

Clean Water 2020 Program

CONSENT DECREE QUARTERLY REPORT

January 1, 2024 – March 31, 2024

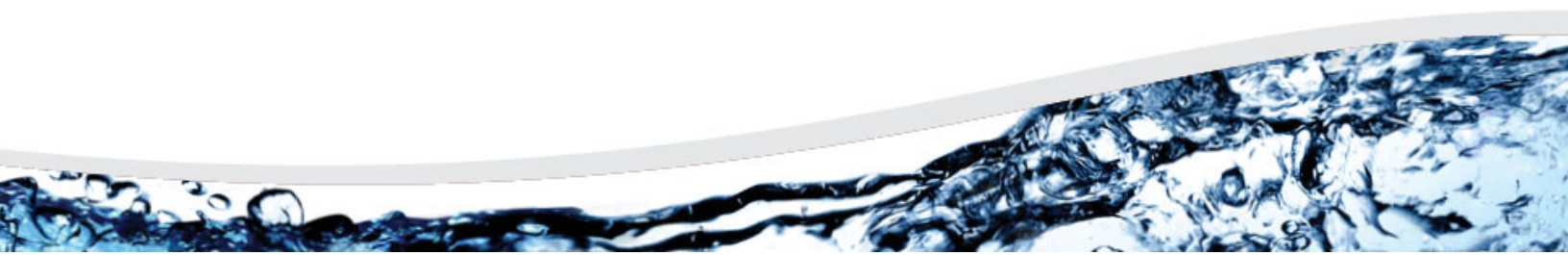


Table of Contents

Section 1	Introduction	3
1.1	Summary of Reporting Requirements	3
1.2	Report Organization	3
Section 2	Schedule of Projects and Activities	5
Section 3	Additional Information Demonstrating Implementation of Consent Decree Requirements ...	8
3.1	Infrastructure Rehabilitation Report (IRR) for the WCTS.....	8
3.2	Sewer System Hydraulic Model	10
Section 4	Quarterly SSO Report.....	11

List of Tables

Table 1 – SSO Report, 1 st Quarter 2024	11
Table 2 – Building Backup Report, 1 st Quarter 2024.....	13

Section 1 Introduction

1.1 Summary of Reporting Requirements

On May 21, 2014, the City of Columbia (City) entered into a Consent Decree (CD) with the United States Environmental Protection Agency (EPA), the United States Department of Justice (DOJ) and the South Carolina Department of Health and Environmental Control (SCDHEC). To fulfill the reporting requirements as defined in Section IX.39.a of the CD, the City has prepared this *Quarterly Report* that includes the following information (as excerpted from the CD):

1. A description of all projects and activities conducted during the most recently completed calendar quarter to comply with the requirements of this Consent Decree, in Gantt chart or similar format. This description shall include completion percentages of early action capital improvement projects under Paragraph 10, continuing sewer assessments under the CSAP, and the subsequent remedial actions under the IR Report;
2. The date, time, location, source, duration, estimated volume, receiving water (if any), cause, and actions taken to repair or otherwise resolve the cause of all SSOs for the most recently completed quarter in a tabulated electronic format;
3. The anticipated projects and activities that will be performed in the next quarter to comply with the requirements of this Consent Decree, in Gantt chart or similar format;
4. Any additional information that demonstrates that Columbia is implementing the remedial measures required in this Consent Decree

1.2 Report Organization

This Quarterly Report is organized as follows:

Section 1 – Introduction

This section includes a summary of the reporting requirements and describes the report organization.

Section 2 – Schedule of Projects and Activities

This section addresses the requirements of Sections IX.39.a.(i) and IX.39.a.(iii) of the Consent Decree. The section includes the projects and activities conducted during the most recently completed calendar quarter to comply with the requirements of the CD as well as the anticipated projects and activities that will be performed in the next quarter to comply with the requirements of the CD. A Gantt chart schedule of these activities is provided and includes completion percentages of remedial actions under the IR Report, as applicable.

