

# Clean Water 2020 Program

## **CONSENT DECREE QUARTERLY REPORT**

April 1, 2023 – June 30, 2023



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## 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.



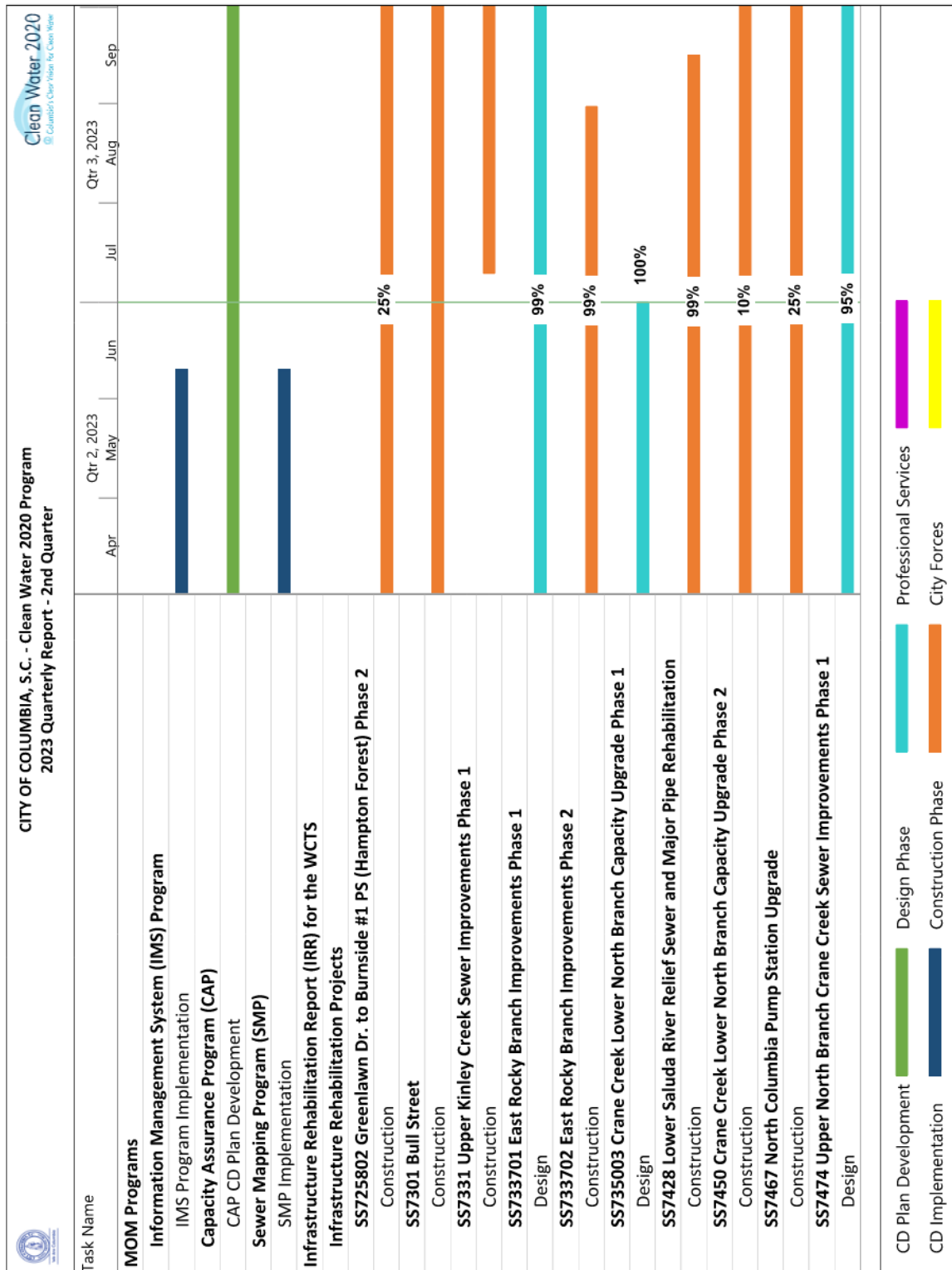
**Section 3 – Additional Information Demonstrating Implementation of Consent Decree Requirements**

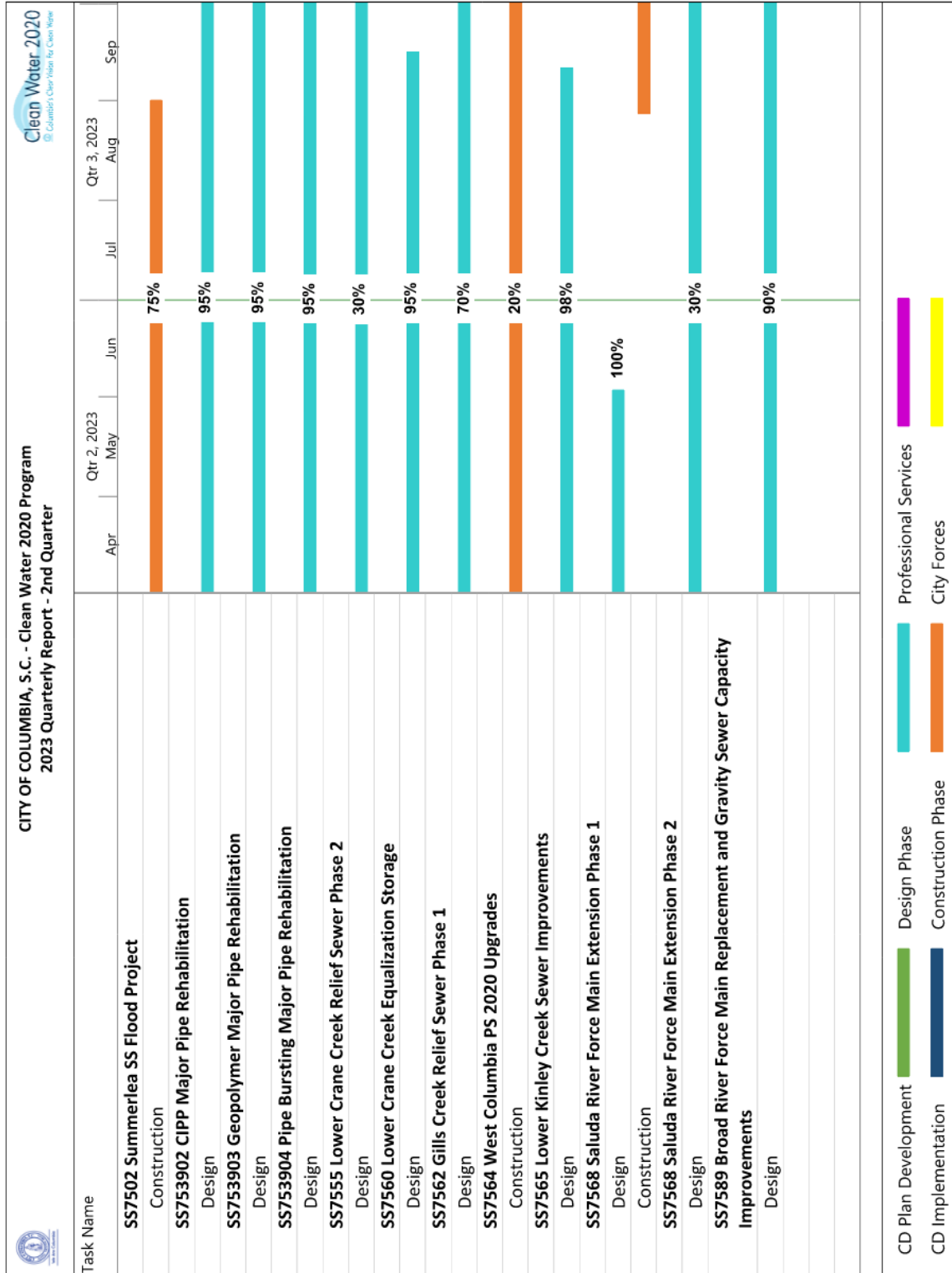
This section addresses the requirements of Section IX.39.a.(iv) of the Consent Decree and includes additional information that demonstrates that Columbia is implementing the remedial measures required in the CD. Information supplemental to that which is provided in Section 2 is provided in this section.

