



City of Chattanooga

Mayor Andy Berke

July 30, 2018

VIA CERTIFIED MAIL

Ms. Sara Janovitz
Environmental Engineer
Clean Water Enforcement Branch
US EPA-Region 4
61 Forsyth Street, SW
Atlanta, GA 30303

**Re: *United States of America et. al. v. City of Chattanooga, No. 1:12-cv-0024*
Semi-Annual Work Progress Report No. 10 – January 2018 to June 2018**

Dear Ms. Janovitz:

On behalf of the City of Chattanooga, Tennessee ("City"), and in accordance with the consent decree entered by the United States District Court for the Eastern District of Tennessee (Southern Division), on April 24, 2013, in the case styled the United States of America et. al. v. City of Chattanooga, No. 1:12-cv-0024 ("Consent Decree"), we are submitting to both the Environmental Protection Agency ("EPA") and the Tennessee Department of Environment and Conservation ("TDEC") the tenth semi-annual work progress report required pursuant to paragraph 39 of the Consent Decree. This report is also being submitted in accordance with the letter from Denise Diaz, dated September 16, 2013, establishing the dates for reporting under the Consent Decree.

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.

Ms. Sara Janovitz
July 30, 2018
Page Two

Please let me know if you have any questions regarding our submittal.

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Rose', with a stylized flourish at the end.

Jeffrey A. Rose, P.E.
Interim Director, Waste Resources Division

Enclosure

cc: Karl Fingerhood, Esq., US DOJ
Chief, Environmental Enforcement Section, US DOJ
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Semi-Annual Work Progress Report No. 10

January 1 – June 30, 2018

Prepared for

**Environmental Protection Agency and
Tennessee Department of Environment and
Conservation**

City of Chattanooga
Waste Resources Division
Consent Decree Program
Case No. 1:12-cv-00245

Prepared by

City of Chattanooga
Waste Resources Division

Submitted by

JACOBS[®]
Jacobs Engineering Group Inc.
Consent Decree Program Manager

Chattanooga, Tennessee

July 30, 2018

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Acronyms and Abbreviations

ARAP	Aquatic Resource Alteration Permit
CAP	Capacity Assurance Program
CD	Consent Decree
CIPP	Cured in Place Pipe
CMOM	Capacity, Management, Operations, and Management
CSO	Combined Sewer Overflow
CSOTF	Combined Sewer Overflow Treatment Facility
CSS	Combined Sewer System
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
ESIP	Enterprise South Industrial Park
FOG	Fats, Oils, and Grease
FSE	Food Service Establishments
GLPMP	Gravity Line Preventative Maintenance Program
HVAC	Heating, Ventilation, and Air Conditioning
I/I	Inflow and Infiltration
IPS	Influent Pump Station
ISS	Interceptor Sewer System
LF	Linear Feet
LTCP	Long Term Control Plan
MBWWTP	Moccasin Bend Wastewater Treatment Plant
MCC	Motor Control Center
MGD	Million Gallons per Day
N/A	Not Applicable

NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
PCP	Process Controls Program
PCCMP	Post Construction Compliance Monitoring Program
PDR	Public Document Repository
PLC	Programmable Logic Controller
PS	Pump Station
PSOP	Pump Station Operations Program
PSPMP	Pump Station Preventive Maintenance Program
RDII	Rain-derived Infiltration and Inflow
RFQ	Request for Quotation
SCADA	Supervisory Control and Data Acquisition
SORP	Sewer Overflow Response Protocol
SRF	State Revolving Funds
SSES	Sanitary Sewer Evaluation Study
SSO	Sanitary Sewer Overflow
SUO	Sewer Use Ordinance
TCWN	Tennessee Clean Water Network
TDEC	Tennessee Department of Environment and Conservation
TDOT	Tennessee Department of Transportation
USDOJ	United States Department of Justice
VFD	Variable Frequency Drive
WCTS	Waste Collection and Transmission System
WRD	Waste Resources Division
WWTA	Wastewater Treatment Authority

1.0 Executive Summary

On April 24, 2013, the City of Chattanooga (“City”) entered into a consent decree with the United States and the State of Tennessee, in the case styled *United States of America et. al. v. City of Chattanooga, No. 1:12-cv-00245* (“CD”). This Semi-Annual Work Progress Report (Report) has been prepared pursuant to the requirements of paragraph 39 of the CD. In accordance with the CD, this Report presents the major milestones achieved in the last 6 months, and also provides projections for activities anticipated to be completed in the following 6 months. This Report presents milestones achieved from January 1, 2018 through June 30, 2018 (“Report Period”), and the projections cover the period of July 1, 2018 through December 31, 2018.

During the Report Period, the City developed and submitted the deliverables that are listed in Table 1-1 to the Environmental Protection Agency (“EPA”) and the Tennessee Department of Environment and Conservation (“TDEC”) for review and approval. This information is also presented in Gantt chart format in Appendix A.

Table 1-1

Completed Projects and Submitted Consent Decree Deliverables for the Current Reporting Period

CD Projects and Deliverables	CD Reference	CD Deadline	Submittal Date/ Completion Date
Quarterly Report No. 18	Section IX., para 38	1/31/2018	1/29/2018
Quarterly Report No. 19	Section IX., para 38	4/30/2018	4/25/2018
Semi-Annual Work Progress Report No. 9	Section IX., para 39	1/31/2018	1/29/2018
Annual Report No 5	Section IX., para 40	2/28/2018	2/27/2018
Focused Sanitary Sewer Evaluation Services (“SSES”) and Rehab – Chattanooga Creek 4	Section VI, para 21	7/24/2020	3/9/2018
Focused SSES and Rehab – Dobb’s Branch 3	Section VI, para 21	7/24/2020	6/30/2018
DuPont Pump Station (“PS”) and Basin Improvements – Phase 1	Section VI, para 22	4/24/2018	3/17/2018
Orchard Knob PS Improvements	Section VI, para 22	4/24/2018	6/21/2017
Agawela Drive Stream Restoration – Supplemental Environmental Project (“SEP”)	Section VIII, para 31	5/24/2018	5/21/2018
Highland Park GI Demonstration Project - Construction	Section VII, para 30	10/23/2018	3/15/2017
East Brainerd PS Rehabilitation*	Section VI, para 22	4/24/2018	6/12/2018

* Please see project details for description of delay

Table 1-2 lists the projects and deliverables that the City expects to complete during the upcoming semi-annual period of July 1, 2018 through December 31, 2018. This information is also available in Gantt chart format in Appendix A.

Table 1-2

Anticipated Completed Projects and Consent Decree Deliverables for the Next Reporting Period

CD Projects and Deliverables	CD Reference	CD Deadline	Anticipated Submittal/ Completion Date
Focused SSES and Rehab – South Chickamauga Creek 1-Phase 1	Section VI, para 21	7/24/2020	7/26/2018
Focused SSES and Rehab – South Chickamauga Creek 5	Section VI, para 21	7/24/2020	7/30/2018
East Brainerd PS Rehabilitation*	Section VI, para 22	4/24/2018	6/3/2018
Friars Branch PS Improvements*	Section VI, para 22	4/24/2018	10/2/2018
Friars Branch Basin Improvements*	Section VI, para 22	4/24/2018	7/30/2018
Highland Park GI Demonstration Project - Workshop	Section VII, para 30	4/24/2019	10/17/2018
Citico PS and CSOTF Upgrades**	Section IX, para 39(c)	N/A	7/30/2018
South Chick PS Phase II and Spring Creek PS Upgrades**	Section IX, para 39(c)	N/A	8/28/2018
MBWWTP Detritors Rehab**	Section IX, para 39(c)	N/A	8/2/2018
MBWWTP Control Room Upgrades**	Section IX, para 39(c)	N/A	12/24/2018
MBWWTP Secondary Clarifier Upgrades and Additions**	Section IX, para 39(c)	N/A	12/24/2018

* Please see project details for description of delay

** Additional project per paragraph 39(c) of CD

2.0 Introduction

2.1 Purpose

Pursuant to Section IX, paragraph 39, of the CD, the City is required to submit work progress reports on a semi-annual basis to the EPA and TDEC. Chattanooga has prepared this Report to satisfy this reporting requirement.

2.2 Requirements

As detailed in Section IX of the CD, the City is required to report the following information concerning compliance with the remedial actions set forth under the CD:

1. A description of projects and activities completed and milestones achieved during the previous 6-month period pursuant to the requirements of the CD, in Gantt chart or similar format, including a description of compliance or non-compliance with the requirements of the CD and, if applicable, the reasons for non-compliance;
2. A summary of significant projects and activities anticipated to be performed, and milestones anticipated to be achieved, in the successive 6-month period to comply with the requirements of the CD, in Gantt chart or similar format; and
3. Any additional information the City determines is appropriate to demonstrate that the City is implementing the remedial actions required under the CD in an adequate and timely manner.

2.3 Report Structure

Work progress is presented in the body of the Report in a narrative format. This narrative includes a brief description of each CD project, as well as any activities completed or milestones that were achieved or are anticipated to be completed. In addition to these descriptions, a detailed schedule containing each of the projects in Gantt format is provided in Appendix A.

3.0 Work Progress

3.1 Capacity, Management, Operations and Management (“CMOM”) Programs

3.1.1 CMOM-Sewer Overflow Response Protocol (“SORP”) (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

3.1.2 CMOM-Emergency Response Plan (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

3.1.3 CMOM-FOG Mgmt. Plan (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016. A revised FOG Plan was submitted to the EPA on September 28, 2016 and approved on December 7, 2016.

3.1.4 CMOM-Gravity Line Preventive Maintenance Program (“GLPMP”) (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

3.1.5 CMOM-PS Operations Program (“PSOP”) (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

3.1.6 CMOM-PS Preventive Maintenance Program (“PSPMP”) (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

3.1.7 CMOM-Hydraulic Model Development (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

3.1.8 CMOM-CAP (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 7 submitted January 25, 2017.

3.1.9 CMOM-Inter-Jurisdictional Agreement Program (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 4 submitted July 24, 2015.

3.2 Sanitary Sewer Evaluation Study (“SSES”) Work Plan (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016. As part of the implementation of the plan, the following Phase I rehabilitation projects are being executed as described below.

3.2.1 Focused SSES and Rehabilitation-Chattanooga Creek 4 (completed)

This project represents 1 of the 5 Phase I priority sewer sub-basins and is being executed in accordance with Paragraph 21 of the CD. The Chattanooga Creek 4 sewer sub-basin consists of approximately 69,504 linear feet (“LF”) of sanitary sewer piping, ranging from 6-inch to 48-inch diameter. The Notice to Proceed (“NTP”) for professional services was issued April 19, 2013, and SSES investigations were completed on approximately 61,567 LF of sewer by April 2014. The Preliminary Engineering Report (“PER”) was submitted November 5, 2014 and approved November 7, 2014. Approximately 42,930 LF of sanitary sewer were designated for rehabilitation. The final design was submitted to TDEC for review on March 28, 2016 and approval was received on July 8, 2016. Bidding began on July 9, 2016 and construction began March 2, 2017. 41,069 LF of pipe was rehabilitated and construction was completed on March 9, 2018.

3.2.2 Focused SSES and Rehabilitation-Dobbs Branch 3 (completed)

This project represents 1 of the 5 Phase I priority sewer sub-basins and is being executed in accordance with Paragraph 21 of the CD. The Dobbs Branch 3 sewer sub-basin consists of approximately 47,381 LF of sanitary sewer piping, ranging from 6-inch to 24-inch diameter. The NTP for professional services was issued April 19, 2013, and SSES investigations were completed for approximately 44,740 LF of sewer by October 4, 2013. The PER was submitted to the City on May 15, 2014 and approved May 16, 2014. Approximately 32,225 LF of sanitary sewer were designated for rehabilitation. The design was completed and submitted to TDEC on October 6, 2015 and approval was received from TDEC on October 28, 2015. Bidding began on October 29, 2015, and NTP for construction was issued March 14, 2016. Final completion of the original contract was met on May 7, 2017. Additional work added to the contract included cleaning approximately 1,980 LF of 78” sewer interceptor and 48” triple barrel stream crossing immediately upstream of the 23rd street PS, as well as cleaning the wet well at the 23rd street PS. 32,326 LF of pipeline was rehabilitated and construction was completed on June 30, 2018.