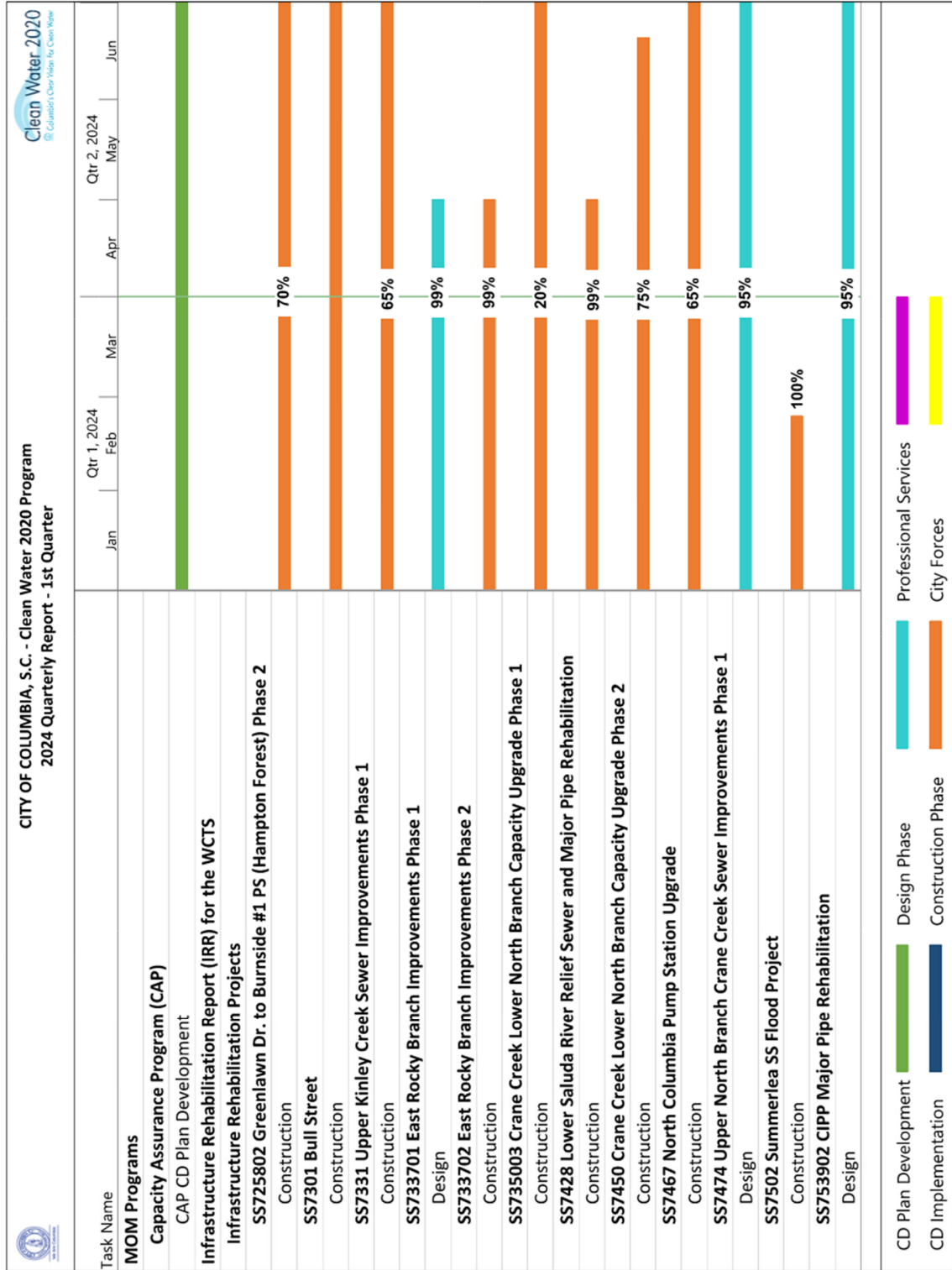
Section 3 – Additional Information Demonstrating Implementation of Consent Decree Requirements