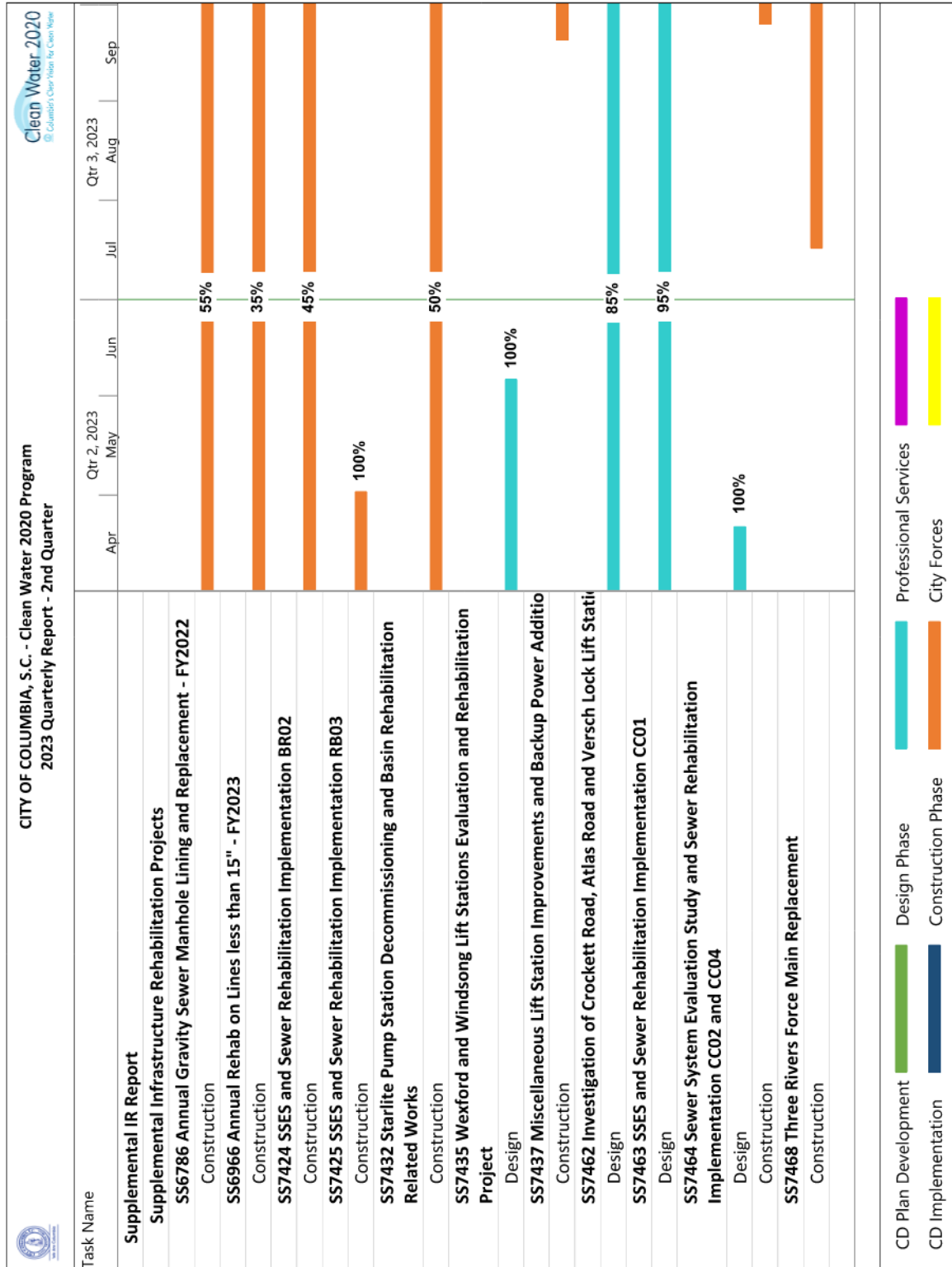
**Section 4 – Quarterly SSO Report**

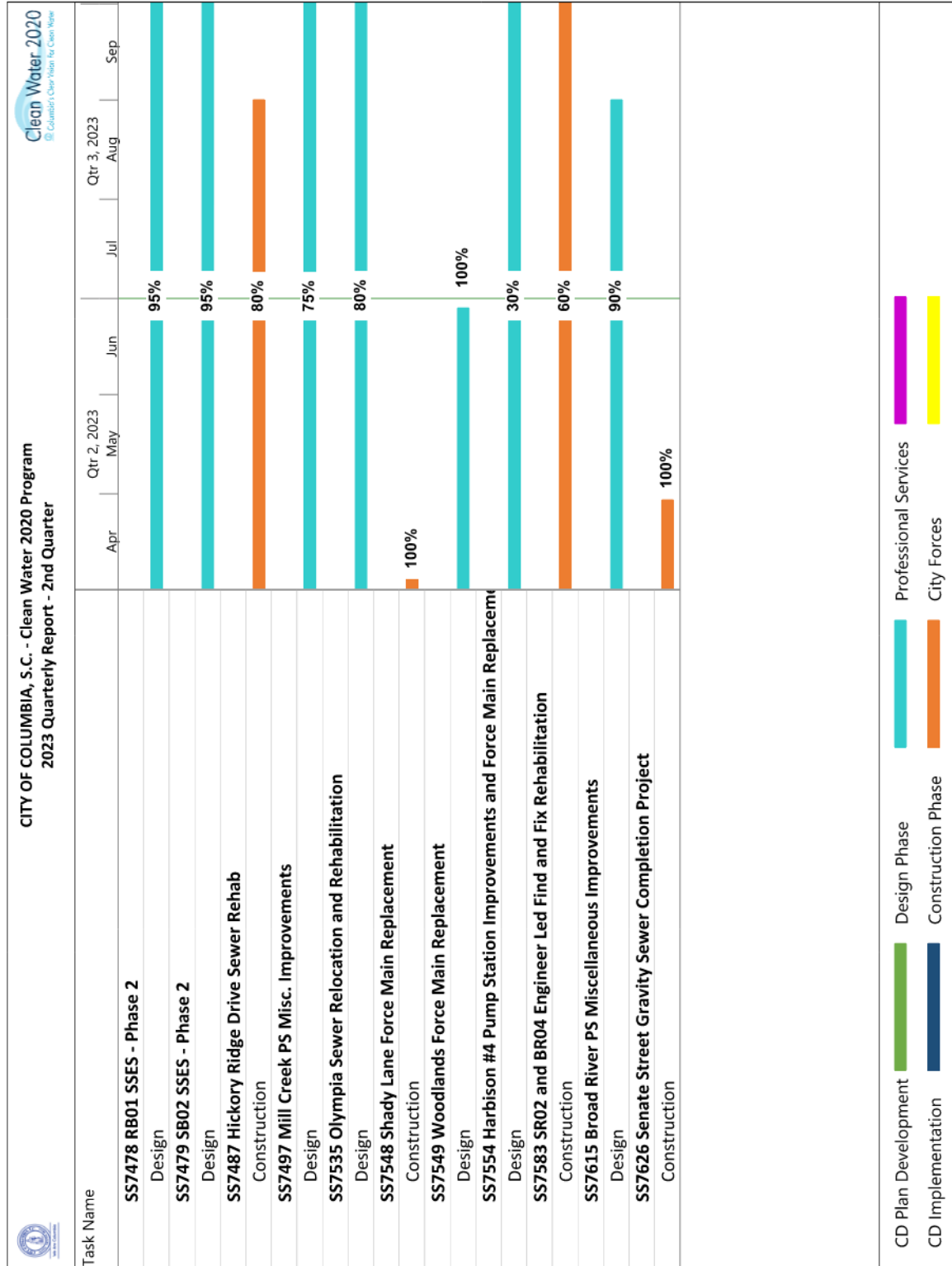
This section addresses the requirements of Section IX.39.a.(ii) of the Consent Decree and provides a tabular listing of sanitary sewer overflows (SSOs). The table includes the date, time, location, source, duration, estimated volume, receiving water (if any), cause, and actions taken to repair or otherwise 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 Final Report is provided in Appendix A.

### 3.1 MOM Programs

In accordance with Section V.12 of the CD, the City is developing and implementing specific Management, Operations, and Maintenance (MOM) programs. The Program elements addressed in this section provide information regarding activities involving the Metro WWTP as well as the City's Wastewater Collection and Transmission System (WCTS).

#### 3.1.1 Information Management System (IMS) Program

The IMS Program was submitted to EPA and SCDHEC on January 4, 2016. The City received final approval of the IMS Program from EPA and SCDHEC on May 23, 2016.

The activities completed or in progress during the current reporting period are as follows:

- Sewer Mapping Program – 100% Complete

As of June 9, 2023, all activities under the IMS Program have been completed.

#### 3.1.2 Sewer Mapping Program

In accordance with the requirements of the CD, the City was to develop and submit a Sewer Mapping Program (SMP) to EPA and SCDHEC within 60 days of the date of entry of the CD. The City received final approval of the SMP from EPA and SCDHEC on December 9, 2014.

