785	3	0	1	Atlas	(blank)	274,882	1
	6/4/2020 19:45	6/4/2020 21:45	120	0	1699048	1	0	3	Atlas	(blank)	1,503,253	1
	6/21/2020 13:30	6/21/2020 14:00	30	0	252124	0	0	1	Atlas	(blank)	196,657	1



C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT
	6/22/2020 23:45	6/23/2020 2:45	180	1	22442020	2	0	6	Atlas	(blank)	28,276,945	1
	6/29/2020 5:15	6/29/2020 6:45	90	0	28254019	2	0	1	Atlas	(blank)	4,520,643	1
CSO211 Total											77,093,961	8
Grand Total											225,886,210	468

**APPENDIX C**

**ACRONYMS**





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

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



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**APPENDIX D**

**SCAP BALANCE**



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





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CREDIT BASIN	RELEASE DATE	APPLICATION	APPLICATION NAME	TYPE	FLOW	SUM OF APPROVED CREDIT REQUIRED / FLOW REDUCTION
	10/2/2019	LE978334	Houchens Industries	LAT EXT	780	-1,697
	1/30/2020	LE1049477	Hearthstone Meadows	LAT EXT	14400	-31,320
	2/27/2020	LE1085520	Jefferson Trace Blvd. Sewer Extension	LAT EXT	400	-870
Cedar Creek Total						482,463
Floyds Fork	11/1/2008	235557	MAINTENANCE WORK FY06 AUG-FY09 NOV - FLOYDS FORK	SCAPCREDIT		14,540
	12/31/2008	362638	MAINTENANCE WORK FY09A - FLOYDS FORK	SCAPCREDIT		1
	6/30/2009	362647	MAINTENANCE WORK FY09B - FLOYDS FORK	SCAPCREDIT		4
	12/31/2009	362651	MAINTENANCE WORK FY10A - FLOYDS FORK	SCAPCREDIT		524
	1/5/2010	230379	SHAKES RUN SECTION 4	LAT EXT	3,770	-8,200
	6/30/2010	362655	MAINTENANCE WORK FY10B - FLOYDS FORK	SCAPCREDIT		82
	12/31/2010	362661	MAINTENANCE WORK FY11A - FLOYDS FORK	SCAPCREDIT		14,163
	6/30/2011	362669	MAINTENANCE WORK FY11B - FLOYDS FORK	SCAPCREDIT		22,707
	10/12/2011	309608	BLANKENBAKER TRAIL OFFICE LN-B	LAT EXT	2,880	-6,264
	10/17/2011	242480	CLAIBOURNE CROSSINGS PHASE 2	LAT EXT	0	0
	12/31/2011	359320	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		362674	MAINTENANCE WORK FY12A - FLOYDS FORK	SCAPCREDIT		317
	3/13/2012	319027	PREMIER SURGERY CENTER	LAT EXT	5,740	-12,485
	6/30/2012	362678	MAINTENANCE WORK FY12B - FLOYDS FORK	SCAPCREDIT		338
	10/26/2012	315945	BROOKFIELD SEC 3	LAT EXT	12,800	-27,840
	12/18/2012	361689	LAKE FOREST REHAB PH1	SCAPCREDIT		174,769
	12/31/2012	362683	MAINTENANCE WORK FY13A - FLOYDS FORK	SCAPCREDIT		10
	5/8/2013	331397	BROOKFIELD SEC 2A	LAT EXT	14,400	-31,320
	6/30/2013	13SC1000	FY14 STARVIEW REHABILITATION	SCAPCREDIT		14,183
		SC1082514	MAINTENANCE WORK FY13 JAN-JUN-FLOYDS FORK	SCAPCREDIT		161
	12/30/2013	SC1082517	MAINTENANCE WORK FY14 JUL-DEC-FLOYDS FORK	SCAPCREDIT		991
	6/30/2014	SC1082518	MAINTENANCE WORK FY14 JAN-JUN-FLOYDS FORK	SCAPCREDIT		662
	12/30/2014	SC1082519	MAINTENANCE WORK FY15 JUL-DEC-FLOYDS FORK	SCAPCREDIT		1,318
	2/18/2015	13LE1062	SPEEDWAY #9451	LAT EXT	540	-1,175
	6/30/2015	SC1003809	BERRYTOWN WQTC I/I REMEDIATION FY14	SCAPCREDIT		116,834
		SC1082520	MAINTENANCE WORK FY15 JAN-JUN-FLOYDS FORK	SCAPCREDIT		661
	11/6/2015	SC1003723	MIDDLETOWN SSR P2S2 I/I REMEDIATION	SCAPCREDIT		102
	12/30/2015	SC1082521	MAINTENANCE WORK FY16 JUL-DEC-FLOYDS FORK	SCAPCREDIT		659
	1/7/2016	LE941673	Locust Creek Section 8B	LAT EXT	2,000	-4,350
	6/30/2016	SC1082523	MAINTENANCE WORK FY16 JAN-JUN-FLOYDS FORK	SCAPCREDIT		3,578
	7/7/2016	SC1003331	CONTRACTED WORK FY16 - FLOYDS FORK	SCAPCREDIT		35
	9/20/2016	LE932677	Shakes Run Sec 9	LAT EXT	12,000	-26,100
	12/30/2016	SC1082524	MAINTENANCE WORK FY17 JUL-DEC-FLOYDS FORK	SCAPCREDIT		1,804
	1/4/2017	LE945783	Urton Woods, Section 2B	LAT EXT	17,200	-37,410
	1/6/2017	LE983784	Catalpa Farms Subdivision	LAT EXT	16,000	-34,800
	2/27/2017	LE971261	Notting Hills Section 4 and Clubhouse	LAT EXT	10,400	-22,620

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	6/30/2017	SC1082525	MAINTENANCE WORK FY17 JAN-JUN-FLOYDS FORK	SCAPCREDIT		1,320
	12/30/2017	SC1082526	MAINTENANCE WORK FY18 JUL-DEC-FLOYDS FORK	SCAPCREDIT		6,158
	1/7/2019	LE1039193	Glen Lakes Section 4 - Phase 3	LAT EXT	16,400	-35,670
	10/21/2019	LE1050932	Courtyard at Curry Farms Section 1	LAT EXT	17,000	-36,975
Floyds Fork Total						94,712
Hite Creek	5/15/2006	SC1006307	CONTRACTED WORK FY06 - HITE CREEK	SCAPCREDIT		656
	11/1/2008	235561	MAINTENANCE WORK FY06 AUG-FY09 NOV - HITE CREEK	SCAPCREDIT		6,404
	12/31/2008	362641	MAINTENANCE WORK FY09A - HITE CREEK	SCAPCREDIT		2
	6/1/2009	SC1006214	CONTRACTED WORK FY09 - HITE CREEK	SCAPCREDIT		328
	6/30/2009	362648	MAINTENANCE WORK FY09B - HITE CREEK	SCAPCREDIT		7
	12/31/2009	362652	MAINTENANCE WORK FY10A - HITE CREEK	SCAPCREDIT		10
	6/30/2010	362657	MAINTENANCE WORK FY10B - HITE CREEK	SCAPCREDIT		332
	12/17/2010	320906	FLOYDSBURG ROAD I/I REHABILITA	SCAPCREDIT		28,437
	12/31/2010	362662	MAINTENANCE WORK FY11A - HITE CREEK	SCAPCREDIT		9
	6/30/2011	362670	MAINTENANCE WORK FY11B - HITE CREEK	SCAPCREDIT		9
	9/7/2011	SC1011058	Meadow Stream Pump Station & Force Main Expansion	SCAPCREDIT		2,304,000
	9/28/2011	246638	CHAPMAN COURT S/S	LAT EXT	800	-1,740
	12/31/2011	362675	MAINTENANCE WORK FY12A - HITE CREEK	SCAPCREDIT		340
	6/30/2012	362679	MAINTENANCE WORK FY12B - HITE CREEK	SCAPCREDIT		5,007
	8/31/2012	290181	CAMDEN WOOD APARTMENTS	LAT EXT	12,400	-26,970
	12/1/2012	304536	MAGNOLIA SPRINGS EAST PRIV P/S	LAT EXT	9,500	-20,663
	12/7/2012	335610	ROCK SPRINGS FARM SEC 4B	LAT EXT	6,400	-13,920
	12/31/2012	362684	MAINTENANCE WORK FY13A - HITE CREEK	SCAPCREDIT		7
	4/11/2013	SC1005530	CONTRACTED WORK FY13 - HITE CREEK	SCAPCREDIT		1,442
	6/30/2013	SC1082527	MAINTENANCE WORK FY13 JAN-JUN-HITE CREEK	SCAPCREDIT		967
	12/30/2013	SC1082528	MAINTENANCE WORK FY14 JUL-DEC-HITE CREEK	SCAPCREDIT		3,211
	6/30/2014	SC1082529	MAINTENANCE WORK FY14 JAN-JUNE-HITE CREEK	SCAPCREDIT		2,207
	12/30/2014	SC1082530	MAINTENANCE WORK FY15 JUL-DEC-HITE CREEK	SCAPCREDIT		360
	1/27/2015	SC1006178	CONTRACTED WORK FY14 - HITE CREEK	SCAPCREDIT		77,660
	3/13/2015	SC983697	MEADOWSTREAM REHABILITATION - FY13	SCAPCREDIT		448,447
	6/30/2015	SC1082531	MAINTENANCE WORK FY15 JAN-JUN-HITE CREEK	SCAPCREDIT		124
	12/30/2015	SC1082532	MAINTENANCE WORK FY16 JUL-DEC-HITE CREEK	SCAPCREDIT		1,191
	6/30/2016	SC1082533	MAINTENANCE WORK FY16 JAN-JUN-HITE CREEK	SCAPCREDIT		336
	9/13/2016	LE943178	Rock Springs Farm Section 5A	LAT EXT	6,800	-14,790
	10/26/2016	SC1006192	CONTRACTED WORK FY15 - HITE CREEK	SCAPCREDIT		1
	12/30/2016	SC1082534	MAINTENANCE WORK FY17 JUL-DEC-HITE CREEK	SCAPCREDIT		3,599
	3/17/2017	LE971406	Old Henry Business Park	LAT EXT	930	-2,023
	6/30/2017	SC1082535	MAINTENANCE WORK FY17 JAN-JUN-HITE CREEK	SCAPCREDIT		4,109
	12/30/2017	SC1082536	MAINTENANCE WORK FY18 JUL-DEC-HITE CREEK	SCAPCREDIT		6,823
	6/12/2020	LE1102431	Tony's Wrecker Service	LAT EXT	400	-870
	6/3/2020	LE1104592	EPOP II	LAT EXT	510	-1,109
Hite Creek Total						2,813,940