3.2.3 Focused SSES and Rehabilitation-South Chickamauga Creek 1 Phase 1 & Phase 2

This project represents 1 of the 5 Phase I priority sewer sub-basins and is being executed in accordance with Paragraph 21 of the CD. The South Chickamauga Creek 1 sewer sub-basin consists of approximately 81,809 LF of sanitary sewer piping, ranging from 4-inch to 84-inch diameter.

Phase 1 - The NTP for professional services was issued June 26, 2013, and SSES investigations were completed for approximately 69,751 LF of sewer by January 17, 2014. Approximately 13,257 LF of sanitary sewer were designated for rehabilitation. Final design was completed and the project was submitted to TDEC for approval on November 26, 2016. Contract bidding began December 29, 2016 and the NTP for construction was issued July 7, 2017. Construction is anticipated to be complete in the second half of 2018.

Phase 2 - Based on the results of the SSES it was determined that a PS will be installed to eliminate portions of the gravity sewer located in the flood plain to increase Inflow and Infiltration ("I/I") removal, and improve maintenance and reliability of the collection system infrastructure in the basin. The PS will redirect flows from the existing 12-inch sewer interceptor along the Tennessee River and South Chickamauga Creek shoreline to collection sewer pipelines feeding the 48-inch interceptor on Amnicola Highway. In addition to the PS, the project includes the installation of approximately 2,700 LF of force main and 1,100 LF of gravity sewer, and the abandonment of approximately 5,700 LF of 12-inch to 15-inch gravity interceptor and associated manholes. An NTP for professional services is anticipated in the second half of 2018.

3.2.4 Focused SSES and Rehabilitation-South Chickamauga Creek 5

This project represents 1 of the 5 Phase I priority sewer sub-basins and is being executed in accordance with Paragraph 21 of the CD. The South Chickamauga Creek 5 sewer sub-basin consists of approximately 89,414 LF of sanitary sewer piping, ranging from 6-inch to 36-inch diameter. The NTP for professional services was issued April 18, 2013, and SSES investigations were completed for approximately 73,923 LF of sewer piping in 2014. The PER was submitted on January 8, 2015 and approximately 19,560 LF of sanitary sewer were recommended for rehabilitation. Final design was completed and the project was submitted to TDEC on November 7, 2016 and approval was received February 10, 2017. Bidding began November 08, 2016 and construction began May 30, 2017. This project is anticipated to be completed in the second half of 2018.

3.2.5 Focused SSES and Rehabilitation-South Chickamauga Creek 16 (completed)

This project represents 1 of the 5 Phase I priority sewer sub-basins. This project has been completed. See Semi-Annual Report No. 5 submitted January 27, 2016.

3.3 Early Action Capital Improvement Projects

3.3.1 SSO and Wet Weather Volume Reduction Projects

3.3.1.1 DuPont PS and Basin Improvements – Phase 1 and Phase 2

The DuPont PS and Basin Improvements Phase 1 (completed) and 2 projects are being performed pursuant to Paragraph 22 and Appendix C of the CD.

Phase 1 includes SSES and rehabilitation of sewers within the DuPont PS service area which are within three selected sub-basins (North Chickamauga Creek 1, North Chickamauga Creek 3, and Tennessee River 10). The total amount of sewer estimated from these basins for SSES is approximately 270,008 LF ranging from 8-inch to 48-inch diameter. The NTP for Phase 1 professional services was issued on April 19, 2013, and SSES has been performed on approximately 242,966 LF of sewer piping and from the results of the SSES, approximately 27,468 LF of sanitary sewer and service pipelines were designated for rehabilitation and approximately 1,800 LF of pipeline will be relocated out of an environmentally sensitive area. The final PER was submitted on September 5, 2014, and the design was completed and submitted to TDEC for review and approval on August 24, 2015. TDEC approval was received December 2, 2015. The bidding phase began on December 3, 2015 and the NTP for construction was issued March 16, 2016. Construction began April 15, 2016 and a total of 24,841.5 LF of pipeline was installed. Construction was completed March 17, 2018.

Phase 2 The original plan called for the design and construction of approximately 7.5 million gallons of wet weather storage and a new wet weather PS at the DuPont PS site. Prior to the start of construction in the first half of 2017, public concern of the nature of the project grew and the City undertook an analysis of potential alternatives. In 2018, the City developed a new plan which calls for the design and construction of an approximately 22 Million Gallons per Day (“MGD”) new wet weather PS further downstream of the existing DuPont PS site on City owned property in a commercial area where the DuPont-Lupton City interceptors merge. The project also includes a new diversion structure, standby generator, as well as the upsizing of approximately 7,000 LF section of gravity interceptor. The re-design is currently in progress utilizing the original professional services NTP of June 23, 2015. Work on the re-design will continue in the first half of 2018, with an estimated construction completion in the first half of 2020.

3.3.1.2 Collegedale PS Improvements (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 7 submitted January 25, 2017.

3.3.1.3 East Brainerd Collection System and PS Rehabilitation

The East Brainerd Collection System and PS Rehabilitation project is being performed pursuant to Paragraph 22 and Appendix C of the CD. This project includes the SSES and rehabilitation of portions of the East Brainerd basin collection system and the upgrade of the PS. Improvements to the collection system and PS were designed as two different projects with two sets of contract documents.

Collections System Rehabilitation- This work has been completed. See Semi-Annual Report No. 5 submitted January 27, 2016.

PS Rehabilitation- The PS upgrade will include constructing one cast-in-place wet-well containing four submersible pumps and appurtenances; one precast electrical building approximately 20-feet by 30-feet containing variable frequency drives, necessary electrical gear to support the submersible pumps, restroom facility and HVAC units; a 30-inch force main approximately 500 LF in length connecting the new PS with the discharge manhole at the force main sewer discharge; and an on-site emergency generator and switch gear to power the new PS. The NTP for professional services was issued March 26, 2011. The design was submitted to TDEC on August 2, 2014 and approval of the contract documents for the PS rehabilitation was received on January 29, 2015. Bids were received on May 7, 2015, and the contract was awarded on July 16, 2015. The NTP for the PS rehabilitation construction contract was issued August 7, 2015. Early in the excavation process, the contractor's subcontractor was blasting rock and caused damage to the existing PS, which was in use. This resulted in the contractor significantly falling behind schedule as they had to refocus their efforts on emergency bypassing and repairing the PS to prevent environmental damage from SSOs. This effort took significant manpower and time. Upon completing the repair of the existing PS, the contractor resumed efforts on the new PS excavation, but was further restricted as they could no longer blast the rock in this area. Additionally, the contractor encountered rock material they found to be more difficult to excavate than they originally planned, and this ultimately extended the duration of the project by approximately six months. Substantial Completion was achieved June 12, 2018.

3.3.1.4 Altamont Sewer Basin and PS Improvements (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 2 submitted July 28, 2014.

3.3.1.5 Pineville PS and Sewer Basin Improvements (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 3 submitted January 27, 2015.

3.3.1.6 Citico Creek Interceptor Rehabilitation (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 2 submitted July 28, 2014.

3.3.1.7 Highland Park Sewer Rehabilitation (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 9 submitted January 29, 2018.

3.3.1.8 Citico CSOTF PS Improvement Study (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 3 submitted January 27, 2015.

3.3.1.9 Tremont Area Sewer Separation Study (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 2 submitted July 28, 2014.

3.3.1.10 Enterprise South Industrial Park (“ESIP”) PS, Force Main and Interceptor Upgrade (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

3.3.1.11 Orchard Knob PS Improvements

The Orchard Knob PS Improvements project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The upgrade involves the replacement of the existing pumps, piping, valves, electrical controls and instrumentation, and back-up generator. The NTP for professional services was issued January 22, 2013, and the final PER was submitted to the City on February 28, 2014. The final design was submitted to TDEC on August 20, 2015 and approval was received October 12, 2015. The project bid phase started on October 21, 2015 and the NTP for construction was issued March 18, 2016. Substantial completion was obtained on June 21, 2017.

3.3.1.12 Friars Branch PS Improvements

The Friars Branch PS Improvements project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The purpose of this project is to design and construct improvements to increase reliability and extend the service life of the PS. This project involves replacement of the existing pumps, piping, effluent trough, electrical controls and instrumentation, and addition of an onsite odor control system. The NTP for professional services was issued April 19, 2013, and the final PER was submitted to the City on May 15, 2014. The final design was completed and submitted to TDEC for review October 30, 2015. Approval was received from TDEC on January 27, 2016. The project was originally bid in March 2016 with an apparent low bid contractor. However, at that time the City was in mediation with the same low bid contractor on another SRF Consent Decree project. As a result, the City decided that the original bid should be canceled and rebid. This added an additional 10 months to the project schedule. The schedule was also delayed due to issues related to refitting and testing the pumps. Completion is now anticipated for the second half of 2018.

3.3.1.13 Friars Branch Basin Improvements

The Friars Branch Basin Improvements project is being performed pursuant to Paragraph 22 and Appendix C of the CD. This project involves rehabilitation of portions of the collection system in the Friars Branch basin. The sewer basin consists of approximately 221,344 LF of sanitary sewer piping, ranging from 4-inch to 30-inch diameter. The NTP for professional services was issued on April 18, 2013 and SSES investigations were conducted on approximately 214,104 LF of sewer piping as of December 10, 2013. From the results of the SSES, approximately 20,827 LF of sanitary sewer, service pipeline, and the associated manholes were designated to be rehabilitated. The PER was approved by the City on January 28, 2015 and the design was completed and submitted to TDEC December 24, 2016. Construction began April 28, 2017. After the project began, the City determined it wanted to add the rehabilitation of 6,030 LF of 30 and

36-inch pipelines, as well as the surface and subsurface rehabilitation of 23 manholes, which extended the project schedule by five months. Final completion is now anticipated in the second half of 2018.

3.3.1.14 Chattanooga Creek Interceptor Rehabilitation (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

3.3.1.15 Tannery Flats Interceptor Rehabilitation (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

3.3.1.16 East Bank/West Bank ("EB/WB") Flow Monitoring (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

3.3.2 MBWWTP Projects

3.3.2.1 MBWWTP Secondary Clarifier Valve Motor Operator Replacement (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

3.3.2.2 MBWWTP Hydraulic and Pump Improvements (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

3.3.2.3 MBWWTP Bar and Fine Screen Replacements (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

3.3.2.4 MBWWTP Effluent Disinfection System Upgrade (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

3.3.3 CSO Projects

3.3.3.1 Carter Street CSOTF Sewer Outfall Replacement (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

3.3.3.2 Automation of Valve Operators at CSO Facilities (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 1 submitted January 30, 2014.

3.3.4 Operations Projects

3.3.4.1 South Chickamauga PS Reliability Improvements (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 1 submitted January 30, 2014.

3.3.4.2 MBWWTP Telemetry and Supervisory Control and Data Acquisition (“SCADA”) Upgrades (Completed)

This project has been completed. See Semi-Annual Work Progress Report No. 9 submitted January 29, 2018.

3.4 Long Term Control Plan (“LTCP”) Updates

3.4.1 LTCP-Additional Operational Plan (“AOP”) (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 9 submitted January 29, 2018.

3.4.2 LTCP-Post Construction Compliance Monitoring Program (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 3 submitted January 27, 2015.