Projects and significant activities completed during the current reporting period:

- The City completed the electronic mapping of each Sewer Basin in accordance with the approved SMP implementation plan. Progress for each WCTS Minor Gravity Mapping basin is as follows:
  - West Columbia Basin – 100% complete (Mapping complete as of June 9, 2020)
  - Smith Branch Basin – 100% complete (Mapping complete as of June 9, 2021)
  - Saluda River Basin – 100% complete (Mapping complete as of June 9, 2021)
  - Rocky Branch Basin – 100% complete (Mapping complete as of June 9, 2021)
  - Mill Creek Basin – 100% complete (Mapping complete as of June 9, 2023)
  - Gills Creek Basin – 100% complete (Mapping complete as of June 9, 2023)
  - Crane Creek Basin – 100% complete (Mapping complete as of June 9, 2023)
  - Broad River Basin – 100% complete (Mapping complete as of June 9, 2023)

As of June 9, 2023, all activities under the Sewer Mapping Program have been completed.

### 3.2 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 25% 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 0% 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 – Design 100% 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 10% Complete
- SS7467 North Columbia Pump Station Upgrade – Construction 25% Complete
- SS7474 Upper North Branch Crane Creek Sewer Improvements Phase 1 – Design 95% Complete
- SS7502 Summerlea SS Flood Project – Construction 75% 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
- SS7560 Lower Crane Creek Equalization Storage – Design 95% Complete
- SS7562 Gills Creek Relief Sewer Phase 1 – Design 70% Complete
- SS7564 West Columbia Pump Station Improvements – Construction 20% Complete
- SS7565 Lower Kinley Creek Sewer Improvements – Design 98% Complete
- SS7568 Saluda River Force Main Extension Phase 1 – Design 100% Complete, Construction 0% Complete
- SS7568 Saluda River Force Main Extension Phase 2 – Design 30% Complete
- SS7589 Broad River Force Main Replacement and Gravity Sewer Capacity Improvements – Design 90% 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 – FY2022 Construction 55% Complete
- SS6966 Annual Rehab on Lines less than 15" – FY2023 Construction 35% Complete
- SS7424 Sewer System Evaluation Study and Sewer Rehabilitation Implementation BR02 – Construction 45% Complete
- SS7425 SSES and Sewer Rehabilitation Implementation RB03 – Construction 100% Complete
- SS7432 Starlite PS Decommissioning and Basin Rehabilitation Related Works – Construction 50% Complete
- SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation Project – Design 100% Complete
- SS7437 Miscellaneous Lift Station Improvements and Backup Power Addition – Construction 0% Complete
- SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Stations – Design 85% Complete
- SS7463 SSES and Sewer Rehabilitation Implementation CC01 – Design 95% Complete
- SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implementation CC02 and CC04 – Design 100% Complete, Construction 0% Complete
- SS7468 Three Rivers Force Main Replacement – Construction 0% Complete
- SS7478 Rocky Branch 01 SSES Phase 2 – Design 95% Complete



- SS7479 Smith Branch 02 SSES Phase 2 – Design 95% Complete
- SS7487 Hickory Ridge Drive Sewer Rehab – Construction 80% Complete
- SS7497 Mill Creek PS Miscellaneous Improvements – Design 75% Complete (Decrease in Design Completion % from Previous Reports due to Need to Redesign Portions of Project)
- SS7535 Olympia Sanitary Sewer Relocation and Rehabilitation – Design 80% Complete
- SS7548 Shady Lane Force Main Replacement – Construction 100% Complete
- SS7549 Woodlands Force Main Replacement – Design 100% 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 60% Complete
- SS7615 Broad River PS Miscellaneous Improvements – Design 90% Complete
- SS7626 Senate Street Gravity Sewer Completion Project – Construction 100% Complete

### 3.3 Sewer System Hydraulic Model

The Hydraulic Model Report was submitted to EPA and SCDHEC on August 21, 2020. The City is awaiting EPA and SCDHEC review and approval of the Hydraulic Model Report.

## 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, 2<sup>nd</sup> Quarter 2023**

City of Columbia, SC Quarterly SSO Listing 2nd Quarter 2023									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
4/2/2023	17:00	410 Finwood Ct, Columbia, SC 29212	Manhole	4/12/23	12:00	128	Storm Drain	Roots	Removed Blockage To Resume Normal Flow. Sealed Areas In Manhole Where Roots Were Coming In.
4/4/2023	16:44	3016 Two Notch Rd, Columbia, SC 29204	Manhole	4/5/2023	19:00	152	Storm Drain	3rd Party Responsibility	Vacuumed Out Manhole. Main Line Repair.
4/3/2023	15:13	1000 S Holly St, Columbia, SC 29205	Cleanout	4/6/2023	10:00	90		Roots	Removed Blockage To Resume Normal Flow. Main Line Root Cut.
4/6/2023	12:00	10 Crown Point Ct, Irmo, SC 29063	Cleanout	TBD		20		Debris	Removed Blockage To Resume Normal Flow. Service Lateral Top Hat Liner To Be Done.
4/8/2023	19:30	200 Candi Ln, Columbia, SC 29210	Manhole	OBSERVATION ONLY		1803	Saluda River	Wet Weather	Wet Weather; Observation Only. CIP Engineering Project Currently In Design.
4/9/2023	04:00	1200 Simmon Tree Ln, Columbia, SC 29201	Other	4/9/2023	07:30	113146	Storm Drain	Treatment Plant	Switched Screens To Manual And Reset The Operator Interface Terminal.
4/9/2023	11:55	1200 Simmon Tree Ln, Columbia, SC 29201	Manhole	4/9/2023	17:50	3435100	Various Waterbodies	Treatment Plant	Restored Three Phase Power To Influent Pump Station Via Electrical Contractor.
4/10/2023	14:00	770 Delverton Rd, Columbia, SC 29203	Cleanout	4/27/23	12:00	16	Storm Drain	Roots	Washed Service Line To Resume Normal Flow. Service Lateral CIPP.
4/10/2023	15:50	2800 N Beltline Blvd, Columbia, SC 29204	Cleanout	TBD		28		Roots	Removed Blockage To Resume Normal Flow. Service Lateral Top Hat Liner To Be Done.
4/10/2023	17:30	2639 Midland Dr, Columbia, SC 29204	Line Segment	5/6/23	12:14	187	Storm Drain	Grease	Removed Blockage To Resume Normal Flow. Main Line Wash And Tap Repair.
4/12/2023	19:46	344 Emory Ln, Columbia, SC 29212	Manhole	4/12/2023	20:06	2405	Storm Drain	Equipment Failure	Replaced Bypass Pump.
4/15/2023	12:30	212 Ts Martin Dr, Columbia, SC 29204	Manhole	4/17/2023	12:00	1650	Storm Ditch	Collapsed Line	Removed Blockage To Resume Normal Flow. Main Line Washed.
4/17/2023	14:29	906 Bailey St, Columbia, SC 29203	Manhole	4/18/2023	09:30	725	Retention Pond	Collapsed Line	Removed Blockage To Resume Normal Flow. Main Line Washed.
4/17/2023	16:55	2330 Legrand Rd, Columbia, SC 29223	Cleanout, Manhole	4/20/2023	09:00	224	Storm Drain	Debris	Washed Main Line To Resume Normal Flow.
4/18/2023	13:30	1601 Assembly St, Columbia, SC 29201	Manhole	TBD		5	Storm Drain	Collapsed Line	Washed Main Line To Resume Normal Flow. Main Line Rehab And Manhole Rehab To Be Done By Contractor.
4/18/2023	13:18	1810 Allen Benedict Ct, Columbia, SC 29204	Manhole	4/18/2023	15:00	3000		Debris	Washed Main Line To Resume Normal Flow. Manhole Replace Casting And Lids To Prevent Debris Entering In From Manholes.
4/18/2023	10:37	3839 Gibson St, Columbia, SC 29203	Line Segment	TBD		7603	Storm Water Ditch	Roots	Removed Blockage To Resume Normal Flow. Main Line CIPP Point Repair To Be Done.
4/23/2023	12:16	2717 Wheat St, Columbia, SC 29205	Cleanout	6/5/23	12:00	3		Roots	Washed Service Line With Terminator To Cut Out Roots. Service Lateral CIPP.
4/24/2023	10:35	1541 Kathleen Dr, Columbia, SC 29210	Cleanout	5/6/23	12:00	17		Roots	Washed Service Line To Remove Blockage. Replaced MH Cast/Lid And Service Lateral Top Hat Liner.
4/24/2023	15:50	3041 Sigmund Cir, Columbia, SC 29204	Manhole	4/28/2023	08:00	500	Creek	Debris	Washed Main Line To Resume Normal Flow.
4/27/2023	10:37	3045 Sigmund Cir, Columbia, SC 29204	Manhole	4/27/2023	11:14	2510	Trib To Eightmile Branch	Debris	Washed Main Line To Resume Normal Flow.
4/28/2023	12:23	5006 Brickyard Rd, Columbia, SC 29203	Manhole	TBD		160	Trib To Crane Creek	Roots	Removed Blockage To Resume Normal Flow. Main Line Root Cut And Main Line CIPP Point Repair To Be Done.
5/1/2023	16:40	2751 The Blvd, Columbia, SC 29209	Manhole	5/17/23	14:00	187	Storm Drain	Debris	Washed Main Line To Resume Normal Flow. Main Line Repair.