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J'Town	11/1/2008	235563	MAINTENANCE WORK FY06 AUG-FY09 NOV - JEFFERSONTOWN	SCAPCREDIT		6,203
	12/31/2008	359323	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
	8/10/2010	254871	LAKESIDE BAPT CHURCH PRIV PS	LAT EXT	2,500	-5,438
	8/11/2011	340213	JEFFERSONTOWN ENG REHAB	SCAPCREDIT		997,448
	12/31/2011	359324	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		4,000
	12/31/2012	14SC1002	MAINTENANCE WORK FY13A - JEFFERSONTOWN	SCAPCREDIT		3,490
	5/28/2013	337261	SINGLE FAMILY 2909 PELHAM CT	LAT EXT	400	-870
	6/28/2013	13LE1010	SWOPE HR & TRAINING BLDG	LAT EXT	400	-870
	10/25/2013	13LE1092	BALE EQUIPMENT	LAT EXT	450	-979
	2/27/2014	13LE1098	UNIPAK	LAT EXT	720	-1,566
	12/31/2014	13LE1067	PARK COMMUNITY	LAT EXT	2,220	-4,829
	2/1/2016	14LE1149	Grand Lakes Section 3	LAT EXT	5,600	-12,180
	3/10/2016	LE924049	Blankenbaker Road S/S	LAT EXT	9,010	-19,597
	5/4/2016	326360	WATTERSON TRAIL CENTER	LAT EXT	2,745	-5,970
	6/21/2016	LE930127	Vantage Point Sec 3B	LAT EXT	7,200	-15,660
	7/28/2016	13LE1158	GOODWILL INDUSTRIES OF KENTUCKY	LAT EXT	400	-870
	11/8/2016	14LE1148	Grand Lakes Section 2	LAT EXT	4,400	-9,570
	3/23/2017	LE926081	Monticello Manors Sec 2	LAT EXT	7,600	-16,530
	3/31/2017	LE967619	Louis F. Zoeller, Jr Minor Plat	LAT EXT	400	-870
J'Town Total						919,342
Mill Creek	12/31/2005	359380	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
	12/31/2007	359381	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		24,000
	11/1/2008	235568	MAINTENANCE WORK FY06 AUG-FY09 NOV - MILL CREEK	SCAPCREDIT		51,530
	12/31/2008	359382	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		362642	MAINTENANCE WORK FY09A - MILL CREEK	SCAPCREDIT		93
	6/30/2009	362649	MAINTENANCE WORK FY09B - MILL CREEK	SCAPCREDIT		1,507
	9/9/2009	236614	DEVEROES	LAT EXT	960	-2,088
	12/31/2009	359383	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		32,000
		362653	MAINTENANCE WORK FY10A - MILL CREEK	SCAPCREDIT		25,272
	1/6/2010	253586	KINGSFORD RETAIL CENTER	LAT EXT	480	-1,044
	4/28/2010	238421	6840 DIXIE HWY OUTLOT	LAT EXT	2,100	-4,568
	6/30/2010	362658	MAINTENANCE WORK FY10B - MILL CREEK	SCAPCREDIT		6,216
	7/2/2010	259408	FAMILY DOLLAR 5105 DIXIE	LAT EXT	1,200	-2,610
	7/23/2010	264294	SAINT PETER THE APOSTLE CATHOL	LAT EXT	2,000	-4,350
	10/12/2010	276215	FAMILY DOLLAR - KRISTIN WAY	LAT EXT	400	-870
	12/31/2010	359325	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		359384	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		362664	MAINTENANCE WORK FY11A - MILL CREEK	SCAPCREDIT		22,745
	6/30/2011	320916	SONNE AVE PS REHABILITATION -	SCAPCREDIT		120,800
		362671	MAINTENANCE WORK FY11B - MILL CREEK	SCAPCREDIT		11,745
	10/4/2011	299399	FAMILY DOLLAR - GREENWOOD RD	LAT EXT	800	-1,740
	11/9/2011	309018	PRP PERFORMING ARTS ADDITION	LAT EXT	1,134	-2,466
	12/31/2011	359326	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359385	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		362676	MAINTENANCE WORK FY12A - MILL CREEK	SCAPCREDIT		4,800
	1/19/2012	318096	CRACKER BARREL OLD COUNTRY	LAT EXT	6,000	-13,050
	3/16/2012	SC1005678	CONTRACTED WORK FY12 - MILL CREEK	SCAPCREDIT		22

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	5/21/2012	262545	DIXIE MANOR SHOPPING CENTER	LAT EXT	965	-2,099
	6/26/2012	300374	FORT KNOX FEDERAL CREDIT UNION	LAT EXT	400	-870
	6/30/2012	361693	FY12 MILL CREEK REHAB	SCAPCREDIT		81,675
		362680	MAINTENANCE WORK FY12B - MILL CREEK	SCAPCREDIT		4,133
	7/24/2012	231800	PIONEER MOBILE HOME PARK	LAT EXT	11,200	-24,360
	9/18/2012	237457	WAVERLY HILLS	LAT EXT	400	-870
	10/19/2012	341883	NHK SPRING PRECISION	LAT EXT	17,800	-38,715
	12/5/2012	334997	BEECHLAND BAPTIST CHURCH	LAT EXT	2,715	-5,905
	12/31/2012	359327	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		148,000
		359386	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		362685	MAINTENANCE WORK FY13A - MILL CREEK	SCAPCREDIT		22,996
	1/18/2013	343763	SOUTHEAST CHRISTIAN CHURCH SW	LAT EXT	6,000	-13,050
	3/20/2013	224875	ASHBY GREEN APARTMENT HOMES	LAT EXT	36,400	-79,170
	6/6/2013	265944	RIVERPORT PHASE 4A - MICHELIN	LAT EXT	400	-870
	6/30/2013	SC1082559	MAINTENANCE WORK FY13 JAN-JUN-MILL CREEK	SCAPCREDIT		32,425
	9/10/2013	314887	DAYTON FREIGHT	LAT EXT	1,200	-2,610
	9/26/2013	13LE1014	LOUISVILLE FREE PUBLIC LIBRARY SOUTHWEST	LAT EXT	8,200	-17,835
	10/3/2013	357140	FAMILY DOLLAR CANE RUN ROAD	LAT EXT	832	-1,810
	12/30/2013	SC1082560	MAINTENANCE WORK FY14 JUL-DEC-MILL CREEK	SCAPCREDIT		11,451
	1/29/2014	13LE1171	SINGLE FAMILY HOME 3700 ROMANIA DR	LAT EXT	400	-870
	6/30/2014	SC1082562	MAINTENANCE WORK FY14 JAN-JUN-MILL CREEK	SCAPCREDIT		7,753
	12/30/2014	SC1082563	MAINTENANCE WORK FY15 JUL-DEC-MILL CREEK	SCAPCREDIT		4,491
	3/10/2015	SC1005536	ROSA TERRACE I/I REHABILITATION FY13	SCAPCREDIT		156,635
	6/30/2015	SC1082564	MAINTENANCE WORK FY15 JAN-JUN-MILL CREEK	SCAPCREDIT		4,861
	7/31/2015	SC1003690	CONTRACTED WORK FY15 - MILL CREEK	SCAPCREDIT		58
	12/30/2015	SC1082565	MAINTENANCE WORK FY16 JUL-DEC-MILL CREEK	SCAPCREDIT		6,692
	6/30/2016	SC1082566	MAINTENANCE WORK FY16 JAN-JUN-MILL CREEK	SCAPCREDIT		3,523
	7/28/2016	LE944727	Britz Deer Hollow Lane	LAT EXT	800	-1,740
	12/30/2016	SC1082567	MAINTENANCE WORK FY17 JUL-DEC-MILL CREEK	SCAPCREDIT		12,857
	6/30/2017	SC1082568	MAINTENANCE WORK FY17 JAN-JUN-MILL CREEK	SCAPCREDIT		5,103
	12/30/2017	SC1082569	MAINTENANCE WORK FY18 JUL-DEC-MILL CREEK	SCAPCREDIT		27,293
	4/10/2019	LE995375	1105 Dorsey lane	LAT EXT	10,300	-22,403
	10/31/2019	LE1039415	Delcour Multi-Family Apartments	LAT EXT	60,400	-131,370
Mill Creek Total						521,343
Middle Fork	12/31/2007	359328	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		20,000
		359400	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		84,000
	11/1/2008	235566	MAINTENANCE WORK FY06 AUG-FY09 NOV - MOIDDLE FORK	SCAPCREDIT		43,779
	12/31/2008	359329	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		SC1011287	MAINTENANCE WORK FY09A - MIDDLE FORK	SCAPCREDIT		13
	1/16/2009	236517	ANCHOR ESTATES MH REHAB	SCAPCREDIT		15,552
	3/30/2009	217235	SINKING FORK ICA PHASE I REHAB	SCAPCREDIT		437,967
	5/15/2009	235376	MIDDLE FORK INT REHAB PH1	SCAPCREDIT		487,744
	5/26/2009	179246	SHADY GLEN OF LYNDON PERSONAL	LAT EXT	(500)	1,088
	6/30/2009	SC1011288	MAINTENANCE WORK FY09B - MIDDLE FORK	SCAPCREDIT		4,208
	11/4/2009	250572	1316 WITAWANGA AVE	LAT EXT	400	-870
	12/31/2009	359331	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		359401	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		4,000



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		SC1011290	MAINTENANCE WORK FY10A - MIDDLE FORK	SCAPCREDIT		50
	3/16/2010	197432	ALMOST HOME KENNELS - ALL PET	LAT EXT	3,700	-8,048
	4/15/2010	260064	OXMOOR GOLF FRONT 9	LAT EXT	400	-870
		260065	OXMOOR GOLF BACK 9	LAT EXT	400	-870
	4/27/2010	229834	THE BROOK HOS- DUPONT ADDITION	LAT EXT	1,763	-3,835
	6/30/2010	SC1011292	MAINTENANCE WORK FY10B - MIDDLE FORK	SCAPCREDIT		1,113
	7/2/2010	265723	Z-XPRESS CAR WASH	LAT EXT	5,449	-11,852
	7/14/2010	255792	HERR LANE APARTMENTS - 8 PLEX	LAT EXT	2,400	-5,220
		255793	HERR LANE APARTMENTS - 4 PLEX	LAT EXT	1,200	-2,610
	9/9/2010	274303	FARM CREDIT SERVICES	LAT EXT	525	-1,142
	12/15/2010	278015	METROPOLITAN UROLOGY	LAT EXT	400	-870
	12/31/2010	359333	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359402	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011293	MAINTENANCE WORK FY11A - MIDDLE FORK	SCAPCREDIT		1,205
	1/20/2011	285637	SHELBYHURST OFFICE BUILDING 1	LAT EXT	6,600	-14,355
	1/27/2011	313465	DORSEY POINTE/CODOMINIUMS 8-13	LAT EXT	2,400	-5,220
	4/14/2011	291263	BROWNS LANE BUILDING	LAT EXT	400	-870
	6/14/2011	293400	FOUR PLEX APARTMENTS	LAT EXT	1,200	-2,610
	6/30/2011	SC1011294	MAINTENANCE WORK FY11B - MIDDLE FORK	SCAPCREDIT		7,183
	8/11/2011	330019	FY11 ANCHOR ESTATES REHAB	SCAPCREDIT		1,359
	10/31/2011	310046	EL NAPEL - MCMAHAN CENTER	LAT EXT	3,100	-6,743
	11/29/2011	314591	CHOCOLATE MARTINI BAR/REST	LAT EXT	3,275	-7,123
	12/27/2011	320983	HURSTBOURNE I/II INVESTIGATION	SCAPCREDIT		1,408,279
	12/31/2011	359335	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		16,000
		SC1011295	MAINTENANCE WORK FY12A - MIDDLE FORK	SCAPCREDIT		919
	2/15/2012	321228	SINGLE FAMILY UNIT	LAT EXT	400	-870
	3/16/2012	SC1005671	CONTRACTED WORK FY12 - MIDDLE FORK	SCAPCREDIT		7,305
	3/27/2012	321647	SINGLE FAMILY	LAT EXT	400	-870
	6/22/2012	328074	SINGLE FAMILY-703 FOUNTAIN AVE	LAT EXT	400	-870
	6/30/2012	SC1011297	MAINTENANCE WORK FY12B - MIDDLE FORK	SCAPCREDIT		949
	8/20/2012	193195	CEDAR LAKE LODGE WASHBURN	LAT EXT	1,900	-4,133
	8/23/2012	320923	ST MATTHEWS I/II REHABILITATION	SCAPCREDIT		20,841
	9/5/2012	337796	CHAMPPS	LAT EXT	635	-1,381
	12/28/2012	347126	ADVANCE PRODUCTION SYSTEMS	LAT EXT	400	-870
	12/31/2012	14SC1003	MAINTENANCE WORK FY13A - MIDDLE FORK	SCAPCREDIT		3,309
		359336	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		92,000
	1/4/2013	339367	BAPTIST RADIATION ONCOLOGY	LAT EXT	1,500	-3,263
	1/16/2013	340778	PANDA RESTAURANT	LAT EXT	1,725	-3,752
	2/4/2013	328659	SINGLE FAMILY HOME - 6911 AMBR	LAT EXT	400	-870
	2/20/2013	352805	POOL HOUSE 9213 REIGATE COURT	LAT EXT	200	-435
	3/19/2013	14LE1001	MIRANDA LAGRANGE RD	LAT EXT	400	-870
	3/20/2013	350246	SINGLE FAMILY - 218 BLISS AVE	LAT EXT	400	-870
	3/26/2013	349974	SINGLE FAMILY 205 N WATTERSON	LAT EXT	400	-870
	4/15/2013	342433	SHELBYHURST 700 OFFICE BLDG	LAT EXT	7,500	-16,313
	4/16/2013	350340	JARED THE GALLERY OF JEWELRY	LAT EXT	770	-1,675
	5/30/2013	SC1005532	CONTRACTED WORK FY13 - MIDDLE FORK	SCAPCREDIT		6,480
	6/7/2013	13LE1009	Single family 11716 Wetherby Ave	LAT EXT	400	-870