3.5 MBWWTP Process Controls Program (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 3 submitted January 27, 2015.

3.6 Green Infrastructure (“GI”) Program Plan for CSS Basins (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

3.7 Civil Penalty

Compliance with Section VII of the CD requires the payment of the sum of \$476,400 as a civil penalty. Payment of the civil penalty is to be made as follows:

- Cash Payment – 50% of the civil penalty (\$238,200) is to be paid to the United States by FedWire Electronic Funds Transfer. This payment was made to EPA on May 17, 2013.
- State Project – the remaining 50% of the civil penalty is to be spent on the state project in accordance to Appendix D of the CD.

3.7.1 Cash Payment (completed)

In accordance with Paragraph 29 of the CD, the cash payment of \$238,200 was made to EPA on May 17, 2013.

3.7.2 Highland Park GI Demonstration Project

The Highland Park Green Infrastructure Demonstration Project (“State Project”) is currently being performed pursuant to Appendix D of the CD. The State Project involves retrofitting a portion of the Highland Park neighborhood in Chattanooga with green infrastructure through the use of green infrastructure practices such as streetscapes, pervious pavement, tree boxes, bio-swales and bio-retention facilities. The NTP for professional services was issued January 1, 2013. A project plan was developed and submitted to the EPA on October 24, 2013, and approval of the plan was received April 25, 2014. The final design was approved by the EPA on October 23, 2014. The bid phase began on October 23, 2014, and construction began May 25, 2017, and construction was completed on March 15, 2017. The mayor’s ribbon cutting ceremony was conducted on May 25, 2018, and the GI design workshop is scheduled to occur in the second half of 2018.

3.8 Agawela Drive Stream Restoration – SEP (completed)

The SEP is being performed pursuant to Section VIII and Appendix E of the CD. The Agawela Drive Stream Restoration targets a tributary of the South Chickamauga Creek, which is currently on the 303(d) list for habitat alteration and sediment. The SEP involves restoration of a minimum of 1,500 LF of the tributary and is designed to significantly improve water quality of both the tributary and South Chickamauga Creek. The NTP for professional services was issued on January 23, 2013, and the PER was submitted to the City May 21, 2013. TDEC issued the Aquatic Resource Alternation Permit (“ARAP”) permit on August 17, 2015. Bidding began February 25, 2016 and the NTP for construction services was issued on June 27, 2016. The substantial completion certificate was submitted on December 24, 2016 and completed on March 15, 2017. Additional scope was then added to the project, and the SEP Completion Report required per paragraph 33 of the CD was submitted May 21, 2018. EPA approved the submittal in a letter dated June 25, 2018.

3.9 Reporting Requirements

Compliance with Section IX of the CD requires the City to submit the following reports on a calendar schedule:

- Quarterly Reports, including detailed information on Chattanooga’s SSOs, CSO discharges and bypasses at the MBWWTP;
- Semi-Annual Work Progress Reports, including CD deliverable milestones achieved in the last 6 months and projections for activities anticipated to be completed in the following 6 months; and

-
- Annual Reports, including trends and analyses of the results of the Chattanooga CD programs including CMOM and SSO reduction programs.

To date, the following reports have been submitted to the EPA:

- Quarterly Reports 1 – 19;
- Semi-Annual Work Progress Reports 1 – 9, and
- Annual Report 1 - 5.

The following reports will be submitted to the EPA during (or shortly after) the next Reporting Period:

- Quarterly Reports 20 and 21;
- Semi-Annual Work Progress Report 10; and
- Annual Report 6.

3.10 Stipulated Penalties

Paragraph 48 of the CD sets forth the nine categories of CD violations or milestones subject to stipulated penalties under the CD. The City is anticipating a demand letter during the next reporting period for 2017 SSOs.

4.0 Additional Work

According to paragraph 39(c) of the CD, the City is required to include in this Report “any additional information Chattanooga determines is appropriate to demonstrate that Chattanooga is implementing the remedial actions required under this Consent Decree in an adequate and timely manner.” The purpose of this section is to address this requirement of the CD.

In addition to the work progress achieved in accordance with the CD as described in the previous sections, the City continued to implement remedial and improvement efforts under the existing Capital Improvement Program during the Reporting Period. The work described below is aimed at assessing and improving Chattanooga’s Interceptor Sewer System (“ISS”). While not required by the CD, these projects directly impact Chattanooga’s on-going effort to reduce and eliminate SSOs.

4.1 201 Facility Plan Update (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 7 submitted January 25, 2017.

4.2 MBWWTP Backup Electrical Power (complete)

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016

4.3 Citico PS and CSOTF Upgrades

The Citico PS and CSOTF Upgrades project involves the design and construction of pumping improvements to the Citico CSOTF to restore ISS capacity, improve reliability, reduce SSOs, and comply with State and Federal regulations. The project includes an evaluation of the Citico PS to determine improvements necessary to operate the PS at design capacity as well as design and construction oversight of the selected improvements. A consultant has been contracted to perform the design and the NTP for professional services was issued on January 27, 2015. TDEC approval of the plans was received November 30, 2016. Bidding commenced July 14, 2016, and construction began December 1, 2016. Construction is anticipated to be complete in the second half of 2018.

4.4 South Chick PS Phase II and Spring Creek PS Upgrades

The South Chick PS Phase II and Spring Creek PS Upgrades project will evaluate and design additional reliability improvements for the South Chickamauga Creek PS, including replacement of the sluice gates and bar screens and rehabilitation of the PS wet well. This project will also

evaluate and design improvements for the Spring Creek PS in order to meet or exceed the rated capacity of the existing PS. Improvements for both pumping stations have been scoped under a single contract. The NTP for professional services was awarded on May 6, 2015. Comments were received from TDEC on May 4, 2016 and plans were resubmitted May 16, 2016. TDEC approval was received August 3, 2016. Bidding commenced on August 4, 2016 and the NTP for construction services was issued October 27, 2016 and construction for rehabilitation of the Northwest Georgia Interceptor was completed April 10, 2017. Additional evaluation of the Spring Creek PS force main using SmartBall technology was performed October 11, 2017, but due to field issues, analysis of the data was not performed. The evaluation is anticipated to be completed in the second half of 2018.

4.5 Carter Street Sewer Rehabilitation (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

4.6 MBWWTP – Detritors Rehabilitation

This project involves the rehabilitation and upgrade of the influent grit detritors and related splitter box at the MBWWTP. This project will improve reliability and prevent equipment failure that could lead to bypasses during peak flows by updating aging infrastructure. The NTP for professional services was awarded on July 1, 2015. The project was submitted to TDEC on October 28, 2016, and approval was received on December 12, 2016. Bidding began December 13, 2016, and construction began March 26, 2017. Construction is anticipated to be complete in the second half of 2018.

4.7 Friar’s Branch-South Chick Creek 5 Interceptor Rehabilitation

This project involves the rehabilitation of portions of the collection system in the Friars Branch and South Chickamauga Creek 5 Sub Basins using trenchless technologies. Approximately 23,640 LF of gravity sewer line was identified for evaluation. Trenchless rehabilitation allows the City to conduct the repairs while limiting disturbances to the areas near the work site. The NTP for professional services was awarded on August 6, 2015 and SSES investigations were conducted on approximately 23,640 LF of sewer line. From the results of the SSES, approximately 9,469 LF of sanitary sewer, service pipeline, and associated manholes were designated to be rehabilitated. The PER was approved February 2, 2016 and bidding began November 18, 2017. Construction commenced March 22, 2018, and is anticipated to be complete in the first half of 2019.

4.8 MBWWTP-Control Room Upgrades

This project involves improvements to the existing MBWWTP control room with including building renovations, computer hardware, software, and logic coding upgrades to the SCADA System. The upgrades will allow the Waste Resources Division (“WRD”) to operate and manage the

wastewater system more efficiently and reliable through the SCADA system. The NTP for professional services was awarded on November 30, 2015. Bidding commenced on May 16, 2017, and construction began December 23, 2017. Construction is anticipated to be complete in the second half of 2018.

4.9 Citico PS Reliability Improvements

This project consists of the addition of an emergency backup pumping system, the addition of an emergency standby generator that is capable of running the entire station at its rated flowrate of 117 MGD, and electrical reliability improvements. The NTP for professional services was issued November 23, 2016. Construction bidding began May 16, 2017, and construction began on September 1, 2017. Construction is anticipated to be complete in the second half of 2019.

4.10 Brainerd Golf Course PS Safety Upgrade

This project involves making safety improvements to the East Brainerd Golf Course PS. This work includes the replacement and upgrade of the existing pumps, piping, valves, electrical and instrumentation equipment. The upgrades will allow the station to increase its capacity, performance and reliability and help to reduce SSOs in the area. The Request for Quotation ("RFQ") for professional services was issued on December 20, 2016, and the project is currently in the design phase. Bidding is scheduled to begin in the second half of 2018.

4.11 Wet Weather Combined Sewer Storage – Phase 1, 2 & 3

This project is a major component of the ISS plan to reduce system overflows and stay within compliance of the EPA mandated Chattanooga CD Program. This project will construct Phase 1, 2 & 3 of wet weather storage system at the Hamm Rd site and store peak wet weather flows, prevent sanitary sewer overflows at the West Bank Overflow, and meet the future capacity requirements as set forth in the Consent Decree. The project will also increase reliability throughout the combined and sanitary sewer system in the event of a power or mechanical failure. This project will provide the City with the system capacity necessary to approve future developments and promote growth throughout the City and surrounding areas. The NTP for professional services was awarded on November 3, 2017, and the project is currently in the planning phase. Bidding is anticipated to commence in the second half of 2018.

4.12 MBWWTP Secondary Clarifier Upgrades and Additions

The MBWWTP Secondary Upgrades and Additions project is required under Paragraph 22 and Appendix C of the CD. The project will provide evaluation and design of improvements to increase the MBWWTP secondary treatment capacity from 140 MGD to 150 MGD. Improvements involve the addition of two new secondary clarifiers, flow control to new and existing clarifiers, additional chlorine contact volume, and associated yard piping. An evaluation of the liquid stream processes at the plant will also be conducted. The NTP for professional services was issued February 12, 2015 and the PER was completed in November of 2015. The detailed design was completed and

submitted to TDEC for approval on May 16, 2016 and approval was received July 7, 2016. Bidding began July 20, 2016. Bidding was completed March 27, 2017 and construction commenced March 28, 2017. The project is anticipated to be complete in the second half of 2018.

4.13 CSOTF Study (completed)

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

4.14 CSOTF Improvements - Phase 1

This project includes structural, instrumentation and SCADA control changes to the CSOTF facilities in improves reliability and capacity utilization. An NTP for professional services is anticipated in the second half of 2018 with an estimated construction completion in the second half of 2019.

4.15 Dobbs Branch Basin Improvements – Phase 1

This project involves the creation of construction documents for the rehabilitation of up to 100,000 LF of 8-inch to 24-inch sanitary sewers in the Dobbs Branch sub-basins 3 and 4. The construction documents will provide rehabilitation for sewer segments and associated manholes that have not previously been restored. Pipeline rehabilitation methods will include cured-in-place-pipe (“CIPP”), point repairs, pipe bursting, and/or open cut replacement. The design also includes the rehabilitation of up to 400 manholes within the sewer basin through the installation of a watertight spray-on liner. A smoke testing investigation of the 138,000 LF basin will be performed to identify illicit connections. Tabulated and ranked data will be provided to the City for execution outside the contract. This project is currently in the procurement phase and detailed design is anticipated to begin in the second half of 2018.

4.16 Dobbs Branch Basin Improvements – Phase 2

This project involves the creation of construction documents for the rehabilitation of up to 100,000 LF of 8-inch to 24-inch sanitary sewers in the Dobbs Branch sub-basins 5 and 6. The construction documents will provide rehabilitation for sewer segments and associated manholes that have not previously been restored. Pipeline rehabilitation methods will include CIPP, point repairs, pipe bursting, and/or open cut replacement. The design also includes the rehabilitation of up to 400 manholes within the sewer basin through the installation of a watertight spray-on liner. A smoke testing investigation of the 137,000 LF basin will be performed to identify illicit connections. Tabulated and ranked data will be provided to the City for execution outside the contract. This project is currently in the procurement phase and detailed design is anticipated to begin in the second half of 2018.