City of Columbia, SC Quarterly SSO Listing 2nd Quarter 2023									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (If any)	Cause	Actions Taken
5/8/2023	13:57	401 Byron Rd, Columbia, SC 29209	Cleanout	5/9/23	12:00	22		Collapsed Line	Removed Blockage To Resume Normal Flow. Service Lateral Point Repair.
5/10/2023	16:30	696 Amberley Rd, Columbia, SC 29203	Manhole	5/11/2023	09:30	63		Debris	Removed Blockage To Resume Normal Flow. Main Line Washed.
5/11/2023	16:00	1411 McArthur Ave, Columbia, SC 29204	Cleanout	5/24/23	11:54	1		Collapsed Line	Removed Blockage To Resume Normal Flow. Service Lateral Point Repair.
5/16/2023	08:51	1351 Jim Hamilton Blvd, Columbia, SC 29205	Manhole	5/16/2023	09:11	200		Debris	Removed Blockage To Resume Normal Flow. Manhole Cleaned.
5/17/2023	16:00	3422 Elmhurst Rd, Columbia, SC 29203	Cleanout	6/7/23	12:00	15		Collapsed Line	Removed Blockage To Resume Normal Flow. Service Lateral Point Repair.
5/23/2023	11:48	4312 Ridgewood Ave, Columbia, SC 29203	Cleanout	TBD		21		Roots	Removed Blockage To Resume Normal Flow. Service Lateral CIPP To Be Done.
5/25/2023	08:59	105 New Holland Dr, Columbia, SC 29203	Manhole	TBD		495	Storm Drain	Roots	Removed Blockage To Resume Normal Flow. Main Line Rehabilitation - Lining To Be Done By Contractor.
5/26/2023	17:50	129 Woodvale Cir, Columbia, SC 29203	Cleanout	6/16/23	12:00	44	Storm Drain	Roots	Removed Blockage To Resume Normal Flow. Service Lateral Point Repair.
5/29/2023	08:00	1200 Simmon Tree Ln, Columbia, SC 29201	Other	5/29/2023	08:00	3		Treatment Plant	Bypass Hose To DAF2 Was Pushed Down Further Into The Wet Well And Covered.
5/29/2023	15:12	425 Sulgrave Dr, Columbia, SC 29210	Cleanout	6/9/23	17:00	20		Collapsed Line	Removed Blockage To Resume Normal Flow. Service Lateral Replaced.
5/31/2023	14:19	2511 Center St, Columbia, SC 29204	Cleanout	6/1/2023	13:00	5		Debris	Washed Service Line To Resume Normal Flow. Emergency Service Line Repair.
6/3/2023	10:20	405 Harbison Blvd, Columbia, SC 29212	Manhole	6/5/2023	08:00	1774	Trib To Kinley Creek	Grease	Washed Main Line To Resume Normal Flow. Washed Main Line Multiple Times To Remove Grease.
6/5/2023	11:00	3617 Gill St, Columbia, SC 29205	Cleanout	6/5/2023	11:00	10		Debris	Washed Main Line To Resume Normal Flow. Washed Main Line, Removed Bricks From Main Line.
6/14/2023	11:52	144 Harbison Blvd, Columbia, SC 29212	Manhole	6/14/2023	11:52	375		Debris	Washed Main Line To Resume Normal Flow. Washed Main Line, Removed Bricks And Debris.
6/15/2023	10:55	1000 Garden Valley Ln, Columbia, SC 29210	Manhole	6/15/2023	10:55	15		Force Main	Vacuumed Out Manhole. ARV Repair.
6/21/2023	20:20	113 Finsbury Ct, Columbia, SC 29212	Manhole	OBSERVATION ONLY		248	Koon Branch	Wet Weather	Wet Weather; Observation Only. CIP Engineering Project Currently in Construction Phase.
6/22/2023	16:30	1504 Murraywood Ct, Columbia, SC 29212	Manhole	6/26/2023	08:00	1491	Koon Branch	Debris	Washed Main Line To Resume Normal Flow. Washed Main Line And Removed Debris.
6/24/2023	14:06	1504 Murraywood Ct, Columbia, SC 29212	Manhole	6/26/2023	08:00	6144	Koon Branch	Debris	Washed Main Line To Resume Normal Flow. Washed Main Line And Removed Debris.
6/28/2023	15:30	3150 Harden St Ext, Columbia, SC 29203	Manhole	6/29/2023	12:00	637	Storm Drain	Debris	Removed Blockage To Resume Normal Flow. Manhole Cleaned To Remove Debris.

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, 2<sup>nd</sup> Quarter 2023**

City of Columbia, SC Quarterly Building Backup Listing 2nd Quarter 2023									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
5/12/2023	22:30	3718 Tomaka Rd, Columbia, SC 29205	City	TBD		1		Roots	No Access, Observation Only. Service Lateral CIPP To Be Done.
5/30/2023	14:10	10 Townpark Cir, Columbia, SC 29201	City	5/30/2023	16:30	263		Debris	Removed Blockage To Resume Normal Flow. Service Line Washed.
6/1/2023	15:30	2422 Stark St, Columbia, SC 29205	Other	6/2/2023	08:00	1		Collapsed Line	Washed Service Line 60 Ft Into Main Line. Given To Contractor For Emergency Main Line Repair.

## Appendix A

### Final Report on Force Majeure Event



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We Are Columbia

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April 4, 2023

**BY U.S. MAIL TO:**

Chief, Water Programs Enforcement Branch  
Water Protection Division  
U.S Environmental Protection Agency, Region 4  
61 Forsyth Street, S.W.  
Atlanta, GA 30303

Mr. Charles J. Williams  
SCDHEC-Bureau of Water  
Water Pollution Control Division  
2600 Bull Street  
Columbia, SC 29201

Gabriel Allen, Esquire  
Environmental Enforcement Section  
U.S. Department of Justice  
Box 7611 Ben Franklin Station  
Washington, DC 20044-7611  
Re: DOJ No. 90-5-1-1-09954

**AND BY ELECTRONIC MAIL TO:**

Stephen P. Hightower, Esquire ([hightosp@dhec.sc.gov](mailto:hightosp@dhec.sc.gov))  
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Re: Final Report on Force Majeure Event due to COVID-19  
*The United States of America and State of South Carolina by and through  
the Department of Health and Environmental Control vs.  
The City of Columbia; Civil Action No. 3:13-2429-TLW  
DOJ Case Number 90-5-1-1-09954*



Dear Sirs and Madams:

On April 7, 2020, the City of Columbia notified the U.S. Department of Justice, the U.S. Environmental Protection Agency, and the South Carolina Department of Health and Environmental Control that the COVID-19 pandemic was a *force majeure* event which the City believed would likely delay the City's performance of certain obligations under the Consent Decree. At that time, the City was unable to provide a final report on the impacts of the pandemic and requested a deferral of the final report required under Paragraph 56 of the Consent Decree. By letter dated April 30, 2020, EPA acknowledged receipt of the April 7, 2020 notice and deferred judgment on the City's force majeure claim until the submittal of a final report by the City. On February 2, 2021, the City provided an interim report which provided significant detail on the impacts of COVID-19 on the City and potential impacts to the City's performance of its obligations under the Consent Decree. While the impacts of the COVID-19 pandemic on the City continue, the City now has sufficient information to identify the expected delays caused by the pandemic and to provide a final report as required by Paragraph 56 of the Consent Decree.

Although the City has thus far been able to meet all of the deadlines in the Consent Decree as well as the deadlines in the approved programs under the Consent Decree, the COVID-19 pandemic has negatively impacted the funding for and the future construction schedule for rehabilitation and capacity-enhancing projects identified during the course of the City's assessment of its sewer collection and transmission system as required under the Consent Decree. For the reasons stated below, the City is requesting a one-year extension for completion of the Group 2 Projects and a two-year extension for completion of the Group 3 projects identified in the Infrastructure Rehabilitation Report. The City is also requesting a two-year extension of the projects identified in the Supplemental Infrastructure Rehabilitation Report. Finally, the City is requesting an extension of the deadline for implementation of Capacity Assurance Program (CAP) in Paragraph 12(e)(ii)(E) and the definition of Surcharge Condition in Paragraph 12(e)(i)(E)(1) and (2).