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	6/30/2013	SC1082545	MAINTENANCE WORK FY13 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6,989
	8/28/2013	13LE1001	Single Family 835 Fountain Ave	LAT EXT	400	-870
	9/10/2013	355162	PROPOSED RESTAURANT	LAT EXT	7,540	-16,400
	9/30/2013	13LE1045	SINGLE FAMILY 8325 WHIPPS MILL RD	LAT EXT	400	-870
	10/22/2013	319292	WATERMARK ON HURSTBOURNE	LAT EXT	71,600	-155,730
	10/28/2013	331542	DENTAL/MEDICAL OFFICE BLDG	LAT EXT	400	-870
	11/5/2013	13LE1128	SINGLE FAMILY HOME 1327 ETAWAH AVE	LAT EXT	400	-870
		13LE1144	SINGLE FAMILY 1329 ETAWAH AVE	LAT EXT	400	-870
	11/25/2013	13LE1165	SINGLE FAMILY 8504 LORE LANE	LAT EXT	400	-870
	11/26/2013	13LE1146	CITY OF ST MATTHEWS COMMUNITY CTR PARK RESTROOM	LAT EXT	1,500	-3,263
	12/11/2013	13LE1099	NICKLIES - ST MATTHEWS	LAT EXT	1,920	-4,176
	12/18/2013	353963	DORSEY COMMONS TRACTS 1,2,3	LAT EXT	4,335	-9,429
	12/30/2013	SC1082546	MAINTENANCE WORK FY14 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		91,183
	12/31/2013	352026	MCMAHAN PLAZA PHASE II BLDG B	LAT EXT	766	-1,666
	4/10/2014	13LE1117	THE VININGS	LAT EXT	850	-1,849
	6/30/2014	14LE1128	WALDORF SCHOOL OF LOUISVILLE	LAT EXT	400	-870
		SC1082547	MAINTENANCE WORK FY14 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		4,404
	12/30/2014	SC1082548	MAINTENANCE WORK FY15 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,664
	2/10/2015	SC1006201	GOOSE CREEK PLANTATION I/I REHABILITATION FY14	SCAPCREDIT		163,919
	2/11/2015	SC1006179	CONTRACTED WORK FY14 - MIDDLE FORK	SCAPCREDIT		15,043
	6/30/2015	SC1082549	MAINTENANCE WORK FY15 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		2,568
	12/30/2015	SC1082550	MAINTENANCE WORK FY16 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		15,216
	6/8/2016	LE939199	Westport Road Apartments	LAT EXT	62,800	-136,590
	6/30/2016	SC1082552	MAINTENANCE WORK FY16 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,573
	8/30/2016	LE971405	Lyndon Lane Office Condos	LAT EXT	2,652	-5,768
	10/18/2016	SC1003387	CONTRACTED WORK FY16 - MIDDLE FORK	SCAPCREDIT		91,264
	10/24/2016	SC1006194	CONTRACTED WORK FY15 - MIDDLE FORK	SCAPCREDIT		3
	12/20/2016	LE938563	The Paddock at Sawyer Park	LAT EXT	99,800	-217,065
	12/30/2016	SC1082554	MAINTENANCE WORK FY17 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		2,385
	5/9/2017	LE1005641	City of Anchorage Sewer Extension	LAT EXT	800	-1,740
	6/30/2017	SC1082555	MAINTENANCE WORK FY17 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,799
	12/30/2017	SC1082557	MAINTENANCE WORK FY18 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		5,851
	2/19/2018	LE1017531	526 & 528 Fountain Ave	LAT EXT	800	-1,740
	9/7/2018	166053	616 & 618 FOUNTAIN AVE S/S	LAT EXT	1,600	-3,480
	7/26/2019	LE1020250	LFPL - Northeast Regional Library	LAT EXT	800	-1,740
		LE1024084	Morat Avenue Apartments	LAT EXT	63,200	-137,460
	11/4/2019	LE1083952	1700 Cold Spring Rd & 12004 Osage Rd	LAT EXT	800	-1,740
	4/24/2020	LE1059259	904 Browns Lane	LAT EXT	1600	-3,480
	6/5/2020	LE1082329	St. Luke's Episcopal Church	LAT EXT	920	-2,001



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	5/5/2020	LE1102767	Parks - Herr Lane Office Building	LAT EXT	560	-1,218
	5/14/2020	LE1104478	Breckenridge Center	LAT EXT	4000	-8,700
Middle Fork Total						2,293,989
Northern Ditch	12/31/2007	359404	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		28,000
	11/1/2008	235569	MAINTENANCE WORK FY06 AUG-FY09 NOV - NORTHERN DIT	SCAPCREDIT		11,147
	11/25/2008	236363	NORTHERN DITCH INT REHAB PH1	SCAPCREDIT		108,760
	12/31/2008	SC1011338	MAINTENANCE WORK FY09A - NORTHERN DITCH	SCAPCREDIT		11
	6/30/2009	SC1011339	MAINTENANCE WORK FY09B - NORTHERN DITCH	SCAPCREDIT		1,884
	12/31/2009	359339	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		SC1011340	MAINTENANCE WORK FY10A - NORTHERN DITCH	SCAPCREDIT		1,177
	3/5/2010	234678	THE LIGHTHOUSE PROMISE COMPLEX	LAT EXT	2,825	-6,144
	6/30/2010	SC1011343	MAINTENANCE WORK FY10B - NORTHERN DITCH	SCAPCREDIT		2,532
	12/21/2010	284728	SUBWAY - NEW CUT RD	LAT EXT	1,314	-2,858
	12/31/2010	359340	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		SC1011344	MAINTENANCE WORK FY11A - NORTHERN DITCH	SCAPCREDIT		2,456
	6/28/2011	320908	PARKVIEW ESTATES REHABILITATIO	SCAPCREDIT		36
	6/30/2011	SC1011345	MAINTENANCE WORK FY11B - NORTHERN DITCH	SCAPCREDIT		1,989
	11/11/2011	312810	WILLOW PLACE APT COMMUNITY CEN	LAT EXT	400	-870
	12/31/2011	359341	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		359405	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		SC1011346	MAINTENANCE WORK FY12A - NORTHERN DITCH	SCAPCREDIT		911
	1/26/2012	315723	JCPS EARLY CHILDHOOD DEVELOP	LAT EXT	6,000	-13,050
	3/21/2012	312057	DOLLAR GENERAL - MEDALLION CT	LAT EXT	400	-870
	6/30/2012	SC1011336	MAINTENANCE WORK FY12B - NORTHERN DITCH	SCAPCREDIT		7,893
	8/20/2012	312659	KROGER L-350 FUEL STATION	LAT EXT	400	-870
	12/31/2012	14SC1004	MAINTENANCE WORK FY13A - NORTHERN DITCH	SCAPCREDIT		4,239
		359343	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		24,000
	6/30/2013	SC1082570	MAINTENANCE WORK FY13 JAN-JUN-NORTH DITCH	SCAPCREDIT		6,459
	12/5/2013	13LE1147	CARLON ROOFING	LAT EXT	992	-2,158
	12/12/2013	13LE1126	JENNINGS CROSSING TRACT 3	LAT EXT	2,100	-4,568
	12/30/2013	SC1082571	MAINTENANCE WORK FY14 JUL-DEC-NORTH DITCH	SCAPCREDIT		2,707
	6/30/2014	SC1082572	MAINTENANCE WORK FY14 JAN-JUN-NORTH DITCH	SCAPCREDIT		9,044
	10/21/2014	SC1006180	CONTRACTED WORK FY14 - NORTHERN DITCH	SCAPCREDIT		5
	12/30/2014	SC1082573	MAINTENANCE WORK FY15 JUL-DEC-NORTH DITCH	SCAPCREDIT		8,330
	6/30/2015	SC1082575	MAINTENANCE WORK FY15 JAN-JUN-NORTH DITCH	SCAPCREDIT		5,564
	12/30/2015	SC1082576	MAINTENANCE WORK FY16 JUL-DEC-NORTH DITCH	SCAPCREDIT		6,074
	6/30/2016	SC1082577	MAINTENANCE WORK FY16 JAN-JUN-NORTH DITCH	SCAPCREDIT		5,519
	12/30/2016	SC1082578	MAINTENANCE WORK FY17 JUL-DEC-NORTH DITCH	SCAPCREDIT		9,266
	6/30/2017	SC1082579	MAINTENANCE WORK FY17 JAN-JUN-NORTH DITCH	SCAPCREDIT		6,441

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	12/30/2017	SC1082580	MAINTENANCE WORK FY18 JUL-DEC-NORTH DITCH	SCAPCREDIT		7,810
Northern Ditch Total						274,866
ORFM	12/31/2007	359344	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359433	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		56,000
	11/1/2008	235572	MAINTENANCE WORK FY06 AUG-FY09 NOV - ORFM	SCAPCREDIT		19,826
	12/31/2008	362643	MAINTENANCE WORK FY09A - ORFM	SCAPCREDIT		2
	6/30/2009	362650	MAINTENANCE WORK FY09B - ORFM	SCAPCREDIT		3,835
	12/31/2009	362654	MAINTENANCE WORK FY10A - ORFM	SCAPCREDIT		7,330
	5/18/2010	263548	SINGLE FAMILY CONNECTION	LAT EXT	400	-870
	6/28/2010	213488	NORTHEAST CHRISTIAN CHURCH	LAT EXT	10,000	-21,750
	6/30/2010	362660	MAINTENANCE WORK FY10B - ORFM	SCAPCREDIT		6,773
	8/30/2010	254919	TRILOGY HEALTH SERVICES, LLC	LAT EXT	8,200	-17,835
	12/31/2010	362665	MAINTENANCE WORK FY11A - ORFM	SCAPCREDIT		181
	6/30/2011	362672	MAINTENANCE WORK FY11B - ORFM	SCAPCREDIT		4,139
	9/20/2011	280837	SPRINGHURST TOWNE CTR LOT C	LAT EXT	400	-870
	9/30/2011	320920	SHADOW WOOD I/I REHABILITATION	SCAPCREDIT		14,279
	10/14/2011	311412	SPRINGHURST CHEVROLET	LAT EXT	855	-1,860
	12/31/2011	359345	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		16,000
		359434	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		362677	MAINTENANCE WORK FY12A - ORFM	SCAPCREDIT		7,268
	3/1/2012	320921	DERINGTON COURT I/I REHABILITA	SCAPCREDIT		56,208
	3/5/2012	187028	GLENVIEW PARK SUBD SECTION 1	LAT EXT	4,400	-9,570
		213450	GLENVIEW PARK SUB, SEC 2	LAT EXT	5,600	-12,180
	3/12/2012	322455	FIRST LADY NAILS	LAT EXT	400	-870
	6/30/2012	362681	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		19,941
		SC1011315	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		19,941
	7/5/2012	292239	SPRINGHURST RESTAURANT/ RETAIL	LAT EXT	3,440	-7,482
	12/11/2012	323821	TIRE DISCOUNTERS WESTPORT RD	LAT EXT	400	-870
	12/18/2012	341319	RAISING CANES RETAIL CENTER	LAT EXT	1,225	-2,664
		363238	FY13 PROSPECT MANHOLE REHAB	SCAPCREDIT		72,703
	12/31/2012	359346	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		362686	MAINTENANCE WORK FY13A - ORFM	SCAPCREDIT		1,161
		363235	FY13 MUDDY FORK MH REHAB	SCAPCREDIT		41,653
	3/12/2013	322458	KROGER L-707 STORE EXPANSION	LAT EXT	400	-870
	5/13/2013	360262	SINGLE FAMILY 3419 HILLVALE RD	LAT EXT	400	-870
	6/21/2013	343729	RETAIL & RESTAURANT	LAT EXT	3,500	-7,613
	6/30/2013	SC1082581	MAINTENANCE WORK FY13 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		279
	11/7/2013	334154	GLENVIEW PARK SUBD SEC 4	LAT EXT	3,600	-7,830
	12/30/2013	SC1082582	MAINTENANCE WORK FY14 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		1,302
	12/31/2013	13LE1024	Overlook at Beech Spring Farm Sec 4	LAT EXT	5,600	-12,180
	3/11/2014	199896	SPRINGDALE OFFICE BUILDING	LAT EXT	4,210	-9,157
	5/16/2014	225863	SPRING FARM LAKES SEC 1	LAT EXT	4,800	-10,440
	6/30/2014	SC1082583	MAINTENANCE WORK FY14 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		1,293
	9/22/2014	177756	SUMMIT GARDENS PHASE 1	LAT EXT	32,000	-69,600





