



# City of Chattanooga

Mayor Andy Berke

January 26, 2017

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. 7 – July, 2016 to December, 2016**

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 seventh 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  
January 26, 2017  
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Please let me know if you have any questions regarding our submittal.

Sincerely,



Michael C. Patrick, P.E.  
Director, Waste Resources Division

Enclosure

cc: Karl Fingerhood, Esq., US DOJ  
Chief, Environmental Enforcement Section, US DOJ  
Chief, Clean Water Enforcement Branch, US EPA Region 4  
Bill Bush, Esq., US EPA  
Sohnia Hong, Esq., Office of the Attorney General  
Enforcement Coordinator, Water Pollution Control, TDEC  
Shelby Ward, TN Clean Water Network  
Adam Sowatzka, Esq., King & Spalding  
Mike Marino, P.E., Jacobs



# Semi-Annual Work Progress Report No. 7

**July 1 – December 31, 2016**

*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

January 26, 2017



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# Acronyms and Abbreviations

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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
GIPP	Green Infrastructure Program Plan
GLPMP	Gravity Line Preventative Maintenance Program
HVAC	Heating, Ventilation, and Air Conditioning
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

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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 July 1, 2016 through December 31, 2016 (“Report Period”), and the projections cover the period of January 1, 2017 through June 30, 2017.

The City met all of the deadlines for this Report Period. 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. 12	Section IX., para 38	7/30/2016	7/27/2016
Semi-Annual Work Progress Report No. 6	Section IX., para 39	7/30/2016	7/27/2016
Resubmittal of the CMOM- Capacity Assurance Program (“CAP”) to respond to EPA’s comments	Section VI, para 20(h)	N/A	9/28/2016
Resubmittal of the CMOM- Fats, Oils, and Grease (“FOG”) Management Program to respond to EPA’s comments	Section VI, para 20(c)	N/A	9/28/2016
Collegedale Pump Station (“PS”) Improvements	Section VI, para 22	4/24/2018	9/24/2016
201 Facilities Plan Update	Section IX, para 39(c)	N/A	9/01/2016
Quarterly Report No. 13	Section IX., para 38	10/31/2016	10/26/2016

Table 1-2 lists the projects and deliverables that the City expects to complete during the upcoming semi-annual period of January 1, 2017 through June 30, 2017. 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
Quarterly Report No. 14	Section IX., para 38	1/31/2017	1/27/2017
Quarterly Report No. 15	Section IX., para 38	4/30/2017	4/27/2017
Annual Report No. 4	Section IX, para 40	2/28/17	2/24/2017
Focused SSES and Rehab – Dobb’s Branch 3	Section VI, para 21	7/24/2020	3/21/2017
Enterprise South Industrial Park (“ESIP”) Pump Station, Force Main, and Interceptor Upgrade	Section VI, para 22	4/24/2017*	3/25/2017
Orchard Knob PS Improvements	Section VI, para 22	4/24/2018	6/9/2017
Moccasin Bend Wastewater Treatment Plant (“MBWWTP”) Secondary Clarifier Valve Motor Operator Replacement	Section VI, para 22	4/24/2018	1/25/2017
MBWWTP Hydraulic and Pump Improvements	Section VI, para 22	4/24/2018	1/31/2017
MBWWTP Bar and Fine Screen Replacements	Section VI, para 22	4/24/2018	1/31/2017
Agawela Drive Stream Restoration – Supplemental Environmental Project (“SEP”)	Section VIII, para 31	4/24/2018	5/8/2017
South Chick PS Phase II and Spring Creek PS Upgrades	Section IX, para 39(c)	N/A	1/20/2017
Carter Street Sewer Rehabilitation	Section IX, para 39(c)	N/A	1/29/2017

\*Based on extension letter from EPA dated May 16, 2016.

## 2.0 Introduction

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### 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**

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### **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-Pump Station 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-Pump Station 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)**

The CAP was developed in accordance with Paragraph 20(h) of the CD. The CAP identifies each sewer sub-basin or part of a sub-basin with insufficient capacity under either one hour

peak flows, or average conditions, or both. It also analyzes all portions of the Sanitary Sewer System that hydraulically impact all known wet weather-related sanitary sewer overflows (“SSOs”) and all portions of the MBWWTP that may contribute to violations of the NPDES permit. This program enables the City to authorize new sewer service connections or increases in flow from existing sewer service connections. The CAP was submitted to EPA and TDEC for review on May 19, 2016. Comments were received from EPA and the CAP was resubmitted September 28, 2016. EPA approved the CAP on October 13, 2016. The City is preparing for implementation of the CAP, which begins 25 months following EPA’s approval of the plan.

### **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**

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 as of April 23, 2014, SSES investigations have been completed on approximately 61,567 LF of sewer. 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 August 18, 2016 and construction is scheduled to begin in the first half of 2017.

### **3.2.2 Focused SSES and Rehabilitation-Dobbs Branch 3**

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 on October 4, 2013. The PER was submitted to the City on May 15, 2014 and approved May 16, 2014. Approximately 32,849 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 30, 2015. Bidding began on

December 1, 2015, and NTP for construction was issued April 27, 2016. The project is currently under construction and is scheduled to be complete in the first half of 2017.

### **3.2.3 Focused SSES and Rehabilitation-South Chickamauga Creek 1**

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. The NTP for professional services was issued June 26, 2013, and SSES investigations were completed for approximately 69,751 LF of sewer on 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 9, 2016 and construction is scheduled to begin in the first half of 2017.

### **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. Bidding began November 17, 2016 and construction is scheduled to begin in the first half of 2017.

### **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 Pump Station PS and Basin Improvements – Phase 1 and Phase 2**

The DuPont PS and Basin Improvements Phase 1 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 January 1, 2016 and the NTP for construction was issued March 17, 2016. Construction is expected to be complete in the second half of 2017.

Phase 2 involves the design and construction of approximately 7.5 million gallons of wet weather storage and a new wet weather pump station at the DuPont PS site. The project also includes a new diversion structure, standby generator, as well as the upsizing of a section of interceptor. The NTP for Phase 2 professional services was issued on June 24, 2015. The project is currently in the detailed design phase, and bidding is anticipated to begin in the first half of 2017.

### **3.3.1.2 Collegedale PS Improvements (completed)**

The Collegedale PS Improvements project was performed pursuant to Paragraph 22 and Appendix C of the CD. This project included an assessment of the pump station to increase the capacity and reliability of the Collegedale PS to reduce SSOs. The NTP for professional services was issued February 2, 2014. In May 2015, the City installed a Dri-Prime Backup System (DBS), which improved the reliability and added additional pumping capacity to the Collegedale PS. The project also consisted of force main improvements that were coordinated and coincided with a Tennessee Department of Transportation ("TDOT") project. This project was completed in June 2016 and per the Interlocal Agreement between the City and Collegedale, Collegedale took over operation of the Collegedale PS on September 24, 2016. A copy of this Interlocal Agreement is included as Appendix B in this report.

### **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 pump station with the discharge manhole at the force main sewer discharge; and an on-site emergency generator and switch gear to power the new pump station. 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 pump station rehabilitation was received on January 30, 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 10, 2015. The construction phase is scheduled to be complete in the second half of 2017.

#### **3.3.1.4 Altamont Sewer Basin and Pump Station Improvements (completed)**

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

#### **3.3.1.5 Pineville Pump Station 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**

The Highland Park Sewer Rehabilitation project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The sewer sub-basins in the Highland Park area consist of approximately 74,446 LF of sanitary sewer pipe ranging from 4-inch to 24-inch diameter. The NTP for professional services was issued April 19, 2013. The SSES investigation of this basin was completed for approximately 54,354 LF of sewer piping in April of 2015. From the results of the SSES, approximately 35,397 LF of sanitary sewer, service pipeline, and the associated manholes were designated to be rehabilitated. The final design was completed and submitted to TDEC for review on December 30, 2015. TDEC approval was received on April 26, 2016, and bidding began May 5, 2016. The NTP for construction was issued on November 17, 2016 and construction is scheduled to be complete in the second half of 2017.

#### **3.3.1.8 Citico CSOTF Pump Station 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") Pump Station, Force Main and Interceptor Upgrade**

The ESIP PS, Force Main and Interceptor Upgrade project is being performed pursuant to Paragraph 22 and Appendix C of the CD. This project includes the replacement and upgrade of four existing pumps to four new 1.0 million gallons per day ("MGD") pumps. Additionally, a new 4,800 LF 16-inch force main will be installed as well as replacing the existing 15-inch sewer with 8,500 LF of 36-inch gravity sewer. The NTP for professional services was issued March 11,

2011 and the final design was submitted to TDEC for approval on October 24, 2013. TDEC approval of contract documents was received January 23, 2014 and bidding began January 31, 2014. The NTP for construction services was issued June 9, 2014. Due to an issue with the contractor that was beyond Chattanooga's control, Chattanooga submitted a request to EPA to extend the deadline for this project on January 18, 2016. On May 16, 2016, EPA extended the deadline to April 24, 2017. Construction is scheduled to be complete in the first half of 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 November 3, 2015 and the NTP for construction was issued May 16, 2016. Construction is scheduled for completion the first half of 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. Bidding began August 11, 2016 and construction began December 9, 2016 and is scheduled for completion in the first 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 June 3, 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 23, 2016. Bidding is scheduled to begin in the first half of 2017.