4.17 South Chickamauga Interceptor Improvements - Phase 1

This project involves the rehabilitation of approximately 4,000 LF of 60-inch interceptor pipeline and selected manholes in the South Chickamauga Creek basin. Pipeline rehabilitation methods will include CIPP, point repairs, and open cut replacement. This project will reduce I/I and SSOs in an interceptor that has been identified as high priority by an SSES and will restore collection system capacity. This project is in the detailed design phase and construction bidding is anticipated to begin in the second half of 2018.

4.18 Selected PS Safety Upgrades

This project involves the evaluation, design and construction of new (replacement) wastewater PSs at two locations: Murray Hills #5, off of Webb Road and Brainerd Manor located off of Moore Road, near the airport. The existing stations are “can” stations and are in need of new standard PSs utilizing the existing design criteria in regards to flow data, pump requirements, wet well size, etc. per respective station. This project is currently in the procurement phase, and construction is anticipated to be complete in the second half of 2019.

Appendix A

Project Schedules Gantt Chart

Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
Chattanooga Consent Decree Deliverables Schedule							Consent Decree Deliverables Schedule																																											
Program Milestones							Program Milestones																																											
Program Milestones							Program Milestones																																											
Consent Decree Effective Date							Consent Decree Effective Date																																											
PROGRAM MILESTONES							PROGRAM MILESTONES																																											
East	Consent Decree Effective Date	24-Apr-13 A	24-Apr-13			100%	Consent Decree Effective Date																																											
Section II - Applicability							Section II - Applicability																																											
Para 5 - Distribute CD							Para 5 - Distribute CD																																											
Distribute Consent Decree							Distribute Consent Decree																																											
Consent Decree Duration (1 Month)							Consent Decree Duration (1 Month)																																											
BA1010	Distribute CD to All Entities/People Who Will Have Duties Associated with Compliance of CD	24-Apr-13 A	24-Apr-13	24-May-13 A	24-May-13	100%	Distribute CD to All Entities/People Who Will Have Duties Associated with Compliance of CD																																											
Section V - Review / Certification of Deliverables							Section V - Review / Certification of Deliverables																																											
Para 9 - Public Document Repository							Para 9 - Public Document Repository																																											
Public Document Repository							Public Document Repository																																											
Consent Decree Duration							Consent Decree Duration																																											
BB1010	Set up PDR Before First Reviewable CD Submittal is Due	24-Apr-13 A	24-Apr-13	10-Oct-13 A	10-Oct-13	100%	Setup PDR Before First Reviewable CD Submittal is Due																																											
Section VI - Compliance Requirements							Compliance Requirements																																											
Para 19 - Community Input Plan							Para 19 - Community Input Plan																																											
Community Input Plan							Community Input Plan																																											
Consent Decree Duration							Consent Decree Duration																																											
A4310	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Nov-13 A	24-Nov-13	100%	Consent Decree Duration																																											
Community Input Plan							Community Input Plan																																											
BC1010	Community Input Plan Development	24-Apr-13 A	24-Apr-13	24-Nov-13 A	24-Nov-13	100%	Community Input Plan Development																																											
BC1020	Community Input Plan Submitted to WWRAB	25-Nov-13 A	25-Nov-13	25-Nov-13 A	25-Nov-13	100%	Community Input Plan Submitted to WWRAB																																											
Para 20 - CMOM							CMOM-Sewer Overflow Response Protocol (SORP)																																											
CMOM-Sewer Overflow Response Protocol (SORP)							CMOM-Sewer Overflow Response Protocol (SORP)																																											
Consent Decree Duration (7 Months)							Consent Decree Duration (7 Months)																																											
OA0100	Consent Decree Duration (7 Months)	24-Apr-13 A	24-Apr-13	25-Nov-13 A	25-Nov-13	100%	Consent Decree Duration (7 Months)																																											
OA0110	Consent Decree Duration Completion Milestone			25-Nov-13 A	25-Nov-13	100%	Consent Decree Duration Completion Milestone																																											
Project Procurement							Project Procurement																																											
OA0200	PM Procurement	15-Jul-12 A	15-Jul-12	15-Jul-12 A	15-Jul-12	100%	PM Procurement																																											
Planning Phase							Planning Phase																																											
OA0010	Administration Period	15-Jul-12 A	15-Jul-12	28-Feb-13 A	28-Feb-13	100%	Administration Period																																											
OA1000	Planning Phase	01-Mar-13 A	01-Mar-13	22-Oct-13 A	22-Oct-13	100%	Planning Phase																																											
Public Document Repository							Public Document Repository																																											
OA2000	Submit Draft Deliverable to Reference Librarian	23-Oct-13 A	23-Oct-13	23-Oct-13 A	23-Oct-13	100%	Submit Draft Deliverable to Reference Librarian																																											
OA2010	Post Copy of Draft Deliverable on City's Website	23-Oct-13 A	23-Oct-13	23-Oct-13 A	23-Oct-13	100%	Post Copy of Draft Deliverable on City's Website																																											
OA2020	Public Review Period	24-Oct-13 A	24-Oct-13	24-Nov-13 A	24-Nov-13	100%	Public Review Period																																											
OA2030	Public Comment Review Period	23-Nov-13 A	23-Nov-13	25-Nov-13 A	25-Nov-13	100%	Public Comment Review Period																																											
OA2040	Submit Deliverable to EPA, TDEC and Provide notice to TCWN			25-Nov-13 A	25-Nov-13	100%	Submit Deliverable to EPA, TDEC and Provide notice to TCWN																																											
EPA and TDEC Approvals							EPA and TDEC Approvals																																											
OA0900	Place Copy of EPA and TDEC Submittal in PDR	26-Nov-13 A	26-Nov-13	04-Dec-13 A	04-Dec-13	100%	Place Copy of EPA and TDEC Submittal in PDR																																											
OA0910	EPA / TDEC Review	26-Nov-13 A	26-Nov-13	28-May-14 A	28-May-14	100%	EPA / TDEC Review																																											
OA0920	Address Comments for Final EPA / TDEC Approval	29-Mar-14 A	29-Mar-14	29-May-14 A	29-May-14	100%	Address Comments for Final EPA / TDEC Approval																																											
OA0930	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	30-May-14 A	30-May-14	05-Jun-14 A	05-Jun-14	100%	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)																																											



- Summary
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Baseline Milestone

CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I
CITY OF CHATTANOOGA, TN
WASTE RESOURCES DIVISION



Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
CMOM-Emergency Response Plan																																																		
Consent Decree Duration (19 Months)																																																		
OB0100	Consent Decree Duration (19 Months)	24-Apr-13 A	24-Apr-13	24-Nov-14 A	24-Nov-14	100%																																												
OB0110	Consent Decree Duration Completion Milestone			24-Nov-14 A	24-Nov-14	100%																																												
Project Procurement																																																		
OB1000	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	01-Dec-12 A	01-Dec-12	100%																																												
OB1010	Consultant develops and Submit Scope and Cost proposal	18-Oct-12 A	18-Oct-12	27-Oct-12 A	27-Oct-12	100%																																												
OB1020	PMO Reviews/ Negotiates and Approve Proposal / Agreement	18-Oct-12 A	18-Oct-12	27-Oct-12 A	27-Oct-12	100%																																												
OB1030	PMO Approved Agreement to Council for Approval	18-Oct-12 A	18-Oct-12	04-Nov-12 A	04-Nov-12	100%																																												
OB1040	Consultant Signed Agreement to City for Execution	18-Oct-12 A	18-Oct-12	31-Oct-12 A	31-Oct-12	100%																																												
Planning Phase																																																		
OB2000	Planning Phase	23-Jan-13 A	23-Jan-13	20-Aug-14 A	20-Aug-14	100%																																												
OB2010	Program Manager / Owner Review and Coordination	21-Aug-14 A	21-Aug-14	12-Oct-14 A	12-Oct-14	100%																																												
Public Document Repository																																																		
OB3000	Submit Draft Deliverable to Reference Librarian	13-Oct-14 A	13-Oct-14	13-Oct-14 A	13-Oct-14	100%																																												
OB3010	Post Copy of Draft Deliverable on City's Website	13-Oct-14 A	13-Oct-14	13-Oct-14 A	13-Oct-14	100%																																												
OB3020	Public Review Period	12-Oct-14 A	12-Oct-14	17-Nov-14 A	17-Nov-14	100%																																												
OB3030	Public Comment Review Period	18-Nov-14 A	18-Nov-14	20-Nov-14 A	20-Nov-14	100%																																												
OB3040	Submit Deliverable to EPA, TDEC and Provide notice to TCWN			20-Nov-14 A	20-Nov-14	100%																																												
EPA and TDEC Approvals																																																		
OB0900	Place Copy of EPA and TDEC Submittal in PDR	21-Nov-14 A	21-Nov-14	24-Nov-14 A	24-Nov-14	100%																																												
OB0910	EPA /TDEC Review	21-Nov-14 A	21-Nov-14	12-Mar-15 A	12-Mar-15	100%																																												
OB0920	Address Comments for Final EPA/ TDEC Approval	13-Mar-15 A	13-Mar-15	28-Jul-15 A	28-Jul-15	100%																																												
OB0930	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	08-Dec-15 A	08-Dec-15	14-Dec-15 A	14-Dec-15	100%																																												
CMOM-Fats, Oils, and Grease (FOG) Mgmt. Plan																																																		
Consent Decree Duration (13 Months)																																																		
OC0100	Consent Decree Duration	24-Apr-13 A	24-Apr-13	27-May-14 A	27-May-14	100%																																												
OC0110	Consent Decree Duration Completion Milestone			27-May-14 A	27-May-14	100%																																												
Project Procurement																																																		
OC1000	PM Procurement	15-Jul-12 A	15-Jul-12	15-Jul-12 A	15-Jul-12	0%																																												
Planning Phase																																																		
OC1005	Administration Period	15-Jul-12 A	15-Jul-12	09-Sep-13 A	09-Sep-13	100%																																												
OC1010	Planning Phase	10-Sep-13 A	10-Sep-13	16-Feb-14 A	16-Feb-14	100%																																												
OC1020	Program Manager / Owner Review and Coordination	17-Feb-14 A	17-Feb-14	15-Apr-14 A	15-Apr-14	100%																																												
Public Document Repository																																																		
OC2000	Submit Draft Deliverable to Reference Librarian	16-Apr-14 A	16-Apr-14	16-Apr-14 A	16-Apr-14	100%																																												
OC2010	Post Copy of Draft Deliverable on City's Website	16-Apr-14 A	16-Apr-14	16-Apr-14 A	16-Apr-14	100%																																												
OC2020	Public Review Period	17-Apr-14 A	17-Apr-14	17-May-14 A	17-May-14	100%																																												
OC2030	Public Comment Review Period	18-May-14 A	18-May-14	27-May-14 A	27-May-14	100%																																												
OC2040	Submit Deliverable to EPA, TDEC and Provide notice to TCWN			27-May-14 A	27-May-14	100%																																												
EPA and TDEC Approvals																																																		
OC0900	Place Copy of EPA and TDEC Submittal in PDR	28-May-14 A	28-May-14	05-Jun-14 A	05-Jun-14	100%																																												



- Summary
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Baseline Milestone

CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I
CITY OF CHATTANOOGA, TN
WASTE RESOURCES DIVISION



Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
Consent Decree Duration (87 Months)							Consent Decree Duration (87 Months)																																											
OK1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	27-Jul-20		71.38%	Consent Decree Duration, Consent Decree Duration																																											
OK1050	Consent Decree Duration Completion Milestone			27-Jul-20*		0%																																												
Project Procurement							Project Procurement																																											
OK1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	12-Dec-12 A	12-Dec-12	18-Apr-13 A	18-Apr-13	100%	CD Prequalification Procurement (FY 2012 -2013) Priority II - Development and Issuance of RFP																																											
OK1100	Consultant develops and Submit Scope and Cost proposal	16-Feb-13 A	16-Feb-13	01-Mar-13 A	01-Mar-13	100%	Consultant develops and Submit Scope and Cost proposal																																											
OK1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	02-Mar-13 A	02-Mar-13	15-Mar-13 A	15-Mar-13	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																																											
OK1120	PMO Approved Agreement to Council for Approval	16-Mar-13 A	16-Mar-13	22-Mar-13 A	22-Mar-13	100%	PMO Approved Agreement to Council for Approval																																											
OK1130	Consultant Signed Agreement to City for Execution	23-Mar-13 A	23-Mar-13	18-Apr-13 A	18-Apr-13	100%	Consultant Signed Agreement to City for Execution																																											
Planning Phase							Planning Phase																																											
OK1000	Planning Phase	19-Apr-13 A	19-Apr-13	04-Nov-14 A	04-Nov-14	100%	Planning Phase																																											
OK1060	SRF Facility Plan Approval	24-Oct-13 A	24-Oct-13	28-Apr-14 A	28-Apr-14	100%	SRF Facility Plan Approval																																											
Engineering Phase							Engineering Phase																																											
OK1010	Engineering	05-Nov-14 A	05-Nov-14	28-Oct-15 A	28-Oct-15	100%	Engineering																																											
OK1020	SRF Approval of Contract Documents	08-Oct-15 A	08-Oct-15	28-Oct-15 A	28-Oct-15	100%	SRF Approval of Contract Documents																																											
Construction Bidding Phase							Construction Bidding Phase																																											
OK1070	Construction Bidding Phase	29-Oct-15 A	29-Oct-15	14-Mar-16 A	14-Mar-16	100%	Construction Bidding Phase																																											
OK2000	SRF Administration Period	24-Feb-16 A	24-Feb-16	14-Mar-16 A	14-Mar-16	100%	SRF Administration Period																																											
Construction Phase							Construction Phase																																											
OK1080	Construction Phase	15-Feb-16 A	15-Feb-16	30-Jun-18 A	30-Jun-18	100%	Construction Phase																																											
EPA and TDEC Approvals							EPA and TDEC Approvals																																											
OK1030	Notification of Completion to EPA, TDEC, TCWN	30-Jun-18		30-Jun-18		0%	Notification of Completion to EPA, TDEC, TCWN																																											
Focused SSES and Rehab - South Chick Creek 1							Focused SSES and Rehab - South Chick Creek 1																																											
Consent Decree Duration (87 Months)							Consent Decree Duration (87 Months)																																											
OL1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	27-Jul-20		71.38%	Consent Decree Duration, Consent Decree Duration																																											
OL1050	Consent Decree Duration Completion Milestone			27-Jul-20*		0%																																												
Project Procurement							Project Procurement																																											
OL1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	12-Dec-12 A	12-Dec-12	18-Apr-13 A	18-Apr-13	100%	CD Prequalification Procurement (FY 2012 -2013) Priority II - Development and Issuance of RFP																																											
OL1100	Consultant develops and Submit Scope and Cost proposal	16-Feb-13 A	16-Feb-13	01-Mar-13 A	01-Mar-13	100%	Consultant develops and Submit Scope and Cost proposal																																											
OL1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	02-Mar-13 A	02-Mar-13	15-Mar-13 A	15-Mar-13	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																																											
OL1120	PMO Approved Agreement to Council for Approval	16-Mar-13 A	16-Mar-13	22-Mar-13 A	22-Mar-13	100%	PMO Approved Agreement to Council for Approval																																											
OL1130	Consultant Signed Agreement to City for Execution	23-Mar-13 A	23-Mar-13	18-Apr-13 A	18-Apr-13	100%	Consultant Signed Agreement to City for Execution																																											
Planning Phase							Planning Phase																																											
OL1000	Planning Phase	26-Jun-13 A	26-Jun-13	01-Oct-15 A	01-Oct-15	100%	Planning Phase																																											
Engineering Phase							Engineering Phase																																											
OL1010	Engineering	11-Feb-15 A	11-Feb-15	01-Jun-17 A	01-Jun-17	100%	Engineering																																											
OL1020	SRF Approval of Contract Documents	08-Dec-16 A	08-Dec-16	01-Jun-17 A	01-Jun-17	100%	SRF Approval of Contract Documents																																											
Construction Bidding Phase							Construction Bidding Phase																																											
OL1070	Construction Bidding Phase	29-Dec-16 A	29-Dec-16	07-Jul-17 A	07-Jul-17	100%	Construction Bidding Phase																																											
OL1075	SRF Administration Period	29-Jun-17 A	29-Jun-17	07-Jul-17 A	07-Jul-17	100%	SRF Administration Period																																											
Construction Phase							Construction Phase																																											
OL1080	Construction Phase	07-Jul-17 A	07-Jul-17	26-Jul-18		87.32%	Construction Phase, Construction Phase																																											
EPA and TDEC Approvals							EPA and TDEC Approvals																																											
OL1030	Notification of Completion to EPA, TDEC, TCWN	27-Jul-18		27-Jul-18		0%	Notification of Completion to EPA, TDEC, TCWN																																											
Focused SSES and Rehab - South Chick Creek 5							Focused SSES and Rehab - South Chick Creek 5																																											
Consent Decree Duration (87 Months)							Consent Decree Duration (87 Months)																																											



Summary
 Actual Level of Effort
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 Baseline Milestone

CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I
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Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
OW1060	SRF Facility Plan Approval	30-Jun-09 A	30-Jun-09	30-Jun-09 A	30-Jun-09	100%	Facility Plan Approval																																											
Engineering Phase							Engineering Phase																																											
OW1010	Engineering	01-Jul-09 A	01-Jul-09	01-Aug-10 A	01-Aug-10	100%	Engineering																																											
OW1020	SRF Approval of Contract Documents	01-Jul-09 A	01-Jul-09	01-Jul-09 A	01-Jul-09	100%	Approval of Contract Documents																																											
Construction Bidding Phase							Construction Bidding Phase																																											
OW1070	Construction Bidding Phase	01-Aug-12 A	01-Aug-12	01-Sep-12 A	01-Sep-12	100%	Construction Bidding Phase																																											
Construction Phase							Construction Phase																																											
OW1080	Construction Phase	03-Jun-13 A	03-Jun-13	27-Jun-14 A	27-Jun-14	100%	Construction Phase																																											
EPA and TDEC Approvals							EPA and TDEC Approvals																																											
OW1030	Notification of Completion to EPA, TDEC, TCWN	30-Jul-14 A	30-Jul-14	30-Jul-14 A	30-Jul-14	100%	Notification of Completion to EPA, TDEC, TCWN																																											
Highland Park Sewer Rehab							Highland Park Sewer Rehab																																											
Consent Decree Duration (60 Months)							Consent Decree Duration (60 Months)																																											
AD1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18 A	24-Apr-18	100%	Consent Decree Duration																																											
AD1050	Consent Decree Duration Completion Milestone			24-Apr-18 A	24-Apr-18	100%	Consent Decree Duration Completion Milestone																																											
Project Procurement							Project Procurement																																											
AD1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	12-Dec-12 A	12-Dec-12	18-Apr-13 A	18-Apr-13	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP																																											
AD1100	Consultant develops and Submit Scope and Cost proposal	16-Feb-13 A	16-Feb-13	01-Mar-13 A	01-Mar-13	100%	Consultant develops and Submit Scope and Cost proposal																																											
AD1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	02-Mar-13 A	02-Mar-13	15-Mar-13 A	15-Mar-13	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																																											
AD1120	PMO Approved Agreement to Council for Approval	16-Mar-13 A	16-Mar-13	22-Mar-13 A	22-Mar-13	100%	PMO Approved Agreement to Council for Approval																																											
AD1130	Consultant Signed Agreement to City for Execution	23-Mar-13 A	23-Mar-13	18-Apr-13 A	18-Apr-13	100%	Consultant Signed Agreement to City for Execution																																											
Planning Phase							Planning Phase																																											
AD1000	Planning Phase	19-Apr-13 A	19-Apr-13	10-Apr-15 A	10-Apr-15	100%	Planning Phase																																											
AD1060	SRF Facility Plan Approval	24-Oct-13 A	24-Oct-13	28-Apr-14 A	28-Apr-14	100%	SRF Facility Plan Approval																																											
Engineering Phase							Engineering Phase																																											
AD1010	Engineering	10-Apr-15 A	10-Apr-15	30-Dec-15 A	30-Dec-15	100%	Engineering																																											
AD1020	SRF Approval of Contract Documents	31-Dec-15 A	31-Dec-15	26-Apr-16 A	26-Apr-16	100%	SRF Approval of Contract Documents																																											
Construction Bidding Phase							Construction Bidding Phase																																											
AD1070	Construction Bidding Phase	27-Apr-16 A	27-Apr-16	30-Sep-16 A	30-Sep-16	100%	Construction Bidding Phase																																											
AD1140	SRF Administration Phase	17-Aug-16 A	17-Aug-16	30-Sep-16 A	30-Sep-16	100%	SRF Administration Phase																																											
Construction Phase							Construction Phase																																											
AD1080	Construction Phase	30-Sep-16 A	30-Sep-16	28-Nov-17 A	28-Nov-17	100%	Construction Phase																																											
EPA and TDEC Approvals							EPA and TDEC Approvals																																											
AD1030	Notification of Completion to EPA, TDEC, TCWN	30-Jul-18*	30-Jul-18	30-Jul-18		0%	Notification of Completion to EPA, TDEC, TCWN																																											
Citico CSOTF PS Improvement Study							Citico CSOTF PS Improvement Study																																											
Consent Decree Duration (36 Months)							Consent Decree Duration (36 Months)																																											
AM1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-16 A	24-Apr-16	100%	Consent Decree Duration																																											
AM1050	Consent Decree Duration Completion Milestone			24-Apr-16 A	24-Apr-16	100%	Consent Decree Duration Completion Milestone																																											
Project Procurement							Project Procurement																																											
AM1090	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	01-Dec-12 A	01-Dec-12	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP																																											
AM1100	Consultant develops and Submit Scope and Cost proposal	02-Dec-12 A	02-Dec-12	11-Dec-12 A	11-Dec-12	100%	Consultant develops and Submit Scope and Cost proposal																																											
AM1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	12-Dec-12 A	12-Dec-12	21-Dec-12 A	21-Dec-12	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																																											
AM1120	PMO Approved Agreement to Council for Approval	22-Dec-12 A	22-Dec-12	08-Jan-13 A	08-Jan-13	100%	PMO Approved Agreement to Council for Approval																																											
AM1130	Consultant Signed Agreement to City for Execution	09-Jan-13 A	09-Jan-13	22-Jan-13 A	22-Jan-13	100%	Consultant Signed Agreement to City for Execution																																											
Planning Phase							Planning Phase																																											



