



August 29, 2024

Branch Chief, Water Enforcement Branch
Enforcement and Compliance Assurance Division
Water Enforcement Section
U.S. Environmental Protection Agency

Manager – Surface Water Permits Branch
Kentucky Division of Water
Kentucky Department for Environmental Protection

Chief, Environmental Enforcement Section
Environmental and Natural Resources Division
U.S. Department of Justice
Reference DOJ Case No. 90-5-1-1-08591

Re: Amended Consent Decree Case No. 2:05-CV-199-(WOB)

To Whom It May Concern:

Pursuant to the above-referenced Amended Consent Decree, Sanitation District No. 1 (SD1) is required to submit semi-annual reports that demonstrate SD1's compliance with the Amended Consent Decree:

Information contained within the enclosed Semi-Annual Report describes SD1's compliance with Amended Consent Decree Case No. 2:05-CV-199-(WOB) for the period of Jan 1, 2024, through June 30, 2024.

A certification, as required by the Amended Consent Decree (paragraph 70), is also attached.

To the best of my knowledge and belief, the enclosed report is true, accurate, and complete, and further demonstrates SD1's commitment to the mission of protecting and enhancing the water resources and quality of life in Northern Kentucky.

To Whom it May Concern
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August 29, 2024

If you have any questions or concerns, please contact Jason Burlage, Regulatory Compliance Manager, at 859-578-6892 or by e-mail at jburlage@sd1.org.

Best regards,


Adam Chaney
Executive Director

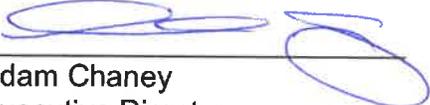
AC/jb
Enclosures

Cc: Maryjo Bragan
Dennis Sayre
Jason Hurt
Mark Absher
Mark Cleland

CERTIFICATION

Amended Consent Decree Semi-Annual Report
Consent Decree Case No. 2:05-CV-199-(WOB)

I certify under penalty of law that this document and all attachments were prepared under my 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.



Adam Chaney
Executive Director

AUGUST 28, 2024
Date

COMMONWEALTH OF KENTUCKY
COUNTY OF KENTON)ss.

The foregoing instrument was acknowledged before me this 28th day of AUGUST, 2024 by Adam Chaney, Executive Director of Sanitation District No. 1.

LORAIN E. BRAUN
NOTARY PUBLIC
COMMONWEALTH OF KENTUCKY
ID # KYNP83287
MY COMMISSION EXPIRES DECEMBER 21, 2027

Lorraine E. Braun
NOTARY PUBLIC
KENTON County, Kentucky

My commission expires: 12/21/2027

AMENDED CONSENT DECREE SEMI-ANNUAL REPORT #10

JANUARY 1, 2024 – JUNE 30, 2024

August 29, 2024



Sanitation District No. 1

1045 Eaton Drive
Ft. Wright, KY 41017

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ACRONYMS AND ABBREVIATIONS

ACD	Amended Consent Decree
District	Sanitation District No. 1
Hrs	Hours
MG	Million Gallons
MH	Manhole
Min	Minutes
PS	Pump Station
SD1	Sanitation District No. 1
UT	Unnamed Tributary

SECTION 1. INTRODUCTION

The Semi-Annual Report is submitted to fulfill the reporting requirements of Sanitation District No. 1's (SD1) Amended Consent Decree (ACD), as entered on May 22, 2019. The ACD is a legal agreement with the U.S. Environmental Protection Agency and the Kentucky Energy and Environment Cabinet. The purpose of the ACD is to address sanitary sewer overflows in SD1's sanitary sewer system and combined sewer overflows in the combined sewer system to improve water quality throughout SD1's service area. Specifically, Section V Reporting Requirements states:

47. Semi-Annual Reports. The District shall submit to the Cabinet/EPA a Semi-Annual Report no later than sixty days after the end of each six-month calendar period ending June 30 and December 31.

Information contained within this report describes SD1's compliance with ACD Case No. 2:05-CV-199 (WOB) for the first 6 months of 2024.

SECTION 2. OVERFLOW DETAILS

Paragraph 47 of the ACD provides the details to be included in the report:

47. The Semi-Annual Report shall include the date, time, location, estimated volume, estimated duration, receiving water (if any), cause and actions taken to respond to and repair or otherwise resolve the cause of all SSOs and dry weather CSOs occurring in the most recently completed six-month calendar period. For reported SSOs, the Semi-Annual Report shall also identify any project that may be included in Appendix C of the Amended Consent Decree or in an Updated Watershed Plan that is designed to eliminate that SSO. The Semi-Annual Report shall also include such information in a tabulated electronic format.

The Semi-Annual Report provides overflow details from multiple sources. The two categories of Dry Weather CSOs and SSOs Caused by Operational Failures are derived from records that were a result of visual confirmations of the overflows. The category of SSOs at Pumps Stations is derived from records that were a result of telemetry-based alarms of remotely sensed overflows. The category of Model-Predicted Wet Weather SSOs is derived from hydraulic models that are continuously updated and calibrated with a robust flow monitoring program, and simulations of wet weather events that are recorded by SD1's network of 22 rain gauges. All documented SSO events detailed in this report

exceed 1000 gallons. The mean frequency distribution storm periods and recurrence intervals detailed in Sections 2.3 and 2.4 are derived from Rainfall Frequency Atlas of the Midwest - Bulletin 71.

2.1 Dry Weather CSOs

CSO	KPDES Outfall #	Date & Time	Location (x, y)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
NA	NA	NA	NA	NA	NA	NA	NA	NA

2.2 SSOs Caused by Operational Failures

SSO	Date & Time	Location (y, x)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
2370524	2/3//2024 1915	-84.713636, 39.069829	1,700	1:25	UT Woolper Creek	Blockage / Vandalism	Several sticks were found blocking the downstream invert, resulting in debris buildup and minimal sewage release from the manhole. Two 5-gallon buckets of soil were removed from around the manhole. The soil was then replaced, and seed and straw were applied for stabilization.
1080004	2/4/2024 1340	-84.580134, 38.994610	6,460	2:50	UT Bullock Pen Creek	Blockage / Vandalism	The manhole was full of logs. The line was jetted, and three lines were CCTV inspected. All debris was removed, and a bolt-down lid was installed. Low areas were pumped back into the sanitary system, and the area affected by the release was excavated and cleared of all debris. The area was then graded, and seed and straw were applied for stabilization.
2390PS1	2/19//2024 1345	-84.747625, 39.028351	1,150	0:30	Allen Fork	Equipment Malfunction / Electrical Failure	An electrical failure occurred at the station due to an issue in the transfer switch for the station's power. After conducting a weekly test on the generator, it was determined the power did not transfer back correctly, resulting in the pumps not running at the station.

SSO	Date & Time	Location (y, x)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
2220037	3/16/2024 1520	-84.379843, 38.973999	3,800	1:40	UT Fourmile Creek	Blockage / Deposits	The release was caused by large deposits in the main line. The main line was jetted, and three lines were CCTV inspected, with no additional issues found in the upstream or downstream lines. All solids were removed from the overflow area, which was then flushed with water. Seed and straw were applied for stabilization.
NA / Private Residential Cleanout	3/18/2024 1730	-84.458049, 39.035915	7,980	03:30	Threemile Creek	Blockage / Roots	The overflow was caused by heavy roots in the main line. The main line, along with the upstream and downstream lines, was cleaned and inspected with CCTV to assess their condition. The overflow did not occur at an SD1 structure but rather at the nearest downstream residential cleanout.
1710067	3/31/2024 1615	-84.549711, 39.096246	114,750	04:15	Ohio River	Equipment Malfunction / Mechanical Failure	The release occurred due to a mechanical issue following a power failure at the Bromley Pump Station. No cleanup was possible as the discharge went directly into the Ohio River.
1760017	4/23/2024 1950	-84.564900, 38.995371	26,790	11:45	UT Bullock Pen Creek	Blockage / Debris	The release was caused by debris, including rocks and rags. Upon arrival, the lid was completely on, and there was minimal flow seeping out, with no solids releasing from the system. The area was flushed with large amounts of water, but recovery was not possible due to the location of the release. The sewage flowed down a gravel path and over a hill into a ravine. Seed and straw were not needed as the flow ran down a gravel path that was heavily flushed with water afterward.