#### **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**

The MBWWTP Secondary Clarifier Valve Motor Operator Replacement project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The City will be installing (14) new 16-inch valve motor operators (actuators). The work associated with these actuators includes the replacement of all the local power conduit and cable, the installation of new local disconnect switch, and the installation of a new electric main/breaker in the electrical building. The work also includes the upgrading of the instrumentation component of the actuators by installing new programmable logic controllers (“PLCs”) that will allow local control of the actuators. Additionally, the City is repairing/replacing the Secondary Clarifier flow meters as needed and installing sump pumps in the metering pits. This project is a self-performed project by the City. Construction began September 2, 2016 and is anticipated to be complete in the first half of 2017.

### **3.3.2.2 Moccasin Bend Wastewater Treatment Plant Hydraulic and Pump Improvements**

The MBWWTP Hydraulic and Pump Improvements project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The existing influent and equalization pump stations at the MBWWTP are currently rated at 120 and 140 MGD, respectively. The purpose of this project is to increase the pumping capacity at both stations in order to maximize flow through secondary treatment by designing and constructing upgrades to the pump stations. The main features of the pump station upgrade include rebuilding and upgrading the existing pumps, and upgrading the electrical components, variable frequency drives (“VFDs”), and instrumentation of the pump stations. The NTP for professional services was issued on February 2, 2013 and the PER was submitted to the City on December 2, 2013. The final design was submitted to TDEC for review on September 6, 2014 and approval was received on October 20, 2014. Bidding began October 23, 2014, and the NTP for construction was issued in February 16, 2015. The substantial completion certificate for construction was submitted on December 19, 2016 and final completion is anticipated for the first half of 2017.

### **3.3.2.3 MBWWTP Bar and Fine Screen Replacements**

The MBWWTP Bar and Fine Screen Replacements project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The purpose of this project is to design and construct a solution which will improve screening and overall capacity at the plant. The main features of this project include installing and upgrading the concrete channel, installing new bar screens,

upgrading the motor control center panel, upgrading and replacing the screw conveyors, belt conveyor and slide gates, and updating the electrical and instrumentation design. The NTP for professional services was issued December 30, 2011. Final design documents were completed and submitted to TDEC for review on September 6, 2014 and approval was received October 20, 2014. Bidding began October 23, 2014, and the NTP for construction was issued on February 16, 2015. The substantial completion certificate for construction was submitted on December 19, 2016 and final completion is anticipated for the first half of 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 Pump Station 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 SCADA Upgrades**

The MBWWTP Telemetry and SCADA Upgrades project is being performed pursuant to Paragraph 22 and Appendix C of the CD. This project involves updating and installing control and monitoring systems for reacting to and controlling equipment to convey wastewater to the MBWWTP. The design will include, but is not limited to upgrading the existing Motorola radio system at all remote sites. The remote sites with a "high consequence of failure" would be added to the City's Regional Public Safety Wireless Mesh Network to provide redundant communication. NTP for professional services was issued on January 23, 2013. The final design was completed and submitted to TDEC for review on October 16, 2015 and approval was received on November 10, 2015. Bidding began September 22, 2016 and construction is scheduled to begin in the first half of 2017.

## **3.4 Long Term Control Plan (“LTCP”) Updates**

### **3.4.1 LTCP-Additional Operational Plan**

The LTCP-Additional Operational Plan is being developed pursuant to Paragraph 24(a) of the CD. This program will result in a plan for the Chattanooga Creek CSO Outfalls (Central Avenue CSO and William Street CSO). The plan will augment Chattanooga’s current CSO control measures with additional long term controls to ensure that discharges from these CSOs meet State water quality standards. The NTP for professional services was issued March 13, 2015. Work on this plan continued through the second half of 2016, with several major milestones during the Reporting Period. Implementation of the sampling plan described in the Post Construction Compliance Monitoring Program yielded water quality and flow data that was used to begin calibrating the Cormix receiving water model. Unfortunately, 2016 had 36% less rain in Chattanooga than normal according to the City’s rain monitoring vendor and, thus, there were not enough discharge sampling events available during the monitoring period to validate the model. The National Oceanic and Atmospheric Administration (“NOAA”) predicts higher than normal precipitation for early 2017. In January 2017, the City will be submitting a 6-month extension to the Addition Operational Plan deadline in order to capture the discharge sampling events required to successfully validate the model.

### **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 December 1, 2016 and the commencement of the construction phase is scheduled for the first half of 2017.

## **3.8 Agawela Drive Stream Restoration – SEP**

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 Alteration 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 final completion is scheduled for the first half of 2017.

## **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 – 13;
- Semi-Annual Work Progress Reports 1 – 6, and
- Annual Report 1 - 3.

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

- Quarterly Reports 14 and 15;
- Semi-Annual Work Progress Report 7; and
- Annual report 4.

### **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. No demands were for stipulated penalties were made by EPA during this Reporting Period.

## **4.0 Additional Work**

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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 will provide an update to the Chattanooga, Tennessee-Georgia Regional Wastewater Facilities Plan (“201 Plan”), which was previously updated in 2008. The updated 201 Plan will also be used to coordinate future State Revolving Fund (“SRF”) Loan Program projects. This plan is one of the master planning documents that the City will use to manage the technical solutions derived from the work required by the CD. The NTP for professional services was issued November 5, 2014. The draft plan has been completed by the contractor and was submitted to the City in December 2015 for its review and approval. The final plan was approved on September 1, 2016.

### **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 Pump Station 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 pump station 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 July 13, 2016. Bidding commenced August 11, 2016 and the construction phase is scheduled to begin in the first half of 2017.

## **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 pump station 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 pump station. 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 11, 2016 and the NTP for construction services was issued October 17, 2016. Construction is scheduled to be complete in the first half of 2017.

## **4.5 Carter Street Sewer Rehabilitation**

The Carter Street Sewer Rehabilitation project consists of the rehabilitation of approximately 850 LF of 21-inch sewer from under an abandoned industrial landfill that connects the Carter Street sewer with the Tannery Flats Interceptor. This project will improve the reliability and structural integrity of the existing pipe and will remove unwanted inflow and infiltration for the system. Trenchless technology methods are being analyzed to reduce construction and permitting costs. The NTP for professional services was awarded on September 7, 2012. The project was re-submitted to TDEC for review and approval February 19, 2016 and approval was received April 1, 2016. Bidding commenced April 28, 2016 and the NTP for construction services was issued August 24, 2016. The certificate of substantial completion was issued December 16, 2016 and final completion is anticipated for the first half of 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 for approval on October 28, 2016. Bidding is expected to commence in the first half of 2017.

## **4.7 Friar's Branch-South Chick Creek 5 Interceptor Rehabilitation**

This project involves the rehabilitation of portions of pipeline in the Friars Branch and South Chickamauga Creek 5 Sub Basins using trenchless technologies. Approximately 23,640 LF of pipeline were identified for evaluation. Trenchless rehabilitation allows the City to conduct the pipe 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 piping. 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 the project is in the detailed design phase. Bidding is expected to commence in the first half of 2017.

## **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 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. The project is in detailed design and bidding is expected to commence in the first half of 2017.

## **4.9 Citico Pump Station 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. This project is in the planning phase and detailed design is anticipated to begin in the first half of 2017.

## **4.10 Brainerd Golf Course Pump Station 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 it is anticipated that the planning and design phase will begin in the first half of 2017.

## **4.11 Wet Weather Combined Sewer Storage – Phase 1**

This project involves the construction of wet weather storage strategically placed throughout the collection system, which can store peak wet weather flows, prevent SSOs, and meet the future capacity requirements as set forth in the CD. 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 completion of the procurement of professional services and the commencement of the planning phase is anticipated for the first half of 2017.

## **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, and the commencement of construction is scheduled for the first half of 2017.

### **4.13 CSOTF Study**

The CSOTF Study is being developed to evaluate and recommend improvements to structures, operations, or maintenance to maximize the permitted use of the CSOTFs in order to reduce unpermitted overflows at EB/WB. The changes will be best implemented in a three-phased approach. Omitting smaller operations and maintenance tasks, the phases include (1) adjusting local CSOTF controls; (2) adjusted CSOTF controls based on WB interceptor pipe flow level; and (3) adjusting CSOTF controls based on real time control strategies implemented at each facility. This study is in the final draft stage.