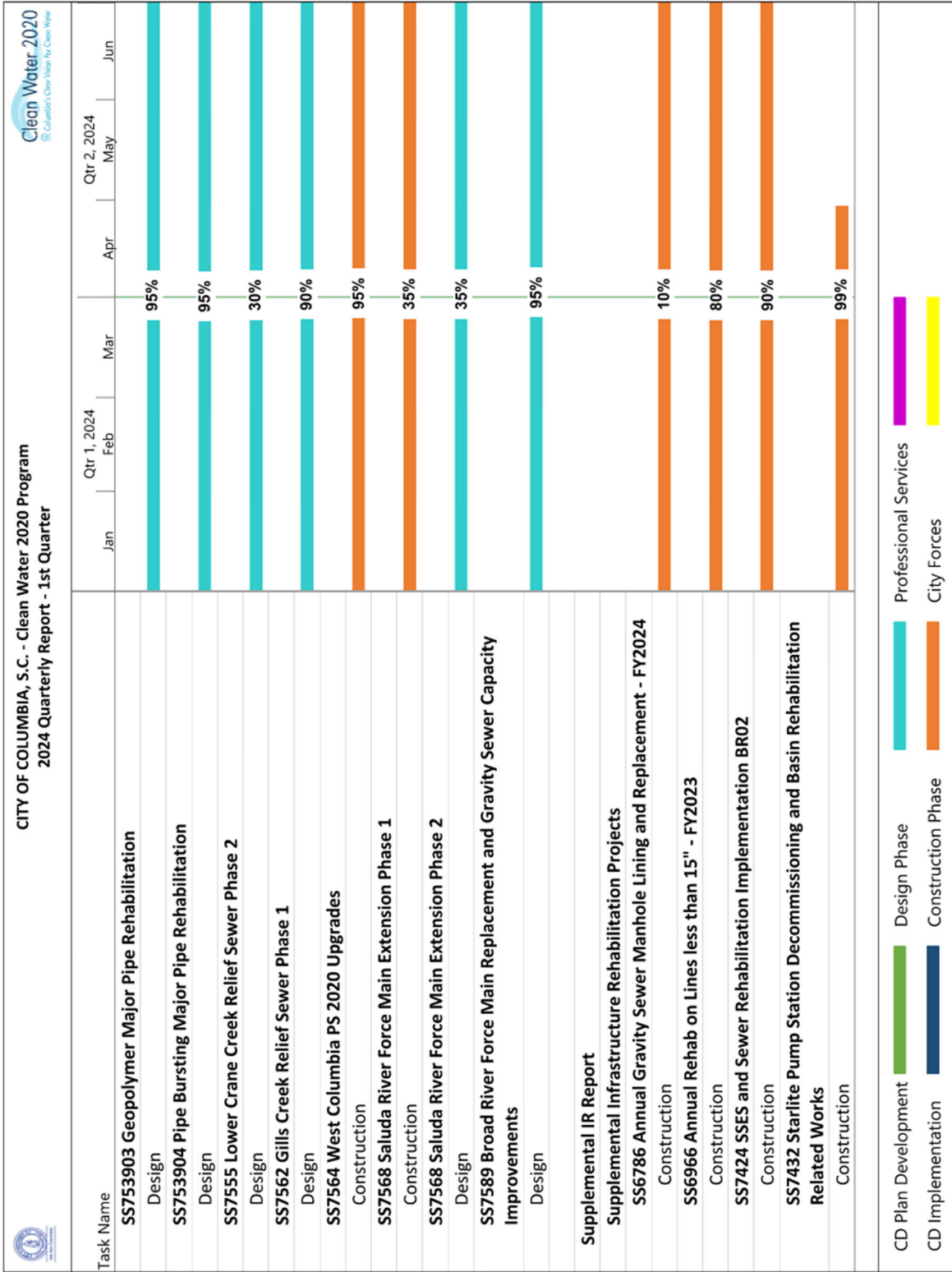
This section addresses the requirements of Section IX.39.a.(iv) of the Consent Decree and includes additional information that demonstrates that Columbia is implementing the remedial measures required in the CD. Information supplemental to that which is provided in Section 2 is provided in this section.