- Summary
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Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
AL1160	Consent Decree Duration Completion Milestone			24-Apr-18 A	24-Apr-18	100%																						
Project Procurement		25-Apr-13 A	25-Apr-13	31-May-16 A	31-May-16	100%																						
AL1250	City Develops Project Scope	25-Apr-13 A	25-Apr-13	31-May-16 A	31-May-16	100%																						
Planning Phase		01-Jun-16 A	01-Jun-16	30-Jun-16 A	30-Jun-16	100%																						
AL1170	Planning Phase	01-Jun-16 A	01-Jun-16	30-Jun-16 A	30-Jun-16	100%																						
Engineering Phase		01-Jul-16 A	01-Jul-16	31-Oct-16 A	31-Oct-16	100%																						
AL1190	Engineering	01-Jul-16 A	01-Jul-16	31-Oct-16 A	31-Oct-16	100%																						
Construction Phase		02-Sep-16 A	02-Sep-16	27-Jan-17 A	27-Jan-17	100%																						
AL1230	Construction Phase	02-Sep-16 A	02-Sep-16	27-Jan-17 A	27-Jan-17	100%																						
EPA and TDEC Approvals		28-Jan-17 A	28-Jan-17	28-Jan-17 A	28-Jan-17	0%																						
AL1290	Notification of Completion to EPA, TDEC, TCWN	28-Jan-17 A	28-Jan-17	28-Jan-17 A	28-Jan-17	100%																						
MBWWTP Hydraulic and Pump Improvements		18-Oct-12 A	18-Oct-12	24-Apr-18 A	24-Apr-18	100%																						
Consent Decree Duration (60 Months)		24-Apr-13 A	24-Apr-13	24-Apr-18 A	24-Apr-18	100%																						
AK1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18 A	24-Apr-18	100%																						
AK1050	Consent Decree Duration Completion Milestone			24-Apr-18 A	24-Apr-18	100%																						
Project Procurement		18-Oct-12 A	18-Oct-12	22-Jan-13 A	22-Jan-13	100%																						
AK1090	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	01-Dec-12 A	01-Dec-12	100%																						
AK1100	Consultant develops and Submit Scope and Cost proposal	02-Dec-12 A	02-Dec-12	11-Dec-12 A	11-Dec-12	100%																						
AK1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	12-Dec-12 A	12-Dec-12	21-Dec-12 A	21-Dec-12	100%																						
AK1120	PMO Approved Agreement to Council for Approval	22-Dec-12 A	22-Dec-12	08-Jan-13 A	08-Jan-13	100%																						
AK1130	Consultant Signed Agreement to City for Execution	09-Jan-13 A	09-Jan-13	22-Jan-13 A	22-Jan-13	100%																						
Planning Phase		02-Feb-13 A	02-Feb-13	13-Feb-14 A	13-Feb-14	100%																						
AK1000	Planning Phase	02-Feb-13 A	02-Feb-13	13-Feb-14 A	13-Feb-14	100%																						
AK1060	SRF Facility Plan Approval	24-Oct-13 A	24-Oct-13	13-Feb-14 A	13-Feb-14	100%																						
Engineering Phase		14-Feb-14 A	14-Feb-14	20-Oct-14 A	20-Oct-14	100%																						
AK1010	Engineering	14-Feb-14 A	14-Feb-14	05-Sep-14 A	05-Sep-14	100%																						
AK1020	SRF Approval of Contract Documents	06-Sep-14 A	06-Sep-14	20-Oct-14 A	20-Oct-14	100%																						
Construction Bidding Phase		23-Oct-14 A	23-Oct-14	12-Dec-14 A	12-Dec-14	100%																						
AK1070	Construction Bidding Phase	23-Oct-14 A	23-Oct-14	04-Dec-14 A	04-Dec-14	100%																						
AK1140	SRF Administration Phase	05-Dec-14 A	05-Dec-14	12-Dec-14 A	12-Dec-14	100%																						
Construction Phase		16-Feb-15 A	16-Feb-15	20-Jul-16 A	20-Jul-16	100%																						
AK1080	Construction Phase	16-Feb-15 A	16-Feb-15	20-Jul-16 A	20-Jul-16	100%																						
EPA and TDEC Approvals		21-Jul-16 A	21-Jul-16	31-Jul-16 A	31-Jul-16	100%																						
A4660	Notification of Completion to EPA, TDEC, TCWN	21-Jul-16 A	21-Jul-16	31-Jul-16 A	31-Jul-16	100%																						
MBWWTP Bar and Fine Screen Replacements		01-Jan-12 A	01-Jan-12	24-Apr-18 A	24-Apr-18	100%																						
Consent Decree Duration (60 Months)		24-Apr-13 A	24-Apr-13	24-Apr-18 A	24-Apr-18	100%																						
AJ1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18 A	24-Apr-18	100%																						
AJ1050	Consent Decree Duration Completion Milestone			24-Apr-18 A	24-Apr-18	100%																						
Project Procurement		07-Sep-12 A	07-Sep-12	07-Sep-12 A	07-Sep-12	0%																						
AJ1090	Previously Procured Consent Decree Projects	07-Sep-12 A	07-Sep-12	07-Sep-12 A	07-Sep-12	100%																						
Planning Phase		01-Jan-12 A	01-Jan-12	17-Oct-12 A	17-Oct-12	100%																						
AJ1000	Planning Phase	01-Jan-12 A	01-Jan-12	07-Oct-12 A	07-Oct-12	100%																						
AJ1060	SRF Facility Plan Approval	08-Oct-12 A	08-Oct-12	17-Oct-12 A	17-Oct-12	100%																						
Engineering Phase		01-May-12 A	01-May-12	20-Oct-14 A	20-Oct-14	100%																						



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Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
Planning Phase																																																		
OO1260	Planning Phase	13-Mar-13 A	13-Mar-13	07-Sep-17 A	07-Sep-17	100%																																												
OO1390	Program Manager / Owner Review and Coordination	26-Aug-17 A	26-Aug-17	07-Sep-17 A	07-Sep-17	100%																																												
Public Document Repository																																																		
OO1270	Submit Draft Deliverable to Reference Librarian	08-Sep-17 A	08-Sep-17	08-Sep-17 A	08-Sep-17	100%																																												
OO1280	Post Copy of Draft Deliverable on City's Website	08-Sep-17 A	08-Sep-17	08-Sep-17 A	08-Sep-17	100%																																												
OO1290	Public Review Period	09-Sep-17 A	09-Sep-17	08-Oct-17 A	08-Oct-17	100%																																												
OO1300	Public Comment Review Period	09-Oct-17 A	09-Oct-17	24-Oct-17 A	24-Oct-17	100%																																												
OO1310	Submit Deliverable to EPA, TDEC and Provide notice to TCWN			24-Oct-17 A	24-Oct-17	100%																																												
EPA and TDEC Approvals																																																		
OO1320	Place Copy of EPA and TDEC Submittal in PDR	25-Oct-17 A	25-Oct-17	31-Oct-17 A	31-Oct-17	100%																																												
OO1330	EPA / TDEC Review	25-Oct-17 A	25-Oct-17	31-Jan-18 A	31-Jan-18	100%																																												
OO1340	Address Comments for Final EPA / TDEC Approval	31-Jan-18 A	31-Jan-18	31-Jan-18 A	31-Jan-18	100%																																												
OO1350	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	01-Feb-18 A	01-Feb-18	07-Feb-18 A	07-Feb-18	100%																																												
Para 25 - Moccasin Bend WWTP Process Controls Program																																																		
MBWWTP Process Controls Program																																																		
Consent Decree Duration (19 Months)																																																		
OP1110	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Nov-14 A	24-Nov-14	100%																																												
OP1120	Consent Decree Duration Completion Milestone			24-Nov-14 A	24-Nov-14	100%																																												
Project Procurement																																																		
OP1000	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	18-Oct-12 A	18-Oct-12	100%																																												
OP1130	Consultant develops and Submit Scope and Cost proposal	18-Oct-12 A	18-Oct-12	27-Oct-12 A	27-Oct-12	100%																																												
OP1140	PMO Reviews/ Negotiates and Approve Proposal / Agreement	28-Oct-12 A	28-Oct-12	06-Nov-12 A	06-Nov-12	100%																																												
OP1150	PMO Approved Agreement to Council for Approval	07-Nov-12 A	07-Nov-12	24-Nov-12 A	24-Nov-12	100%																																												
OP1160	Consultant Signed Agreement to City for Execution	25-Nov-12 A	25-Nov-12	08-Dec-12 A	08-Dec-12	100%																																												
Planning Phase																																																		
OP1010	Planning Phase	29-Apr-13 A	29-Apr-13	03-Oct-14 A	03-Oct-14	100%																																												
OP1190	Program Manager / Owner Review and Coordination	04-Oct-14 A	04-Oct-14	12-Oct-14 A	12-Oct-14	100%																																												
Public Document Repository																																																		
OP1020	Submit Draft Deliverable to Reference Librarian	13-Oct-14 A	13-Oct-14	13-Oct-14 A	13-Oct-14	100%																																												
OP1030	Post Copy of Draft Deliverable on City's Website	13-Oct-14 A	13-Oct-14	16-Oct-14 A	16-Oct-14	100%																																												
OP1040	Public Review Period	13-Oct-14 A	13-Oct-14	17-Nov-14 A	17-Nov-14	100%																																												
OP1050	Public Comment Review Period	18-Nov-14 A	18-Nov-14	18-Nov-14 A	18-Nov-14	100%																																												
OP1060	Submit Deliverable to EPA, TDEC and Provide notice to TCWN			18-Nov-14 A	18-Nov-14	100%																																												
EPA and TDEC Approvals																																																		
OP1070	Place Copy of EPA and TDEC Submittal in PDR	18-Nov-14 A	18-Nov-14	24-Nov-14 A	24-Nov-14	100%																																												
OP1080	EPA / TDEC Review	19-Nov-14 A	19-Nov-14	12-Mar-15 A	12-Mar-15	100%																																												
OP1090	Address Comments for Final EPA / TDEC Approval	13-Mar-15 A	13-Mar-15	12-May-15 A	12-May-15	100%																																												
OP1100	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	13-May-15 A	13-May-15	13-May-15 A	13-May-15	100%																																												
Para 26 - Green Infrastructure Plan																																																		
Green Infrastructure Program Plan for CSS Basins																																																		
Consent Decree Duration (24 Months)																																																		