#### **I. Explanation and description of reasons for the delay**

The City's February 2, 2021 interim report (Interim Report) provided a detailed explanation and description of the impacts of the COVID-19 pandemic on the City's operations, its staff, and its citizens during the early months of the pandemic. (A copy of the Interim Report is attached as **Appendix A.**) Like other municipalities throughout the country, the City implemented extraordinary measures in the early months of the pandemic to address the immediate needs of its citizens and employees and to prepare for emergency conditions of an unknown duration. Both the State and the City declared



a state of emergency and implemented measures to minimize the spread of the COVID-19 disease, including closures and restrictions on operation of restaurants and bars, retail establishments, public recreational areas, fitness facilities, entertainment venues, and other non-essential services. To address the economic hardship on its citizens and businesses, the City reallocated resources to provide additional services to those citizens and businesses adversely impacted by the pandemic and the measures implemented to slow the spread of COVID-19 in the community. The COVID-19 pandemic resulted in an immediate reduction in City revenue collections and a substantial increase in costs of operation for the City.

The continuing economic impact of COVID-19 on the City and its citizens and businesses is evidenced by the increase in past due balances on the City's water/sewer accounts. In January 2020, the past due balance on these accounts was approximately \$4.6 million. In March 2020, the Governor issued a request that utilities refrain from disconnecting essential services for non-payment during the state of emergency. Throughout the remainder of 2020, the City suspended disconnection of service for non-payment. When disconnections were re-instated in January 2021, the City continued to work with water/sewer customers to establish payment plans and provide other accommodations to address past-due accounts. However, the past due total for these accounts has continued to grow. At the end of 2020, the total past due balance was more than \$12 million. As of the end of 2022, the past due balances of the City's water/sewer service accounts totaled approximately \$11.5 million. This does not include \$8.5 million of residential and commercial past due balances which the City recognized as uncollectable bad debt in August 2022. The impact of inflation on essential goods and services has further strained family budgets, and the City expects that the past due balances for water/sewer services will likely remain at or near this 2022 level in the coming months and a substantial portion of that balance may be uncollectable.

Additionally, the COVID-19 pandemic has significantly disrupted the long-term capital improvement project (CIP) budget which the City had developed to meet its obligations under the Consent Decree and the City's plan for water/sewer rate increases needed to fund the long-term CIP budget. Following the entry of the Consent Decree in May 2014, the City developed a long-term CIP budget to design and construct rehabilitation and capacity-enhancing projects as these projects were identified in the course of performing the assessment obligations of the Consent Decree. The initial conceptual estimate for the capital improvement projects to be constructed under the Consent Decree was approximately \$750 million. Based on a projected 10-year CIP plan for the sewer system at that time, the City established an approximate \$80 million annual budget for sewer system CIP. As discussed in the Interim Report, the FY 2020/2021 budget was developed and approved in the early months of the COVID-19 pandemic. For FY 2020/2021, the City did not enact a water/sewer rate increase, and based on the known and anticipated

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widespread impacts of the pandemic, the City approved its budget with significantly reduced funding of \$25 million for CIP for the sewer system.

During budgeting for FY 2021/2022, the City restored the CIP budget to the pre-pandemic funding of \$80 million and approved a water/sewer rate increase of 5.02%. The considerable increase in the rate of inflation, which many attribute to the supply chain disruptions and other COVID-related economic impacts, was a primary consideration in developing the budget and evaluating proposed water/sewer rate increases for FY 2022/2023. With the highest rate of inflation for essentials such as housing, food, and gas since the early 1980s, the City recognized the disproportionate impact of inflation on lower and middle income families. Therefore, during the budgeting for FY 2022/2023, the City did not consider an increase in water/sewer rates and established a CIP budget of \$27 million for the sewer system. Reducing the CIP budget to \$25 million in FY2020/2021 and \$27 million in FY 2022/2023 severely limited the CIP funding for Consent Decree rehabilitation projects and capacity-enhancing projects during those fiscal years since the majority of the remaining funding was committed to reoccurring maintenance projects across the collection system and improvements at the wastewater treatment plant that were not associated with the Consent Decree.

Finally, while the City has received some COVID-19 relief funding from the federal government, the funds received to date have been directed for reimbursement of costs incurred for paid sick leave and the purchase of goods and services needed to continue municipal operations during the pandemic. The City has also received other federal relief funds which were used for public health expenses, bonus pay for frontline workers, and incentives for City employees who received the COVID-19 vaccine. The federal American Rescue Plan Act (ARPA) includes funding for water, wastewater and stormwater systems, but the distribution of those funds is administered by the state. The South Carolina Infrastructure Investment Program was established for that purpose and is awarding one-time grants to eligible systems. The City has applied for the maximum allowable grant of \$10 million for a wastewater project which meets the program criteria. The City remains hopeful that the state will approve its application for this substantial grant; however, given the considerable impacts of the COVID-19 pandemic on the City's wastewater CIP budget for the last three fiscal years, this grant will fall far short of alleviating all of those impacts.

## **II. The Anticipated Duration of the Delay**

The City expects delays in the current deadlines for completion of certain rehabilitation and capacity-enhancing projects identified to meet the requirements of the Consent Decree. The City has identified the following projects from the Infrastructure Rehabilitation Report (IR Report) for which the completion is likely to be delayed beyond the current established deadline:

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Group 2 Projects:

- Proposed Lower Gills Creek Gravity Sewer Improvements Project
- Proposed Upper Gills Creek Gravity Sewer Improvements Project

Group 3 Projects:

- Major Pipe and Manhole CIPP Rehab Project (this project has been combined with the two Group 2 Projects identified above)
- Major Pipe and Manhole Pipe Bursting Rehab Project
- Major Pipe and Manhole Sliplining Rehab Project
- Major Pipe and Manhole Applied Liner Project
- Major Manhole Rehab Project

Additionally, the reductions in funding in FY 2020/2021 and FY 2022/2023 has created a cascading impact and is expected to push completion dates for the projects identified in the Supplemental Infrastructure Rehabilitation Report (SIR Report) beyond the current deadline under the Consent Decree.

Finally, the City has identified a number of capacity-enhancing projects which will be required to operate the system according to the final Capacity Assurance Program (CAP) to be implemented under Paragraph 12(e) of the Consent Decree. The City has worked diligently to initiate projects as they were identified during the City's development of the sewer system hydraulic model. As discussed more fully below, the design or construction of many of those projects is under way. However, the impacts to the CIP budget during the COVID-19 pandemic has affected the funding for the remaining projects.

**III. Actions to Prevent or Minimize the Delay and an Implementation Schedule for those Actions**

As noted above, the City has undertaken development and construction of rehabilitation and capacity-enhancing projects as identified during the course of the development of the sewer system hydraulic model and the implementation of the continuing sewer assessment program (CSAP). Six of the projects identified in the IR Report have been completed, and six are in the construction or design phase. For the projects identified in the SIR Report, eight have been completed and seven are under construction. The City also has 13 capacity-enhancing projects which are under construction or in the design phase. A list of the projects which have completed and which are under construction or in the design phase is attached at **Appendix B**. While many of those projects were significantly ahead of schedule prior to the pandemic, the impacts to the City's CIP budget

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has resulted in delays which are now expected to prevent the completion of certain projects prior to the deadlines established under the Consent Decree.

The impacts of COVID-19 pandemic on the City's CIP budget during the last three fiscal years has also created a compression of the work on the remaining projects into a shorter timeframe which may be further impacted by contractor availability. The City is concerned that the current issues regarding contractor availability may be further exacerbated by the nationwide increase in projects funded under ARPA and the Infrastructure Investment and Jobs Act.

#### **IV. Rationale for Attributing Delay to a *Force Majeure* Event**

The rationale for attributing the delays in capacity-enhancing and rehabilitation projects is discussed in detail in Sections I, II, and III above.

#### **V. Endangerment to Public Health, Welfare or the Environment**

The City does not believe the delays in the completion of the capacity-enhancing and rehabilitation projects identified above will endanger public health, welfare or the environment. The City will continue to take steps to minimize these delays and to mitigate the effect of any delays.