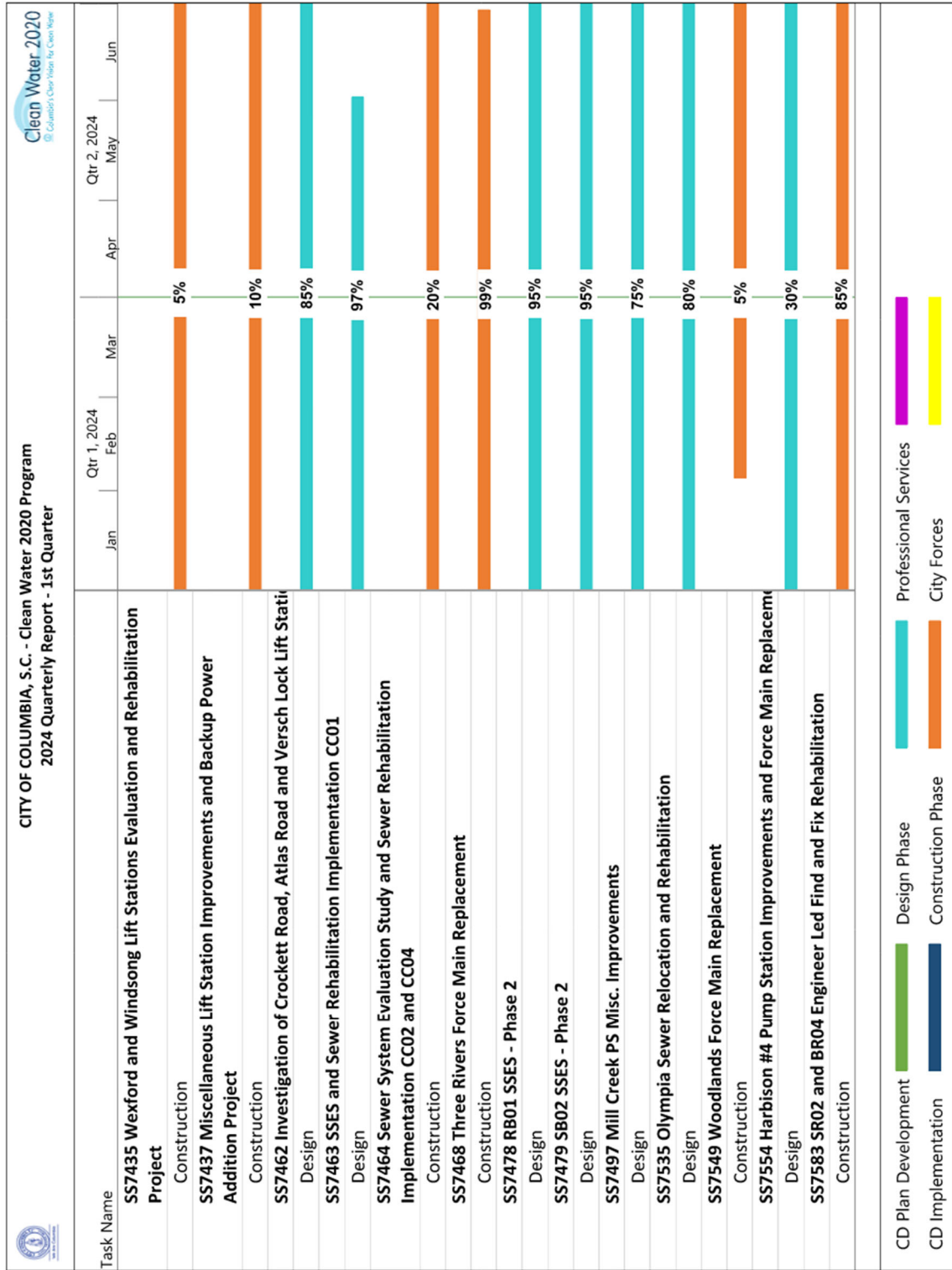
Section 4 – Quarterly SSO Report

This section addresses the requirements of Section IX.39.a.(ii) of the Consent Decree and provides a tabular listing of sanitary sewer overflows (SSOs). The table includes the date, time, location, source, duration, estimated volume, receiving water (if any), cause, and actions taken to repair or otherwise resolve the cause of all SSOs that occurred during the most recently completed calendar quarter.

Section 2 Schedule of Projects and Activities







Section 3 Additional Information Demonstrating Implementation of Consent Decree Requirements

In accordance with Section IX.39.a.(iv) of the CD, the following section provides additional information that demonstrates that the City is implementing the remedial measures required in the CD.