# Appendix A

## Project Schedules Gantt Chart

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Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019		2020	
						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
<b>Chattanooga Consent Decree Deliverables Schedule</b>																															
<b>Program Milestones</b>																															
	Program Milestones	0	24-Apr-13 A	24-Apr-13 A	0%																										
	Consent Decree Effective Date	0	24-Apr-13 A	24-Apr-13 A	0%																										
	PROGRAM MILESTONES	0	24-Apr-13 A	24-Apr-13 A	0%																										
OO1000	Consent Decree Effective Date	0	24-Apr-13 A		100%																										
<b>Section II - Applicability</b>																															
	Section II - Applicability	30	24-Apr-13 A	24-May-13 A	100%																										
<b>Para 5 - Distribute CD</b>																															
	Para 5 - Distribute CD	30	24-Apr-13 A	24-May-13 A	100%																										
	Distribute Consent Decree	30	24-Apr-13 A	24-May-13 A	100%																										
	Para 5 - Distribute CD	30	24-Apr-13 A	24-May-13 A	100%																										
BA1010	Distribute CD to All Entities/People Who Will Have Duties Associated with Compliance of CD	30	24-Apr-13 A	24-May-13 A	100%																										
<b>Section V - Review / Certification of Deliverables</b>																															
	Section V - Review / Certification of Deliverables	169	24-Apr-13 A	10-Oct-13 A	100%																										
<b>Para 9 - Public Document Repository</b>																															
	Para 9 - Public Document Repository	169	24-Apr-13 A	10-Oct-13 A	100%																										
	Public Document Repository	169	24-Apr-13 A	10-Oct-13 A	100%																										
	Para 9 - Public Document Repository Development	169	24-Apr-13 A	10-Oct-13 A	100%																										
BB1010	Set up PDR Before First Reviewable CD Submittal is Due	169	24-Apr-13 A	10-Oct-13 A	100%																										
<b>Section VI - Compliance Requirements</b>																															
<b>Para 19 - Community Input Plan</b>																															
	Para 19 - Community Input Plan	215	24-Apr-13 A	25-Nov-13 A	100%																										
<b>Community Input Plan</b>																															
	Community Input Plan	215	24-Apr-13 A	25-Nov-13 A	100%																										
	Consent Decree Duration	214	24-Apr-13 A	24-Nov-13 A	100%																										
A4310	Consent Decree Duration	214	24-Apr-13 A	24-Nov-13 A	100%																										
<b>Community Input Plan</b>																															
	Community Input Plan	215	24-Apr-13 A	25-Nov-13 A	100%																										
BC1010	Community Input Plan Development	214	24-Apr-13 A	24-Nov-13 A	100%																										
BC1020	Community Input Plan Submitted to WWRAB	0	25-Nov-13 A	25-Nov-13 A	100%																										
<b>Para 20 - CMOM</b>																															
<b>CMOM-Sewer Overflow Response Protocol (SORP)</b>																															
	Consent Decree Duration (7 Months)	216	24-Apr-13 A	25-Nov-13 A	100%																										
OA0100	Consent Decree Duration (7 Months)	215	24-Apr-13 A	25-Nov-13 A	100%																										
OA0110	Consent Decree Duration Completion Milestone	0		25-Nov-13 A	100%																										
<b>Project Procurement</b>																															
	Project Procurement	0	15-Jul-12 A	15-Jul-12 A	0%																										
OA0200	PM Procurement	0	15-Jul-12 A	15-Jul-12 A	100%																										
<b>Planning Phase</b>																															
	Administration Period	464	15-Jul-12 A	22-Oct-13 A	100%																										
OA0010	Administration Period	229	15-Jul-12 A	28-Feb-13 A	100%																										
OA1000	Planning Phase	235	01-Mar-13 A	22-Oct-13 A	100%																										
<b>Public Document Repository</b>																															
	Public Document Repository	33	23-Oct-13 A	25-Nov-13 A	100%																										
OA2000	Submit Draft Deliverable to Reference Librarian	0	23-Oct-13 A	23-Oct-13 A	100%																										
OA2010	Post Copy of Draft Deliverable on City's Website	0	23-Oct-13 A	23-Oct-13 A	100%																										
OA2020	Public Review Period	31	24-Oct-13 A	24-Nov-13 A	100%																										
OA2030	Public Comment Review Period	2	23-Nov-13 A	25-Nov-13 A	100%																										
OA2040	Submit Deliverable to EPA, TDEC and Provide notice to TCWN	0		25-Nov-13 A	100%																										
<b>EPA and TDEC Approvals</b>																															
	EPA and TDEC Approvals	192	26-Nov-13 A	05-Jun-14 A	100%																										
OA0900	Place Copy of EPA and TDEC Submittal in PDR	8	26-Nov-13 A	04-Dec-13 A	100%																										



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

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





Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013				2014				2015				2016				2017				2018				2019				2020	
						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
OC2010	Post Copy of Draft Deliverable on City's Website	0	16-Apr-14 A	16-Apr-14 A	100%																														
OC2020	Public Review Period	30	17-Apr-14 A	17-May-14 A	100%																														
OC2030	Public Comment Review Period	9	18-May-14 A	27-May-14 A	100%																														
OC2040	Submit Deliverable to EPA, TDEC and Provide notice to TCWN	0		27-May-14 A	100%																														
<b>EPA and TDEC Approvals</b>						198	28-May-14 A	12-Dec-14 A	100%																										
OC9000	Place Copy of EPA and TDEC Submittal in PDR	8	28-May-14 A	05-Jun-14 A	100%																														
OC9010	EPA / TDEC Review	35	28-May-14 A	02-Jul-14 A	100%																														
OC9020	Address Comments for Final EPA / TDEC Approval	162	03-Jul-14 A	12-Dec-14 A	100%																														
OC9030	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	0	12-Dec-14 A	12-Dec-14 A	100%																														
<b>CMOM-Gravity Line Preventive Maint. Program</b>						782	18-Oct-12 A	09-Dec-14 A	100%																										
<b>Consent Decree Duration (13 Months)</b>						398	24-Apr-13 A	27-May-14 A	100%																										
OD1110	Consent Decree Duration (13 Months)	398	24-Apr-13 A	27-May-14 A	100%																														
OD1120	Consent Decree Duration Completion Milestone	0		27-May-14 A	100%																														
<b>Project Procurement</b>						97	18-Oct-12 A	22-Jan-13 A	100%																										
OD1000	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	45	18-Oct-12 A	01-Dec-12 A	100%																														
OD1130	Consultant develops and Submit Scope and Cost proposal	10	02-Dec-12 A	11-Dec-12 A	100%																														
OD1140	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	12-Dec-12 A	21-Dec-12 A	100%																														
OD1150	PMO Approved Agreement to Council for Approval	18	22-Dec-12 A	08-Jan-13 A	100%																														
OD1160	Consultant Signed Agreement to City for Execution	14	09-Jan-13 A	22-Jan-13 A	100%																														
<b>Planning Phase</b>						448	23-Jan-13 A	16-Apr-14 A	100%																										
OD1010	Planning Phase	429	23-Jan-13 A	28-Mar-14 A	100%																														
OD1170	Program Manager / Owner Review and Coordination	18	29-Mar-14 A	16-Apr-14 A	100%																														
<b>Public Document Repository</b>						34	17-Apr-14 A	21-May-14 A	100%																										
OD1020	Submit Draft Deliverable to Reference Librarian	0	17-Apr-14 A	17-Apr-14 A	100%																														
OD1030	Post Copy of Draft Deliverable on City's Website	0	17-Apr-14 A	17-Apr-14 A	100%																														
OD1040	Public Review Period	30	17-Apr-14 A	17-May-14 A	100%																														
OD1050	Public Comment Review Period	3	18-May-14 A	21-May-14 A	100%																														
OD1060	Submit Deliverable to EPA, TDEC and Provide notice to TCWN	0		21-May-14 A	100%																														
<b>EPA and TDEC Approvals</b>						201	22-May-14 A	09-Dec-14 A	100%																										
OD1070	Place Copy of EPA and TDEC Submittal in PDR	5	22-May-14 A	27-May-14 A	100%																														
OD1080	EPA / TDEC Review	46	22-May-14 A	07-Jul-14 A	100%																														
OD1090	Address Comments for Final EPA / TDEC Approval	150	08-Jul-14 A	05-Dec-14 A	100%																														
OD1100	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	3	06-Dec-14 A	09-Dec-14 A	100%																														
<b>CMOM-PS Operations and Preventive Maint. Programs</b>						1099	18-Oct-12 A	22-Oct-15 A	100%																										
<b>Consent Decree Duration (19 Months)</b>						580	24-Apr-13 A	24-Nov-14 A	100%																										
OE1110	Consent Decree Duration	579	24-Apr-13 A	24-Nov-14 A	100%																														
OE1120	Consent Decree Duration Completion Milestone	0		24-Nov-14 A	100%																														
<b>Project Procurement</b>						97	18-Oct-12 A	22-Jan-13 A	100%																										
OE1000	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	45	18-Oct-12 A	01-Dec-12 A	100%																														