#### **VI. Request for Extension of Consent Decree Deadlines**

For the reasons stated above, the City requests that the following deadlines in the Consent Decree be extended:

- One-year extension of the Group 2 rehabilitation projects deadline in Paragraph 16(b)(ii) whereby the deadline for completion of the Group 2 projects will be no later than 6 years after approval of the IR Report;
- Two-year extension of the Group 3 rehabilitation projects deadline in Paragraph 16(b)(iii) whereby the deadline for completion of the Group 3 projects will be no later than 9 years after approval of the IR Report;
- Two-year extension of the deadline for completion of the rehabilitation projects identified in the SIR Report pursuant to Paragraph 16(c), whereby the deadline for completion of these rehabilitation projects will be no later than 7 years after approval of the SIR Report; and

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- Ten-month extension in the deadline for implementation of the Capacity Assurance Program (CAP), whereby the requirement to authorize new sewer service connections, or additional flow from existing sewer service connections, through certification under the approved CAP would be effective twelve (12) months after EPA's approval of the CAP.
- Two-year extension in the definitions of Surcharge Condition in Paragraph 12(e)(i)(E) whereby the definition in Paragraph 12(e)(i)(E)(1) applies for four years from the date of approval of the CAP and the definition in Paragraph 12(e)(i)(E)(2) applies after four years from the date of approval of the CAP.

The City appreciates the agencies' continuing cooperation and support as the City works diligently to fulfill all of its obligations under the Consent Decree. If additional information is needed in support of this Final Report, please feel free to contact me.

Sincerely,

  
Teresa B. Wilson  
City Manager

  
Legal Department City of Columbia, SC  
04/04/2023

## **APPENDIX A**

**(February 2, 2021 Interim Report on Force Majeure Event)**



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We Are Columbia

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February 2, 2021

**BY U.S. MAIL TO:**

Chief, Water Programs Enforcement Branch  
Water Protection Division  
U.S Environmental Protection Agency, Region 4  
61 Forsyth Street, S.W.  
Atlanta, GA 30303

Mr. Randy Stewart  
SCDHEC-Bureau of Water  
Water Pollution Control Division  
2600 Bull Street  
Columbia, SC 29201

William Weinischke, Esquire  
Environmental Enforcement Section  
U.S. Department of Justice  
Box 7611 Ben Franklin Station  
Washington, DC 20044-7611  
Re: DOJ No. 90-5-1-1-09954

**AND BY ELECTRONIC MAIL TO:**

Nathan M. Haber, Esquire (habernm@dhec.sc.gov)  
William Weinischke, Esquire (bill.weinischke@usdoj.gov)  
Paul Schwartz, Esquire (Schwartz.paul@epa.gov)  
Beth Drake, Esquire (beth.drake@usdoj.gov)  
Carol DeMarco King, Esquire (King.carol@epa.gov)  
Richard Elliott (Elliott.richard@epa.gov)

Re: Interim Report on Force Majeure Event due to COVID-19  
*The United States of America and State of South Carolina by and  
through the Department of Health and Environmental Control vs.  
The City of Columbia;* Civil Action No. 3:13-2429-TLW  
DOJ Case Number 90-5-1-1-00954

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Dear Sirs and Madams:

On April 7, 2020, the City of Columbia 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 which is expected to delay the City's performance of certain obligations under the Consent Decree. Specifically, the City provided notice that the impacts of the COVID-19 pandemic were expected to result in delays in the City's ability to meet certain deadlines for the performance of its obligations under the Consent Decree. Since the COVID-19 pandemic has not yet been contained in South Carolina, the City cannot provide a final report with details regarding the expected delays in meeting Consent Decree deadlines or the duration of such delays. To date, the City has been able to meet the deadlines in the Consent Decree and the deadlines in the approved programs under the Consent Decree. However, even though the City is working to mitigate the impacts of the pandemic, there is no doubt that this unprecedented crisis will result in delays in the City's performance of its long-term obligations under the Consent Decree. The City is providing this interim report to further explain the conditions which will likely result in such delays and to generally identify those programs which might be affected.

Since mid-March 2020, the State has remained under a state of emergency due to the COVID-19 pandemic. COVID-19 infections and deaths increased rapidly throughout South Carolina in June and July, and after a brief decline in late July and August, have steadily increased in recent months with the highest level of confirmed cases in the last month. As of January 24, 2021, the South Carolina Department of Health and Environmental Control reports more than 381,000 confirmed cases of COVID-19 with 5,944 confirmed COVID deaths in South Carolina. In Richland County, there have been more than 31,000 confirmed positive cases, with a positive rate of 8,257 per 100,000 persons tested as of January 24, 2021. Since early December, the State has experienced a significant spike in cases which have exceeded the previous high level of cases in early summer with more than 125,000 confirmed cases reported in the last month.

Both the State and the City have implemented measures to minimize the spread of the COVID-19 disease, including closures and restrictions on operation of restaurants and bars, retail establishments, public recreational area, fitness facilities, entertainment venues, and other non-essential services. The financial impacts of COVID-19 on the businesses and residents of the City have been significant. In the six-month period prior to the imposition of the first COVID-related business closures in March 2020, the unemployment rate in Richland County was consistently below 3 percent with a 2.0% unemployment rate in September 2019 being the lowest in that six-month period. Unemployment in Richland County rose to 9.0% in April 2020 and has remained substantially higher than pre-COVID rates: 10.1% in May; 8.7% in

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June; 8.7% in July; 6.9% in August; 5.1% in September; 4.3% in October; 4.4% in November; and 4.8% in December. The recent increase in COVID cases could result in the imposition of additional restrictions on business operations which might be expected to negatively impact employment in the coming months. For small businesses in the City, the closures or restricted operations have threatened the continuing viability of many businesses. For those businesses which survived the business closures and restrictions in the spring, the ongoing nature of the pandemic and the possibility of new shutdowns to address the recent spike in cases may present challenges which result in permanent closure. As discussed below, the City has committed resources to addressing some of the economic hardship on its citizens and small businesses. However, the City's response to address this unprecedented crisis has necessitated the reallocation of resources which are also limited by the COVID-19 impacts to the City's revenue sources. As such, the demands on the City's resources have increased while the availability of resources are decreasing and the City's ability to incur further debt is also negatively impacted by the pandemic.

As discussed more fully below, the ongoing COVID-19 pandemic has had a direct impact on the City's day-to-day operations as employee absenteeism is higher than usual due to COVID illnesses or other COVID-related reasons. Additionally, the direct financial impact on the City has been significant with substantial decreases in revenue, increased expenditures for COVID-related goods and services provided to citizens, and re-allocation of these more limited resources. As noted above, the City has thus far been able to meet all of the deadlines in the Consent Decree as well as the deadlines established in the programs previously submitted and approved under the Consent Decree. However, as the COVID-19 pandemic continues, the impacts on the City's resources and its citizens are expected to increase exponentially and therefore prolong the period required to recover from those impacts. While the full impact and expected recovery period cannot be assessed until the pandemic is contained and a comprehensive recovery plan is developed and implemented, the impacts of the pandemic will undoubtedly delay the City's performance of some of its long-term obligations under the Consent Decree.

#### **A. Impact on City Management and Staff**

The COVID-19 pandemic has impacted the staffing levels for the Wastewater Maintenance Division and Metro WWTP Division (collectively, the Wastewater Division) and other City departments, such as Engineering and Procurement, which are essential to the work of the Wastewater Division. To date, twenty-four Wastewater Division employees have tested positive for COVID-19. Additionally, in accordance with CDC guidelines, the City implemented a policy on COVID testing and quarantine for employees who may have tested positive or been in contact with someone who has tested positive for coronavirus. To date, more than 100 employees have quarantined in accordance with this policy. For employees who travel outside



the State, the City has in many instances requested the employee obtain a negative COVID test prior to returning to work. Since March, employees of the Wastewater Division alone have been absent 550 workdays due to COVID illness and quarantine policy requirements.

In addition to the employee absences due to coronavirus and the City's quarantine recommendations, COVID-19 has resulted in higher levels of absenteeism for many other employees affected by measures implemented to slow the spread of the disease. In mid-March, the City implemented a number of human resources policies in response to the pandemic. By order of the Governor, all South Carolina public schools were closed effective March 16, 2020, and remained closed for the remainder of the 2019/2020 school year. In response, the City allowed telecommuting and extended leaves of absence for employees with children who were home because of daycare or school closures. Similarly, the City also provided these options to City employees who have underlying health issues or are over the age of sixty. For all of these COVID-related absences, the City has provided employees with paid leave in excess of that required under the federal Emergency Paid Sick Leave Act and Emergency Family and Medical Leave Expansion Act.

While the COVID-related absences have impacted almost every City department, the absences are substantially higher for the Wastewater Division because a large majority of the staff cannot work remotely. For example, the Wastewater Maintenance Division (WMD) has been operating with approximately 50 percent of its full-time field employees. The impact of COVID-19 on smaller crews illustrates the staffing challenges for the WMD and other divisions in the Department of Utility Operations. The City normally operates three sewer pipe cleaning crews. However, two employees have taken extended leaves of absence due to COVID-19. One employee is remaining at home to care for children because his wife is a nurse. Another employee is on leave due to underlying health issues. With these absences, the City was down to one cleaning crew. In order to address the need to operate additional cleaning crews, the City halted normal operation of its CCTV crews to train the employees to operate the Vactor trucks utilized for pipe cleaning. Similar reallocations of resources have been essential to maintaining operations in the Wastewater Division as City management addresses the unique challenges of the COVID pandemic. This higher rate of absenteeism was also exacerbated by the implementation of a temporary hiring freeze in the early weeks of the pandemic. While the City has modified its COVID-19 hiring freeze to allow hiring to fill positions vacated by resignations and terminations, this policy continues to impact all departments of the City.