SSO	Date & Time	Location (y, x)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
2410494	5/7/2024 0840	-84.682332, 39.017769	2,280	01:00	Gunpowder Creek	Blockage / Debris	The release was caused by debris and rags in the main line, a few feet upstream of the manhole. The flow from the release went directly into a private storm line and then into state-maintained storm lines. Since the flow was coming out of two holes in the manhole lid, there were no solids. After removing the blockage, the area of the release was flushed with a fire hydrant and a vactor. No additional cleanup was required, and there were no noticeable odors once the work was completed.
1240079	5/8/2024 1022	-84.613261, 39.013578	1,500	01:18	UT West Fork Dry Creek	Blockage / Debris	The release was caused by debris caught on a broken step in the downstream invert. Minimal cleanup was needed. Once the blockage was removed, the solids were raked up, and the area was flushed with a vactor full of water. The flow only reached a natural swale and went no further. There were no noticeable odors or debris after the cleanup was finished, and the area received over an inch of rain later that day.
2000059	5/13/2024 1200	-84.519956, 39.009865	1,500	23:30	UT Holds Branch	Blockage / Roots	The release was caused by a 5-foot-long root blockage extending down the main from the upstream manhole. The roots were removed, and the lines in the area were inspected. The release was minimal, so only a small amount of cleanup was required. There were no solids, and the flow that did escape traveled approximately 25 feet directly into a channel. Due to the ground being saturated from a previous rain event, crews flushed the area and the channel with a large amount of water. There were no noticeable odors after the cleanup was completed.
1650062	5/14/2024 1015	-84.559663, 39.056368	41,175	03:45	UT Pleasant Run Creek	Blockage / Vandalism	The release was caused by a large rock wedged in the downstream invert of the manhole. The rock could not be removed until the pressure was relieved. Once the crew stopped the release, the rock was removed, and the lines were inspected.

SSO	Date & Time	Location (y, x)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
0260041	5/19/2024 0330	-84.448349, 39.071336	2,000	12:00	North Branch Threemile Creek	Condition of Pipe / Line Break	The release was caused by an ongoing landslide. During repairs, it was discovered that the slide had pushed the pipe apart and torn the liner inside the pipe. This allowed flow to leach out and travel down to a private storm line, which eventually led to a channel. No solids escaped from the main. Engineering has advanced the project, pending easements, and bypass pumping will continue until the repair is completed.
0280001	6/4/2024 0845	-84.440902, 39.075062	2,850	01:15	UT Ohio River	Condition of Pipe / Collapsed Pipe	Manhole 0280001 was found releasing. The line was jetted open, and CCTV inspection revealed that a collapsed pipe was the cause of the release. The line is now open and flowing. Both the upstream and downstream lines were also inspected with CCTV and were found to be in good condition. The release traveled down a channel to the creek. The area was raked, debris was collected, and the site was flushed with water and hosed down. Due to the terrain and steepness of the hillside, there was no feasible location to recover any liquid.
2420867	6/6/2024 1330	-84.643614, 38.951485	4,500	02:30	South Fork Gunpowder Creek	Force Main Failure / Line Break	A force main break caused the sewage to be contained to one area and released only when the pumps were running. The pumps were shut down, and the station was pumped down, with sludge being hauled away until repairs could be completed. The station operated twice for 5 minutes before hauling began. Repairs were made to the force main, and all debris was excavated and removed.
2390933	6/11/2024 1215	-84.716401, 39.028666	2,280	01:00	Allen Fork	Blockage / Roots	The release was caused by a long root blockage. The roots were removed, and the lines in the area were inspected. The area around the manhole and the hillside were raked to collect any solids, and seed and straw were applied. The creek was flushed and the water was pumped back into the system.

SSO	Date & Time	Location (y, x)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
2220010	6/13/2024 1515	-84.375213, 38.973220	3,420	01:30	UT Fourmile Creek	Blockage / Debris	There were no observable signs of blockage, but when the line was jetted, flow was restored to the pipe. The area around the manhole was raked to remove solids and debris. The creek was running steadily, and most of the release had been diluted before flushing could occur.

2.3 SSOs at Pump Stations Caused by Wet Weather

SSO	Date & Time	Storm Event Duration (hrs)	Total Rainfall (in)	Storm Recurrence Interval	Spill Volume (gallons)	Spill Duration (hrs:min)	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Location (y, x)	Receiving Water	OF with 2040 Improvements	Related Project
Lakeview PS	1/24/2024 1141	47:30	1.49	<2mo	410,345	26:45	0.15	Dormant	-84.532305, 39.029739	Banklick Creek	N	Lakeview EQ (2029)
Keavy PS	4/2/2024 1435	12:10	1.28	>2mo	3,850	00:35	1.18	Growing	-84.504201, 39.019386	UT Licking River	N	Lakeview PS EQ -, Keavy PS (2034)
Lakeview PS	4/11/2024 1030	29:00	2.25	<9mo	216,601	10:07	0.24	Growing	-84.532305, 39.029739	Banklick Creek	N	Lakeview EQ (2029)
Keavy PS	4/11/2024 1547	29:00	2.25	<9mo	6,600	01:00	0.24	Growing	-84.504201, 39.019386	UT Licking River	N	Lakeview PS EQ -, Keavy PS (2034)
Riverview Farms PS	5/8/2024 0104	06:45	2.49	5 Year	6,120	01:42	1.37	Growing	-84.578896, 39.073733	Ohio River	Y	NA

2.4 Model Predicted SSOs

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
0040003	-84.443599, 39.058364	UT to Threemile Creek	5/8/2024 1:45	9.42	1.05	3 month	1.85	Growing	0.002	0:24	N	HH/SG Improvements (2040)
0050022	-84.443133, 39.057312	UT to Threemile Creek	5/8/2024 1:15	14.50	2.64	< 5 year	1.05	Growing	0.051	2:43	Y	HH/SG Improvements (2040)
0050131	-84.433274, 39.054857	Threemile Creek	5/8/2024 1:36	9.42	1.05	3 month	1.85	Growing	0.007	1:35	N	HH/SG Improvements (2040)
0060001	-84.435000, 39.054000	Threemile Creek	1/9/2024 11:52	26.75	1.59	3 month	0.32	Dormant	0.005	1:22	N	HH/SG Improvements (2040)
			4/1/2024 17:05	0.10	0.05	< 2-month	0	Growing	0.005	0:54	N	
			4/2/2024 10:03	15.08	1.32	< 1 year	0.09	Growing	0.014	6:24	N	
			4/11/2024 10:16	29.00	1.85	> 4 month	0.26	Growing	0.033	7:17	N	
			5/8/2024 00:50	9.42	1.05	3 month	1.85	Growing	0.029	3:15	N	
0060002	-84.435877, 39.053526	Threemile Creek	4/1/2024 17:00	0.10	0.05	< 2-month	0	Growing	0.010	0:49	N	HH/SG Improvements (2040)
			4/2/2024 14:40	15.08	1.32	< 1 year	0.09	Growing	0.016	1:23	N	
			4/11/2024 10:30	29.00	1.85	> 4 month	0.26	Growing	0.028	6:42	N	
			5/8/2024 0:55	9.42	1.05	3 month	1.85	Growing	0.033	2:28	N	
			4/1/2024 17:00	0.10	0.05	< 2-month	0	Growing	0.005	0:34	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
0060002 Cont.			4/2/2024 14:55	15.08	1.32	< 1 year	0.09	Growing	0.005	0:39	N	HH/SG Improvements (2040) Cont.
			5/8/2024 1:10	9.42	1.05	3 month	1.85	Growing	0.018	1:28	N	
0110002	-84.458000, 39.053000	Threemile Creek	5/8/2024 1:45	5.25	1.01	> 4 month	1.32	Growing	0.006	0:53	N	Licking River Siphon Conveyance (2034)
0110010	-84.455989, 39.048830	Threemile Creek	1/9/2024 5:20	27.00	1.54	< 3 month	0.25	Dormant	0.038	8:07	N	Licking River Siphon Conveyance Extension (2040)
			1/12/2024 14:46	13.67	0.59	< 2 month	1.79	Dormant	0.020	2:02	N	
			1/24/2024 10:51	48.58	1.17	< 2 month	0	Dormant	0.002	0:47	N	
			1/25/2024 22:56	7.58	0.48	< 2 month	1.17	Dormant	0.001	0:29	N	
			3/6/2024 8:25	22.25	1.08	< 2 month	0.27	Dormant	0.035	2:26	N	
			3/14/2024 23:50	2.08	0.54	< 2 month	0.41	Dormant	0.025	2:08	N	
			4/1/2024 16:35	0.50	0.81	< 2 year	0.57	Growing	0.130	3:03	N	
			4/2/2024 7:45	11.92	1.26	< 3 month	1.11	Growing	0.154	9:19	N	
			4/11/2024 9:23	29.17	1.8	4 month	0.09	Growing	0.142	8:04	N	
			5/8/2024 0:33	5.25	1.01	> 4 month	1.32	Growing	0.150	3:40	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
0150024	-84.478000, 39.060000	North Branch Threemile Creek	5/8/2024 1:20	14.50	2.64	< 5 year	1.05	Growing	0.203	4:14	N	Licking River Siphon Conveyance (2040)
0150083	-84.462858, 39.051539	Threemile Creek	5/8/2024 1:20	5.25	1.01	> 4 month	1.32	Growing	0.007	1:06	N	Licking River Siphon Conveyance Extension (2040)
0150085	-84.461000, 39.052000	Threemile Creek	5/8/2024 1:20	5.25	1.01	> 4 month	1.32	Growing	0.003	1:53	N	Licking River Siphon Conveyance (2034)
0150086	-84.460735, 39.053303	Threemile Creek	5/8/2024 1:00	14.50	2.64	< 5 year	1.05	Growing	0.238	4:38	N	Licking River Siphon Conveyance Extension (2040)
0150087	-84.460000, 39.054000	Threemile Creek	5/8/2024 1:50	14.50	2.64	< 5 year	1.05	Growing	0.003	1:10	N	Dry Creek (2040)
0220056	-84.454804, 39.066994	UT to Threemile Creek	5/8/2024 1:30	14.50	2.64	< 5 year	1.05	Growing	0.021	2:13	N	Licking River Siphon Conveyance (2040)
0220058	-84.454360, 39.067635	UT to Threemile Creek	5/8/2024 1:40	14.50	2.64	< 5 year	1.05	Growing	0.007	1:36	N	Licking River Siphon Conveyance (2040)
0220086	-84.456303, 39.064285	UT to Threemile Creek	5/8/2024 1:25	14.50	2.64	< 5 year	1.05	Growing	0.027	2:19	N	Licking River Siphon Conveyance (2040)
0230008	-84.462000, 39.070000	North Branch Threemile Creek	5/8/2024 1:30	14.50	2.64	< 5 year	1.05	Growing	0.003	0:40	N	Licking River Siphon Conveyance (2040)
0230016	-84.460345, 39.071407	UT to Threemile Creek	5/8/2024 1:15	14.50	2.64	< 5 year	1.05	Growing	0.009	0:49	N	Licking River Siphon Conveyance (2040)
0270026	-84.451222, 39.074989	UT to Threemile Creek	5/8/2024 1:15	14.50	2.64	< 5 year	1.05	Growing	0.024	1:32	Y	Licking River Siphon Conveyance (2040)
0280001	-84.440902, 39.075061	UT to Ohio River	5/8/2024 1:15	14.50	2.64	< 5 year	1.05	Growing	0.018	0:55	N	HH/SG Improvements (2040)
0300035	-84.44618, 39.084106	UT to Ohio River	5/8/2024 1:10	14.50	2.64	< 5 year	1.05	Growing	0.033	0:60	N	HH/SG Improvements (2040)