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	11/10/2014	14LE1121	Riverside Sewer Extension	LAT EXT	1,200	-2,610
	12/30/2014	SC1082584	MAINTENANCE WORK FY15 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		4,394
	12/31/2014	SC1006181	CONTRACTED WORK FY14 - ORFM	SCAPCREDIT		1,654
	1/16/2015	13LE1071	SPRING FARM LAKE SEC 2	LAT EXT	6,000	-13,050
	2/12/2015	352634	BAUER PROPERTY	LAT EXT	2,920	-6,351
	6/30/2015	SC1082585	MAINTENANCE WORK FY15 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		2,547
	7/12/2015	SC983704	PROSPECT I&I REHABILITATION - FY13 PHASE IA	SCAPCREDIT		1,034,758
	8/5/2015	SC1003730	RIVER ROAD I/I REMEDIATION	SCAPCREDIT		120,418
	10/21/2015	LE929244	Summit Gardens Phase 2	LAT EXT	18,000	-39,150
	11/19/2015	SC1006195	CONTRACTED WORK FY15 - ORFM	SCAPCREDIT		1
	12/14/2015	LE938166	Spring Farm Lake Section 3	LAT EXT	3,200	-6,960
	12/30/2015	SC1082586	MAINTENANCE WORK FY16 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		1,478
	6/30/2016	SC1082587	MAINTENANCE WORK FY16 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		460
		SC1082589	MAINTENANCE WORK FY17 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		3,171
	8/10/2016	SC1003696	CONTRACTED WORK FY16 - ORFM	SCAPCREDIT		17,566
	10/6/2016	SC1003728	PROSPECT I&I REHABILITATION - FY16 PHASE IB	SCAPCREDIT		199,036
	11/16/2016	LE923204	Indian Springs Hotel	LAT EXT	13,000	-28,275
	6/30/2017	SC1082590	MAINTENANCE WORK FY17 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		1,630
	12/30/2017	SC1082592	MAINTENANCE WORK FY18 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		3,330
	12/6/2019	LE971285	Cityscape - Simcoe Lane	LAT EXT	66,700	-145,073
	6/16/2020	LE937450	Poplar Hill Place	LAT EXT	4000	-8,700
ORFM Total						1,339,007
Pond Creek	11/1/2008	235574	MAINTENANCE WORK FY06 AUG-FY09 NOV - POND CREEK	SCAPCREDIT		71,782
	12/31/2008	359347	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359438	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		SC1011298	MAINTENANCE WORK FY09A - POND CREEK	SCAPCREDIT		1,913
	6/30/2009	SC1011299	MAINTENANCE WORK FY09B - POND CREEK	SCAPCREDIT		6,403
	12/31/2009	359348	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359439	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		SC1011305	MAINTENANCE WORK FY10A - POND CREEK	SCAPCREDIT		22,337
	2/17/2010	192513	BANNON CROSSINGS SECTION 3A-1	LAT EXT	800	-1,740
	3/26/2010	219734	DSL LIFE LONG LEARNING CENTER	LAT EXT	900	-1,958
	4/27/2010	261115	EMERGENCY RESTORATION	LAT EXT	400	-870
	6/30/2010	SC1011307	MAINTENANCE WORK FY10B - POND CREEK	SCAPCREDIT		11,060
	10/13/2010	276977	DADISMAN BUILDERS-POPLAR TREE	LAT EXT	400	-870
	12/1/2010	266833	THORNTONS @ PRESTON HWY	LAT EXT	400	-870
	12/29/2010	280751	NOTTINGTON HILLS SEC 1	LAT EXT	4,400	-9,570
	12/31/2010	359350	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		SC1011308	MAINTENANCE WORK FY11A - POND CREEK	SCAPCREDIT		19,773
	1/13/2011	187739	GLENGARRY INDUSTRIAL PARK	LAT EXT	4,300	-9,353
	3/21/2011	277777	TIRE DISCOUNTERS - BOERSTE WAY	LAT EXT	2,960	-6,438
	6/30/2011	SC1011309	MAINTENANCE WORK FY11B - POND CREEK	SCAPCREDIT		10,562

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	9/14/2011	304408	UPS SUPPLY CHAIN SOLUTIONS #7	LAT EXT	2,250	-4,894
	9/27/2011	320918	EDSEL I/I REHABILITATION - FY1	SCAPCREDIT		106,700
	11/4/2011	313444	PLANET FITNESS - JEFF BLVD	LAT EXT	1,600	-3,480
	11/29/2011	312391	LONGHORN STEAKHOUSE RESTAURANT	LAT EXT	4,840	-10,527
	12/29/2011	320919	LANTANA I/I REHABILITATION - F	SCAPCREDIT		5,000
	12/31/2011	359351	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		20,000
		SC1011310	MAINTENANCE WORK FY12A - POND CREEK	SCAPCREDIT		5,380
	2/28/2012	310845	ZAXBY'S RESTAURANT	LAT EXT	3,750	-8,156
	3/13/2012	255044	ISA-RECYCLING CENTER	LAT EXT	400	-870
	3/19/2012	312814	MILLER TRANSPORTATION	LAT EXT	1,800	-3,915
	4/16/2012	324554	NORTONS TEMPORARY OFFICE	LAT EXT	900	-1,958
	6/19/2012	234102	ETHOS AT VALLEY FARM SR LIVING	LAT EXT	7,050	-15,334
	6/21/2012	322367	SHEPHERDS CARE MEMORY HOME	LAT EXT	2,000	-4,350
	6/30/2012	SC1011313	MAINTENANCE WORK FY12B - POND CREEK	SCAPCREDIT		3,877
	8/6/2012	307332	LOUISVILLE INDUSTRIAL BLDG B	LAT EXT	2,520	-5,481
	8/10/2012	279860	BANNON CROSSINGS SEC 3B-2	LAT EXT	9,600	-20,880
		SC1005684	CONTRACTED WORK FY12 - POND CREEK	SCAPCREDIT		3,812
	8/13/2012	312053	DOLLAR GENERAL - CLEARWATER FA	LAT EXT	400	-870
	10/12/2012	343455	SINGLE FAMILY 1812 GREYLING DR	LAT EXT	400	-870
	11/9/2012	243109	OVERBROOK APARTMENTS	LAT EXT	41,200	-89,610
	12/31/2012	14SC1005	MAINTENANCE WORK FY13A - POND CREEK	SCAPCREDIT		25,984
		359354	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		56,000
	2/20/2013	329624	COPART	LAT EXT	400	-870
	5/2/2013	346082	ZAXBYS	LAT EXT	2,065	-4,491
	6/30/2013	320924	LEA ANN WAY INTERCEPTOR I&I RE	SCAPCREDIT		1,017,423
		SC1082593	MAINTENANCE WORK FY13 JAN-JUN-POND CREEK	SCAPCREDIT		41,995
	7/2/2013	335385	HARRISON LOW PRESSURE S/S	LAT EXT	1,600	-3,480
	7/12/2013	SC1005534	PICADILLY I/I REHABILITATION FY13	SCAPCREDIT		187,564
	8/16/2013	320940	4 RESIDENCE SFU 7821 MANSCLICK	LAT EXT	400	-870
	8/27/2013	SC1005538	CONTRACTED WORK FY13 - POND CREEK	SCAPCREDIT		18,958
	9/6/2013	324886	PNC BANK	LAT EXT	400	-870
		361336	RENAISSANCE SOUTH BUSINESS	LAT EXT	540	-1,175
	9/26/2013	13LE1083	SINGLE FAMILY HOME 5402 (H) E MANSCLICK RD	LAT EXT	400	-870
	11/12/2013	SC1005319	FEGENBUSH I/I REHABILITATION FY13	SCAPCREDIT		226,201
	12/9/2013	353125	PEGASUS TRANSPORTATION	LAT EXT	250	-544
	12/10/2013	308206	APPLEGATE FARMS	LAT EXT	57,200	-124,410
		341439	PRESTON GARDENS APTS	LAT EXT	22,200	-48,285
	12/30/2013	SC1082594	MAINTENANCE WORK FY14 JUL-DEC-POND CREEK	SCAPCREDIT		19,491
	2/14/2014	13LE1179	TIMBERBEND SUBDIVISION SEC 5B	LAT EXT	6,400	-13,920
	4/10/2014	13LE1035	RENAISSANCE SOUTH BUSINESS PARK TRACT 4	LAT EXT	5,415	-11,778
	4/24/2014	348014	ASHTON PARK TOWN HOMES	LAT EXT	9,000	-19,575
	5/16/2014	280180	LOUISVILLE INDUSTRIAL CTR F	LAT EXT	2,480	-5,394
	5/28/2014	14LE1085	Williams Properties - Self Storage Facility	LAT EXT	400	-870
	6/9/2014	13LE1034	6300 GEIL LANE WAREHOUSE	LAT EXT	720	-1,566
	6/30/2014	SC1082595	MAINTENANCE WORK FY14 JAN-JUN-POND CREEK	SCAPCREDIT		14,457
	7/7/2014	284215	HURSTBOURNE POINTE APTS	LAT EXT	9,600	-20,880



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	8/25/2014	344230	AUSTIN PARK APARTMENTS PH6	LAT EXT	27,600	-60,030
	11/13/2014	13LE1105	JEFFERSON COMMONS	LAT EXT	17,075	-37,138
	11/18/2014	SC1005323	FERN CREEK I/I REHABILITATION FY13	SCAPCREDIT		551,108
	12/30/2014	SC1082596	MAINTENANCE WORK FY15 JUL-DEC-POND CREEK	SCAPCREDIT		26,095
	1/13/2015	13LE1017	APEX ON PRESTON APT HOMES(Formerly CITYSCAPE APTS	LAT EXT	84,400	-183,570
	3/10/2015	SC1005541	STONY BROOK I/I REHABILITATION FY13	SCAPCREDIT		345,397
	3/11/2015	SC995942	CAVEN AVE I/I REMEDIATION - FY13	SCAPCREDIT		225,645
	4/29/2015	354207	COOPER FARMS SEC 11B	LAT EXT	12,400	-26,970
		354209	COOPER FARMS SEC 11A	LAT EXT	13,200	-28,710
	6/30/2015	SC1082597	MAINTENANCE WORK FY15 JAN-JUN-POND CREEK	SCAPCREDIT		10,279
	8/25/2015	13LE1086	WOODS OF PENN RUN OFFSITE SS	LAT EXT	1,000	-2,175
	10/2/2015	13LE1140	JEFFERSON POST APARTMENTS	LAT EXT	28,800	-62,640
	12/30/2015	14LE1116	CATALPA SPRINGS	LAT EXT	2,800	-6,090
		SC1082598	MAINTENANCE WORK FY16 JUL-DEC-POND CREEK	SCAPCREDIT		13,994
	12/31/2015	SC939830	Lea Ann Way West Quad 1 & 2 Rehabilitation Project	SCAPCREDIT		445,911
	2/4/2016	13LE1056	MORNING POINTE AT HURSTBOURNE	LAT EXT	13,000	-28,275
	2/12/2016	358356	WOODS OF PENN RUN Section 1	LAT EXT	18,800	-40,890
	5/17/2016	SC1003699	CONTRACTED WORK FY16 - POND CREEK	SCAPCREDIT		36,063
	6/6/2016	LE936598	Jefferson Commerce Center Tract 1A	LAT EXT	5,250	-11,419
	6/21/2016	14LE1170	Austin Park Phase 7 & 8	LAT EXT	26,400	-57,420
		LE918484	AUSTIN PARK SS PHASE 8	LAT EXT	16,800	-36,540
	6/30/2016	SC1082599	MAINTENANCE WORK FY16 JAN-JUN-POND CREEK	SCAPCREDIT		12,650
	8/5/2016	SC1003087	HILLRIDGE I/I REMEDIATION	SCAPCREDIT		308,184
	8/31/2016	SC1003292	LEA ANN WAY WEST (LAWW) QUAD 3 I/I REMEDIATION	SCAPCREDIT		311,526
	10/24/2016	SC1006197	CONTRACTED WORK FY15 - POND CREEK	SCAPCREDIT		310
	10/26/2016	SC1006182	CONTRACTED WORK FY14 - POND CREEK	SCAPCREDIT		8,390
	10/31/2016	SC1005631	LEA ANN WAY WEST (LAWW) QUAD 4 I/I REHABILITATION	SCAPCREDIT		692,905
		SC1005639	SILVER HEIGHTS SEWER REHAB	SCAPCREDIT		284,936
	12/30/2016	SC1082601	MAINTENANCE WORK FY17 JUL-DEC-POND CREEK	SCAPCREDIT		14,699
	1/17/2017	LE942402	Preston Crossing Apartments	LAT EXT	46,400	-100,920
	2/2/2017	LE954229	Jefferson Commerce Center Bldg.2	LAT EXT	3,150	-6,851
	6/30/2017	SC1082602	MAINTENANCE WORK FY17 JAN-JUN-POND CREEK	SCAPCREDIT		14,076
	7/6/2017	LE967615	Cooper Farms Section 12	LAT EXT	21,200	-46,110
	12/30/2017	SC1082603	MAINTENANCE WORK FY18 JUL-DEC-POND CREEK	SCAPCREDIT		10,803
	6/30/2018	SC1096902	Admiral PS I/I Rehab FY17 FY18	SCAPCREDIT		977,768
	6/10/2019	LE1047077	Orell Station 1C	LAT EXT	10,400	-22,620
	7/10/2019	LE1053368	Ferndale Place Subdivision	LAT EXT	9,600	-20,880
	1/13/2020	LE1092680	Hidden Forest Section 2	LAT EXT	10000	-21,750
	5/12/2020	LE1047091	New Cut Road Retail Shop	LAT EXT	1381	-3,004
	6/10/2020	LE1078674	Frontgate Apartments	LAT EXT	67600	-147,030