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Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020		
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3			
Semi-Annual Report - 2015							Semi-Annual Report - 2015																																										
CR4120	Semi Annual Report 4 Data Collection	01-Jan-15 A	01-Jan-15	30-Jan-16 A	30-Jan-16	100%	Semi Annual Report 4 Data Collection																																										
CR4130	Develop Semi Annual Report 4	01-Jul-15 A	01-Jul-15	30-Jul-15 A	30-Jul-15	100%	Develop Semi Annual Report 4																																										
CR4140	Submit Deliverable to EPA and TDEC	31-Jul-15 A	31-Jul-15	31-Jul-15 A	31-Jul-15	100%	Submit Deliverable to EPA and TDEC																																										
CR4150	Place Copy of EPA and TDEC Submittal in PDR	31-Jul-15 A	31-Jul-15	31-Jul-15 A	31-Jul-15	100%	Place Copy of EPA and TDEC Submittal in PDR																																										
CR4160	Semi Annual Report 5 Data Collection	01-Jul-15 A	01-Jul-15	31-Dec-15 A	31-Dec-15	100%	Semi Annual Report 5 Data Collection																																										
CR4170	Develop Semi Annual Report 5	31-Dec-15 A	31-Dec-15	28-Jan-16 A	28-Jan-16	100%	Develop Semi Annual Report 5																																										
CR4180	Submit Deliverable to EPA and TDEC	29-Jan-16 A	29-Jan-16	29-Jan-16 A	29-Jan-16	100%	Submit Deliverable to EPA and TDEC																																										
CR4190	Place Copy of EPA and TDEC Submittal in PDR	30-Jan-16 A	30-Jan-16	30-Jan-16 A	30-Jan-16	100%	Place Copy of EPA and TDEC Submittal in PDR																																										
Semi-Annual Report - 2016							Semi-Annual Report - 2016																																										
CR9040	Semi Annual Report 6 Data Collection	01-Jan-16 A	01-Jan-16	30-Jun-16 A	30-Jun-16	100%	Semi Annual Report 6 Data Collection																																										
CR9050	Develop Semi Annual Report 6	01-Jul-16 A	01-Jul-16	30-Jul-16 A	30-Jul-16	100%	Develop Semi Annual Report 6																																										
CR9060	Submit Deliverable to EPA and TDEC	31-Jul-16 A	31-Jul-16	31-Jul-16 A	31-Jul-16	100%	Submit Deliverable to EPA and TDEC																																										
CR9070	Place Copy of EPA and TDEC Submittal in PDR	31-Jul-16 A	31-Jul-16	31-Jul-16 A	31-Jul-16	100%	Place Copy of EPA and TDEC Submittal in PDR																																										
CR9080	Semi Annual Report 7 Data Collection	01-Jul-16 A	01-Jul-16	31-Dec-16 A	31-Dec-16	100%	Semi Annual Report 7 Data Collection																																										
CR9090	Develop Semi Annual Report 7	01-Jan-17 A	01-Jan-17	31-Jan-17 A	31-Jan-17	100%	Develop Semi Annual Report 7																																										
CR9100	Submit Deliverable to EPA and TDEC	31-Jan-17 A	31-Jan-17	31-Jan-17 A	31-Jan-17	100%	Submit Deliverable to EPA and TDEC																																										
CR9110	Place Copy of EPA and TDEC Submittal in PDR	31-Jan-17 A	31-Jan-17	31-Jan-17 A	31-Jan-17	100%	Place Copy of EPA and TDEC Submittal in PDR																																										
Semi-Annual Report - 2017							Semi-Annual Report - 2017																																										
CR9120	Semi Annual Report 8 Data Collection	01-Jan-17 A	01-Jan-17	29-Jan-18 A	29-Jan-18	100%	Semi Annual Report 8 Data Collection																																										
CR9130	Develop Semi Annual Report 8	01-Jul-17 A	01-Jul-17	31-Jul-17 A	31-Jul-17	100%	Develop Semi Annual Report 8																																										
CR9140	Submit Deliverable to EPA and TDEC	31-Jul-17 A	31-Jul-17	31-Jul-17 A	31-Jul-17	100%	Submit Deliverable to EPA and TDEC																																										
CR9150	Place Copy of EPA and TDEC Submittal in PDR	31-Jul-17 A	31-Jul-17	31-Jul-17 A	31-Jul-17	100%	Place Copy of EPA and TDEC Submittal in PDR																																										
CR9160	Semi Annual Report 9 Data Collection	01-Jul-17 A	01-Jul-17	31-Dec-17 A	31-Dec-17	100%	Semi Annual Report 9 Data Collection																																										
CR9170	Develop Semi Annual Report 9	01-Jan-18 A	01-Jan-18	28-Jan-18 A	28-Jan-18	100%	Develop Semi Annual Report 9																																										
CR9180	Submit Deliverable to EPA and TDEC	29-Jan-18 A	29-Jan-18	29-Jan-18 A	29-Jan-18	100%	Submit Deliverable to EPA and TDEC																																										
CR9190	Place Copy of EPA and TDEC Submittal in PDR	29-Jan-18 A	29-Jan-18	29-Jan-18 A	29-Jan-18	100%	Place Copy of EPA and TDEC Submittal in PDR																																										
Semi-Annual Report - 2018							Semi-Annual Report - 2018																																										
CR9200	Semi Annual Report 10 Data Collection	01-Jan-18 A	01-Jan-18	30-Jun-18 A	30-Jun-18	100%	Semi Annual Report 10 Data Collection																																										
CR9210	Develop Semi Annual Report 10	01-Jul-18 A	01-Jul-18	29-Jul-18		0%	Develop Semi Annual Report 10																																										
CR9220	Submit Deliverable to EPA and TDEC		30-Jul-18	30-Jul-18		0%	Submit Deliverable to EPA and TDEC																																										
CR9230	Place Copy of EPA and TDEC Submittal in PDR		30-Jul-18	30-Jul-18		0%	Place Copy of EPA and TDEC Submittal in PDR																																										
CR9240	Semi Annual Report 11 Data Collection	01-Jul-18 A	01-Jul-18	30-Dec-18		0%	Semi Annual Report 11 Data Collection																																										
CR9250	Develop Semi Annual Report 11		31-Dec-18	27-Jan-19		0%	Develop Semi Annual Report 11																																										
CR9260	Submit Deliverable to EPA and TDEC		28-Jan-19	28-Jan-19		0%	Submit Deliverable to EPA and TDEC																																										
CR9270	Place Copy of EPA and TDEC Submittal in PDR		28-Jan-19	28-Jan-19		0%	Place Copy of EPA and TDEC Submittal in PDR																																										
Semi-Annual Report - 2019							Semi-Annual Report - 2019																																										
CR9280	Semi Annual Report 12 Data Collection		31-Dec-18	28-Jan-20		0%	Semi Annual Report 12 Data Coll																																										
CR9290	Develop Semi Annual Report 12		30-Jun-19	29-Jul-19		0%	Develop Semi Annual F																																										
CR9300	Submit Deliverable to EPA and TDEC		30-Jul-19	30-Jul-19		0%	Submit Deliverable to																																										
CR9310	Place Copy of EPA and TDEC Submittal in PDR		30-Jul-19	30-Jul-19		0%	Place Copy of EPA ar																																										
CR9320	Semi Annual Report 13 Data Collection		30-Jun-19	30-Dec-19		0%	Semi Annual Report 13																																										
CR9330	Develop Semi Annual Report 13		31-Dec-19	27-Jan-20		0%	Develop Sem																																										
CR9340	Submit Deliverable to EPA and TDEC		28-Jan-20	28-Jan-20		0%	Submit Deliv																																										
CR9350	Place Copy of EPA and TDEC Submittal in PDR		28-Jan-20	28-Jan-20		0%	Place Cbpy																																										
Semi-Annual Report - 2020							Semi-Annual																																										
CR9360	Semi Annual Report 14 Data Collection		31-Dec-19	30-Jul-20		0%	Semi Annual I																																										
CR9370	Develop Semi Annual Report 14		30-Jun-20	29-Jul-20		0%	Dev																																										



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Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010		2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
Program Management - Fiscal Year 2019							Program Management - Fiscal Year 2019																																									
A8960	Year 7 - Fiscal Year 2019	01-Jul-18 A	01-Jul-18	30-Jun-19		0%	Year 7 - Fiscal Year 2019																																									
Program Management for Consent Decree - Year 8							Program Management - Fiscal Year 2019																																									
Program Management - Fiscal Year 2020							Program Management - Fiscal Year 2020																																									
A8970	Year 8 - Fiscal Year 2020	01-Jul-19		30-Jun-20		0%	Year 8 - Fiscal Year 2020																																									
Program Management - Years 1-5							Program Management - Years 1-5																																									
Year 1 2013							Year 1 2013																																									
A15000	Year 1 - Fiscal Year 2013	01-Jul-12 A	01-Jul-12	30-Jun-13 A	30-Jun-13	100%	Year 1 - Fiscal Year 2013																																									
Year 2 2014							Year 2 2014																																									
A15100	Year 2 - Fiscal Year 2014	01-Jul-13 A	01-Jul-13	30-Jun-14 A	30-Jun-14	100%	Year 2 - Fiscal Year 2014																																									
Year 3 2015							Year 3 2015																																									
A15200	Year 3 - Fiscal Year 2015	01-Jul-14 A	01-Jul-14	30-Jun-15 A	30-Jun-15	100%	Year 3 - Fiscal Year 2015																																									
Year 4 2016							Year 4 2016																																									
A15300	Year 4 - Fiscal Year 2016	01-Jul-15 A	01-Jul-15	30-Jun-16 A	30-Jun-16	100%	Year 4 - Fiscal Year 2016																																									
Year 5 2017							Year 5 2017																																									
A15400	Year 5 - Fiscal Year 2017	01-Jul-16 A	01-Jul-16	30-Jun-17 A	30-Jun-17	100%	Year 5 - Fiscal Year 2017																																									
Additional Consent Decree Supported Projects							Additional Consent Decree Supported Projects																																									
MBWWTP Backup Electrical Power							MBWWTP Backup Electrical Power																																									
MBWWTP Backup Electrical Power							MBWWTP Backup Electrical Power																																									
Engineering Phase							Engineering Phase																																									
A4780	Engineering Phase	10-Jan-12 A	10-Jan-12	26-Jan-14 A	26-Jan-14	100%	Engineering Phase																																									
Construction Bidding Phase							Construction Bidding Phase																																									
A4790	Construction Bidding Phase	27-Jan-11 A	27-Jan-11	02-Feb-15 A	02-Feb-15	100%	Construction Bidding Phase																																									
Construction Phase							Construction Phase																																									
A4800	Construction Phase	03-Feb-13 A	03-Feb-13	11-Mar-16 A	11-Mar-16	100%	Construction Phase																																									
Dobbs Branch Basin Improvements - Phase 1							Dobbs Branch Basin Improvements - Phase 1																																									
Dobbs Branch Basin Improvements - Phase 1							Dobbs Branch Basin Improvements - Phase 1																																									
Project Procurement Phase							Project Procurement Phase																																									
A8170	Procurement Phase	01-Dec-17 A	01-Dec-17	29-Sep-18		23.97%	Procurement Phase, Procurement Phase																																									
Planning Phase							Planning Phase																																									
A8180	Planning Phase	30-Sep-18		27-Jan-19		0%	Planning Phase																																									
Engineering Phase							Engineering Phase																																									
A8190	Engineering Phase	28-Jan-19		25-Aug-19		0%	Engineering Phase																																									
Construction Bidding Phase							Construction Bidding Phase																																									
A8200	Construction Bidding Phase	26-Aug-19		23-Nov-19		0%	Construction Bidding Phase																																									
Construction Phase							Construction Phase																																									
A8210	Construction Phase	24-Nov-19		05-Jun-21		0%	Construction Phase																																									
South Chickamauga Interceptor Improvements - Phase 1							South Chickamauga Interceptor Improvements - Phase 1																																									
South Chickamauga Interceptor Improvements - Phase 1							South Chickamauga Interceptor Improvements - Phase 1																																									
Project Procurement Phase							Project Procurement Phase																																									
A8470	Project Procurement Phase	01-Jan-18 A	01-Jan-18	15-Jan-18 A	15-Jan-18	100%	Project Procurement Phase																																									
Planning Phase							Planning Phase																																									
A8480	Planning Phase	16-Jan-18 A	16-Jan-18	15-Feb-18 A	15-Feb-18	100%	Planning Phase																																									
Engineering Phase							Engineering Phase																																									
A8490	Engineering Phase	16-Feb-18 A	16-Feb-18	04-Jul-18		95.83%	Engineering Phase, Engineering Phase																																									
Construction Bidding Phase							Construction Bidding Phase																																									
A8500	Construction Bidding Phase	05-Jul-18		02-Oct-18		0%	Construction Bidding Phase																																									
Construction Phase							Construction Phase																																									
A8510	Construction Phase	03-Oct-18		02-Oct-19		0%	Construction Phase																																									
Dobbs Branch Basin Improvements - Phase 2							Dobbs Branch Basin Improvements - Phase 2																																									
Dobbs Branch Basin Improvements - Phase 2							Dobbs Branch Basin Improvements - Phase 2																																									