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
0330003	-84.442000, 39.097000	UT to to Ohio River	5/8/2024 2:00	14.50	2.64	< 5 year	1.05	Growing	0.003	0:58	Y	HH/SG Improvements (2040)
0330005	-84.441881, 39.096729	UT to Ohio River	5/8/2024 2:00	14.50	2.64	< 5 year	1.05	Growing	0.001	0:37	Y	Not Applicable
0340003	-84.439774, 39.098779	UT to Ohio River	3/15/2024 0:55	2.42	0.68	< 2 month	0.38	Dormant	0.002	0:24	N	HH/SG Improvements (2040)
			4/2/2024 19:35	15.08	1.32	< 1 year	0.09	Growing	0.010	0:49	N	
			4/11/2024 16:45	29.00	1.85	> 4 month	0.26	Growing	0.005	0:34	N	
			5/7/2024 23:55	14.50	2.64	< 5 year	1.05	Growing	0.114	4:28	N	
0360004	-84.458068, 39.115279	UT to Ohio River	5/8/2024 1:15	14.50	3.02	> 5 year	0.9	Growing	0.007	0:55	Y	HH/SG Improvements (2040)
0360005	-84.456783, 39.114836	UT to to Ohio River	5/8/2024 0:50	14.50	3.02	> 5 year	0.9	Growing	0.074	1:41	Y	HH/SG Improvements (2040)
0360009	-84.453284, 39.113606	UT to Ohio River	5/8/2024 1:11	14.50	3.02	> 5 year	0.9	Growing	0.012	1:22	N	HH/SG Improvements (2040)
0360011	-84.451513, 39.112846	Ohio River	5/8/2024 1:14	14.50	3.02	> 5 year	0.9	Growing	0.009	1:20	N	HH/SG Improvements (2040)
0360018	-84.448000, 39.110000	UT to to Ohio River	5/8/2024 1:00	14.50	3.02	> 5 year	0.9	Growing	0.029	1:49	N	HH/SG Improvements (2040)
0390006	-84.456785, 39.101429	UT to Taylor Creek	4/2/2024 19:40	12.33	1.71	2 year	0.25	Growing	0.003	0:28	N	Taylor Creek (2040)
			5/8/2024 0:15	14.50	3.02	> 5 year	0.9	Growing	0.024	2:43	Y	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
0390007	-84.456644, 39.101019	UT to Taylor Creek	5/8/2024 0:36	14.50	3.02	> 5 year	0.9	Growing	0.053	1:58	N	Taylor Creek (2040)
0410001	-84.464007, 39.093032	UT to Woodlawn Creek	5/8/2024 1:15	14.50	2.64	< 5 year	1.05	Growing	0.096	2:29	N	Taylor Creek (2040)
0410010	-84.461262, 39.088912	UT to to Woodlawn Creek	5/8/2024 1:20	14.50	2.64	< 5 year	1.05	Growing	0.022	1:53	Y	Taylor Creek (2040)
0410019	-84.459029, 39.086080	UT to Woodlawn Creek	4/2/2024 19:41	15.08	1.32	< 1 year	0.09	Growing	0.004	0:48	N	Taylor Creek (2040)
			4/11/2024 16:41	29.00	1.85	> 4 month	0.26	Growing	0.003	0:43	N	
			5/8/2024 0:07	14.50	2.64	< 5 year	1.05	Growing	0.046	6:36	Y	
0410115	-84.462333, 39.090654	UT to Woodlawn Creek	5/8/2024 1:25	14.50	2.64	< 5 year	1.05	Growing	0.064	1:19	N	Taylor Creek (2040)
0430006	-84.469461, 39.095033	UT to Woodlawn Creek	1/26/2024 0:00	8.75	0.58	< 2 month	1.14	Dormant	0.011	0:44	N	Taylor Creek (2040)
			3/15/2024 0:50	2.33	0.8	> 4 month	0.34	Dormant	0.047	1:49	N	
			4/2/2024 19:40	12.33	1.71	2 year	0.25	Growing	0.068	1:54	N	
			4/11/2024 10:55	28.83	1.85	> 4 month	0.16	Growing	0.160	7:53	N	
			5/8/2024 0:00	14.50	3.02	> 5 year	0.9	Growing	0.417	8:57	N	
0430107	-84.46625, 39.094213	UT to Woodlawn Creek	4/2/2024 19:55	15.08	1.32	< 1 year	0.09	Growing	0.020	0:44	N	Taylor Creek (2040)
			4/11/2024 12:00	29.00	1.85	> 4 month	0.26	Growing	0.011	5:34	N	