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CREDIT BASIN	RELEASE DATE	APPLICATION	APPLICATION NAME	TYPE	FLOW	SUM OF APPROVED CREDIT REQUIRED / FLOW REDUCTION
Pond Creek Total						4,809,667
SE Diversion	12/31/2007	359355	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		359440	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		128,000
	11/1/2008	235575	MAINTENANCE WORK FY06 AUG-FY09 NOV - SE DIVERSION	SCAPCREDIT		71,472
	12/22/2008	236214	GOLDSMITH BUECHB ICA PHI REHAB	SCAPCREDIT		314,808
		236296	BEARGRASS INT REHAB PH1 SEDIV	SCAPCREDIT		122,688
	12/31/2008	359356	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359441	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		SC1011317	MAINTENANCE WORK FY09A - SE DIVERSION	SCAPCREDIT		1,555
	6/30/2009	SC1011318	MAINTENANCE WORK FY09B - SE DIVERSION	SCAPCREDIT		2,929
	10/20/2009	229854	TINY HANDS DAYCARE	LAT EXT	1,225	-2,664
	12/31/2009	359357	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359443	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011322	MAINTENANCE WORK FY10A - SE DIVERSION	SCAPCREDIT		16,974
	2/11/2010	235291	SULLIVAN COLLEGE OF TECHNOLOGY	LAT EXT	900	-1,958
	3/1/2010	238328	LOUISVILLE COLLEGIATE SPORTS	LAT EXT	400	-870
	3/5/2010	241759	FRISCHS BIG BOY RESTAURANT	LAT EXT	2,400	-5,220
	4/16/2010	257275	LOUISVILLE JUNIOR ACADEMY	LAT EXT	520	-1,131
	6/30/2010	SC1011326	MAINTENANCE WORK FY10B - SE DIVERSION	SCAPCREDIT		10,739
	12/14/2010	320993	BEARGRASS CREEK PHASE II - FY1	SCAPCREDIT		10,368
	12/31/2010	359358	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359444	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		24,000
		SC1011328	MAINTENANCE WORK FY11A - SE DIVERSION	SCAPCREDIT		11,090
	2/16/2011	286513	GARDINER POINT RESIDENCE HALL	LAT EXT	10,800	-23,490
	5/6/2011	276378	TIRE DISCOUNTERS - BARDSTOWN	LAT EXT	1,500	-3,263
	5/30/2011	287888	BEVERAGE WAREHOUSE	LAT EXT	1,180	-2,567
	6/30/2011	SC1011330	MAINTENANCE WORK FY11B - SE DIVERSION	SCAPCREDIT		3,661
	7/1/2011	296295	KEN TOWERY -3800 S HURSTBOURNE	LAT EXT	400	-870
	12/31/2011	359359	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		64,000
		359445	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011331	MAINTENANCE WORK FY12A - SE DIVERSION	SCAPCREDIT		5,071
	6/30/2012	SC1011316	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		24,202
		SC1011333	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		6,141
	8/10/2012	307018	HOOK PROPERTY FAMILY DOLLAR	LAT EXT	400	-870
	12/31/2012	14SC1006	MAINTENANCE WORK FY13A - SE DIVERSION	SCAPCREDIT		24,202
		359361	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		68,000
		359446	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
	3/11/2013	187741	BROOKSTONE SENIOR APARTMENTS	LAT EXT	16,800	-36,540
	6/14/2013	232601	RAINTREE/MARIAN CT P/S ELIM	LAT EXT	105,800	-230,115
	6/30/2013	SC1082605	MAINTENANCE WORK FY13 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		21,761
	9/18/2013	SC1005539	CONTRACTED WORK FY13 - SOUTHEAST DIVERSION	SCAPCREDIT		25,344
	11/26/2013	330437	COLLEGIATE ATHLETIC FIELD	LAT EXT	800	-1,740
	12/30/2013	SC1082606	MAINTENANCE WORK FY14 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		19,491
	6/30/2014	SC1082607	MAINTENANCE WORK FY14 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		9,087



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CREDIT BASIN	RELEASE DATE	APPLICATION	APPLICATION NAME	TYPE	FLOW	SUM OF APPROVED CREDIT REQUIRED / FLOW REDUCTION
	12/30/2014	SC1082608	MAINTENANCE WORK FY15 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		15,321
	2/11/2015	SC1006185	CONTRACTED WORK FY14 - SOUTHEAST DIVERSION	SCAPCREDIT		187,478
	6/30/2015	SC1082610	MAINTENANCE WORK FY15 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		10,273
	10/20/2015	SC1006199	CONTRACTED WORK FY15 - SOUTHEAST DIVERSION	SCAPCREDIT		1
	12/22/2015	LE919560	Todd's Place Express Car Wash	LAT EXT	4,830	-10,505
	12/30/2015	SC1082611	MAINTENANCE WORK FY16 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		7,052
	2/16/2016	SC1003718	SOUTHEAST DIVERSION AREA G (SEDG) I/I REMEDIATION	SCAPCREDIT		75,998
	5/24/2016	SC1003704	CONTRACTED WORK FY16 - SOUTHEAST DIVERSION	SCAPCREDIT		66
	6/30/2016	SC1082612	MAINTENANCE WORK FY16 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		19,904
	7/28/2016	LE943171	Costco Wholesale and Fuel Facility	LAT EXT	8,000	-17,400
	12/30/2016	SC1082613	MAINTENANCE WORK FY17 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		5,812
	6/30/2017	SC1082614	MAINTENANCE WORK FY17 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6,961
	12/30/2017	SC1082615	MAINTENANCE WORK FY18 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		14,909
SE Diversion Total						1,054,155
Grand Total						14,603,484



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**APPENDIX E**

**IOAP PROJECT CROSSWALK**



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





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

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DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28413	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28414	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28415	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28416	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28417	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28451	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28452	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28453	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28711	S_JT_JT_NB02_M_01_C
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22307	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22370	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22385	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	32682	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	32688	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	59169	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	MSD0277	DEREK R GUTHRIE WQTC UPGRADES
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	IOAP	20154-W	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	IOAP	20155	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	IOAP	MSD0095-PS	S_OR_MF_NB03_S_07_C
EAST ROCKFORD PS RELOCATION	IOAP	04699-W	S_MC_WC_NB02_S_03_C
EDEN CARE PS SSO INVESTIGATION	IOAP	MSD1105-PS	S_FF_FF_NB02_S_13_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	IOAP	92098	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	IOAP	92099	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	IOAP	94009	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	IOAP	MSD1048-PS	S_PO_WC_PC11_M_07_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	64096	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	86052	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	92061	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	MSD0196-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	MSD0263	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	MSD0263A-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	MSD1043-PS	S_JT_JT_NB01A_M_03_C
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	116106	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	81316	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	97362	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	97363	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	97365	S_FF_CC_81316_M_03_C_A
FAIRWAY VIEW PS IMPROVEMENTS	IOAP	MSD1065-PS	S_HC_HS_NB01_S_03_C_A
FLOYDSBURG RD I&I INVEST	IOAP	108953	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	108956	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	108957	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	108958	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	90776	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	MSD1086-PS	S_HC_HC_MSD1086_M_07_C_A



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FOX HARBOR IN-LINE STORAGE	IOAP	62769	S_HC_HN_NB03_S_09A_A_A
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	105936	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	117721	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	43472	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	46891	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	62418	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	62420	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	91629	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	91630	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	MSD0040-PS	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	MSD1024-PS	S_MI_MF_NB04_M_03_B-1
GOVERNMENT CENTER PS ELIMINATION	IOAP	94541	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	IOAP	94542	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	IOAP	MSD0180-PS	S_PO_WC_PC06_M_01_C
GUNPOWDER PS IN-LINE STORAGE	IOAP	MSD1055-LS	S_HC_HN_NB02_S_09A_C_B
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	IOAP	55665	S_MC_MF_55665_S_07_C
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	IOAP	55667	S_MC_MF_55665_S_07_C
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	17571	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18134	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18297	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18298	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18299	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18302	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18318-W	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18370	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18434	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18471	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18483	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18505	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18595	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	47960A	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	48885	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	48886	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	48888	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	49224	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	49236	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	49672	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	49673	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	73111	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	MSD0012-PS	HIKES LN INTER & HIGHGATE SPR
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	IOAP	01793	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	IOAP	47650	S_MI_MF_NB07_S_07_C

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HURSTBOURNE I/I INVESTIGATION & REHABILITATION	IOAP	47656	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	IOAP	67535	S_MI_MF_NB07_S_07_C
IDLEWOOD IN-LINE STORAGE	IOAP	28984	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	28985	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	28998	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	63094	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	63095	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	70158	S_CC_CC_70158_M_09A_C
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28173	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28390	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28391	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28392	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28395	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28551	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	31733	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	64505	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	IS028-SI	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	MSD0255	S_JT_JT_NB01_M_01_C_A
KAVANAUGH RD PS IMPROVEMENTS	IOAP	MSD1085-PS	S_HC_HC_MSD1085_S_03_A
KLONDIKE INTERCEPTOR	IOAP	20644	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	25676	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	26650	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	26651	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	49513	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	66232	S_SD_MF_NB04_S_01_B_A
LAKE FOREST PS SSO INVESTIGATION	IOAP	MSD1169-LS	S_FF_LF_NB01_S_13_C_A
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	IOAP	25484	S_PO_WC_PC05_M_07_C
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	IOAP	93719	S_PO_WC_PC05_M_07_C
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	IOAP	MSD0101-PS	S_PO_WC_PC05_M_07_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	19360	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	19369	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	29933	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	29943	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	29948	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	29949	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	31073	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	31074	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	31083	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	31084	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	57874	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	61266	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	79076	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	MSD1010-PS	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	MSD1200-PS	S_PO_WC_PC08_M_01_C
LELAND RD SSO INVESTIGATION	IOAP	96020	S_OR_MF_NB02_S_13_C
LEVEN PS ELIMINATION	IOAP	36419	S_PO_WC_PC10_M_01_C
LEVEN PS ELIMINATION	IOAP	MSD1019-PS	S_PO_WC_PC10_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	67997	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	67999	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	86423	S_CC_CC_67997_M_01_C



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LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	86424	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	89196	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	89197	S_CC_CC_67997_M_01_C
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO091	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO097	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO106	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO110	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO111	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO113	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO137	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO146	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO148	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO149	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO151	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO152	L_SO_MF_092_M_09B_B_D_8
LUCAS LN PS IN-LINE STORAGE	IOAP	MSD0199-LS	S_FF_BT_NB01_S_09A_C_A
MEADOW STREAM PS & FM UPGRADE	IOAP	91087	S_HC_HC_MSD1082_S_09A_C
MEADOW STREAM PS & FM UPGRADE	IOAP	MSD1082-PS	S_HC_HC_MSD1082_S_09A_C
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	24152-W	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	24472	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	26752	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	41374	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	41416	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0006-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0007-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0010-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0023-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0024-PS	S_OR_MF_NB01_M_01_B-1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	02932	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	02933	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	02935	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	08537	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	08935-SM	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	115183	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	115184	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	115185	S_MISF_MF_NB01_M_01_C_A1

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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	15194	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	15195	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	17618	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	23211	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	23212	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	24553	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	27005	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	27007	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	30376	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	40471	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	40559	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	43726	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	45796	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	45829	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	45835	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	45900	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47034	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47582	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47583	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47593	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47596	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47603	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47604	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	48864	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	51160	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	51161	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	51180	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	51221	S_MISF_MF_NB01_M_01_C_A1



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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	72288	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	72289	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	74513	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	84155	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	90700	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	96672	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	96673	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	IS021A-SI	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 2 - PS DIVERSION AND STORAGE	IOAP	27012	S_MISF_MF_NB01_M_01_C_A1-2
MONTICELLO PS ELIMINATION	IOAP	27969	S_JT_JT_NB04_M_01_A
MONTICELLO PS ELIMINATION	IOAP	MSD0151-PS	S_JT_JT_NB04_M_01_A
MORRIS FORMAN WQTC HEADWORKS (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	IOAP	CSO211	L_OR_MF_211_M_13_B_A_8
NIGHTINGALE PS REPLACEMENT & STORAGE	IOAP	CSO018	L_SO_MF_018_S_03_A_A
NORTHERN DITCH DIVERSION INTER	ISSDP	MSD0271	NORTHERN DITCH DIVERSION INTER
PARKVIEW ESTATES I&I INVESTIGATION	IOAP	47250	S_SD_MF_NB03_S_07_C
PORTLAND CSO STORAGE BASIN	IOAP	CSO019	L_OR_MF_019_S_13_B_A_8
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	16455	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	22436	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40870	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40871	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40872	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40879	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40880	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	42675	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	42680	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	46621	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	46623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	46627	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65606	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65610	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65633	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65635	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	89646	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	89791	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0123-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0183-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0186-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0192-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0193-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0291	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0292	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD1044-PS	S_OR_MF_NB04_M_03_B_B-1