The City notified the U.S. Department of Justice, the U.S. Environmental Protection Agency, and the South Carolina Department of Health and Environmental Control of a *force majeure* event starting on March 13, 2020. On this date, the Governor of South Carolina declared a state of emergency based on a determination that COVID-19 posed an imminent public health emergency for the State, and on March 17, 2020 the Mayor and City Council declared a local state of emergency in the City. On April 7, 2020, the City submitted a written *force majeure* notice and requested to provide additional information required under Paragraph 56 of the Consent Decree once the COVID-19 pandemic is contained and the City is better able to fully assess the impacts on its performance of its Consent Decree obligations. On February 5, 2021, the City submitted an interim report on the impacts of the *force majeure* event. On April 18, 2023, the City submitted the Final Report for the City's notice of a *force majeure* event due to COVID-19. The City submitted additional information in support of the City's Final Report on December 14, 2023.

3.1 Infrastructure Rehabilitation Report (IRR) for the WCTS

In accordance with Section V.16 of the CD, the City shall submit an Infrastructure Rehabilitation Report (IRR) summarizing the results of the CSAP of the major components of the WCTS and a description of proposed rehabilitation projects. The IRR was submitted to EPA and SCDHEC on November 22, 2019. The City is awaiting EPA and SCDHEC review and approval of the IRR.

As rehabilitation projects are identified in the normal course of operations and maintenance, the City is proceeding with design and construction of those projects. Completion percentages of projects currently in progress are as follows:

- SS725802 Greenlawn Dr. to Burnside #1 PS (Hampton Forest) Phase 2 – Construction 70% Complete
- SS7301 Bull Street – Construction in Progress; a completion percentage cannot be provided due to a varying scope of work and timeline for this project.
- SS7331 Upper Kinley Creek Sewer Improvements Phase 1 – Construction 65% Complete
- SS733701 East Rocky Branch Improvements Phase 1 – Design 99% Complete
- SS733702 East Rocky Branch Improvements Phase 2 – Construction 99% Complete
- SS735003 Crane Creek Lower North Branch Capacity Upgrade Phase 1 – Construction 20% Complete
- SS7428 Lower Saluda River Relief Sewer and Major Pipe Rehabilitation – Construction 99% Complete

- SS7450 Crane Creek Lower North Branch Capacity Upgrade Phase 2 – Construction 75% Complete
- SS7467 North Columbia Pump Station Upgrade – Construction 65% Complete
- SS7474 Upper North Branch Crane Creek Sewer Improvements Phase 1 – Design 95% Complete
- SS7502 Summerlea SS Flood Project – Construction 100% Complete
- SS753902 CIPP Major Pipe Rehabilitation – Design 95% Complete
- SS753903 Geopolymer Major Pipe Rehabilitation – Design 95% Complete
- SS753904 Pipe Bursting Major Pipe Rehabilitation – Design 95% Complete
- SS7555 Lower Crane Creek Relief Sewer Phase 2 – Design 30% Complete
- SS7562 Gills Creek Relief Sewer Phase 1 – Design 90% Complete
- SS7564 West Columbia Pump Station Improvements – Construction 95% Complete
- SS7568 Saluda River Force Main Extension Phase 1 – Construction 35% Complete
- SS7568 Saluda River Force Main Extension Phase 2 – Design 35% Complete
- SS7589 Broad River Force Main Replacement and Gravity Sewer Capacity Improvements – Design 95% Complete

In accordance with Section V.16.c of the CD, the City shall submit a Supplemental Infrastructure Rehabilitation Report (SIRR) which shall update all portions of the IRR to reflect additional information developed by the City through completion of the CSAP of the minor components of the WCTS. The SIRR was submitted to EPA and SCDHEC on November 22, 2022. The City is awaiting EPA and SCHEC review and approval of the SIRR.

As rehabilitation projects are identified in the normal course of operations and maintenance, the City is proceeding with design and construction of those projects. Completion percentages of projects currently in progress are as follows:

- SS6786 Annual Gravity Sewer Manhole Lining and Replacement – FY2024 Construction 10% Complete
- SS6966 Annual Rehab on Lines less than 15” – FY2023 Construction 80% Complete
- SS7424 Sewer System Evaluation Study and Sewer Rehabilitation Implementation BR02 – Construction 90% Complete
- SS7432 Starlite PS Decommissioning and Basin Rehabilitation Related Works – Construction 99% Complete
- SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation Project – Construction 5% Complete
- SS7437 Miscellaneous Lift Station Improvements and Backup Power Addition – Construction 10% Complete
- SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Stations – Design 85% Complete
- SS7463 SSES and Sewer Rehabilitation Implementation CC01 – Design 97% Complete
- SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implementation CC02 and CC04 – Construction 20% Complete