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0430107 Cont.			5/8/2024 0:30	14.50	2.64	< 5 year	1.05	Growing	0.248	5:15	N	Taylor Creek (2040) Cont.
0440074	-84.459567, 39.102626	Taylor Creek	4/2/2024 19:45	12.33	1.71	2 year	0.25	Growing	0.002	0:34	N	Taylor Creek (2040)
			5/8/2024 0:31	14.50	3.02	> 5 year	0.9	Growing	0.026	3:59	Y	
			5/8/2024 1:07	14.50	3.02	> 5 year	0.9	Growing	0.028	2:07	Y	
0460037	-84.458827, 39.114090	UT to to Ohio River	5/8/2024 1:20	14.50	3.02	> 5 year	0.9	Growing	0.015	1:18	Y	Not Applicable
0490035	-84.477896, 39.078140	UT to to Woodlawn Creek	5/8/2024 1:15	14.50	2.64	< 5 year	1.05	Growing	0.034	2:34	Y	Taylor Creek (2034)
0490039	-84.476558, 39.078517	UT to to Woodlawn Creek	5/8/2024 1:25	14.50	2.64	< 5 year	1.05	Growing	0.013	1:33	Y	Not Applicable
0490073	-84.474727, 39.079808	UT to to Woodlawn Creek	5/8/2024 1:25	14.50	2.64	< 5 year	1.05	Growing	0.015	1:48	Y	Not Applicable
0490137	-84.479448, 39.078708	UT to to Woodlawn Creek	5/8/2024 1:10	14.50	2.64	< 5 year	1.05	Growing	0.056	2:54	N	Taylor Creek (2040)
0500047	-84.480473, 39.079133	UT to to Woodlawn Creek	5/8/2024 1:05	14.50	2.64	< 5 year	1.05	Growing	0.276	2:45	Y	Taylor Creek (2040)
0500048	-84.480074, 39.078687	UT to to Woodlawn Creek	5/8/2024 1:35	14.50	2.64	< 5 year	1.05	Growing	0.016	0:41	Y	Not Applicable
0530083	-84.473394, 39.093628	UT to Woodlawn Creek	3/15/2024 0:56	2.33	0.8	> 4 month	0.34	Dormant	0.006	1:50	N	Taylor Creek (2040)
			4/2/2024 19:45	12.33	1.71	2 year	0.25	Growing	0.017	2:06	N	

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0530083 Cont.			4/11/2024 10:55	28.83	1.85	> 4 month	0.16	Growing	0.054	8:30	N	Taylor Creek (2040) Cont.
			5/8/2024 0:05	14.50	3.02	> 5 year	0.9	Growing	0.451	9:58	Y	
0530118	-84.475239, 39.091247	UT to to Woodlawn Creek	5/8/2024 1:20	14.50	2.64	< 5 year	1.05	Growing	0.029	1:09	N	Taylor Creek (2040)
0530119	-84.475230, 39.091264	UT to to Woodlawn Creek	5/8/2024 0:45	14.50	2.64	< 5 year	1.05	Growing	0.498	3:45	Y	Taylor Creek (2040)
0530122	-84.474495, 39.091578	UT to Woodlawn Creek	5/8/2024 1:25	14.50	2.64	< 5 year	1.05	Growing	0.026	1:04	N	Taylor Creek (2040)
0570130	-84.461098, 39.116305	UT to to Ohio River	5/8/2024 1:05	14.50	3.02	> 5 year	0.9	Growing	0.315	1:10	Y	HH/SG Improvements (2040)
0710071	-84.484440, 39.077833	UT to to Woodlawn Creek	5/8/2024 1:20	14.50	2.64	< 5 year	1.05	Growing	0.022	1:55	N	Taylor Creek (2040)
0730023	-84.486978, 39.085674	Licking River	5/8/2024 0:40	4.83	3.04	> 10 year	1.55	Growing	0.019	0:25	Y	Not Applicable
0870037	-84.494850, 39.046409	None: Returned to CSS	5/4/2024 10:10	1.83	1.21	9 month	0.47	Growing	0.081	0:60	N	James Ave Consolidation Sewer (2040)
			5/8/2024 1:15	6.68	1.2	> 6 month	1.73	Growing	0.100	0:55	N	
0920007	-84.500819, 39.063087	Licking River	5/8/2024 1:50	13.08	2.33	< 5 year	1.82	Growing	0.018	0:15	Y	22nd & Russell, Packaging Unlimited Basins (2029)
1010002	-84.459673, 39.084794	UT to to Woodlawn Creek	4/2/2024 19:50	15.08	1.32	< 1 year	0.09	Growing	0.002	0:29	N	Taylor Creek (2040)
			5/8/2024 0:26	14.50	2.64	< 5 year	1.05	Growing	0.100	5:38	Y	

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1010025	-84.457872, 39.083938	UT to to Woodlawn Creek	5/8/2024 1:05	14.50	2.64	< 5 year	1.05	Growing	0.079	3:34	N	Taylor Creek (2034)
1010027	-84.456180, 39.083566	UT to to Woodlawn Creek	5/8/2024 1:10	14.50	2.64	< 5 year	1.05	Growing	0.042	2:20	N	Taylor Creek (2040)
1010028	-84.455805, 39.083395	UT to to Woodlawn Creek	5/8/2024 1:30	14.50	2.64	< 5 year	1.05	Growing	0.005	1:03	N	Taylor Creek (2040)
1010043	-84.454844, 39.082837	UT to to Woodlawn Creek	5/8/2024 1:35	14.50	2.64	< 5 year	1.05	Growing	0.007	0:49	Y	Not Applicable
1110067	-84.589221, 39.006569	Rice Creek	1/9/2024 11:21	23.75	1.38	2 month	0.28	Dormant	0.025	2:28	N	Lakeview (2040)
			1/24/2024 11:06	50.17	1.18	< 2 month	0.06	Dormant	0.003	1:20	N	
			1/25/2024 22:35	7.58	0.6	< 2month	1.24	Dormant	0.030	1:29	N	
			3/5/2024 15:35	23.75	1.38	> 3 month	0.17	Dormant	0.044	1:55	N	
			3/6/2024 7:50	23.75	1.38	> 3 month	0.17	Dormant	0.012	2:34	N	
			4/2/2024 10:30	12.42	1.17	< 2 month	0.54	Growing	0.037	10:03	N	
1190012	-84.608249, 39.015680	UT to Dry Creek	1/25/2024 22:20	7.08	0.71	< 2 month	1.53	Dormant	0.020	1:18	N	Dry Creek (2040)
			3/5/2024 15:45	21.58	1.27	< 2 month	0.15	Dormant	0.003	0:29	N	
			3/6/2024 8:36	21.58	1.27	< 2 month	0.15	Dormant	0.001	0:38	N	

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1190012 Cont.			4/2/2024 14:36	12.42	1.18	< 2 month	0.55	Growing	0.005	4:37	N	Dry Creek (2040) Cont.
			4/11/2024 10:37	30.17	1.48	2 month	0.35	Growing	0.001	0:34	N	
			5/8/2024 0:55	13.08	0.91	9 month	1.59	Growing	0.009	1:28	N	
1220016	-84.599485, 39.028552	UT to Dry Creek	1/25/2024 22:37	7.58	0.6	< 2month	1.24	Dormant	0.003	0:46	N	Dry Creek (2040)
			3/5/2024 15:40	23.75	1.38	> 3 month	0.17	Dormant	0.003	0:32	N	
			5/8/2024 2:45	6.83	0.86	< 1 year	1.2	Growing	0.001	0:22	N	
1220054	-84.601512, 39.026306	UT to Dry Creek	1/25/2024 22:40	7.58	0.6	< 2month	1.24	Dormant	0.010	0:54	N	Dry Creek (2040)
			3/5/2024 15:45	23.75	1.38	> 3 month	0.17	Dormant	0.007	0:37	N	
			5/8/2024 2:50	6.83	0.86	< 1 year	1.2	Growing	0.001	0:19	N	
1240008	-84.615784, 39.013657	UT to Dry Creek	1/24/2024 9:12	47.00	1.4	< 2 month	0.13	Dormant	0.039	6:28	N	Dry Creek (2040)
			1/25/2024 22:06	7.08	0.71	< 2 month	1.53	Dormant	0.050	2:40	N	
			1/27/2024 20:30	27.00	0.69	< 2 month	2.11	Dormant	0.017	3:19	N	
			2/10/2024 7:41	1.42	0.37	< 2 month	0	Dormant	0.002	0:51	N	