Since the City management team has greater capacity to work remotely, the COVID-19 pandemic has not resulted in the levels of absenteeism experienced among the Wastewater Division staff. However, COVID-19 has substantially increased the

demands on City management in terms of allocation of limited resources (human and financial) and strategic planning and problem-solving required to maintain normal operations during the pandemic. Accordingly, the time devoted to COVID-related issues and planning has reduced the availability of City management to provide necessary oversight and decision-making for the development and implementation of the programs required by the Consent Decree. As such, even for programs and projects which are being developed by third-party contractors, there have been delays in the progress for these programs and projects where the input of City management is required at various stages of development. For example, the City's contractor has made substantial progress in developing the Capacity Assurance Program (CAP) required under the Consent Decree; however, the development of the CAP requires extensive input and coordination with the City management and staff and has thus been delayed due to their limited availability since March. One of the key features of the CAP is the CAP tool, an information management system which will be used to track the available capacity in the City's wastewater collection and treatment system. This CAP tool will be used to perform the threshold analysis of capacity on an application for a new sewer connection or an increase in the discharge of an existing sewer customer. While the City's contractor is responsible for creating the basic operating system for this interactive web-based tool, the development of the CAP tool has required numerous meetings and consultation with the City management and staff. Additionally, as the development of the CAP tool progresses, the contractor must rely on the City to establish the processes for interface of the CAP tool with the sewer mapping program and other databases maintained by the City. The limited availability of the City management and staff during the COVID-19 crisis has therefore slowed the progress on the development of the CAP. While the CAP development and other similarly-affected programs were on schedule prior to the COVID pandemic, the limited availability of City management and staff to assist and advise consultants could result in delays in the completion of these programs as the COVID pandemic continues to impose additional demands on their time.

## **B. Financial Impact**

Following the Governor's declaration of a state of emergency on March 13, 2020, the State implemented a series of state-wide measures to slow the spread of COVID. In addition to the closure of public schools discussed above, the Governor issued a series of executive orders, prohibiting on-premises consumption at restaurants and bars, limiting the size of public gatherings, and closing recreational facilities, entertainment venues, hair and nail salons, and other non-essential businesses. City Council also declared a state of emergency in the City on March 17, 2020, and implemented additional measures to limit the spread of infection in the City, including a "Stay Home Stay Safe" Ordinance which restricted business operations and non-essential travel within the City and a mask ordinance.



Like many other municipalities throughout the country, the City took immediate action to provide relief to mitigate the economic hardship to residents and small businesses affected by these measures. For residents with financial hardships, City has a number of long-standing programs to assist these residents. For example, low-income residential customers are eligible for the City's Change-Up Program which provides payment of up to 75% of a water or sewer bill, including past-due balances or fees. In response to COVID, the City implemented additional programs to assist residents and small businesses. In April, the City increased funding for grants to non-profit organizations which serve seniors, the homeless, and other vulnerable individuals impacted by the COVID-19 pandemic. For businesses, the City extended the deadline for payment of annual business license renewal fees and waived late fees on payment of hospitality and accommodation taxes. The City also allocated \$2 million dollars to establish a Small Business & Non-Profit Stabilization Package, which included grants to small business owners through the City's Small Business Stabilization Forgivable Loan Program. These grants were structured as a loan with the loan forgiven if used in accordance with established criteria. The City's allocation of funds to this program was later increased and supplemented with a federal grant. City Council also increased funding for law enforcement and first responders to ensure preparedness to meet public safety needs during the pandemic. The additional funding for these programs required adjustments to the FY 2019/2020 budget, including the transfer of \$6.25 million from the water and sewer operating budget to the general fund.

At the same time that COVID-19 pandemic required the re-allocation of funds within the City's operating budget, the City experienced an immediate and continuing decrease in City revenues. On March 12, 2020, the City suspended disconnection of water and sewer service for non-payment in an attempt to be compassionate to our citizens. On March 14, 2020, the Governor subsequently issued a request that utilities refrain from suspending or disconnecting essential services for non-payment during the state of emergency. As of mid-December, the past due amount on water/sewer services had increased by more than \$7.5 million over pre-pandemic amounts. Water and sewer revenues also decreased due to reduction in usage by some of the City's largest customers. On March 19, 2020, the University of South Carolina announced remote learning for the 35,000 students at its Columbia campus, closure of residence halls, and telecommuting for non-essential employees. Benedict College, Allen University, Columbia College, and Columbia International University also transitioned to remote learning and closed residence halls. Although hotels were deemed an essential business and could remain open, government-imposed restrictions on travel, a decline in business travel, and the stay-at-home orders resulted in a sharp decline in hotel occupancies which remain lower than normal. Water/sewer usage in the City was also reduced for private and governmental offices which allowed non-essential workers to telecommute. While some of these

customers have increased usage since the early months of the COVID shutdown, the water/sewage usage has not yet returned to pre-COVID levels.

In addition to the reduction in revenue for the Utilities Department, the City also experienced a reduction in revenues from other sources. As noted above, on March 26, 2020, the City enacted the Stay Home Stay Safe Ordinance which drastically reduced business operations within the City. In addition to the reduction in water and sewer revenues, the restrictions of retail businesses also resulted in a loss of revenue from local option sales tax. Travel restrictions and a state-wide ban on indoor dining significantly reduced the revenue from local hospitality and accommodation taxes. The City also experienced substantial reductions in other revenue sources, such as service fees, parking fees, and court fines. The pandemic is also expected to result in an increase in the delinquencies in property tax payments. As noted above, the City was able to manage this decrease in revenue and increasing COVID-related demands by transferring funds within the FY 2019/2020 budget; however, the most significant impact of the known and projected reductions in revenue was seen in the budgeting process for FY 2020/2021.

As described more fully in the approved Financial Analysis Program required under the Consent Decree, the City's fiscal year runs from July 1<sup>st</sup> through June 30<sup>th</sup> with the budget planning for the upcoming fiscal year beginning in January each year. A proposed budget is typically developed in the first quarter of the calendar year with approval by City Council before the June 30<sup>th</sup> deadline. As such, City Council had been working to meet the demands of the COVID-19 pandemic for approximately three months when the budget for FY 2020/2021 was finalized and approved. As discussed above, during that time, City Council had already re-allocated funds in the FY 2019/2020 budget to meet the COVID-related needs of small businesses, citizens, and City operations. These continuing COVID-related demands and the projected decrease in revenues were taken into consideration in developing the budget for FY 2020/2021 and resulted in a substantial reduction in total approved budget compared to the FY 2019/2020 budget. Additionally, as the COVID-19 pandemic continues and the economic impacts continue to affect the City's residents and businesses, this approved budget for FY 2020/2021 may require further revision. As the City prepares to begin the planning process for the FY 2021/2022 budget, these conditions are expected to continue to impact the City's financial resources, and accordingly, the City's revenues would not be expected to return to the FY 2019/2020 budget level without significant aid from the federal and state governments.

The financial impacts of COVID have also affected the City's CIP budget for the sewer system. Based on the projected 10-year CIP budget for the sewer system, which includes capacity-enhancing and rehabilitation projects identified in programs required under the Consent Decree, the proposed CIP budget for FY 2020/2021 was \$80 million. Among the unavoidable reductions in the budget for FY 2020/2021, the



allocation for sewer system CIPs was reduced to \$25 million. This reduced CIP budget required the City to adjust the schedules for completion of capacity-enhancing and rehabilitation projects. This reduction alone is not expected to immediately result in the City's failure to meet the deadlines under the Consent Decree because many of these projects had been scheduled for completion prior to the deadline. However, as discussed below, any future reductions in CIP funding will almost certainly result in project scheduling adjustments that will have cascading impacts and push project completions beyond current schedules developed to meet the long-term CIP requirements under the Consent Decree programs.