- SS7468 Three Rivers Force Main Replacement – Construction 99% Complete
- SS7478 Rocky Branch 01 SSES Phase 2 – Design 95% Complete
- SS7479 Smith Branch 02 SSES Phase 2 – Design 95% Complete
- SS7497 Mill Creek PS Miscellaneous Improvements – Design 75% Complete
- SS7535 Olympia Sanitary Sewer Relocation and Rehabilitation – Design 80% Complete
- SS7549 Woodlands Force Main Replacement – Construction 5% Complete
- SS7554 Harbison #4 Pump Station Improvements and Force Main Replacement – Design 30% Complete
- SS7583 SR02 and BR04 Engineer Led Find and Fix Rehabilitation – Construction 85% Complete

3.2 Sewer System Hydraulic Model

The Hydraulic Model Report was submitted to EPA and SCDHEC on August 21, 2020. The City received final approval of the Hydraulic Model Report from EPA and SCDHEC on April 4, 2024.

Section 4 Quarterly SSO Report

In accordance with Section IX.39.a.(ii) of the CD, the City is to provide a list of all SSOs that occurred during the reporting period in a tabular format along with information on the date, time, location, source, duration, estimated volume, receiving water, cause, and actions taken to resolve the SSO.

Table 1 – SSO Report, 1st Quarter 2024

City of Columbia, SC Quarterly SSO Listing 1st Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
1/2/2024	12:45	251 Lakeside Ave, Columbia, SC 29203	Cleanout	1/19/2024	12:00	90		Roots	Removed Blockage To Resume Normal Flow. Service Line Root Cut.
1/4/2024	15:03	4480 Rosewood Dr, Columbia, SC 29209	Manhole	TBD		220	Storm Drain Feeding Gills Creek	Collapsed Line	Removed Blockage To Resume Normal Flow. Mainline Repair Pending Contractor.
1/6/2024	17:00	14 Thistle Ct, Irmo, SC 29063	Cleanout	1/6/2024	12:00	36		Debris	Washed Main Line To Remove Debris And Resume Normal Flow. Washed 21996MH 21995MH To Clear Debris.
1/8/2024	12:57	7214 Leitner Rd, Columbia, SC 29209	Cleanout	2/16/2024	12:00	13		Roots	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Line Rodded.
1/10/2024	12:51	2521 Palmland Dr, Columbia, SC 29209	Cleanout	1/10/2024	13:40	7		Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow. Washed Service Line To Remove Stoppage.
1/14/2024	20:10	1385 Railfence Dr, Columbia, SC 29212	Cleanout	2/5/2024	14:30	5		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
1/16/2024	11:00	5204 N Main St, Columbia, SC 29203	Cleanout	3/4/2024	12:00	2		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
1/16/2024	12:30	3110 Duncan St, Columbia, SC 29205	Cleanout	3/4/2024	12:00	38		Roots	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Line Root Cut.
1/16/2024	16:30	401 Pitney Rd, Columbia, SC 29212	Cleanout	2/3/2024	15:00	101		Roots	Washed Main Line 19662MH_19884MH To Remove Stoppage And Resume Normal Flow. Tap Repair.
1/18/2024	16:00	1721 Shivers Rd, Columbia, SC 29210	Manhole	TBD		33275	Unnamed Tributary To Broad River	Roots	Washed Main Line To Resume Normal Flow. Main Line Repair To Be Done.
1/20/2024	11:30	3359 Makeway Dr, Columbia, SC 29201	Manhole	2/29/2024	15:30	47		Roots	Removed Blockage To Resume Normal Flow. Main Line Repair.
1/22/2024	13:43	1017 Drake St, Columbia, SC 29209	Cleanout	TBD		1		Debris	Washed Service Line To Resume Normal Flow. Service Line Tap Cut Out To Be Done.
1/29/2024	09:57	1546 Beasley Creek Dr, Blythewood, SC 29016	Cleanout	2/9/2024	14:30	24	Storm Drain	Roots	Washed Service Line To Resume Normal Flow. Service Line Point Repair.
1/30/2024	15:40	75 Madera Dr, Columbia, SC 29203	Manhole	1/31/2024	12:00	16	Storm Drain	Grease	Washed Main Line To Resume Normal Flow. Manhole Cleaned.
1/30/2024	19:58	3832 Shaw St, Columbia, SC 29203	Manhole	2/1/2024	08:00	28020	Unnamed Tributary To Smith Branch	Grease	Setup Bypass Pump. Preventive Main Line Wash.
2/1/2024	16:00	1509 Craven St, Columbia, SC 29203	Cleanout	2/12/2024	12:00	86		Roots	Root Cut Service Line To Resume Normal Flow. Service Lateral CIPP.
2/3/2024	16:40	120 Hartwood Cir, Columbia, SC 29212	Cleanout	3/10/2024	12:00	19		Collapsed Line	Service Line Root Cut To Resume Normal Flow. Service Lateral Point Repair.
2/6/2024	11:00	121 Saddlefield Rd, Columbia, SC 29203	Cleanout	2/22/2024	12:00	622		Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Point Repair.
2/7/2024	13:48	Pickens St & Calway Aly, Columbia, SC 29201	Manhole	2/8/2024	14:47	150	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Washed.
2/7/2024	09:01	147 Cheshire Dr, Columbia, SC 29210	Cleanout	TBD		302		Grease	Washed Main Line From 18167MH To Remove Stoppage And Resume Normal Flow. Mainline Rehabilitation To Be Done.
2/8/2024	19:05	521 Lawand Dr, Columbia, SC 29210	Manhole	N/A		3636		Third Party Responsibility	Washed Main Line 38554MH_38544MH To Remove Stoppage And Resume Normal Flow.
2/9/2024	21:00	2302 Ramsgate Dr, Columbia, SC 29210	Manhole	TBD		43		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Manhole Repair To Be Done.
2/12/2024	12:30	3408 Elmhurst Rd, Columbia, SC 29203	Cleanout	2/21/2024	12:00	3		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral CIPP.