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1240008 Cont.			3/5/2024 15:30	21.58	1.27	< 2 month	0.15	Dormant	0.030	1:56	N	Dry Creek (2040) Cont.
			3/6/2024 4:47	21.58	1.27	< 2 month	0.15	Dormant	0.039	5:52	N	
			3/14/2024 23:40	1.75	0.52	< 2 month	0.45	Dormant	0.026	2:12	N	
			4/1/2024 18:00	0.92	0.34	< 2 month	0.45	Growing	0.001	0:31	N	
			4/2/2024 7:25	12.42	1.18	< 2 month	0.55	Growing	0.071	12:42	N	
			4/11/2024 6:56	30.17	1.48	2 month	0.35	Growing	0.048	9:42	N	
			5/8/2024 1:51	13.08	0.91	9 month	1.59	Growing	0.004	1:03	N	
1290054	-84.521000, 39.056000	No Waterway Affected	5/8/2024 1:25	13.08	2.33	< 5 year	1.82	Growing	0.026	1:49	Y	Not Applicable
1300003	-84.517000, 39.063000	No Waterway Affected	5/8/2024 1:28	13.08	2.33	< 5 year	1.82	Growing	0.015	1:52	Y	Not Applicable
1300004	-84.517000, 39.063000	No Waterway Affected	5/8/2024 1:25	13.08	2.33	< 5 year	1.82	Growing	0.010	2:20	Y	Not Applicable
1300005	-84.516000, 39.062000	No Waterway Affected	5/8/2024 1:26	13.08	2.33	< 5 year	1.82	Growing	0.006	2:37	Y	Not Applicable
1300007	-84.515527, 39.060048	Ohio River	5/8/2024 1:25	13.08	2.33	< 5 year	1.82	Growing	0.126	2:34	Y	Not Applicable
1300019	-84.516000, 39.059000	No Waterway Affected	5/8/2024 1:30	13.08	2.33	< 5 year	1.82	Growing	0.101	1:58	Y	Not Applicable

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1300048	-84.516148, 39.058596	UT to Banklick Creek	5/8/2024 1:35	13.08	2.33	< 5 year	1.82	Growing	0.018	1:23	Y	Not Applicable
1310067	-84.507998, 39.060240	None: Returned to CSS	5/8/2024 1:05	13.08	2.33	< 5 year	1.82	Growing	0.015	0:60	Y	Not Applicable
1480069	-84.521759, 39.082200	Ohio River	5/8/2024 1:20	13.08	2.33	< 5 year	1.82	Growing	0.208	0:55	Y	Willow Run Pilot Basins (2029)
1480117	-84.520848, 39.079966	Ohio River	5/8/2024 1:50	13.08	2.33	< 5 year	1.82	Growing	0.002	0:18	Y	Not Applicable
1510256	-84.527828, 39.053949	UT to Pleasant Run Creek	5/8/2024 1:50	13.08	2.33	< 5 year	1.82	Growing	0.002	0:27	Y	Not Applicable
1520124	-84.543298, 39.053274	Moser's Branch	5/4/2024 10:25	1.50	1.71	< 5 year	0.47	Growing	0.021	0:54	N	Lakeview (2040)
			5/8/2024 0:26	5.50	1.05	6 month	2.36	Growing	0.132	3:12	N	
1550053	-84.558901, 39.047894	UT to Pleasant Run Creek	1/25/2024 22:35	6.17	0.65	< 2 month	1.6	Dormant	0.004	0:39	N	Bromley Crescent Springs Improvements (2040)
			3/5/2024 15:30	22.00	1.53	< 2 month	0.27	Dormant	0.006	0:48	N	
			3/6/2024 7:45	22.00	1.53	< 2 month	0.27	Dormant	0.003	0:48	N	
			4/1/2024 17:30	0.58	0.83	< 2 year	0.64	Growing	0.019	1:07	N	
			4/2/2024 8:50	12.17	1.28	> 2 month	1.18	Growing	0.014	7:30	N	
			4/11/2024 10:56	29.00	2.25	< 9 month	0.24	Growing	0.036	7:39	N	

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1550053 Cont.			5/4/2024 10:15	1.50	1.71	< 5 year	0.47	Growing	0.029	0:58	N	Bromley Crescent Springs Improvements (2040) Cont.
			5/8/2024 1:25	5.50	1.05	6 month	2.36	Growing	0.017	1:39	N	
1560016	-84.559151, 39.044140	UT to Pleasant Run Creek	5/4/2024 10:35	1.50	1.71	< 5 year	0.47	Growing	0.009	0:35	N	Bromley Crescent Springs Improvements (2040)
1560092	-84.559279, 39.046501	UT to Pleasant Run Creek	1/25/2024 22:35	6.17	0.65	< 2 month	1.6	Dormant	0.012	0:45	N	Bromley Crescent Springs Conveyance (2034)
			3/5/2024 15:25	22.00	1.53	< 2 month	0.27	Dormant	0.014	0:54	N	
			3/6/2024 7:45	22.00	1.53	< 2 month	0.27	Dormant	0.005	0:39	N	
			3/15/2024 0:55	2.08	0.6	< 2 month	0.36	Dormant	0.002	0:19	N	
			4/1/2024 17:25	0.58	0.83	< 2 year	0.64	Growing	0.050	1:14	N	
			4/2/2024 8:50	12.17	1.28	> 2 month	1.18	Growing	0.025	7:29	N	
			4/11/2024 10:55	29.00	2.25	< 9 month	0.24	Growing	0.086	7:32	N	
			5/4/2024 10:15	1.50	1.71	< 5 year	0.47	Growing	0.066	1:10	N	
			5/8/2024 1:25	5.50	1.05	6 month	2.36	Growing	0.059	1:45	N	
1560121	-84.559066, 39.045134	UT to Pleasant Run Creek	5/4/2024 10:35	1.50	1.71	< 5 year	0.47	Growing	0.002	0:33	N	Bromley Crescent Springs Improvements (2040)

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1570100	-84.549623, 39.040149	UT to Moser's Branch	4/1/2024 17:55	0.58	0.83	< 2 year	0.64	Growing	0.002	0:27	N	Lakeview (2040)
			5/4/2024 10:30	1.50	1.71	< 5 year	0.47	Growing	0.019	1:37	N	
			5/8/2024 1:50	5.50	1.05	6 month	2.36	Growing	0.003	0:38	N	
1690043	-84.54046, 39.068509	UT to Pleasant Run Creek	4/2/2024 19:41	12.33	1.38	< 6 month	0.13	Growing	0.002	0:33	N	Bromley Crescent Springs Conveyance (2034)
			4/11/2024 16:35	18.42	1.94	> 4 month	0.23	Growing	0.004	0:42	N	
			5/8/2024 0:45	13.08	2.33	< 5 year	1.82	Growing	0.061	2:30	Y	
1690072	-84.541464, 39.068269	UT to Pleasant Run Creek	5/8/2024 1:15	13.08	2.33	< 5 year	1.82	Growing	0.014	1:12	Y	Bromley Crescent Springs Conveyance (2034)
1700008	-84.548275, 39.081531	UT to Pleasant Run Creek	5/8/2024 1:25	6.75	2.49	5 year	1.37	Growing	0.010	1:21	Y	Bromley Crescent Springs Conveyance (2034)
1700025	-84.542274, 39.071975	UT to Pleasant Run Creek	5/8/2024 1:10	13.08	2.33	< 5 year	1.82	Growing	0.030	1:30	Y	Bromley Crescent Springs Conveyance (2034)
1730100	-84.561410, 39.065305	Pleasant Run Creek	5/8/2024 1:36	6.75	2.49	5 year	1.37	Growing	0.016	1:08	N	Bromley Crescent Springs Improvements (2040)
1730104	-84.560897, 39.063439	Pleasant Run Creek	4/2/2024 19:45	12.25	1.6	< 2 year	0.09	Growing	0.036	0:60	N	Bromley Crescent Springs Improvements (2040)
			4/11/2024 16:55	28.58	1.41	2 month	0.09	Growing	0.011	0:49	N	
			5/4/2024 10:45	7.67	0.55	< 2 month	0.49	Growing	0.006	0:34	N	

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1730104 Cont.			5/8/2024 1:25	6.75	2.49	5 year	1.37	Growing	0.358	2:60	N	Bromley Crescent Springs Improvements (2040) Cont.
1730116	-84.563773, 39.072599	UT to Pleasant Run Creek	5/8/2024 1:28	6.75	2.49	5 year	1.37	Growing	0.003	1:00	Y	Not Applicable
1730117	-84.564471, 39.072727	UT to Pleasant Run Creek	5/8/2024 1:30	6.75	2.49	5 year	1.37	Growing	0.007	0:54	Y	Not Applicable
1730118	-84.565329, 39.073000	UT to Pleasant Run Creek	5/8/2024 1:45	6.75	2.49	5 year	1.37	Growing	0.002	0:24	Y	Not Applicable
1760047	-84.566260, 39.002867	UT to Bullock Pen Creek	1/9/2024 11:50	31.17	1.39	< 2 month	0.32	Dormant	0.009	2:35	N	Lakeview (2040)
			4/2/2024 14:25	13.00	1.67	< 6 month	0.61	Growing	0.085	9:37	N	
			4/11/2024 16:20	30.42	1.56	> 2 month	0.15	Growing	0.003	1:14	N	
1760048	-84.566090, 39.003054	UT to Bullock Pen Creek	4/2/2024 14:30	13.00	1.67	< 6 month	0.61	Growing	0.021	6:54	N	Lakeview (2040)
1790003	-84.590424, 39.048497	UT to Dry Creek	5/8/2024 1:37	6.75	2.49	5 year	1.37	Growing	0.014	1:37	N	Dry Creek (2040)
1790004	-84.590532, 39.048770	UT to Dry Creek	5/8/2024 1:57	6.75	2.49	5 year	1.37	Growing	0.002	1:03	N	Dry Creek (2040)
1790009	-84.593303, 39.050099	UT to Dry Creek	5/8/2024 1:56	6.83	0.86	< 1 year	1.2	Growing	0.009	0:58	N	Dry Creek (2040)
1790028	-84.593112, 39.051346	UT to Dry Creek	5/8/2024 1:40	6.75	2.49	5 year	1.37	Growing	0.007	1:07	N	Dry Creek (2040)
1790032	-84.592283, 39.053572	UT to Dry Creek	5/8/2024 1:35	6.75	2.49	5 year	1.37	Growing	0.006	0:48	Y	Not Applicable