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							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A4555	PMO Reviews/ Negotiates and Approve Proposal / Agreement	12-May-17 A	12-May-17	01-Sep-17 A	01-Sep-17	100%																								
A4560	PMO Approved Agreement to Council for Approval	02-Sep-17 A	02-Sep-17	30-Sep-17 A	30-Sep-17	100%																								
A4565	Consultant Signed Agreement to City for Execution	01-Oct-17 A	01-Oct-17	03-Nov-17 A	03-Nov-17	100%																								
Planning Phase		03-Nov-17 A	03-Nov-17	13-Jun-18 A	13-Jun-18	100%																								
A4570	Planning Phase	03-Nov-17 A	03-Nov-17	13-Jun-18 A	13-Jun-18	100%																								
Engineering Phase		14-Jun-18 A	14-Jun-18	12-Oct-18		0%																								
A4630	Engineering	14-Jun-18 A	14-Jun-18	07-Sep-18		18.6%																								
A4635	SRF Approval of Contract Documents	07-Aug-18		12-Oct-18		0%																								
Construction Bidding Phase		13-Oct-18		18-Jan-19		0%																								
A4640	Construction Bidding Phase	13-Oct-18*		23-Nov-18		0%																								
A4645	SRF Administration Phase	24-Nov-18		18-Jan-19		0%																								
Construction Phase		19-Jan-19		20-Jul-21		0%																								
A4650	Construction (Phases 1 & 2)	19-Jan-19*		19-Jul-20		0%																								
A9360	Construction (Phase 3)	20-Jul-20		20-Jul-21		0%																								
MBWWTP Odor and Corrosion Control Improvements		12-Apr-10 A	12-Apr-10	07-Oct-13 A	07-Oct-13	100%																								
Engineering Phase		12-Apr-10 A	12-Apr-10	27-Sep-11 A	27-Sep-11	100%																								
A4740	Engineering Phase	12-Apr-10 A	12-Apr-10	27-Sep-11 A	27-Sep-11	100%																								
Construction Bidding Phase		28-Sep-11 A	28-Sep-11	28-Jan-12 A	28-Jan-12	100%																								
A4750	Construction Bidding Phase	28-Sep-11 A	28-Sep-11	28-Jan-12 A	28-Jan-12	100%																								
Construction Phase		29-Jan-12 A	29-Jan-12	07-Oct-13 A	07-Oct-13	100%																								
A4770	Construction Phase	29-Jan-12 A	29-Jan-12	07-Oct-13 A	07-Oct-13	100%																								
201 Facility Plan Update		18-Oct-12 A	18-Oct-12	01-Sep-16 A	01-Sep-16	100%																								
Project Procurement		18-Oct-12 A	18-Oct-12	22-Jan-13 A	22-Jan-13	100%																								
OP1170	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	01-Dec-12 A	01-Dec-12	100%																								
OP1300	Consultant develops and Submit Scope and Cost proposal	02-Dec-12 A	02-Dec-12	11-Dec-12 A	11-Dec-12	100%																								
OP1310	PMO Reviews/ Negotiates and Approve Proposal / Agreement	12-Dec-12 A	12-Dec-12	21-Dec-12 A	21-Dec-12	100%																								
OP1320	PMO Approved Agreement to Council for Approval	22-Dec-12 A	22-Dec-12	08-Jan-13 A	08-Jan-13	100%																								
OP1330	Consultant Signed Agreement to City for Execution	09-Jan-13 A	09-Jan-13	22-Jan-13 A	22-Jan-13	100%																								
Planning Phase		23-Jan-13 A	23-Jan-13	01-Sep-16 A	01-Sep-16	100%																								
OP1180	Planning Phase PHASE 1	23-Jan-13 A	23-Jan-13	27-Sep-14 A	27-Sep-14	100%																								
OP1200	Planning Phase PHASE 2	05-Nov-14 A	05-Nov-14	01-Sep-16 A	01-Sep-16	100%																								
Citico PS and CSOTF Upgrades		21-Aug-14 A	21-Aug-14	30-Jul-18		96.97%																								
Project Procurement		21-Aug-14 A	21-Aug-14	26-Jan-15 A	26-Jan-15	100%																								
A1020	CD Prequalification Procurement (FY 2014 - 2015) - Development and Issuance of RFP	21-Aug-14 A	21-Aug-14	19-Sep-14 A	19-Sep-14	100%																								
A1030	Consultant develops and Submit Scope and Cost proposal	20-Sep-14 A	20-Sep-14	06-Oct-14 A	06-Oct-14	100%																								
A1040	PMO Reviews/ Negotiates and Approve Proposal / Agreement	07-Oct-14 A	07-Oct-14	03-Dec-14 A	03-Dec-14	100%																								
A1050	PMO Approved Agreement to Council for Approval	04-Dec-14 A	04-Dec-14	09-Dec-14 A	09-Dec-14	100%																								
A1060	Consultant Signed Agreement to City for Execution	10-Dec-14 A	10-Dec-14	26-Jan-15 A	26-Jan-15	100%																								
Planning Phase		11-Feb-15 A	11-Feb-15	17-Dec-15 A	17-Dec-15	100%																								
A1200	Planning Phase	11-Feb-15 A	11-Feb-15	01-Nov-15 A	01-Nov-15	100%																								
A1210	SRF Facility Plan Approval	02-Nov-15 A	02-Nov-15	17-Dec-15 A	17-Dec-15	100%																								
Engineering Phase		27-May-15 A	27-May-15	13-Jul-16 A	13-Jul-16	100%																								
A1300	Engineering Phase	27-May-15 A	27-May-15	13-Jul-16 A	13-Jul-16	100%																								



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							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
Construction Bidding Phase																																																		
A1500	Construction Bidding Phase	14-Jul-16 A	14-Jul-16	30-Nov-16 A	30-Nov-16	100%																																												
A1600	SRF Administration Phase	30-Nov-16 A	30-Nov-16	30-Nov-16 A	30-Nov-16	100%																																												
Construction Phase																																																		
A1700	Construction Phase	01-Dec-16 A	01-Dec-16	30-Jul-18		89.38%																																												
MBWWTP Detritors Rehab																																																		
MBWWTP Detritors Rehab																																																		
Planning Phase																																																		
A3000	Planning Phase	02-Jul-15 A	02-Jul-15	10-Mar-16 A	10-Jan-16	100%																																												
A3010	SRF Facility Plan Approval	17-Jan-16 A	17-Jan-16	10-Mar-16 A	10-Mar-16	100%																																												
Engineering Phase																																																		
A3100	Engineering Phase	05-Feb-16 A	05-Feb-16	12-Dec-16 A	12-Dec-16	100%																																												
A3120	TDEC Approval of Contract Documents	28-Oct-16 A	28-Oct-16	12-Dec-16 A	12-Dec-16	100%																																												
Construction Bidding Phase																																																		
A3200	Construction Bidding Phase	13-Dec-16 A	13-Dec-16	25-Mar-17 A	25-Mar-17	100%																																												
Construction Phase																																																		
A3300	Construction Phase	26-Mar-17 A	26-Mar-17	02-Aug-18		92%																																												
Friar's Branch -South Chick Creek 5 Interceptor Rehab																																																		
Friar's Branch-South Chick Creek 5 Interceptor Rehab																																																		
Planning Phase																																																		
A4000	Planning Phase	16-Sep-15 A	16-Sep-15	24-Mar-16 A	15-Feb-16	100%																																												
A4020	SRF Facility Plan Approval	16-Feb-16 A	16-Feb-16	24-Mar-16 A	24-Mar-16	100%																																												
Engineering Phase																																																		
A4100	Engineering Phase	25-Mar-16 A	25-Mar-16	17-Nov-17 A	23-Sep-17	100%																																												
A4120	SRF Approval of Contract Documents	24-Sep-17 A	24-Sep-17	17-Nov-17 A	17-Nov-17	100%																																												
Construction Bidding Phase																																																		
A4200	Construction Bidding Phase	18-Nov-17 A	18-Nov-17	13-May-18 A	13-May-18	100%																																												
A4220	SRF Administration Phase	14-Feb-18 A	14-Feb-18	15-Mar-18 A	15-Mar-18	100%																																												
Construction Phase																																																		
A4300	Construction Phase	22-Mar-18 A	22-Mar-18	08-May-19		13.06%																																												
South Chick PS Phase II/Spring Creek PS Upgrades																																																		
South Chick PS Phase II and Spring Creek PS Upgrades																																																		
Project Procurement																																																		
A2000	CD Prequalification Procurement (FY 2014 - 2015) - Development and Issuance of RFP	21-Aug-14 A	21-Aug-14	05-May-15 A	19-Sep-14	100%																																												
A2020	Consultant develops and Submit Scope and Cost proposal	20-Sep-14 A	20-Sep-14	13-Oct-14 A	13-Oct-14	100%																																												
A2030	PMO Reviews/ Negotiates and Approve Proposal / Agreement	14-Oct-14 A	14-Oct-14	26-Mar-15 A	26-Mar-15	100%																																												
A2040	PMO Approved Agreement to Council for Approval	27-Mar-15 A	27-Mar-15	31-Mar-15 A	31-Mar-15	100%																																												
A2050	Consultant Signed Agreement to City for Execution	01-Apr-15 A	01-Apr-15	05-May-15 A	05-May-15	100%																																												
Planning Phase																																																		
A2200	Planning Phase	06-May-15 A	06-May-15	12-Feb-16 A	12-Feb-16	100%																																												
Engineering Phase																																																		
A2300	Engineering Phase	24-Feb-16 A	24-Feb-16	03-Aug-16 A	20-Jun-16	100%																																												
A2400	SRF Approval of Contract Documents	21-Jun-16 A	21-Jun-16	03-Aug-16 A	03-Aug-16	100%																																												
Construction Bidding Phase																																																		




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							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
A2500	Construction Bidding Phase	04-Aug-16 A	04-Aug-16	27-Sep-16 A	27-Sep-16	100%																																												
A2600	SRF Administration Phase	28-Sep-16 A	28-Sep-16	24-Oct-16 A	24-Oct-16	100%																																												
Construction Phase																																																		
A2700	Construction Phase	27-Oct-16 A	27-Oct-16	10-Apr-17 A	10-Apr-17	100%																																												
Additional Evaluation																																																		
A8980	S. Chick PS Evaluation	13-Feb-16 A	13-Feb-16	28-Aug-18		0%																																												
A8990	Spring Creek PS Evaluation	13-Feb-16 A	13-Feb-16	28-Aug-18		0%																																												
Carter Street Sewer Rehab																																																		
Carter Street Sewer Rehabilitation																																																		
Project Procurement																																																		
A11130	Previously Procured Consent Decree Projects	07-Sep-12 A	07-Sep-12	07-Sep-12 A	07-Sep-12	100%																																												
Planning Phase																																																		
A11140	Planning Phase	13-Jan-16 A	13-Jan-16	15-Jan-16 A	15-Jan-16	100%																																												
A11150	SRF Facility Plan Approval	16-Jan-16 A	16-Jan-16	19-Jan-16 A	19-Jan-16	100%																																												
Engineering Phase																																																		
A11160	Engineering	13-Jan-16 A	13-Jan-16	18-Feb-16 A	18-Feb-16	100%																																												
A11170	SRF Approval of Contract Documents	19-Feb-16 A	19-Feb-16	01-Apr-16 A	01-Apr-16	100%																																												
Construction Bidding Phase																																																		
A11180	Construction Bidding Phase	04-Apr-16 A	04-Apr-16	21-Jun-16 A	21-Jun-16	100%																																												
A11190	SRF Administration Phase	17-Jun-16 A	17-Jun-16	17-Jun-16 A	17-Jun-16	100%																																												
Construction Phase																																																		
A11200	Construction Phase	24-Aug-16 A	24-Aug-16	28-Dec-16 A	28-Dec-16	100%																																												
MBWWTP Control Room Upgrade																																																		
MBWWTP Control Room Upgrades																																																		
Project Execution																																																		
A4390	Project Execution	30-Nov-15 A	30-Nov-15	04-Jul-18		96.82%																																												
Planning Phase																																																		
A4400	Planning	01-Dec-15 A	01-Dec-15	23-Nov-16 A	23-Nov-16	100%																																												
Engineering Phase																																																		
A4410	Engineering	05-Oct-16 A	05-Oct-16	15-May-17 A	15-May-17	100%																																												
Construction Bidding Phase																																																		
A4420	Construction Bidding Phase	16-May-17 A	16-May-17	22-Dec-17 A	22-Dec-17	100%																																												
Construction Phase																																																		
A4430	Construction Phase	23-Dec-17 A	23-Dec-17	24-Dec-18		33.83%																																												



-  Summary
-  Actual Level of Effort
-  Actual Work
-  Remaining Work
-  Critical Remaining W...
-  Baseline Milestone

CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I
 CITY OF CHATTANOOGA, TN
 WASTE RESOURCES DIVISION