City of Columbia, SC Quarterly SSO Listing 1st Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
2/13/2024	09:00	112 Rodborough Rd, Columbia, SC 29212	Manhole	2/27/2024	12:00	2960	Rawls Creek	Collapsed Line	Bypass Pump Put In Place. Main Line Repair.
2/17/2024	18:39	2144 Rolling Hills Rd, Columbia, SC 29210	Cleanout	4/8/2024	14:00	969	Unnamed Creek That Feeds Broad River	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow. Root Cut Main Line Approx 20' To Clear Blockage.
2/16/2024	23:10	2403 Preston St, Columbia, SC 29205	Cleanout	2/20/2024	15:00	87		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
2/19/2024	13:48	1320 Heidt St, Columbia, SC 29204	Cleanout	2/28/2024	12:00	10	Storm Drain	Roots	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral CIPP.
2/21/2024	01:30	5700 Koon Rd, Columbia, SC 29203	Manhole	3/8/2024	12:00	425	Storm Drain	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair.
2/23/2024	10:00	261 Business Park Blvd, Columbia, SC 29203	Manhole	3/4/2024	12:00	1590	Cumbess Creek	Collapsed Line	Washed Main Line To Resume Normal Flow. Main Line Repair.
2/23/2024	15:40	1121 Columbia College Dr, Columbia, SC 29203	Other	2/29/2024	12:00	4	Unnamed Tributary To Crane Creek	Collapsed Line	Called For Immediate Repair. Erosion Repair. Per Cw: Service Line Tap Repair.
2/23/2024	16:30	1824 Barnwell St, Columbia, SC 29201	Cleanout	2/27/2024	15:00	94	Storm Drain	Collapsed Line	Attempted To Wash Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
2/27/2024	14:00	336 Ballybridle Ln, Blythewood, SC 29016	Manhole	3/4/2024	08:14	2879	Swygert Creek	Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair.
3/1/2024	18:27	200 Candi Ln, Columbia, SC 29210	Manhole	N/A		3225	Saluda River	Wet Weather	Wet Weather - Observation Only.
3/2/2024	14:20	100 Lorick Cir, Columbia, SC 29203	Manhole	3/3/2024	12:00	6000	Smith Branch	Debris	Washed Main Line To Attempt To Remove Stoppage And Resume Normal Flow. Manhole Clean.
3/4/2024	16:55	2601 Laurel St, Columbia, SC 29204	Cleanout	TBD		435		Roots	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Line Repair To Be Done.
3/6/2024	07:30	200 Candi Ln, Columbia, SC 29210	Manhole	N/A		1875	Saluda River	Wet Weather	Wet Weather - Observation Only.
3/6/2024	11:00	4122 River Dr, Columbia, SC 29203	Manhole	N/A		41851	Broad River	Wet Weather	Wet Weather - Observation Only.
3/6/2024	11:20	521 Lawand Dr, Columbia, SC 29210	Manhole	TBD		30	Storm Drain	Pump Station Failure	New Pump On Order As Part Of SCDOT Utility Relocation Project.
3/6/2024	13:11	1800 Longcreek Dr, Columbia, SC 29210	Manhole	N/A		22013		Wet Weather	Increased Bypass Pump Capacity. New Pump On Order.
3/7/2024	11:05	410 Sunset Blvd, West Columbia, SC 29169	Manhole	N/A		85		Wet Weather	Wet Weather - Observation Only.