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

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 CITY OF CHATTANOOGA, TN  
 WASTE RESOURCES DIVISION



Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019		2020			
						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		
OE3100	Consultant develops and Submit Scope and Cost proposal	10	02-Dec-12 A	11-Dec-12 A	100%	Consultant develops and Submit Scope and Cost proposal																											
OE3110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	12-Dec-12 A	21-Dec-12 A	100%	MO Reviews/ Negotiates and Approve Proposal / Agreement																											
OE3120	PMO Approved Agreement to Council for Approval	18	22-Dec-12 A	08-Jan-13 A	100%	MO Approved Agreement to Council for Approval																											
OE3130	Consultant Signed Agreement to City for Execution	14	09-Jan-13 A	22-Jan-13 A	100%	Consultant Signed Agreement to City for Execution																											
<b>Planning Phase</b>																																	
OE1010	Planning Phase	626	24-Jan-13 A	12-Oct-14 A	100%	Planning Phase																											
OE1130	Program Manager / Owner Review and Coordination	12	30-Sep-14 A	12-Oct-14 A	100%	Program Manager / Owner Review and Coordination																											
<b>Public Document Repository</b>																																	
OE1020	Submit Draft Deliverable to Reference Librarian	36	13-Oct-14 A	18-Nov-14 A	100%	Public Document Repository																											
OE1030	Post Copy of Draft Deliverable on City's Website	0	13-Oct-14 A	13-Oct-14 A	100%	Submit Draft Deliverable to Reference Librarian																											
OE1040	Public Review Period	0	13-Oct-14 A	13-Oct-14 A	100%	Post Copy of Draft Deliverable on City's Website																											
OE1050	Public Comment Review Period	35	13-Oct-14 A	17-Nov-14 A	100%	Public Review Period																											
OE1060	Submit Deliverable to EPA, TDEC and Provide notice to TCWN	0	18-Nov-14 A	18-Nov-14 A	100%	Public Comment Review Period																											
<b>EPA and TDEC Approvals</b>																																	
OE1070	Place Copy of EPA and TDEC Submittal in PDR	338	18-Nov-14 A	22-Oct-15 A	100%	EPA and TDEC Approvals																											
OE1080	EPA / TDEC Review	6	18-Nov-14 A	24-Nov-14 A	100%	Place Copy of EPA and TDEC Submittal in PDR																											
OE1090	Address Comments for Final EPA / TDEC Approval	113	19-Nov-14 A	12-Mar-15 A	100%	EPA / TDEC Review																											
OE1100	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	223	13-Mar-15 A	22-Oct-15 A	100%	Address Comments for Final EPA / TDEC Approval																											
<b>CMOM-Hydraulic Model Development</b>																																	
<b>Consent Decree Duration (37 Months)</b>																																	
OF1110	Consent Decree Duration	1126	24-Apr-13 A	24-May-16 A	100%	Consent Decree Duration (37 Months)																											
OF1120	Consent Decree Duration Completion Milestone	0	24-May-16 A	24-May-16 A	100%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>																																	
OF1005	PM Procurement	62	26-Nov-08 A	26-Jan-09 A	100%	Project Procurement																											
<b>Planning Phase</b>																																	
OF1006	Administration Period	2662	27-Jan-09 A	23-May-16 A	100%	Planning Phase																											
OF1010	Planning Phase	2639	27-Jan-09 A	30-Apr-16 A	100%	Administration Period																											
OF1130	Program Manager / Owner Review and Coordination	23	30-Apr-16 A	23-May-16 A	100%	Program Manager / Owner Review and Coordination																											
<b>Public Document Repository</b>																																	
OF1141	Submit Draft Deliverable to Reference Librarian	1	24-May-16 A	24-May-16 A	100%	Public Document Repository																											
OF1142	Post Copy of Draft Deliverable on City's Website	0	24-May-16 A	24-May-16 A	100%	Submit Draft Deliverable to Reference Librarian																											
OF1143	Public Review Period	1	24-May-16 A	24-May-16 A	100%	Post Copy of Draft Deliverable on City's Website																											
OF1144	Public Comment Review Period	0	24-May-16 A	24-May-16 A	100%	Public Review Period																											
OF1145	Submit Deliverable to EPA, TDEC and Provide notice to TCWN	0	24-May-16 A	24-May-16 A	100%	Public Comment Review Period																											
<b>EPA and TDEC Approvals</b>																																	
OF1151	Notification of Completion to EPA, DEC, TCWN	0	31-Jul-16 A	31-Jul-16 A	0%	EPA and TDEC Approvals																											
<b>CMOM-Capacity Assurance Program</b>																																	
<b>Consent Decree Duration (37 Months)</b>																																	
OG1110	Consent Decree Duration	1536	15-Jul-12 A	28-Sep-16 A	100%	Consent Decree Duration (37 Months)																											
OG1110	Consent Decree Duration	1126	24-Apr-13 A	24-May-16 A	100%	Consent Decree Duration																											



- Summary
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**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
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Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019		2020	
						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
<b>Para 21 - Sanitary Sewer Evaluation Study (SSES) Work Plan</b>						7018	25-Mar-11 A	10-Jun-30	28.58%																						
<b>SSES Work Plan</b>						1100	15-Jul-12 A	20-Jul-15 A	100%																						
<b>Consent Decree Duration (19 Months)</b>						579	24-Apr-13 A	24-Nov-14 A	100%																						
OI1110	Consent Decree Duration	579	24-Apr-13 A	24-Nov-14 A	100%	Consent Decree Duration																									
OI1120	Consent Decree Duration Completion Milestone	0		24-Nov-14 A	100%	Consent Decree Duration Completion Milestone																									
<b>Project Procurement</b>						0	15-Jul-12 A	15-Jul-12 A	0%																						
OI1000	PM Procurement	0	15-Jul-12 A	15-Jul-12 A	100%	PM Procurement																									
<b>Planning Phase</b>						823	15-Jul-12 A	16-Oct-14 A	100%																						
OI1005	Administration Phase	184	15-Jul-12 A	14-Jan-13 A	100%	Administration Phase																									
OI1010	Planning Phase	605	15-Jan-13 A	11-Sep-14 A	100%	Planning Phase																									
OI1130	Program Manager / Owner Review and Coordination	34	12-Sep-14 A	16-Oct-14 A	100%	Program Manager / Owner Review and Coordination																									
<b>Public Document Repository</b>						34	17-Oct-14 A	20-Nov-14 A	100%																						
OI1020	Submit Draft Deliverable to Reference Librarian	0	17-Oct-14 A	17-Oct-14 A	100%	Submit Draft Deliverable to Reference Librarian																									
OI1030	Post Copy of Draft Deliverable on City's Website	0	17-Oct-14 A	17-Oct-14 A	100%	Post Copy of Draft Deliverable on City's Website																									
OI1040	Public Review Period	30	18-Oct-14 A	17-Nov-14 A	100%	Public Review Period																									
OI1050	Public Comment Review Period	0	18-Nov-14 A	18-Nov-14 A	100%	Public Comment Review Period																									
OI1060	Submit Deliverable to EPA, TDEC and Provide notice to TCWN	0		20-Nov-14 A	100%	Submit Deliverable to EPA, TDEC and Provide notice to TCWN																									
<b>EPA and TDEC Approvals</b>						241	21-Nov-14 A	20-Jul-15 A	100%																						
OI1070	Place Copy of EPA and TDEC Submittal in PDR	3	21-Nov-14 A	24-Nov-14 A	100%	Place Copy of EPA and TDEC Submittal in PDR																									
OI1080	EPA Review and Approval	111	21-Nov-14 A	12-Mar-15 A	100%	EPA Review and Approval																									
OI1090	TDEC Review and Approval	111	21-Nov-14 A	12-Mar-15 A	100%	TDEC Review and Approval																									
OI1092	Revise Submittal Documents	52	13-Mar-15 A	04-May-15 A	100%	Revise Submittal Documents																									
OI1094	Final EPA Review and Approval	34	05-May-15 A	08-Jun-15 A	100%	Final EPA Review and Approval																									
OI1096	Final TDEC Review and Approval	34	09-Jun-15 A	13-Jul-15 A	100%	Final TDEC Review and Approval																									
OI1100	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	6	14-Jul-15 A	20-Jul-15 A	100%	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)																									
<b>Focused SSES and Rehab - Chattanooga Creek 4</b>						2785	12-Dec-12 A	27-Jul-20	52.03%																						
<b>Consent Decree Duration (87 Months)</b>						2652	24-Apr-13 A	27-Jul-20	49.62%																						
OJ1110	Consent Decree Duration	2652	24-Apr-13 A	27-Jul-20*	49.62%	Consent Decree Duration																									
OJ1120	Consent Decree Duration Completion Milestone	0		27-Jul-20*	0%	Consent Decree Duration Completion Milestone																									
<b>Project Procurement</b>						128	12-Dec-12 A	18-Apr-13 A	100%																						
OJ3010	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	66	12-Dec-12 A	15-Feb-13 A	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP																									
OJ3020	Consultant develops and Submit Scope and Cost proposal	14	16-Feb-13 A	01-Mar-13 A	100%	Consultant develops and Submit Scope and Cost proposal																									
OJ3030	PMO Reviews/ Negotiates and Approve Proposal / Agreement	14	02-Mar-13 A	15-Mar-13 A	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																									
OJ3040	PMO Approved Agreement to Council for Approval	7	16-Mar-13 A	22-Mar-13 A	100%	PMO Approved Agreement to Council for Approval																									
OJ3050	Consultant Signed Agreement to City for Execution	27	23-Mar-13 A	18-Apr-13 A	100%	Consultant Signed Agreement to City for Execution																									
<b>Planning Phase</b>						358	29-Apr-13 A	22-Apr-14 A	100%																						
OJ1010	Planning Phase	358	29-Apr-13 A	22-Apr-14 A	100%	Planning Phase																									
OJ1130	SRF Facility Plan Approval	180	24-Oct-13 A	22-Apr-14 A	100%	SRF Facility Plan Approval																									
<b>Engineering Phase</b>						728	11-Jul-14 A	08-Jul-16 A	100%																						
OJ1020	Engineering	627	11-Jul-14 A	28-Mar-16 A	100%	Engineering																									