The reduction in the sewer CIP budget for FY 2020/2021 will require a proposed CIP budget of \$135 million in FY 2021/2022 in order to keep the capacity-enhancing and rehabilitation sewer projects on schedule. Given the recent resurgence in COVID-19 infections, the City is not likely to have the resources to increase the sewer CIP to this level. Indeed, the ongoing economic impacts of the continuing COVID crisis are likely to keep the budget for FY 2021/2022 at a level comparable to the current fiscal year budget (i.e., below the FY 2019/2020 budget). Moreover, as discussed below, the COVID pandemic has also disrupted the City's plan for water/sewer rate increases. These rate increases are necessary to demonstrate adequate revenue to service new debt to fund CIP for the sewer system. Moreover, in establishing the 10-year CIP budget for the sewer improvements needed to meet the Consent Decree requirements, the City considered the availability of qualified contractors to design and construct these improvements and proposed an approximately \$80 million per year CIP budget. As this work is pushed forward, the contracting industry may not have the capacity to support the compression of the work on these projects into a shorter timeframe. Therefore, the reduction of the annual CIP budget for two years could result in a delay in completion of the capacity-enhancing and rehabilitation projects even if the City can substantially increase the CIP budget thereafter to include the shortfall in FY 2020/2021 and FY 2021/2022.

In addition to the substantial reduction in the FY 2020/2021 budget, the pandemic also necessitated deferral of the proposed water/sewer rate increase for FY 2020/2021. Additionally, given the current surge of COVID cases and the projected long-term financial impact on residents and business, any proposed rate increase for FY 2021/2022 may also be deferred or significantly adjusted downward from the recommendation of the most recent rate study. In accordance with the approved Financial Analysis Program, the City has conducted a rate study annually to evaluate and recommend rate adjustments needed to meet budget obligations for operation of the City's water and wastewater systems and to fund capital improvement projects required under the Consent Decree programs. With the exception of 2016 (the year following the historic October 2015 flood), City Council has approved substantial annual rate increases since the Consent Decree was entered in 2014:

June 16, 2015 (FY 2015/2016)	- 9.50%
June 20, 2017 (FY 2017/2018)	- 4.75%
June 19, 2018 (FY 2018/2019)	- 9.76%
June 18, 2019 (FY 2019/2020)	- 7.06%

On February 4, 2020, the City's consultant presented a preliminary analysis of the projections for the 2020 Water and Wastewater Rate Study to City Council. The presentation summarized the preliminary analysis of proposed future rate increases as follows:

FY 2020/2021	- 9.15%
FY 2021/2022	- 8.96%
FY 2023/2023	- 7.82%
FY 2023/2024	- 5.98%

When Council met in May to begin the budget approval process, the proposed rate increase for FY2020/2021 was not considered for approval due to the economic impact of COVID-19. On May 19, 2020, the City's consultant advised Council that a projected increase to 10.15% would be needed in FY2021/2022 in order to continue to meet the financial planning requirements for the operation of the City utilities and to fund the additional obligations of the Consent Decree. With the continuing spread of COVID-19 and the resulting economic impacts to the City's residents and businesses, a rate increase may not be possible in June 2021. Even if economic conditions improve by the end of 2021 or early 2022, a two-year gap in water/sewer rate increases will substantially impair the City's ability to incur new debt for the capital improvement projects through the issuance of bonds, and as discussed above, would likely be expected to result in a delay in the scheduled completion for projects required under the Consent Decree.

### **III. Potential Delays**

Like every other local and state government, the City has faced the difficult decisions to implement measures to safeguard its citizens against the coronavirus threat even though such measures directly impact local businesses and their employees. The City has committed resources to assist businesses and residents who are negatively impacted by these measures and the economic downturn triggered by the COVID-19 pandemic. The City management and staff have worked diligently to maintain basic services despite the numerous challenges created by the COVID-19 crisis. To date, the City has been able to meet all of the deadlines in the Consent Decree and in the programs required by the Consent Decree. However, as the COVID-19 crisis continues into 2021, the strains on the City's resources will be cumulative and the City's performance under the Consent Decree will undoubtedly be affected. According to current projections from the federal government, the public health crisis will



continue at least through the second quarter of 2021 and the economic impacts from COVID-19 may continue long after the COVID-19 pandemic is contained.

Based on the City's current understanding of the known and potential COVID-related impacts on its operations and financial resources, the City expects possible delays in the current deadlines for completion of capacity-enhancing and rehabilitation capital improvement projects identified to meet the requirements of the Consent Decree. The City also expects potential delays in the completion of upcoming Consent Decree program requirements, such as Sewer Mapping deadlines, deadlines related to the Capacity Assurance Program, deadlines in the Continuing Sewer Assessment Program, and deadlines in the Gravity Sewer Operation and Maintenance Program. The City is not yet able to identify the specific deadlines which will be delayed or determine the duration of any such delays. The City will supplement this report with the information required under Paragraph 56 of the Consent Decree as the City's performance under specific programs is unavoidably delayed. The City does not believe any such delays in the performance of its obligations under the Consent Decree will endanger public health, welfare or the environment, and the City will continue to take steps to minimize any delays and to mitigate the effect of any delays.

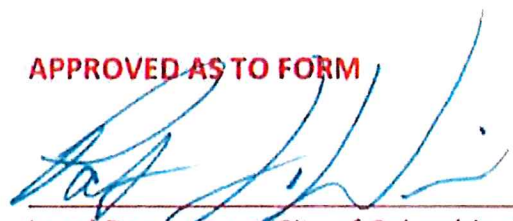
The City appreciates the agencies' continuing cooperation as the City addresses the extraordinary needs of its citizens during this unprecedented crisis. If additional information is needed regarding the circumstances described in this interim report, please feel free to contact me or Clint Shealy, Assistant City Manager for Columbia Water at (803) 733-8682 or [clint.shealy@columbiasc.gov](mailto:clint.shealy@columbiasc.gov).

Sincerely,



Teresa B. Wilson  
City Manager

APPROVED AS TO FORM



Legal Department City of Columbia, SC

2/3/2021

## **APPENDIX B**

The following projects identified in the IR Report have been completed:

- SS676402 30-inch Force Main from Mill Creek PS to Metro WWTP
- SS695401 SS Replacement along Broad River and Crane Creek
- SS7076 Gravity Sewer from I-77 and Bluff Road to Burnside #1 Pump Station
- SS7261 Lake Katherine Sewer Capacity Enhancement
- SS7389 Crane Creek and Smith Branch Manhole Repair and Mitigation
- SS7433 Cunningham, Cramer, and Summerlea Sewer Relocations

The following projects identified in the IR Report are currently under construction or in the design phase:

- SS6786-23 Annual Sanitary Sewer Manhole Rehabilitation – Major Manholes
- SS733702 East Rocky Branch Improvements Phase 2
- SS7487 Hickory Ridge Road Sewer Rehabilitation
- SS7502 Summerlea SS Flood Repairs
- SS733701 East Rocky Branch Improvements Phase 1
- SS7539 Major Sewer Pipe Rehabilitation

The following projects identified in the SIR Report have been completed:

- SS6786-19 Annual Sanitary Sewer Manhole Rehabilitation – GC01, GC02, GC03, GC04, GC10 Subbasins
- SS6786-20 Annual Sanitary Sewer Manhole Rehabilitation – GC01, GC03, GC08, GC10 Subbasins
- SS6966-16 Annual Rehab on Lines less than 15-inch – GC02, GC03 Subbasins
- SS6966-19 Annual Rehab on Lines less than 15-inch – GC04, GC08 Subbasins
- SS6966-20 Annual Rehab on Lines less than 15-inch – GC04, GC08 Subbasins
- SS7060 Pump Station Improvements at Six Sites
- SS7172 Harbison #2 PS, Mallard Pointe PS, Animal Shelter PS Improvements
- SS7208 SSES Rehab SR02, SR10, SR12 Subbasins

The following projects identified in the SIR Report are currently under construction:

- SS6966-23 Annual Rehab on Lines less than 15-inch – GC01 Subbasin
- SS7424 BR02 SSES
- SS7425 RB03 SSES
- SS7432 Starlite PS Decommissioning and Basin Rehabilitation
- SS7467 North Columbia Pump Station Upgrade
- SS7583 SR02 and BR04 Engineer-Led Find and Fix
- SS7626 Senate Street Gravity Sewer Completion Project



The following capacity-enhancing projects are under construction or in the design phase:

- SS7258 Greenlawn to Burnside #1 PS
- SS7331 Upper Kinley Creek SS
- SS7350-03 Crane Creek Lower North Branch Capacity Upgrade Phase 1
- SS7428 Lower Saluda Relief Sewer
- SS7450 Crane Creek Lower North Branch Capacity Upgrade Phase 2
- SS7474 Upper N. Branch Crane Creek Sewer Improvements & N. Richland Crane Creek Sewer Improvements
- SS7555 Lower Crane Creek Relief Sewer Phase 2
- SS7560 Lower Crane Creek Equalization Storage
- SS7562 Gills Creek Relief Sewer Phase 1
- SS7564 West Columbia PS Improvements
- SS7565 Lower Kinley Creek SS
- SS7568 Saluda River FM Extension
- SS7589 Broad River Gravity Sewer and Force Main Replacement