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
1790124	-84.592850, 39.052353	UT to Dry Creek	5/8/2024 1:40	6.75	2.49	5 year	1.37	Growing	0.001	0:37	N	Dry Creek (2040)
1810382	-84.584005, 39.066001	UT to Pleasant Run Creek	5/8/2024 1:45	6.75	2.49	5 year	1.37	Growing	0.005	1:01	Y	Not Applicable
1850140	-84.501651, 39.035532	Banklick Creek	1/28/2024 10:11	27.08	0.67	< 2 month	1.92	Dormant	3.837	133:49	N	Banklick EQ/Conveyance (2034)
			4/4/2024 10:51	12.08	1.26	2 month	0	Growing	3.002	151:04	N	
			4/12/2024 22:10	8.00	0.2	< 2 month	2.22	Growing	3.582	165:19	N	
			5/4/2024 10:50	1.83	1.21	9 month	0.47	Growing	0.005	0:20	N	
			5/8/2024 1:45	6.68	1.2	> 6 month	1.73	Growing	0.010	0:27	N	
1850141	-84.501171, 39.034191	Banklick Creek	1/9/2024 2:10	5.33	0.21	< 2 month	0	Dormant	0.363	18:33	N	Banklick EQ/Conveyance (2034)
			1/12/2024 14:37	10.33	0.62	< 2 month	1.73	Dormant	0.094	6:31	N	
			1/24/2024 9:35	46.00	1.3	< 2 month	1.05	Dormant	0.162	9:34	N	
			1/25/2024 22:25	7.67	0.57	< 2 month	1.4	Dormant	0.092	4:21	N	
			1/27/2024 21:50	27.08	0.67	< 2 month	1.92	Dormant	0.049	3:47	N	
			1/28/2024 10:15	27.08	0.67	< 2 month	1.92	Dormant	0.438	133:43	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
1850141 Cont.			2/10/2024 7:35	3.83	0.36	< 2 month	0	Dormant	0.019	1:34	N	Banklick EQ/Conveyance (2034) Cont.
			2/28/2024 7:35	2.83	0.37	< 2 month	0.35	Dormant	0.035	1:56	N	
			3/5/2024 16:05	23.42	1.22	< 2 month	0.24	Dormant	0.048	2:23	N	
			3/6/2024 5:55	23.42	1.22	< 2 month	0.24	Dormant	0.146	8:10	N	
			3/15/2024 0:20	2.25	0.59	< 2 month	0.46	Dormant	0.103	4:05	N	
			4/1/2024 17:35	0.17	0.29	< 2 month	0.53	Growing	0.013	0:44	N	
			4/2/2024 7:37	12.08	1.26	2 month	0.58	Growing	0.266	13:43	N	
			4/4/2024 10:57	12.08	1.26	2 month	0	Growing	0.158	153:13	N	
			4/11/2024 7:31	28.75	2.07	< 6 month	0.16	Growing	0.246	14:04	N	
			4/12/2024 22:16	8.00	0.2	< 2 month	2.22	Growing	0.256	165:13	N	
			5/4/2024 10:05	1.83	1.21	9 month	0.47	Growing	0.100	2:13	N	
			5/7/2024 13:30	0.58	0.38	< 2 month	1.35	Growing	0.022	0:54	N	
			5/8/2024 1:10	6.68	1.2	> 6 month	1.73	Growing	0.092	2:06	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
1850141 Cont.			5/22/2024 9:25	1.42	0.39	< 2 month	0.07	Growing	0.029	0:59	N	Banklick EQ/Conveyance (2034) Cont.
			6/2/2024 8:25	3.17	0.38	< 2 month	0.26	Growing	0.012	0:54	N	
			6/5/2024 22:20	0.75	0.52	< 6 month	0.46	Growing	0.049	1:14	N	
1860108	-84.508653, 39.036049	Banklick Creek	1/9/2024 3:16	5.33	0.21	< 2 month	0	Dormant	0.171	18:45	N	Banklick EQ/Conveyance (2034)
			1/12/2024 15:06	10.33	0.62	< 2 month	1.73	Dormant	0.063	7:08	N	
			1/24/2024 9:31	46.00	1.3	< 2 month	1.05	Dormant	0.105	14:35	N	
			1/25/2024 22:40	7.67	0.57	< 2 month	1.4	Dormant	0.060	6:02	N	
			1/27/2024 23:00	27.08	0.67	< 2 month	1.92	Dormant	0.284	27:16	N	
			1/30/2024 16:25	7.08	0.12	< 2 month	2.23	Dormant	0.085	7:57	N	
			2/28/2024 8:20	2.83	0.37	< 2 month	0.35	Dormant	0.005	1:32	N	
			3/5/2024 16:40	23.42	1.22	< 2 month	0.24	Dormant	0.016	2:42	N	
			3/6/2024 5:57	23.42	1.22	< 2 month	0.24	Dormant	0.073	9:04	N	
			3/15/2024 0:50	2.25	0.59	< 2 month	0.46	Dormant	0.043	4:40	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
1860108 Cont.			4/2/2024 8:20	12.08	1.26	2 month	0.58	Growing	0.147	13:52	N	Banklick EQ/Conveyance (2034) Cont.
			4/11/2024 8:49	28.75	2.07	< 6 month	0.16	Growing	0.162	13:56	N	
			4/17/2024 8:50	4.67	0.28	< 2 month	2.29	Growing	0.013	1:48	N	
			5/4/2024 10:25	1.83	1.21	9 month	0.47	Growing	0.027	1:02	N	
			5/8/2024 1:30	6.68	1.2	> 6 month	1.73	Growing	0.078	5:04	N	
			6/5/2024 22:55	0.75	0.52	< 6 month	0.46	Growing	0.002	0:23	N	
1870018	-84.499529, 39.033927	Banklick Creek	3/15/2024 0:35	2.25	0.59	< 2 month	0.46	Dormant	0.004	0:38	N	Banklick EQ/Conveyance (2034)
			4/11/2024 16:15	28.75	2.07	< 6 month	0.16	Growing	0.011	0:59	N	
			5/4/2024 10:10	1.83	1.21	9 month	0.47	Growing	0.017	1:04	N	
			5/8/2024 1:15	6.68	1.2	> 6 month	1.73	Growing	0.016	0:58	N	
			6/5/2024 22:36	0.75	0.52	< 6 month	0.46	Growing	0.002	0:33	N	
1920097	-84.433000, 39.028000	Duck Creek	4/1/2024 17:38	0.10	0.05	< 2-month	0	Growing	0.002	0:59	N	Wolpert PS (2034)
1930001	-84.475739, 39.060679	UT to Threemile Creek	5/8/2024 1:50	14.50	2.64	< 5 year	1.05	Growing	0.004	0:43	N	Licking River Siphon Conveyance (2040)