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**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
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 WASTE RESOURCES DIVISION





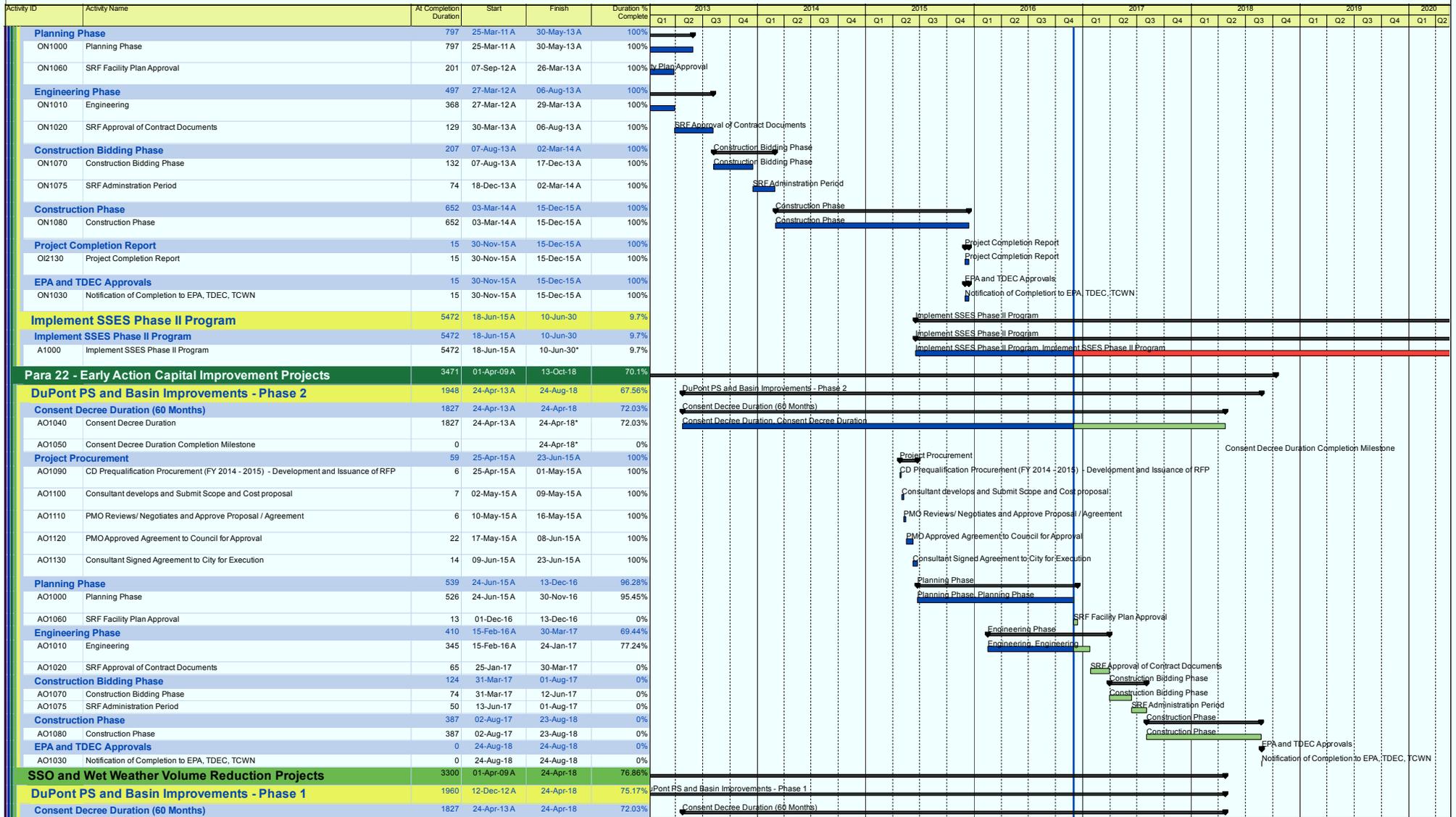
Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019				2020	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
OL1130	Consultant Signed Agreement to City for Execution	27	23-Mar-13 A	18-Apr-13 A	100%	Consultant Signed Agreement to City for Execution																											
<b>Planning Phase</b>						Planning Phase																											
OL1000	Planning Phase	1284	26-Jun-13 A	30-Dec-16	97.04%	Planning Phase																											
OL1060	SRF Facility Plan Approval	427	31-Oct-15 A	30-Dec-16	0%	SRF Facility Plan Approval																											
<b>Engineering Phase</b>						Engineering Phase																											
OL1010	Engineering	685	11-Feb-15 A	26-Dec-16	95.93%	Engineering																											
OL1020	SRF Approval of Contract Documents	31	26-Nov-16 A	26-Dec-16	12.9%	SRF Approval of Contract Documents																											
<b>Construction Bidding Phase</b>						Construction Bidding Phase																											
OL1070	Construction Bidding Phase	147	27-Dec-16	22-May-17	0%	Construction Bidding Phase																											
OL1075	SRF Administration Period	105	27-Dec-16	10-Apr-17	0%	SRF Administration Period																											
OL1075	SRF Administration Period	42	11-Apr-17	22-May-17	0%	SRF Administration Period																											
<b>Construction Phase</b>						Construction Phase																											
OL1080	Construction Phase	309	23-May-17	27-Mar-18	0%	Construction Phase																											
<b>Project Completion Report</b>						Project Completion Report																											
OL2110	Project Completion Report	0	28-Mar-18	28-Mar-18	0%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
OL1030	Notification of Completion to EPA, TDEC, TCWN	0	28-Mar-18	28-Mar-18	0%	Notification of Completion to EPA, TDEC, TCWN																											
<b>Focused SSES and Rehab - South Chick Creek 5</b>						Focused SSES and Rehab - South Chick Creek 5																											
<b>Consent Decree Duration (87 Months)</b>						Consent Decree Duration (87 Months)																											
OM1040	Consent Decree Duration	2652	24-Apr-13 A	27-Jul-20*	49.62%	Consent Decree Duration																											
OM1050	Consent Decree Duration Completion Milestone	0	27-Jul-20*	27-Jul-20*	0%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
OM1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	128	12-Dec-12 A	18-Apr-13 A	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP																											
OM1100	Consultant develops and Submit Scope and Cost proposal	66	12-Dec-12 A	15-Feb-13 A	100%	Consultant develops and Submit Scope and Cost proposal																											
OM1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	14	16-Feb-13 A	01-Mar-13 A	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																											
OM1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	7	02-Mar-13 A	15-Mar-13 A	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																											
OM1120	PMO Approved Agreement to Council for Approval	14	16-Mar-13 A	22-Mar-13 A	100%	PMO Approved Agreement to Council for Approval																											
OM1130	Consultant Signed Agreement to City for Execution	27	23-Mar-13 A	18-Apr-13 A	100%	Consultant Signed Agreement to City for Execution																											
<b>Planning Phase</b>						Planning Phase																											
OM1000	Planning Phase	620	03-Jun-13 A	13-Feb-15 A	100%	Planning Phase																											
OM1060	SRF Facility Plan Approval	186	24-Oct-13 A	28-Apr-14 A	100%	SRF Facility Plan Approval																											
<b>Engineering Phase</b>						Engineering Phase																											
OM1010	Engineering	687	13-Feb-15 A	30-Dec-16	94.85%	Engineering																											
OM1020	SRF Approval of Contract Documents	633	13-Feb-15 A	07-Nov-16 A	100%	SRF Approval of Contract Documents																											
<b>Construction Bidding Phase</b>						Construction Bidding Phase																											
OM1070	Construction Bidding Phase	96	08-Nov-16 A	11-Feb-17	0%	Construction Bidding Phase																											
OM1070	Construction Bidding Phase	63	08-Nov-16 A	09-Jan-17	33.87%	Construction Bidding Phase																											
OM1075	SRF Administration Period	33	10-Jan-17	11-Feb-17	0%	SRF Administration Period																											
<b>Construction Phase</b>						Construction Phase																											
OM1080	Construction Phase	226	12-Feb-17	25-Sep-17	0%	Construction Phase																											
<b>Project Completion Report</b>						Project Completion Report																											
OL2120	Project Completion Report	0	26-Sep-17	26-Sep-17	0%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
OM1030	Notification of Completion to EPA, TDEC, TCWN	0	26-Sep-17	26-Sep-17	0%	Notification of Completion to EPA, TDEC, TCWN																											
<b>Focused SSES and Rehab - South Chick Creek 16</b>						Focused SSES and Rehab - South Chick Creek 16																											
<b>Consent Decree Duration (87 Months)</b>						Consent Decree Duration (87 Months)																											
ON1040	Consent Decree Duration	2652	24-Apr-13 A	27-Jul-20*	51.28%	Consent Decree Duration																											
ON1050	Consent Decree Duration Completion Milestone	2652	24-Apr-13 A	27-Jul-20*	51.28%	Consent Decree Duration Completion Milestone																											
ON1050	Consent Decree Duration Completion Milestone	0	27-Jul-20*	27-Jul-20*	0%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
ON1090	Previously Procured Consent Decree Projects	1	07-Sep-12 A	07-Sep-12 A	100%	Previously Procured Consent Decree Projects																											