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PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD1063-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	IOAP	89641	S_OR_MF_NB04_M_03_B_B-3
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	IOAP	89790	S_OR_MF_NB04_M_03_B_B-3
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	IOAP	28729-W	S_JT_JT_NB03_M_01_C-1
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	IOAP	MSD0149-PS	S_JT_JT_NB03_M_01_C-1
RIDING RIDGE PS IMPROVEMENTS	IOAP	MSD1060-LS	S_HC_HN_NB01_S_03_C_A
RUNNING FOX PS ELIMINATION	IOAP	MSD1080-LS	S_CC_CC_MSD1080_S_01_C
SHAWNEE FPS DWO ELIMINATION	IOAP	MSD0309-FP	L_OR_MF_189_M_03_A_A
SHIVELY INTERCEPTOR	IOAP	04498	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	04542	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	81814-W	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0016-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0043-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0044-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0047-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0049-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0050-PS	S_MC_WC_NB01_M_01_A
SINKING FORK INTERCEPTOR	IOAP	21103	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	IOAP	25012	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	IOAP	63319	SINKING FORK RELIEF SEWER
SONNE PS I&I INVESTIGATION & REHABILITATION	IOAP	MSD0042-PS	S_OR_MF_42007_S_07_C
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	08426	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	08427	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	08430	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	08431	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	18654	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30680	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30681	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30701	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30702	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30704	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	49647	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	63779	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	72571-X	SOUTHEASTERN DIVERSION STRUCT
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	IOAP	CSO016	L_OR_MF_211_M_13_B_A_8__
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	IOAP	CSO210	L_OR_MF_211_M_13_B_A_8__
SOUTHWESTERN PKWY CSO BASIN	IOAP	CSO104	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	IOAP	CSO105	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	IOAP	CSO189X	L_OR_MF_105_M_13_B_A_0
ST RENE RD PS IN-LINE STORAGE	IOAP	94187	S_FF_CH_NB01_S_09A_C_A
SUTHERLAND INTERCEPTOR	IOAP	16649	S_SD_MF_NB05_M_01_A
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO022	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO023	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO050	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO051	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO052	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO053	L_OR_MF_155_M_09B_B_B_4





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WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO054	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO055	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO056	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO150	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO155	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	IOAP	CSO125	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	IOAP	CSO126	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	IOAP	CSO127	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	IOAP	CSO166	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO082	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO084	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO118	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO119	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO120	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO121	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO141	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO153	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY STORY & MAIN ST STORAGE BASIN)	IOAP	CSO020	L_OR_MF_020_S_09B_B_A_8
WOODLAND HILLS PS DIVERSION	IOAP	33003	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	IOAP	65516	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	IOAP	65531	S_FF_FF_NB01_S_01_C_A

**APPENDIX F**

**CSO FLOW MONITORING QUALITY IMPROVEMENT**



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**Table F-1. Phase 1 CSOs**

<b>CSO</b>	<b>FINAL SOP COMPLETED</b>	<b>HISTORICAL VOLUME REVISED</b>	<b>PROGRAMMING CHANGES COMPLETED</b>	<b>EQUIPMENT CHANGES COMPLETED</b>	<b>TESTING / VERIFICATION COMPLETED</b>
015	6/30/2017	6/30/2017	6/30/2020	2/1/2020	6/30/2020
016	7/1/2019	6/30/2017	7/30/2018	N/A	9/10/2018
018	7/1/2019	6/30/2017	9/13/2017	N/A	3/11/2019
020	7/1/2019	6/30/2017	9/21/2017	N/A	10/10/2017
036	7/1/2019	6/30/2017	8/23/2017	N/A	9/14/2017
054	7/1/2019	6/30/2017	9/8/2017	N/A	9/12/2017
058	7/1/2019	6/30/2017	3/4/2019	N/A	2/16/2019
088	6/30/2017	6/30/2017	8/23/2017	6/20/2019	2/22/2019
093	7/1/2019	6/30/2017	11/19/2018	N/A	1/1/2018
104	7/1/2019	6/30/2017	N/A	N/A	N/A
105	7/1/2019	6/30/2017	3/6/2020	8/3/2019	6/30/2020
106	7/1/2019	6/30/2017	N/A	N/A	N/A
108	7/1/2019	6/30/2017	11/21/2017	10/17/2017	12/1/2018
109	7/1/2019	6/30/2017	11/21/2017	10/13/2017	10/8/2018
110	6/30/2017	6/30/2017	11/19/2018	4/6/2020	4/5/2019
118	7/1/2019	6/30/2017	N/A	9/1/2017	9/12/2017
121	7/1/2019	6/30/2017	9/12/2017	10/13/2017	12/21/2017
125	7/1/2019	6/30/2017	9/8/2017	8/7/2017	9/8/2017
126	7/1/2019	6/30/2017	9/14/2017	9/1/2017	12/21/2017
127	7/1/2019	6/30/2017	N/A	N/A	N/A
130	7/1/2019	6/30/2017	8/16/2017	N/A	3/11/2019
132	7/1/2019	6/30/2017	11/19/2019	2/6/2020	6/30/2020
140	7/1/2019	6/30/2017	11/21/2017	10/13/2017	3/16/2019
146	6/30/2017	6/30/2017	11/19/2018	5/14/2020	6/30/2020
149	6/30/2017	6/30/2017	11/19/2018	3/27/2019	3/12/2019
154	7/1/2019	6/30/2017	1/3/2019	1/3/2019	6/30/2020
160	7/1/2019	6/30/2017	8/23/2017	9/20/2017	12/22/2017
166	7/1/2019	6/30/2017	9/12/2017	10/9/2017	12/21/2017
167	7/1/2019	6/30/2017	11/19/2019	2/6/2020	6/30/2020
189	7/1/2019	6/30/2017	3/6/2020	8/3/2019	6/30/2020
190	7/1/2019	6/30/2017	1/26/2018	N/A	1/26/2018
191	6/30/2017	6/30/2017	6/30/2020	2/1/2020	6/30/2020
206	7/1/2019	6/30/2017	N/A	11/22/2017	12/6/2017
210	7/1/2019	6/30/2017	1/23/2019	N/A	1/23/2019
211	7/1/2019	6/30/2017	8/16/2017	N/A	3/1/2019

**Table F-2. Phase 2 CSOs**

<b>CSO</b>	<b>FINAL SOP COMPLETED</b>	<b>HISTORICAL VOLUME REVISED</b>	<b>PROGRAMMING CHANGES COMPLETED</b>	<b>EQUIPMENT CHANGES COMPLETED</b>	<b>TESTING / VERIFICATION COMPLETED</b>
019	6/28/2019	COMPLETED	11/1/2019	11/1/2019	COMPLETED
022	6/28/2019	COMPLETED	12/17/2018	N/A	COMPLETED
023	6/28/2019	COMPLETED	12/17/2018	N/A	COMPLETED
027	6/28/2019	COMPLETED	1/14/2019	6/6/2019	COMPLETED
028	6/28/2019	COMPLETED	5/3/2019	2/4/2019	COMPLETED
029	6/28/2019	COMPLETED	5/3/2019	3/22/2019	COMPLETED
031	6/28/2019	COMPLETED	3/11/2019	2/24/2019	COMPLETED
034	6/28/2019	COMPLETED	5/3/2019	2/5/2019	COMPLETED
035	6/28/2019	N/A	4/12/2019	4/12/2019	COMPLETED
038	6/28/2019	COMPLETED	4/22/2019	N/A	COMPLETED
050	6/28/2019	COMPLETED	6/12/2018	N/A	COMPLETED
051	6/28/2019	N/A	6/12/2018	N/A	COMPLETED
052	6/28/2019	COMPLETED	3/25/2019	3/22/2019	COMPLETED
053	6/28/2019	COMPLETED	6/20/2018	N/A	COMPLETED
055	6/28/2019	COMPLETED	6/18/2018	N/A	COMPLETED
056	6/28/2019	N/A	10/24/2017	10/24/2017	COMPLETED
057	6/28/2019	N/A	6/12/2018	N/A	COMPLETED
062	6/28/2019	N/A	4/17/2019	3/16/2019	COMPLETED
082	6/28/2019	COMPLETED	6/26/2018	N/A	COMPLETED
083	6/28/2019	COMPLETED	6/26/2018	N/A	COMPLETED
084	6/28/2019	COMPLETED	6/27/2018	4/9/2019	COMPLETED
091	6/30/2020	COMPLETED	12/21/2018	11/19/2018	COMPLETED
092	6/28/2019	COMPLETED	6/20/2018	N/A	COMPLETED
097	6/30/2020	COMPLETED	1/7/2019	1/1/2018	COMPLETED
111	6/30/2020	COMPLETED	3/12/2019	1/1/2018	COMPLETED
113	6/30/2020	COMPLETED	12/21/2018	11/19/2018	COMPLETED
117	6/30/2020	COMPLETED	12/21/2018	11/19/2018	COMPLETED
119	6/28/2019	COMPLETED	6/26/2018	N/A	COMPLETED
120	6/28/2019	COMPLETED	6/26/2018	N/A	COMPLETED
131	6/28/2019	N/A	10/2/2018	10/2/2018	COMPLETED
137	6/30/2020	COMPLETED	12/21/2018	N/A	N/A
141	6/28/2019	N/A	5/30/2018	5/30/2018	COMPLETED
144	6/28/2019	COMPLETED	6/26/2018	8/6/2018	COMPLETED
148	6/30/2020	COMPLETED	3/12/2019	1/1/2018	COMPLETED
150	6/28/2019	N/A	6/12/2018	N/A	COMPLETED
151	6/30/2020	COMPLETED	3/12/2019	1/1/2018	COMPLETED
152	6/30/2020	COMPLETED	3/12/2019	1/1/2018	COMPLETED
153	6/28/2019	COMPLETED	6/26/2018	N/A	COMPLETED
155	6/28/2019	COMPLETED	6/12/2018	N/A	COMPLETED
161	6/28/2019	N/A	6/12/2018	N/A	COMPLETED
172	6/28/2019	N/A	1/1/2018	1/1/2018	COMPLETED
178	6/28/2019	COMPLETED	4/17/2019	3/16/2019	COMPLETED
179	6/30/2020	COMPLETED	6/30/2020	1/1/2018	COMPLETED
181	6/28/2019	COMPLETED	4/17/2019	3/16/2019	COMPLETED
193	6/28/2019	COMPLETED	6/20/2018	N/A	COMPLETED
195	6/28/2019	COMPLETED	6/22/2018	N/A	COMPLETED
196	6/28/2019	COMPLETED	6/22/2018	N/A	COMPLETED

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**Table F-2. Phase 2 CSOs**

<b>CSO</b>	<b>FINAL SOP COMPLETED</b>	<b>HISTORICAL VOLUME REVISED</b>	<b>PROGRAMMING CHANGES COMPLETED</b>	<b>EQUIPMENT CHANGES COMPLETED</b>	<b>TESTING / VERIFICATION COMPLETED</b>
197	6/28/2019	COMPLETED	4/9/2019	8/14/2019	COMPLETED
198	6/28/2019	COMPLETED	6/26/2018	10/4/2018	COMPLETED
199	6/28/2019	COMPLETED	6/18/2018	N/A	COMPLETED
200	6/28/2019	COMPLETED	12/12/2018	12/12/2018	COMPLETED
201	6/28/2019	COMPLETED	6/22/2018	5/31/2019	COMPLETED
202	6/28/2019	COMPLETED	6/15/2018	N/A	COMPLETED
203	6/28/2019	COMPLETED	6/15/2018	N/A	COMPLETED
207	6/28/2019	COMPLETED	6/22/2018	N/A	COMPLETED
208	6/28/2019	COMPLETED	6/25/2018	5/22/2019	COMPLETED
SBR 142	6/28/2019	COMPLETED	6/8/2018	N/A	COMPLETED
SBR 174	6/28/2019	COMPLETED	6/8/2018	N/A	COMPLETED
SBR 180	6/28/2019	COMPLETED	6/8/2018	12/7/2018	COMPLETED
SBR 182	6/28/2019	COMPLETED	6/8/2018	N/A	COMPLETED
SBR 183	6/28/2019	COMPLETED	6/4/2018	N/A	COMPLETED
SBR 184	6/28/2019	COMPLETED	6/4/2018	N/A	COMPLETED
SBR 185	6/28/2019	COMPLETED	6/4/2018	N/A	COMPLETED
SBR 186	6/28/2019	COMPLETED	6/8/2018	N/A	COMPLETED
SBR 187	6/28/2019	COMPLETED	6/8/2018	N/A	COMPLETED
SBR 188	6/28/2019	COMPLETED	6/8/2018	12/7/2018	COMPLETED
SBR 205	6/28/2019	COMPLETED	6/8/2018	N/A	COMPLETED



**APPENDIX G**

**CSO108 SEMI-ANNUAL REPORT**







July 30, 2020

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 ##24

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 ##24. This report summarizes activities at the CSO108 CDS Site during the reporting period of January 1, 2020 to June 30, 2020ds.