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
1930009	-84.480329, 39.063777	UT to Threemile Creek	5/8/2024 1:20	14.50	2.64	< 5 year	1.05	Growing	0.005	3:50	N	Licking River Siphon Conveyance (2040)
1930010	-84.480276, 39.064371	UT to Threemile Creek	5/8/2024 1:15	14.50	2.64	< 5 year	1.05	Growing	0.021	3:50	N	Licking River Siphon Conveyance (2040)
1930012	-84.479361, 39.065882	UT to Threemile Creek	5/8/2024 1:15	14.50	2.64	< 5 year	1.05	Growing	0.125	3:23	N	Licking River Siphon Conveyance (2040)
1940006	-84.534620, 39.032334	Moser's Branch	4/2/2024 16:01	12.17	1.28	> 2 month	1.18	Growing	0.001	0:21	N	Lakeview (2040)
			4/11/2024 16:50	29.00	2.25	< 9 month	0.24	Growing	0.036	1:27	N	
			5/4/2024 10:55	1.50	1.71	< 5 year	0.47	Growing	0.019	0:54	N	
			5/8/2024 2:05	5.50	1.05	6 month	2.36	Growing	0.004	0:28	N	
1940023	-84.537827, 39.039327	Moser's Branch	5/4/2024 10:42	1.50	1.71	< 5 year	0.47	Growing	0.003	0:55	N	Lakeview (2040)
1940024	-84.538356, 39.039696	Moser's Branch	4/1/2024 17:55	0.58	0.83	< 2 year	0.64	Growing	0.002	0:28	N	Lakeview (2040)
			4/11/2024 16:50	29.00	2.25	< 9 month	0.24	Growing	0.002	0:33	N	
			5/4/2024 10:30	1.50	1.71	< 5 year	0.47	Growing	0.017	1:46	N	
			5/8/2024 1:35	5.50	1.05	6 month	2.36	Growing	0.007	1:16	N	
1940025	-84.538458, 39.040218	Moser's Branch	5/4/2024 10:35	1.50	1.71	< 5 year	0.47	Growing	0.003	0:38	N	Lakeview (2040)

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
1940027	-84.540022, 39.041449	Moser's Branch	1/25/2024 22:55	6.17	0.65	< 2 month	1.6	Dormant	0.005	0:29	N	Lakeview (2034)
			3/15/2024 0:50	2.08	0.6	< 2 month	0.36	Dormant	0.013	0:47	N	
			4/1/2024 17:50	0.58	0.83	< 2 year	0.64	Growing	0.009	0:30	N	
			4/11/2024 10:50	29.00	2.25	< 9 month	0.24	Growing	0.077	7:04	N	
			5/4/2024 10:25	1.50	1.71	< 5 year	0.47	Growing	0.124	1:60	N	
			5/8/2024 1:15	5.50	1.05	6 month	2.36	Growing	0.149	3:29	N	
1940044	-84.543486, 39.050617	Moser's Branch	5/4/2024 10:30	1.50	1.71	< 5 year	0.47	Growing	0.039	1:01	N	Lakeview (2040)
			5/8/2024 1:30	5.50	1.05	6 month	2.36	Growing	0.017	1:04	N	
1950010	-84.529224, 39.034633	Banklick Creek	1/9/2024 11:53	31.08	1.6	3 month	0.34	Dormant	0.263	8:42	N	Lakeview (2040)
			1/24/2024 12:56	47.50	1.49	< 2 month	0.15	Dormant	0.199	6:53	N	
			3/6/2024 10:05	22.00	1.53	< 2 month	0.27	Dormant	0.115	4:40	N	
			4/2/2024 10:50	12.17	1.28	> 2 month	1.18	Growing	0.515	13:44	N	
			4/11/2024 11:45	29.00	2.25	< 9 month	0.24	Growing	0.383	11:44	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
1950010 Cont.			5/8/2024 3:40	5.50	1.05	6 month	2.36	Growing	0.053	2:40	N	Lakeview (2040) Cont.
1950027	-84.524989, 39.041148	Banklick Creek	1/9/2024 12:15	31.08	1.6	3 month	0.34	Dormant	0.056	3:25	N	Lakeview (2040)
			1/24/2024 13:25	47.50	1.49	< 2 month	0.15	Dormant	0.045	3:59	N	
			3/6/2024 10:25	22.00	1.53	< 2 month	0.27	Dormant	0.010	1:49	N	
			4/2/2024 10:55	12.17	1.28	> 2 month	1.18	Growing	0.276	11:40	N	
			4/11/2024 12:00	29.00	2.25	< 9 month	0.24	Growing	0.231	8:60	N	
			5/8/2024 4:15	5.50	1.05	6 month	2.36	Growing	0.003	0:34	N	
1950036	-84.519178, 39.045160	UT to Banklick Creek	1/9/2024 12:10	5.33	0.21	< 2 month	0	Dormant	0.110	5:39	N	Lakeview (2040)
			1/24/2024 13:10	46.00	1.3	< 2 month	1.05	Dormant	0.110	4:45	N	
			3/6/2024 10:15	23.42	1.22	< 2 month	0.24	Dormant	0.047	2:50	N	
			4/2/2024 10:55	12.08	1.26	2 month	0.58	Growing	0.341	11:44	N	
			4/11/2024 11:50	28.75	2.07	< 6 month	0.16	Growing	0.314	9:45	N	
			5/8/2024 2:50	6.68	1.2	> 6 month	1.73	Growing	0.076	3:05	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
1960002	-84.536594, 39.031643	Horse Branch	5/4/2024 11:05	1.50	1.71	< 5 year	0.47	Growing	0.004	0:28	N	Lakeview (2040)
1990018	-84.528748, 39.016262	Banklick Creek	4/2/2024 15:40	12.17	1.28	> 2 month	1.18	Growing	0.121	5:38	N	Lakeview (2040)
			4/11/2024 17:25	29.00	2.25	< 9 month	0.24	Growing	0.070	1:53	N	
2020035	-84.519138, 38.992666	Wayman or Hands Branch	1/9/2024 7:16	31.17	1.39	< 2 month	0.32	Dormant	0.038	11:48	N	Lakeview (2040)
			1/12/2024 16:10	15.92	0.62	< 2 month	1.61	Dormant	0.007	1:11	N	
			1/24/2024 11:40	47.08	1.27	< 2 month	0.15	Dormant	0.033	5:15	N	
			3/5/2024 17:30	22.00	1.16	< 2 month	0.26	Dormant	0.001	0:27	N	
			3/6/2024 9:05	22.00	1.16	< 2 month	0.26	Dormant	0.011	2:20	N	
			3/15/2024 1:55	2.08	0.51	< 2 month	0.43	Dormant	0.001	0:28	N	
			4/2/2024 8:51	13.00	1.67	< 6 month	0.61	Growing	0.199	14:59	N	
			4/11/2024 16:10	30.42	1.56	> 2 month	0.15	Growing	0.067	4:20	N	
			5/4/2024 10:55	2.33	0.73	> 2 month	0.53	Growing	0.018	1:09	N	
			5/8/2024 2:10	7.08	0.61	< 3 month	1.35	Growing	0.024	1:23	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
2020203	-84.518312, 38.992253	Waymans Branch	4/2/2024 14:45	13.00	1.67	< 6 month	0.61	Growing	0.021	6:17	N	Lakeview (2040)
			4/11/2024 16:15	30.42	1.56	> 2 month	0.15	Growing	0.005	1:09	N	
2020860	-84.518144, 38.991807	Waymans Branch	4/2/2024 14:45	13.00	1.67	< 6 month	0.61	Growing	0.028	6:03	N	Lakeview (2040)
			4/11/2024 16:17	30.42	1.56	> 2 month	0.15	Growing	0.002	0:54	N	
2030031	-84.545597, 38.995830	Bullock Pen Creek	4/2/2024 15:25	13.00	1.67	< 6 month	0.61	Growing	0.002	0:38	N	Brookwood SSO (2029)
2100057	-84.611764, 39.001294	UT to Bullock Pen Creek	1/25/2024 22:42	7.08	0.71	< 2 month	1.53	Dormant	0.002	0:45	N	Lakeview (2040)
2100126	-84.612300, 39.001555	UT to Bullock Pen Creek	1/25/2024 22:45	7.08	0.71	< 2 month	1.53	Dormant	0.002	0:29	N	Lakeview (2040)
2110006	-84.606363, 39.004057	UT to Bullock Pen Creek	1/25/2024 22:40	7.08	0.71	< 2 month	1.53	Dormant	0.025	1:14	N	Lakeview (2040)
			3/5/2024 15:55	21.58	1.27	< 2 month	0.15	Dormant	0.009	0:39	N	
			4/2/2024 14:55	12.42	1.18	< 2 month	0.55	Growing	0.003	0:33	N	
			5/8/2024 0:50	13.08	0.91	9 month	1.59	Growing	0.055	2:13	N	
2160004	-84.545576, 39.028318	UT to Horse Branch	5/4/2024 10:40	1.50	1.71	< 5 year	0.47	Growing	0.012	0:49	N	Lakeview (2040)
2160005	-84.546051, 39.028636	UT to Horse Branch	5/4/2024 10:45	1.50	1.71	< 5 year	0.47	Growing	0.006	0:35	Y	Lakeview Conveyance (2034)