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**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
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**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
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 WASTE RESOURCES DIVISION



Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019		2020			
						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		
AN1040	Consent Decree Duration	1827	24-Apr-13 A	24-Apr-18	72.03%	Consent Decree Duration																											
AN1050	Consent Decree Duration Completion Milestone	0	24-Apr-18*	24-Apr-18*	0%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
AN1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	66	12-Dec-12 A	15-Feb-13 A	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP																											
AN1100	Consultant develops and Submit Scope and Cost proposal	13	16-Feb-13 A	01-Mar-13 A	100%	Consultant develops and Submit Scope and Cost proposal																											
AN1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	13	02-Mar-13 A	15-Mar-13 A	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																											
AN1120	PMO Approved Agreement to Council for Approval	6	16-Mar-13 A	22-Mar-13 A	100%	PMO Approved Agreement to Council for Approval																											
AN1130	Consultant Signed Agreement to City for Execution	26	23-Mar-13 A	18-Apr-13 A	100%	Consultant Signed Agreement to City for Execution																											
<b>Planning Phase</b>						Planning Phase																											
AN1000	Planning Phase	690	10-Feb-13 A	01-Jan-15 A	100%	Planning Phase																											
AN1060	SRF Facility Plan Approval	74	02-Jan-15 A	16-Mar-15 A	100%	SRF Facility Plan Approval																											
<b>Engineering Phase</b>						Engineering Phase																											
AN1010	Engineering	508	02-Apr-14 A	23-Aug-15 A	100%	Engineering																											
AN1020	SRF Approval of Contract Documents	100	24-Aug-15 A	02-Dec-15 A	100%	SRF Approval of Contract Documents																											
<b>Construction Bidding Phase</b>						Construction Bidding Phase																											
AN1070	Construction Bidding Phase	104	03-Dec-15 A	15-Mar-16 A	100%	Construction Bidding Phase																											
AN1140	SRF Administration Period	29	16-Mar-16 A	14-Apr-16 A	100%	SRF Administration Period																											
<b>Construction Phase</b>						Construction Phase																											
AN1080	Construction Phase	394	15-Apr-16 A	13-May-17	58.44%	Construction Phase																											
<b>Project Completion Report</b>						Project Completion Report																											
OI2300	Project Completion Report	0	13-May-17	13-May-17	0%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
AN1030	Notification of Completion to EPA, TDEC, TCWN	0	13-May-17	13-May-17	0%	Notification of Completion to EPA, TDEC, TCWN																											
<b>Collegedale PS Improvements</b>						Collegedale PS Improvements																											
AC1040	Consent Decree Duration (60 Months)	1827	24-Apr-13 A	24-Apr-18	72.03%	Consent Decree Duration (60 Months)																											
AC1050	Consent Decree Duration Completion Milestone	0	24-Apr-18*	24-Apr-18*	0%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
AC1090	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	45	18-Oct-12 A	01-Dec-12 A	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP																											
AC1100	Consultant develops and Submit Scope and Cost proposal	10	02-Dec-12 A	11-Dec-12 A	100%	Consultant develops and Submit Scope and Cost proposal																											
AC1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	12-Dec-12 A	21-Dec-12 A	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																											
AC1120	PMO Approved Agreement to Council for Approval	18	22-Dec-12 A	08-Jan-13 A	100%	PMO Approved Agreement to Council for Approval																											
AC1130	Consultant Signed Agreement to City for Execution	14	09-Jan-13 A	22-Jan-13 A	100%	Consultant Signed Agreement to City for Execution																											
<b>Planning Phase</b>						Planning Phase																											
AC1000	Planning Phase	765	10-Feb-13 A	16-Mar-15 A	100%	Planning Phase																											
AC1060	SRF Facility Plan Approval	509	24-Oct-13 A	16-Mar-15 A	100%	SRF Facility Plan Approval																											
<b>Engineering Phase</b>						Engineering Phase																											
AC1010	Engineering	973	02-Apr-14 A	30-Nov-16 A	100%	Engineering																											
<b>Project Completion Report</b>						Project Completion Report																											
OI2290	Project Completion Report	0	30-Nov-16	30-Nov-16	0%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
AC1030	Notification of Completion to EPA, TDEC, TCWN	0	30-Nov-16	30-Nov-16	0%	Notification of Completion to EPA, TDEC, TCWN																											
<b>East Brainerd Collection Sys. and PS Rehab</b>						East Brainerd Collection Sys. and PS Rehab																											
AC1040	Consent Decree Duration (60 Months)	1827	24-Apr-13 A	24-Apr-18	72.03%	Consent Decree Duration (60 Months)																											



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Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019				2020	
						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
OX1040	Consent Decree Duration	1827	24-Apr-13A	24-Apr-18*	72.03%	Consent Decree Duration																											
OX1050	Consent Decree Duration Completion Milestone	0		24-Apr-18*	0%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>																																	
OX1090	Previously Procured Consent Decree Projects	0	07-Sep-12A	07-Sep-12A	100%	Procured Consent Decree Projects																											
<b>Planning Phase</b>																																	
OX1000	Planning Phase	796	26-Mar-11A	30-May-13A	100%	Planning Phase																											
OX1060	SRF Facility Plan Approval	201	07-Sep-12A	26-Mar-13A	100%	SRF Facility Plan Approval																											
<b>Collection System</b>																																	
OX1015	Engineering - Collection System	203	07-Sep-12A	29-Mar-13A	100%	Engineering - Collection System																											
OX1100	SRF Approval of Contract Documents - Colclion System	129	30-Mar-13A	06-Aug-13A	100%	SRF Approval of Contract Documents - Colclion System																											
<b>Pump Station</b>																																	
OX1010	Engineering - Pump Station	934	10-Jan-12A	01-Aug-14A	100%	Engineering - Pump Station																											
OX1020	SRF Approval of Contract Documents - Pump Station	180	02-Aug-14A	29-Jan-15A	100%	SRF Approval of Contract Documents - Pump Station																											
<b>Collection System</b>																																	
OX1075	Construction Bidding Phase - Collection System	132	07-Aug-13A	17-Dec-13A	100%	Construction Bidding Phase - Collection System																											
OX2020	SRF Administration Period - Collection System	74	18-Dec-13A	02-Mar-14A	100%	SRF Administration Period - Collection System																											
<b>Pump Station</b>																																	
OX1070	Construction Bidding Phase - Pump Station	119	30-Jan-15A	29-May-15A	100%	Construction Bidding Phase - Pump Station																											
OX2000	SRF Administration Period - Pump Station	68	30-May-15A	06-Aug-15A	100%	SRF Administration Period - Pump Station																											
<b>Collection System</b>																																	
OX2030	Construction Phase - Collection System	652	03-Mar-14A	15-Dec-15A	100%	Construction Phase - Collection System																											
<b>Pump Station</b>																																	
OX1080	Construction Phase - Pump Station	747	07-Aug-15A	22-Aug-17	53.66%	Construction Phase - Pump Station																											
<b>Project Completion Report</b>																																	
OI2240	Project Completion Report	0	23-Aug-17	23-Aug-17	0%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>																																	
OX1030	Notification of Completion to EPA, TDEC, TCWN	0	23-Aug-17	23-Aug-17	0%	Notification of Completion to EPA, TDEC, TCWN																											
<b>Altamont Sewer Basin and PS Improvements</b>																																	
<b>Consent Decree Duration (36 Months)</b>																																	
OV1040	Consent Decree Duration	1096	24-Apr-13A	24-Apr-16A	100%	Consent Decree Duration																											
OV1050	Consent Decree Duration Completion Milestone	0		24-Apr-16A	100%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>																																	
OV1090	Previously Procured Consent Decree Projects	61	21-Dec-10A	21-Feb-11A	100%	Previously Procured Consent Decree Projects																											
<b>Planning Phase</b>																																	
OV1000	Planning Phase	221	22-Feb-11A	01-Oct-11A	100%	Planning Phase																											
OV1060	SRF Facility Plan Approval	30	01-Sep-11A	01-Oct-11A	100%	SRF Facility Plan Approval																											
<b>Engineering Phase</b>																																	
OV1010	Engineering - Pump Station	372	01-Sep-11A	07-Sep-12A	100%	Engineering - Pump Station																											
OV1020	SRF Approval of Contract Documents	0	07-Sep-12A	07-Sep-12A	100%	SRF Approval of Contract Documents																											
OV1200	Engineering - Collection System	0	07-Sep-12A	07-Sep-12A	100%	Engineering - Collection System																											
OV1210	SRF Approval of Contract Documents	0	07-Sep-12A	07-Sep-12A	100%	SRF Approval of Contract Documents																											
<b>Construction Bidding Phase</b>																																	
OV1070	Construction Bidding Phase - Pump Station	80	07-Sep-12A	25-Nov-12A	100%	Construction Bidding Phase - Pump Station																											