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

Sincerely,



Heather Dodds, PE  
Regulatory Compliance & Asset Management Administrator





**MOU SEMI-ANNUAL REPORT #24**  
**JANUARY 1, 2020 - JUNE 30, 2020**



**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 24th Semi-Annual Report submitted in accordance with Paragraph 2 of the MOU. This report covers the time period of January 1, 2020 to June 30, 2020.

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 24th semi-annual report to the Commission since the completion of the Project. Appendix A shows photos of the area around the CDS unit and South Fork Beargrass Creek during the reporting period.

**2.1. CLEANING & INSPECTION ACTIVITIES**

The CSO108 CDS unit is inspected weekly and cleaned on an as-needed basis. During the reporting period, MSD cleaned the CDS Unit bar racks 2 times. The information, shown in Table 1, is generated from work orders initiated whenever the CDS Unit is inspected and needs to be cleaned. Cleaning consists of either washing debris off the bar racks or hauling the solids and floatables from the site. Both operations result in removing debris that would otherwise overflow into Beargrass Creek. When cleaning the bar racks, the debris is reintroduced into the sewer system, and as a result, is difficult to accurately estimate the amount removed during the maintenance process. The report often indicates the quantity removed as "unknown".

**Table 1. CSO108 CDS Unit Debris Removal**

ACTIVITY	QUANTITY	COMMENTS	COMPLETED DATE
DEBRIS	UNKNOWN	CLEANED MEDIUM DEBRIS OFF RACK BARS BUCKNER LAW	2/4/2020
DEBRIS	UNKNOWN	CLEANED MEDIUM DEBRIS OFF RACK BARS NORTHINGTON HOGUE	2/21/2020
DEBRIS	UNKNOWN	CLEANED RACK BARS MEDIUM DEBRIS NORTHINGTON CORLEY	2/25/2020
DEBRIS	UNKNOWN	CLEANED RACK BARS MEDIUM DEBRIS NORTHINGTON CORLEY	3/24/2020
DEBRIS	UNKNOWN	CLEANED MEDIUM DEBRIS OFF RACK BARS NORTHINGTON BRITTLE	4/14/2020
DEBRIS	UNKNOWN	CLEANED MEDIUM DEBRIS FROM RACK BARS NORTHINGTON KLEIN	6/16/2020

## **2.2. MAINTENANCE ACTIVITIES**

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

## **2.3. CAPTURED FLOW**

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

In an effort to estimate the volume of debris captured by the CDS unit and kept within the sewer system, a study of the efficiency of the unit was performed in the early 2002. The results of the study indicated that the concentration of solids kept within the sewer system was approximately 1 ml/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 45.9 tons of solids during the reporting period. Appendix B lists the pump run times and Appendix C shows the calculations MSD used to determine the amount of debris captured by the CDS Unit and sent to the Morris Forman WQTC for treatment.



**APPENDIX A**

**PHOTOS OF AREA ADJACENT TO CSO108 AND THE  
CDS UNIT (DATED JULY 18, 2020)**

Figure 1. Entrance to CDS Unit



Figure 2. Entrance to CDS Unit



Figure 3. Area Adjacent to CDS Unit



Figure 4. Area Adjacent to CDS Unit





Figure 5. Area Adjacent to Creek



Figure 6. Area Adjacent to Creek





**APPENDIX B**

**CDS UNIT PUMP RUN TIMES**

<b>DATE</b>	<b>PUMP 1 RUN HOURS</b>	<b>PUMP 2 RUN HOURS</b>	<b>PUMP 3 RUN HOURS</b>
January 1, 2020	0.00	0.00	0.35
January 2, 2020	0.00	0.00	0.17
January 3, 2020	0.00	0.00	0.17
January 4, 2020	0.00	0.00	0.13
January 5, 2020	0.00	0.00	0.27
January 6, 2020	0.00	0.00	0.25
January 7, 2020	0.00	0.00	0.18
January 8, 2020	0.00	0.00	0.12
January 9, 2020	0.00	0.00	0.13
January 10, 2020	0.00	0.00	0.08
January 11, 2020	0.00	0.00	0.05
January 12, 2020	0.00	0.00	0.08
January 13, 2020	0.00	0.00	0.35
January 14, 2020	0.00	0.00	0.27
January 15, 2020	0.00	0.00	0.12
January 16, 2020	0.00	0.00	0.18
January 17, 2020	0.00	0.00	0.08
January 18, 2020	0.00	0.00	0.13
January 19, 2020	0.00	0.00	0.03
January 20, 2020	0.00	0.00	0.08
January 21, 2020	0.00	0.00	0.10
January 22, 2020	0.00	0.00	0.08
January 23, 2020	0.00	0.00	0.00
January 24, 2020	0.00	0.00	0.03
January 25, 2020	0.00	0.00	0.05
January 26, 2020	0.00	0.00	0.13
January 27, 2020	0.00	0.00	0.08
January 28, 2020	0.00	0.00	0.08
January 29, 2020	(1.00)	(1.00)	(1.00)
January 30, 2020	0.00	0.00	0.05
January 31, 2020	0.00	0.00	0.03
February 1, 2020	0.00	0.00	0.05
February 2, 2020	0.00	0.00	0.08
February 3, 2020	0.00	0.00	0.05
February 4, 2020	0.00	0.00	0.00
February 5, 2020	0.00	0.00	0.03
February 6, 2020	0.00	0.00	0.08
February 7, 2020	0.00	0.00	0.10
February 8, 2020	0.00	0.00	0.07
February 9, 2020	0.00	0.00	0.07

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<b>DATE</b>	<b>PUMP 1 RUN HOURS</b>	<b>PUMP 2 RUN HOURS</b>	<b>PUMP 3 RUN HOURS</b>
February 10, 2020	0.00	0.00	0.10
February 11, 2020	0.00	0.00	0.03
February 12, 2020	0.00	0.00	0.08
February 13, 2020	0.00	0.00	0.13
February 14, 2020	0.02	0.13	0.70
February 15, 2020	0.00	0.00	0.27
February 16, 2020	0.00	0.00	0.17
February 17, 2020	0.00	0.00	0.13
February 18, 2020	0.00	0.00	0.08
February 19, 2020	0.00	0.00	0.08
February 20, 2020	0.00	0.00	0.08
February 21, 2020	0.00	0.00	0.08
February 22, 2020	0.00	0.00	0.05
February 23, 2020	0.00	0.00	0.03
February 24, 2020	0.00	0.00	0.00
February 25, 2020	0.00	0.00	0.05
February 26, 2020	0.00	0.00	0.05
February 27, 2020	0.00	0.00	0.25
February 28, 2020	0.00	0.00	0.05
February 29, 2020	0.00	0.00	0.08
March 1, 2020	0.00	0.00	0.22
March 2, 2020	0.00	0.00	0.00
March 3, 2020	0.00	0.00	0.00
March 4, 2020	0.00	0.00	0.13
March 5, 2020	0.00	0.00	0.17
March 6, 2020	0.00	0.00	0.08
March 7, 2020	0.00	0.00	0.13
March 8, 2020	0.00	0.00	0.05
March 9, 2020	0.00	0.00	0.08
March 10, 2020	0.00	0.00	0.00
March 11, 2020	0.00	0.00	0.03
March 12, 2020	0.00	0.00	0.08
March 13, 2020	0.00	0.00	0.10
March 14, 2020	0.00	0.00	0.13
March 15, 2020	0.00	0.00	0.22
March 16, 2020	0.00	0.00	0.17
March 17, 2020	0.00	0.00	0.17
March 18, 2020	0.00	0.00	0.18
March 19, 2020	0.00	0.00	0.13
March 20, 2020	0.00	0.00	0.17

DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
March 21, 2020	0.00	0.28	0.78
March 22, 2020	0.00	0.00	0.22
March 23, 2020	0.00	0.00	0.17
March 24, 2020	0.00	0.00	0.18
March 25, 2020	0.00	0.00	0.12
March 26, 2020	0.00	0.00	0.13
March 27, 2020	0.00	0.00	0.13
March 28, 2020	0.00	0.00	0.13
March 29, 2020	0.00	0.00	0.08
March 30, 2020	0.00	0.00	0.08
March 31, 2020	0.00	0.00	0.13
April 1, 2020	0.00	0.00	0.08
April 2, 2020	0.00	0.00	0.05
April 3, 2020	0.00	0.00	0.03
April 4, 2020	0.00	0.00	0.05
April 5, 2020	0.00	0.00	0.00
April 6, 2020	0.00	0.00	0.03
April 7, 2020	0.00	0.00	0.00
April 8, 2020	0.00	0.00	0.05
April 9, 2020	0.00	0.00	0.00
April 10, 2020	0.00	0.00	0.03
April 11, 2020	0.00	0.00	0.05
April 12, 2020	0.00	0.00	0.00
April 13, 2020	0.00	0.00	0.03
April 14, 2020	0.00	0.00	0.05
April 15, 2020	0.00	0.00	0.40
April 16, 2020	0.00	0.00	0.12
April 17, 2020	0.00	0.00	0.10
April 18, 2020	0.00	0.00	0.18
April 19, 2020	0.00	0.00	0.00
April 20, 2020	0.00	0.00	0.05
April 21, 2020	0.00	0.00	0.03
April 22, 2020	0.00	0.00	0.05
April 23, 2020	0.00	0.00	0.05
April 24, 2020	0.00	0.00	0.00
April 25, 2020	0.00	0.00	0.12
April 26, 2020	0.00	0.00	0.08
April 27, 2020	0.00	0.00	0.10
April 28, 2020	0.00	0.00	0.12
April 29, 2020	0.00	0.00	0.13

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<b>DATE</b>	<b>PUMP 1 RUN HOURS</b>	<b>PUMP 2 RUN HOURS</b>	<b>PUMP 3 RUN HOURS</b>
April 30, 2020	0.00	0.00	0.08
May 1, 2020	0.00	0.00	0.08
May 2, 2020	0.00	0.00	0.05
May 3, 2020	0.00	0.00	0.05
May 4, 2020	0.00	0.00	0.08
May 5, 2020	0.00	0.00	0.03
May 6, 2020	0.00	0.00	0.05
May 7, 2020	0.00	0.00	0.03
May 8, 2020	0.00	0.00	0.05
May 9, 2020	0.00	0.00	0.05
May 10, 2020	0.00	0.00	0.12
May 11, 2020	0.00	0.00	0.08
May 12, 2020	0.00	0.00	0.05
May 13, 2020	0.00	0.00	0.00
May 14, 2020	0.00	0.00	0.05
May 15, 2020	0.00	0.00	0.03
May 16, 2020	0.00	0.00	0.05
May 17, 2020	0.00	0.00	0.03
May 18, 2020	0.00	0.28	0.83
May 19, 2020	0.00	0.00	0.17
May 20, 2020	0.00	0.00	0.22
May 21, 2020	0.00	0.00	0.13
May 22, 2020	0.00	0.00	0.12
May 23, 2020	0.00	0.00	0.10
May 24, 2020	0.00	0.00	0.08
May 25, 2020	0.07	0.33	0.65
May 26, 2020	0.00	0.00	0.22
May 27, 2020	0.00	0.00	0.10
May 28, 2020	0.00	0.00	0.08
May 29, 2020	0.00	0.00	0.03
May 30, 2020	0.00	0.00	0.05
May 31, 2020	0.00	0.00	0.03
June 1, 2020	0.00	0.00	0.00
June 2, 2020	0.00	0.00	0.05
June 3, 2020	0.00	0.00	0.00
June 4, 2020	0.00	0.00	0.05
June 5, 2020	0.00	0.00	0.00
June 6, 2020	0.00	0.00	0.08
June 7, 2020	0.00	0.00	0.12
June 8, 2020	0.00	0.00	0.05