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
2160006	-84.546321, 39.028937	UT to Horse Branch	5/4/2024 10:50	1.50	1.71	< 5 year	0.47	Growing	0.003	0:24	Y	Lakeview Conveyance (2034)2
2170097	-84.550366, 39.025928	UT to Horse Branch	5/4/2024 10:45	1.50	1.71	< 5 year	0.47	Growing	0.006	0:31	N	Lakeview (2040)
2210009	-84.387178, 38.977331	UT to Tug Creek	4/11/2024 12:20	29.75	1.95	> 4 month	0.04	Growing	0.004	1:56	N	Eastern Regional (2040)
2210050	-84.390543, 38.980709	UT to Tug Creek	4/11/2024 10:55	29.75	1.95	> 4 month	0.04	Growing	0.018	4:05	N	Eastern Regional (2040)
2300011	-84.538000, 38.985000	Banklick Creek	1/9/2024 7:51	31.17	1.39	< 2 month	0.32	Dormant	0.044	7:53	N	W6 Improvements (2029)/Lakeview (2040)
			1/24/2024 11:30	47.08	1.27	< 2 month	0.15	Dormant	0.027	5:04	N	
			3/6/2024 8:18	22.00	1.16	< 2 month	0.26	Dormant	0.019	4:48	N	
			4/2/2024 9:21	13.00	1.67	< 6 month	0.61	Growing	0.094	14:09	N	
			4/11/2024 16:08	30.42	1.56	> 2 month	0.15	Growing	0.017	4:03	N	
2300013	-84.539668, 38.984153	Banklick Creek	1/9/2024 7:45	31.17	1.39	< 2 month	0.32	Dormant	0.496	16:33	N	W6 Improvements (2029)/Lakeview (2040)
			1/12/2024 16:30	15.92	0.62	< 2 month	1.61	Dormant	0.165	6:51	N	
			1/24/2024 11:20	47.08	1.27	< 2 month	0.15	Dormant	0.375	12:57	N	
			1/25/2024 23:45	8.08	0.4	< 2 month	1.42	Dormant	0.061	3:09	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
2300013 Cont.			1/28/2024 0:05	32.00	0.63	< 2 month	1.78	Dormant	0.025	1:43	N	W6 Improvements (2029)/Lakeview (2040) Cont.
			3/5/2024 17:00	22.00	1.16	< 2 month	0.26	Dormant	0.142	6:09	N	
			3/6/2024 7:40	22.00	1.16	< 2 month	0.26	Dormant	0.277	10:02	N	
			3/15/2024 2:35	2.08	0.51	< 2 month	0.43	Dormant	0.007	1:01	N	
			4/2/2024 9:15	13.00	1.67	< 6 month	0.61	Growing	0.551	16:04	N	
			4/11/2024 10:35	30.42	1.56	> 2 month	0.15	Growing	0.394	14:34	N	
2300019	-84.543000, 38.978000	Banklick Creek	3/5/2024 17:41	22.00	1.16	< 2 month	0.26	Dormant	0.002	0:41	N	W6 Improvements (2029)/Lakeview (2040)
			3/6/2024 9:43	22.00	1.16	< 2 month	0.26	Dormant	0.012	2:32	N	
			4/2/2024 10:15	13.00	1.67	< 6 month	0.61	Growing	0.075	10:32	N	
			4/11/2024 11:59	30.42	1.56	> 2 month	0.15	Growing	0.040	9:56	N	
2300027	-84.549000, 38.975000	Banklick Creek	4/2/2024 10:36	13.00	1.67	< 6 month	0.61	Growing	0.057	8:10	N	W6 Improvements (2029)/Lakeview (2040)
			4/11/2024 16:46	30.42	1.56	> 2 month	0.15	Growing	0.076	4:36	N	
2300107	-84.576681, 38.952319	Banklick Creek	4/2/2024 15:00	12.33	1.29	> 2 month	0.61	Growing	0.001	0:24	N	Western Regional (2034)

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
2300121	-84.579000, 38.943000	Banklick Creek	1/9/2024 13:15	33.75	1.34	< 2 month	0.31	Dormant	0.016	1:41	N	Western Regional (2034)
			1/24/2024 12:55	47.75	1.26	< 2 month	0.16	Dormant	0.022	3:31	N	
			3/5/2024 16:30	23.17	1.51	< 2 month	0.27	Dormant	0.039	1:39	N	
			3/6/2024 8:55	23.17	1.51	< 2 month	0.27	Dormant	0.036	2:49	N	
			4/2/2024 9:05	12.33	1.29	> 2 month	0.61	Growing	0.190	8:29	N	
			4/11/2024 10:20	28.92	2.02	< 6 month	0.17	Growing	0.174	8:53	N	
2300123	-84.581000, 38.942000	Banklick Creek	4/2/2024 9:54	12.33	1.29	> 2 month	0.61	Growing	0.005	6:05	N	Western Regional (2034)
			4/11/2024 16:20	28.92	2.02	< 6 month	0.17	Growing	0.005	0:42	N	
2301219	-84.541256, 38.980638	Banklick Creek	1/9/2024 8:05	31.17	1.39	< 2 month	0.32	Dormant	0.436	14:47	N	W6 Improvements (2029)/Lakeview (2040)
			1/12/2024 16:40	15.92	0.62	< 2 month	1.61	Dormant	0.123	5:04	N	
			1/24/2024 11:35	47.08	1.27	< 2 month	0.15	Dormant	0.419	11:26	N	
			1/26/2024 0:00	8.08	0.4	< 2 month	1.42	Dormant	0.021	2:04	N	
			3/5/2024 17:00	22.00	1.16	< 2 month	0.26	Dormant	0.171	4:47	N	

SSO	Location	Receiving Water	Date / Time	Storm Event Duration (hrs)	Total Rainfall (in)	Duration Storm Frequency	1 Week Antecedent Rainfall (in)	Antecedent Season (Dormant - Nov - Mar; Growing - April - Oct)	Spill Volume (MG)	Spill Duration (hrs:min)	OF with 2040 Improvements	Project
2301219 Cont.			3/6/2024 7:45	22.00	1.16	< 2 month	0.26	Dormant	0.369	8:19	N	W6 Improvements (2029)/Lakeview (2040) Cont.
			4/2/2024 9:15	13.00	1.67	< 6 month	0.61	Growing	0.909	15:18	N	
			4/11/2024 10:40	30.42	1.56	> 2 month	0.15	Growing	0.537	13:36	N	
2370003	-84.738540, 39.074793	Woolper Creek	1/9/2024 11:15	33.75	1.73	< 4 month	0.3	Dormant	0.050	10:52	N	Bullitsville EQ
			1/24/2024 12:40	65.00	2.17	> 3 month	0.1	Dormant	0.098	8:23	N	
			1/25/2024 23:15	65.00	2.17	> 3 month	0.1	Dormant	0.080	2:56	N	
			1/28/2024 0:15	27.75	1.12	< 2 month	2.26	Dormant	0.031	1:47	N	
			1/28/2024 10:25	27.75	1.12	< 2 month	2.26	Dormant	0.102	7:20	N	
			4/2/2024 11:05	12.08	1.33	4 month	0.73	Growing	0.132	11:57	N	
			4/11/2024 11:00	30.17	1.53	> 2 month	0.16	Growing	0.038	2:54	N	
2410459	-84.689184, 39.013086	Gunpowder Creek	1/24/2024 12:43	65.00	2.17	> 3 month	0.1	Dormant	0.003	3:27	N	Western Regional (2034)
			1/28/2024 9:56	27.75	1.12	< 2 month	2.26	Dormant	0.026	6:30	N	
			3/6/2024 9:52	20.33	0.56	< 2 month	0.23	Dormant	0.002	1:38	N	

2.4.1. Modeled Wet Weather SSOs without UWSP Mitigation Project

The SSOs indicated above in red do not currently have a mitigating project in the UWSP; however, each of these overflow events occurred during storms that well exceed the 2-year storm recurrence interval.

2.4.2. Modeled Wet Weather SSOs with Mitigation Project

The SSOs indicated above in blue have a mitigation project designed for the 2-year 6-hour event; however, the storm recurrence interval was of such magnitude that the SSO would have occurred even upon completion of the mitigating project. The storm events associated with each of these SSOs was at a minimum approaching the 5-year recurrence interval.