- Summary
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**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
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Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019		2020			
						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		
OV1220	SRF Administration Phase - Pump Station	60	07-Sep-12 A	05-Nov-12 A	100%	Administration Phase - Pump Station																											
OV1230	Construction Bidding Phase - Collection System	0	07-Sep-12 A	07-Sep-12 A	100%	Construction Bidding Phase - Collection System																											
OV1240	SRF Administration Phase - Collection System	80	07-Sep-12 A	25-Nov-12 A	100%	Administration Phase - Collection System																											
<b>Construction Phase</b>						Construction Phase																											
OV1080	Construction Phase - Pump Station	444	07-Jan-13 A	27-Mar-14 A	100%	Construction Phase - Pump Station																											
OV1250	Construction Phase - Collection System	494	26-Nov-12 A	04-Apr-14 A	100%	Construction Phase - Collection System																											
<b>Project Completion Report</b>						Project Completion Report																											
OI2200	Project Completion Report	115	05-Apr-14 A	29-Jul-14 A	100%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
OV1030	Notification of Completion to EPA, TDEC, TCWN	0	30-Jul-14 A	30-Jul-14 A	0%	Notification of Completion to EPA, TDEC, TCWN																											
<b>Pineville PS and Sewer Basin Improvements</b>						Pineville PS and Sewer Basin Improvements																											
<b>Consent Decree Duration (36 Months)</b>						Consent Decree Duration (36 Months)																											
OZ1040	Consent Decree Duration	1096	24-Apr-13 A	24-Apr-16 A	100%	Consent Decree Duration																											
OZ1050	Consent Decree Duration Completion Milestone	0		24-Apr-16 A	100%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
OZ1090	Previously Procured Consent Decree Projects	1	01-Mar-11 A	01-Mar-11 A	100%	Previously Procured Consent Decree Projects																											
<b>Planning Phase</b>						Planning Phase																											
OZ1000	Planning Phase	189	11-Apr-11 A	17-Oct-11 A	100%	Planning Phase																											
OZ1060	SRF Facility Plan Approval	31	16-Sep-11 A	17-Oct-11 A	100%	SRF Facility Plan Approval																											
<b>Engineering Phase</b>						Engineering Phase																											
OZ1010	Engineering	760	16-Sep-11 A	15-Oct-13 A	100%	Engineering																											
OZ1020	SRF Approval of Contract Documents	745	16-Sep-11 A	30-Sep-13 A	100%	SRF Approval of Contract Documents																											
<b>Construction Bidding Phase</b>						Construction Bidding Phase																											
OZ1070	Construction Bidding Phase	136	17-Oct-13 A	02-Mar-14 A	100%	Construction Bidding Phase																											
OZ1100	SRF Administration Period	22	17-Oct-13 A	08-Nov-13 A	100%	SRF Administration Period																											
OZ1100	SRF Administration Period	113	09-Nov-13 A	02-Mar-14 A	100%	SRF Administration Period																											
<b>Construction Phase</b>						Construction Phase																											
OZ1080	Construction Phase	199	03-Mar-14 A	18-Sep-14 A	100%	Construction Phase																											
OZ1080	Construction Phase	199	03-Mar-14 A	18-Sep-14 A	100%	Construction Phase																											
<b>Project Completion Report</b>						Project Completion Report																											
OI2250	Project Completion Report	0	18-Sep-14 A	18-Sep-14 A	0%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
OZ1030	Notification of Completion to EPA, TDEC, TCWN	0	18-Sep-14 A	18-Sep-14 A	0%	Notification of Completion to EPA, TDEC, TCWN																											
<b>Citico Creek Interceptor Rehab</b>						Citico Creek Interceptor Rehab																											
<b>Consent Decree Duration (36 Months)</b>						Consent Decree Duration (36 Months)																											
OW1040	Consent Decree Duration	1096	24-Apr-13 A	24-Apr-16 A	100%	Consent Decree Duration																											
OW1050	Consent Decree Duration Completion Milestone	0		24-Apr-16 A	100%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
A4440	Project Procurement	90	01-Apr-09 A	29-Jun-09 A	100%	Project Procurement																											
<b>Planning Phase</b>						Planning Phase																											
OW1000	Planning Phase	63	30-Jun-09 A	01-Sep-09 A	100%	Planning Phase																											
OW1060	SRF Facility Plan Approval	0	30-Jun-09 A	30-Jun-09 A	100%	SRF Facility Plan Approval																											
<b>Engineering Phase</b>						Engineering Phase																											
		390	01-Jul-09 A	01-Aug-10 A	100%																												