<b>DATE</b>	<b>PUMP 1 RUN HOURS</b>	<b>PUMP 2 RUN HOURS</b>	<b>PUMP 3 RUN HOURS</b>
June 9, 2020	0.00	0.00	0.00
June 10, 2020	0.00	0.00	0.05
June 11, 2020	0.00	0.00	0.00
June 12, 2020	0.00	0.00	0.03
June 13, 2020	0.00	0.00	0.05
June 14, 2020	0.00	0.00	0.00
June 15, 2020	0.00	0.00	0.03
June 16, 2020	0.00	0.00	0.00
June 17, 2020	0.00	0.00	0.05
June 18, 2020	0.00	0.00	0.00
June 19, 2020	0.00	0.00	0.03
June 20, 2020	0.00	0.00	0.00
June 21, 2020	0.00	0.00	0.05
June 22, 2020	0.00	0.00	0.03
June 23, 2020	0.00	0.20	0.40
June 24, 2020	0.63	0.20	0.67
June 25, 2020	0.00	0.00	0.17
June 26, 2020	0.00	0.00	0.00
June 27, 2020	0.00	0.00	0.00
June 28, 2020	0.00	0.00	0.03
June 29, 2020	0.00	0.00	0.05
June 30, 2020	0.00	0.00	0.05



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**APPENDIX C**

**CSO108 UNDERFLOW PUMP FLOW METER DATA**



DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
January 1, 2020	0.0709	9,481.69	70,927.95
January 2, 2020	0.0549	7,341.15	54,915.64
January 3, 2020	0.0538	7,191.31	53,794.75
January 4, 2020	0.0501	6,699.78	50,117.82
January 5, 2020	0.0623	8,322.08	62,253.49
January 6, 2020	0.0612	8,179.85	61,189.54
January 7, 2020	0.0532	7,115.55	53,227.98
January 8, 2020	0.0493	6,587.81	49,280.24
January 9, 2020	0.0507	6,776.26	50,689.92
January 10, 2020	0.0455	6,076.70	45,456.89
January 11, 2020	0.0417	5,580.70	41,746.56
January 12, 2020	0.0453	6,056.64	45,306.85
January 13, 2020	0.0714	9,543.39	71,389.53
January 14, 2020	0.0623	8,334.77	62,348.40
January 15, 2020	0.0494	6,609.13	49,439.74
January 16, 2020	0.0510	6,823.34	51,042.09
January 17, 2020	0.0444	5,934.36	44,392.13
January 18, 2020	0.0502	6,705.67	50,161.93
January 19, 2020	0.0417	5,576.44	41,714.65
January 20, 2020	0.0452	6,042.27	45,199.36
January 21, 2020	0.0464	6,199.82	46,377.91
January 22, 2020	0.0479	6,404.54	47,909.27
January 23, 2020	0.0387	5,178.46	38,737.56
January 24, 2020	0.0427	5,709.70	42,711.53
January 25, 2020	0.0421	5,624.84	42,076.71
January 26, 2020	0.0493	6,594.32	49,328.94
January 27, 2020	0.0461	6,159.43	46,075.72
January 28, 2020	0.0443	5,919.69	44,282.38
January 29, 2020	(1.0000)	0.00	0.00
January 30, 2020	0.0410	5,483.25	41,017.56
January 31, 2020	0.0425	5,678.79	42,480.27
February 1, 2020	0.0422	5,638.98	42,182.49
February 2, 2020	0.0454	6,069.50	45,403.01
February 3, 2020	0.0420	5,619.27	42,035.08
February 4, 2020	0.0375	5,018.59	37,541.67
February 5, 2020	0.0415	5,544.94	41,479.04
February 6, 2020	0.0460	6,145.14	45,968.88
February 7, 2020	0.0452	6,044.71	45,217.59
February 8, 2020	0.0436	5,832.48	43,629.99

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<b>DATE</b>	<b>DAILY VOLUME (MG)</b>	<b>DAILY VOLUME (CF)</b>	<b>DAILY VOLUME (GAL)</b>
February 9, 2020	0.0470	6,287.45	47,033.39
February 10, 2020	0.0467	6,247.79	46,736.73
February 11, 2020	0.0418	5,581.26	41,750.70
February 12, 2020	0.0457	6,115.32	45,745.76
February 13, 2020	0.0500	6,681.08	49,977.98
February 14, 2020	0.1094	14,624.00	109,395.15
February 15, 2020	0.0634	8,470.96	63,367.17
February 16, 2020	0.0539	7,211.63	53,946.71
February 17, 2020	0.0505	6,753.93	50,522.91
February 18, 2020	0.0445	5,948.52	44,498.00
February 19, 2020	0.0463	6,185.28	46,269.07
February 20, 2020	0.0452	6,046.23	45,228.91
February 21, 2020	0.0462	6,172.22	46,171.43
February 22, 2020	0.0417	5,573.01	41,689.03
February 23, 2020	0.0426	5,698.12	42,624.93
February 24, 2020	0.0382	5,101.96	38,165.32
February 25, 2020	0.0422	5,644.42	42,223.19
February 26, 2020	0.0418	5,585.45	41,782.07
February 27, 2020	0.0580	7,758.73	58,039.34
February 28, 2020	0.0398	5,324.20	39,827.78
February 29, 2020	0.0467	6,241.64	46,690.73
March 1, 2020	0.0577	7,719.30	57,744.40
March 2, 2020	0.0381	5,098.73	38,141.18
March 3, 2020	0.0377	5,045.42	37,742.33
March 4, 2020	0.0500	6,682.13	49,985.77
March 5, 2020	0.0539	7,207.82	53,918.21
March 6, 2020	0.0458	6,126.53	45,829.66
March 7, 2020	0.0486	6,501.49	48,634.52
March 8, 2020	0.0411	5,499.56	41,139.60
March 9, 2020	0.0454	6,062.71	45,352.21
March 10, 2020	0.0376	5,027.67	37,609.58
March 11, 2020	0.0415	5,543.52	41,468.39
March 12, 2020	0.0460	6,155.71	46,047.95
March 13, 2020	0.0456	6,097.83	45,614.95
March 14, 2020	0.0500	6,689.19	50,038.61
March 15, 2020	0.0590	7,885.27	58,985.89
March 16, 2020	0.0545	7,281.09	54,466.34
March 17, 2020	0.0543	7,258.78	54,299.45
March 18, 2020	0.0530	7,090.36	53,039.58

DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
March 19, 2020	0.0499	6,674.53	49,928.98
March 20, 2020	0.0527	7,044.91	52,699.55
March 21, 2020	0.0881	11,778.91	88,112.35
March 22, 2020	0.0560	7,492.12	56,044.95
March 23, 2020	0.0545	7,286.49	54,506.71
March 24, 2020	0.0538	7,197.94	53,844.32
March 25, 2020	0.0482	6,443.45	48,200.38
March 26, 2020	0.0522	6,975.67	52,181.65
March 27, 2020	0.0503	6,728.83	50,335.13
March 28, 2020	0.0478	6,386.67	47,775.65
March 29, 2020	0.0443	5,915.58	44,251.62
March 30, 2020	0.0412	5,506.36	41,190.41
March 31, 2020	0.0473	6,323.24	47,301.12
April 1, 2020	0.0454	6,066.52	45,380.74
April 2, 2020	0.0408	5,448.45	40,757.21
April 3, 2020	0.0413	5,519.93	41,291.93
April 4, 2020	0.0416	5,560.40	41,594.69
April 5, 2020	0.0371	4,957.53	37,084.89
April 6, 2020	0.0392	5,236.46	39,171.42
April 7, 2020	0.0370	4,951.21	37,037.61
April 8, 2020	0.0412	5,505.19	41,181.68
April 9, 2020	0.0370	4,942.37	36,971.46
April 10, 2020	0.0407	5,439.19	40,688.00
April 11, 2020	0.0415	5,550.90	41,523.58
April 12, 2020	0.0374	4,995.39	37,368.12
April 13, 2020	0.0417	5,575.08	41,704.47
April 14, 2020	0.0416	5,554.93	41,553.79
April 15, 2020	0.0756	10,101.01	75,560.82
April 16, 2020	0.0501	6,693.08	50,067.69
April 17, 2020	0.0471	6,293.10	47,075.65
April 18, 2020	0.0538	7,198.57	53,849.05
April 19, 2020	0.0371	4,965.84	37,147.03
April 20, 2020	0.0418	5,589.55	41,812.75
April 21, 2020	0.0404	5,401.73	40,407.72
April 22, 2020	0.0400	5,350.36	40,023.44
April 23, 2020	0.0412	5,510.89	41,224.29
April 24, 2020	0.0371	4,961.87	37,117.33
April 25, 2020	0.0501	6,695.29	50,084.26
April 26, 2020	0.0420	5,609.69	41,963.37

**PROJECT WIN QUARTERLY REPORT #59**  
**APRIL 1, 2020 - JUNE 30, 2020**



**MOU SEMI-ANNUAL REPORT #24**  
**JANUARY 1, 2020 - JUNE 30, 2020**



<b>DATE</b>	<b>DAILY VOLUME (MG)</b>	<b>DAILY VOLUME (CF)</b>	<b>DAILY VOLUME (GAL)</b>
April 27, 2020	0.0448	5,983.08	44,756.57
April 28, 2020	0.0494	6,607.47	49,427.29
April 29, 2020	0.0504	6,736.03	50,388.99
April 30, 2020	0.0450	6,019.13	45,026.24
May 1, 2020	0.0453	6,052.60	45,276.62
May 2, 2020	0.0413	5,526.12	41,338.26
May 3, 2020	0.0412	5,501.94	41,157.41
May 4, 2020	0.0444	5,933.40	44,384.89
May 5, 2020	0.0411	5,490.29	41,070.22
May 6, 2020	0.0414	5,531.36	41,377.45
May 7, 2020	0.0413	5,518.75	41,283.09
May 8, 2020	0.0416	5,559.56	41,588.41
May 9, 2020	0.0398	5,317.62	39,778.59
May 10, 2020	0.0500	6,683.93	49,999.24
May 11, 2020	0.0458	6,117.78	45,764.20
May 12, 2020	0.0415	5,550.68	41,521.96
May 13, 2020	0.0370	4,947.37	37,008.93
May 14, 2020	0.0413	5,517.93	41,276.95
May 15, 2020	0.0415	5,545.11	41,480.30
May 16, 2020	0.0404	5,396.98	40,372.24
May 17, 2020	0.0407	5,443.03	40,716.73
May 18, 2020	0.0850	11,358.63	84,968.48
May 19, 2020	0.0541	7,233.43	54,109.85
May 20, 2020	0.0572	7,646.67	57,201.07
May 21, 2020	0.0503	6,720.09	50,269.75
May 22, 2020	0.0493	6,593.11	49,319.87
May 23, 2020	0.0452	6,038.19	45,168.79
May 24, 2020	0.0448	5,988.06	44,793.80
May 25, 2020	0.0849	11,345.34	84,869.01
May 26, 2020	0.0556	7,438.11	55,640.90
May 27, 2020	0.0458	6,116.27	45,752.91
May 28, 2020	0.0457	6,110.10	45,706.69
May 29, 2020	0.0418	5,589.28	41,810.74
May 30, 2020	0.0416	5,562.18	41,608.02
May 31, 2020	0.0414	5,537.84	41,425.95
June 1, 2020	0.0369	4,933.20	36,902.88
June 2, 2020	0.0406	5,423.38	40,569.73
June 3, 2020	0.0370	4,941.99	36,968.64
June 4, 2020	0.0416	5,563.57	41,618.39

DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
June 5, 2020	0.0369	4,936.62	36,928.49
June 6, 2020	0.0449	6,000.46	44,886.58
June 7, 2020	0.0503	6,718.00	50,254.11
June 8, 2020	0.0411	5,491.44	41,078.79
June 9, 2020	0.0369	4,936.62	36,928.49
June 10, 2020	0.0405	5,419.71	40,542.23
June 11, 2020	0.0369	4,936.62	36,928.49
June 12, 2020	0.0415	5,547.95	41,501.54
June 13, 2020	0.0414	5,531.26	41,376.74
June 14, 2020	0.0370	4,941.33	36,963.72
June 15, 2020	0.0411	5,490.49	41,071.71
June 16, 2020	0.0369	4,936.79	36,929.77
June 17, 2020	0.0415	5,549.37	41,512.20
June 18, 2020	0.0369	4,936.83	36,930.05
June 19, 2020	0.0408	5,455.44	40,809.56
June 20, 2020	0.0369	4,936.66	36,928.81
June 21, 2020	0.0414	5,539.06	41,435.02
June 22, 2020	0.0414	5,540.84	41,448.35
June 23, 2020	0.0538	7,188.89	53,776.65
June 24, 2020	0.0852	11,394.59	85,237.47
June 25, 2020	0.0497	6,644.17	49,701.86
June 26, 2020	0.0369	4,936.62	36,928.49
June 27, 2020	0.0369	4,936.62	36,928.50
June 28, 2020	0.0390	5,208.51	38,962.35
June 29, 2020	0.0414	5,529.13	41,360.75
June 30, 2020	0.0408	5,453.19	40,792.68