3/7/2024	13:19	196 Shop Grove Dr, Columbia, SC 29209	Manhole	3/21/2024	12:24	124		Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair.
3/7/2024	10:10	3413 Bronte Rd, Columbia, SC 29210	Manhole	TBD		1185	Creek	Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Repair To Be Done.
3/7/2024	16:55	6325 Yorkshire Dr, Columbia, SC 29209	Cleanout	N/A		75		Wet Weather	Wet Weather - Observation Only.
3/12/2024	11:54	1640 Saint Julian Pl, Columbia, SC 29204	Manhole	TBD		431		Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair To Be Done.
3/14/2024	13:27	326 Lakeridge Pkwy, Columbia, SC 29203	Manhole	4/2/2024	14:30	4317	Crane Creek	Roots	Washed Main Line To Remove The Stoppage And Resume Normal Flow. Main Line CIPP.
3/16/2024	13:00	5779 Ames Rd, Columbia, SC 29203	Cleanout	3/16/2024	12:00	337		Grease	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Line Washed.
3/19/2024	10:30	153 Garden Springs Rd, Columbia, SC 29209	Cleanout	3/26/2024	12:00	19		Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Line Tap Repair.
3/21/2024	18:00	2307 Blossom St, Columbia, SC 29205	Cleanout	TBD		47		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Line Repair To Be Done.
3/24/2024	12:25	1343 Sunnyside Dr, Columbia, SC 29204	Manhole	TBD		425		Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Repair To Be Done.
3/24/2024	09:55	1916 Sapling Dr, Columbia, SC 29210	Cleanout	3/24/2024	12:00	50		Debris	Removed Rags From 17564MH.
3/26/2024	01:11	200 Candi Ln, Columbia, SC 29210	Manhole	N/A		20440	Saluda River	Third Party Responsibility	Contractor Restarted Bypass Pump.
3/26/2024	18:20	63 Downing St, Columbia, SC 29209	Manhole	3/27/2024	12:00	1483	Unnamed Tributary To	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Washed.

As noted in Section IV.8.a of the CD, a Building Backup is defined as a release of wastewater into a building or onto private property that is caused by blockages, flow conditions, or other malfunctions in the WCTS.

Separate from the SSO listing provided in Table 1 above, the following table identifies building backups within the City’s system for the current reporting period.

Table 2 – Building Backup Report, 1st Quarter 2024

City of Columbia, SC Quarterly Building Backup Listing 1st Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
1/5/2024	16:00	3648 Harrogate Rd, Columbia, SC 29210	City	1/8/2024	12:00	1		Debris	Washed Service Line To Remove Blockage And Resume Normal Flow. Washed Main Line To Clear Debris.
1/20/2024	17:30	1725 Grays Inn Rd, Columbia, SC 29210	City	1/20/2024	12:00	16		Roots	Removed Blockage To Resume Normal Flow. Main Line Root Cut.
2/13/2024	16:00	1623 Marion St, Columbia, SC 29201	City	TBD		1		Collapsed Line	Service Lateral Point Repair To Be Done.
2/13/2024	16:30	1328 Blanding St, Columbia, SC 29201	City	TBD		1		Collapsed Line	Service Lateral Point Repair To Be Done.