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 CITY OF CHATTANOOGA, TN  
 WASTE RESOURCES DIVISION





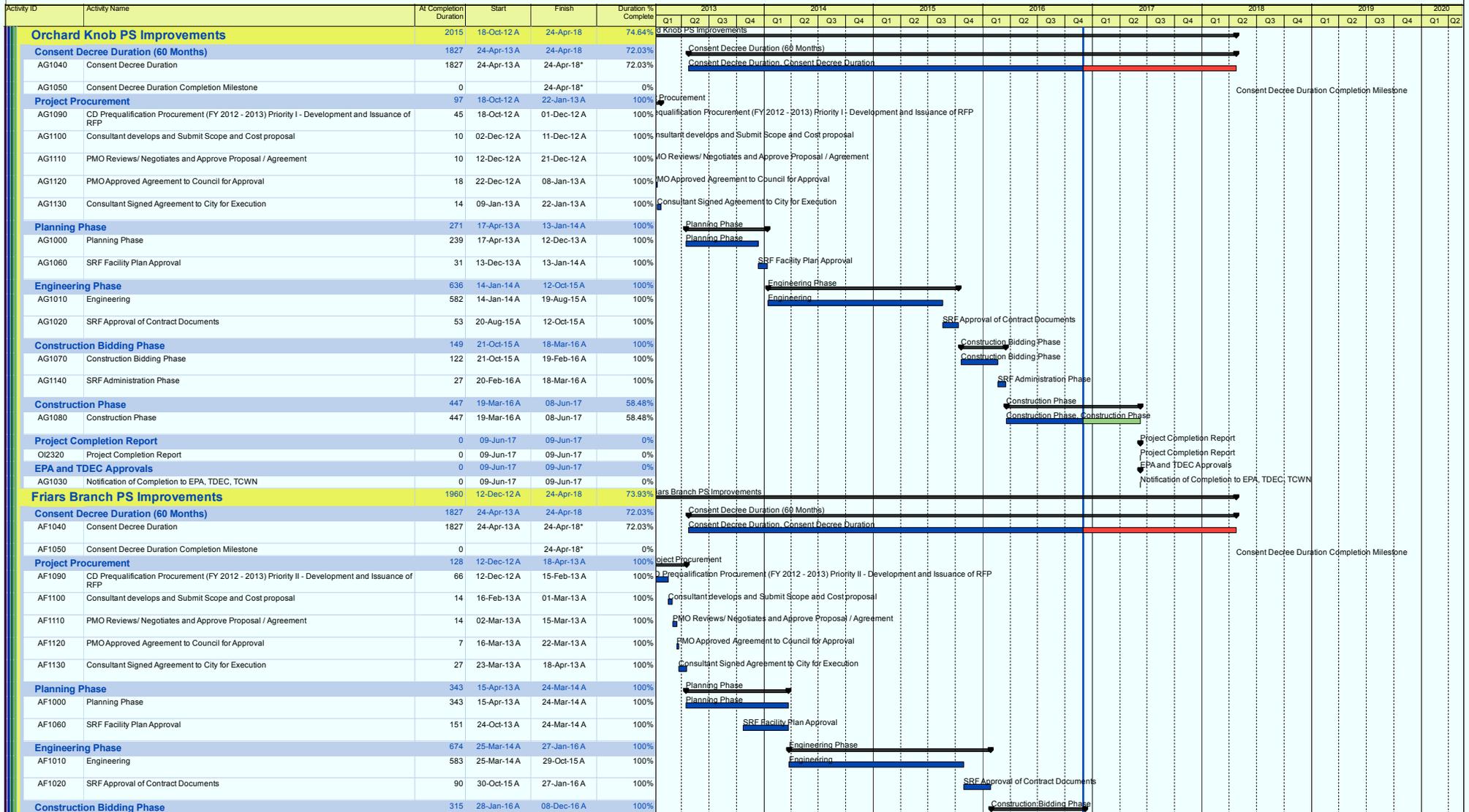
Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019		2020			
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
AM1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	12-Dec-12A	21-Dec-12A	100%	MO Reviews/ Negotiates and Approve Proposal / Agreement																											
AM1120	PMO Approved Agreement to Council for Approval	18	22-Dec-12A	08-Jan-13A	100%	MO Approved Agreement to Council for Approval																											
AM1130	Consultant Signed Agreement to City for Execution	14	09-Jan-13A	22-Jan-13A	100%	Consultant Signed Agreement to City for Execution																											
<b>Planning Phase</b>						Planning Phase																											
AM1000	Planning Phase	656	23-Jan-13A	10-Nov-14A	100%	Planning Phase																											
AM1060	SRF Facility Plan Approval	0	23-Jan-13A	23-Jan-13A	100%	SRF Facility Plan Approval																											
<b>Project Completion Report</b>						Project Completion Report																											
OI2280	Project Completion Report	0	10-Nov-14A	10-Nov-14A	100%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
AM1030	Notification of Completion to EPA, TDEC, TCWN	0	10-Nov-14A	10-Nov-14A	100%	Notification of Completion to EPA, TDEC, TCWN																											
<b>Tremont Area Sewer Separation Study</b>						Tremont Area Sewer Separation Study																											
<b>Consent Decree Duration (36 Months)</b>						Consent Decree Duration (36 Months)																											
OU1040	Consent Decree Duration	1096	24-Apr-13A	24-Apr-16A	100%	Consent Decree Duration																											
OU1050	Consent Decree Duration Completion Milestone	0		24-Apr-16A	100%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
OU1090	Previously Procured Consent Decree Projects	175	07-Sep-12A	28-Feb-13A	100%	Previously Procured Consent Decree Projects																											
<b>Planning Phase</b>						Planning Phase																											
OU1000	Planning Phase	447	01-Mar-13A	22-May-14A	100%	Planning Phase																											
<b>Project Completion Report</b>						Project Completion Report																											
OI2190	Project Completion Report	67	23-May-14A	29-Jul-14A	100%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
OU1030	Notification of Completion to EPA, TDEC, TCWN	0	30-Jul-14A	30-Jul-14A	100%	Notification of Completion to EPA, TDEC, TCWN																											
<b>ESIP PS, Force Main and Interceptor Upgrade</b>						ESIP PS, Force Main and Interceptor Upgrade																											
<b>Consent Decree Duration (36 Months)</b>						Consent Decree Duration (36 Months)																											
OT1040	Consent Decree Duration	1462	24-Apr-13A	24-Apr-17	90.01%	Consent Decree Duration																											
OT1050	Consent Decree Duration Completion Milestone	0		24-Apr-17*	0%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
OT1090	Previously Procured Consent Decree Projects	61	24-Dec-10A	24-Feb-11A	100%	Previously Procured Consent Decree Projects																											
<b>Planning Phase</b>						Planning Phase																											
OT1000	Planning Phase	42	25-Feb-11A	07-Apr-11A	100%	Planning Phase																											
OT1060	SRF Facility Plan Approval	27	11-Mar-11A	07-Apr-11A	100%	SRF Facility Plan Approval																											
<b>Engineering Phase</b>						Engineering Phase																											
OT1010	Engineering	1021	08-Apr-11A	23-Jan-14A	100%	Engineering																											
OT1020	SRF Approval of Contract Documents	929	08-Apr-11A	23-Oct-13A	100%	SRF Approval of Contract Documents																											
<b>Construction Bidding Phase</b>						Construction Bidding Phase																											
OT1070	Construction Bidding Phase	90	30-Jan-14A	29-Apr-14A	100%	Construction Bidding Phase																											
OT1100	SRF Administration Period	88	30-Jan-14A	28-Apr-14A	100%	SRF Administration Period																											
<b>Construction Phase</b>						Construction Phase																											
OT1080	Construction Phase	36	25-Mar-14A	29-Apr-14A	100%	Construction Phase																											
<b>Project Completion Report</b>						Project Completion Report																											
OI2180	Project Completion Report	1020	09-Jun-14A	24-Mar-17	87.73%	Project Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
OT1030	Notification of Completion to EPA, TDEC, TCWN	0	25-Mar-17	25-Mar-17	0%	Notification of Completion to EPA, TDEC, TCWN																											



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Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	Timeline (2013-2020)																			
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
AK1130	Consultant Signed Agreement to City for Execution	14	09-Jan-13 A	22-Jan-13 A	100%	[Gantt bar: 09-Jan-13 A to 22-Jan-13 A]																			
<b>Planning Phase</b>						[Summary bar: 09-Jan-13 A to 13-Feb-14 A]																			
AK1000	Planning Phase	376	02-Feb-13 A	13-Feb-14 A	100%	[Gantt bar: 02-Feb-13 A to 13-Feb-14 A]																			
AK1060	SRF Facility Plan Approval	112	24-Oct-13 A	13-Feb-14 A	100%	[Gantt bar: 24-Oct-13 A to 13-Feb-14 A]																			
<b>Engineering Phase</b>						[Summary bar: 14-Feb-14 A to 20-Oct-14 A]																			
AK1010	Engineering	248	14-Feb-14 A	20-Oct-14 A	100%	[Gantt bar: 14-Feb-14 A to 20-Oct-14 A]																			
AK1020	SRF Approval of Contract Documents	44	06-Sep-14 A	20-Oct-14 A	100%	[Gantt bar: 06-Sep-14 A to 20-Oct-14 A]																			
<b>Construction Bidding Phase</b>						[Summary bar: 23-Oct-14 A to 12-Dec-14 A]																			
AK1070	Construction Bidding Phase	50	23-Oct-14 A	12-Dec-14 A	100%	[Gantt bar: 23-Oct-14 A to 12-Dec-14 A]																			
AK1140	SRF Administration Phase	7	05-Dec-14 A	12-Dec-14 A	100%	[Gantt bar: 05-Dec-14 A to 12-Dec-14 A]																			
<b>Construction Phase</b>						[Summary bar: 16-Feb-15 A to 20-Jul-16 A]																			
AK1080	Construction Phase	520	16-Feb-15 A	20-Jul-16 A	100%	[Gantt bar: 16-Feb-15 A to 20-Jul-16 A]																			
<b>Project Completion Report</b>						[Summary bar: 21-Jul-16 A to 21-Jul-16 A]																			
AK1150	Project Completion Report	0	21-Jul-16 A	21-Jul-16 A	100%	[Gantt bar: 21-Jul-16 A to 21-Jul-16 A]																			
<b>EPA and TDEC Approvals</b>						[Summary bar: 21-Jul-16 A to 31-Jul-16 A]																			
A4660	Notification of Completion to EPA, TDEC, TCWN	10	21-Jul-16 A	31-Jul-16 A	100%	[Gantt bar: 21-Jul-16 A to 31-Jul-16 A]																			
<b>MBWWTP Bar and Fine Screen Replacements</b>						[Summary bar: 01-Jan-12 A to 24-Apr-18]																			
<b>Consent Decree Duration (60 Months)</b>						[Summary bar: 24-Apr-13 A to 24-Apr-18]																			
AJ1040	Consent Decree Duration	1827	24-Apr-13 A	24-Apr-18	72.03%	[Gantt bar: 24-Apr-13 A to 24-Apr-18]																			
AJ1050	Consent Decree Duration Completion Milestone	0	24-Apr-18*	24-Apr-18*	0%	[Milestone: 24-Apr-18*]																			
<b>Project Procurement</b>						[Summary bar: 07-Sep-12 A to 07-Sep-12 A]																			
AJ1090	Previously Procured Consent Decree Projects	0	07-Sep-12 A	07-Sep-12 A	100%	[Milestone: 07-Sep-12 A]																			
<b>Planning Phase</b>						[Summary bar: 01-Jan-12 A to 17-Oct-12 A]																			
AJ1000	Planning Phase	290	01-Jan-12 A	17-Oct-12 A	100%	[Gantt bar: 01-Jan-12 A to 17-Oct-12 A]																			
AJ1060	SRF Facility Plan Approval	280	01-Jan-12 A	07-Oct-12 A	100%	[Gantt bar: 01-Jan-12 A to 07-Oct-12 A]																			
AJ1060	SRF Facility Plan Approval	9	08-Oct-12 A	17-Oct-12 A	100%	[Gantt bar: 08-Oct-12 A to 17-Oct-12 A]																			
<b>Engineering Phase</b>						[Summary bar: 01-May-12 A to 20-Oct-14 A]																			
AJ1010	Engineering	902	01-May-12 A	20-Oct-14 A	100%	[Gantt bar: 01-May-12 A to 20-Oct-14 A]																			
AJ1020	SRF Approval of Contract Documents	857	01-May-12 A	05-Sep-14 A	100%	[Gantt bar: 01-May-12 A to 05-Sep-14 A]																			
AJ1020	SRF Approval of Contract Documents	44	06-Sep-14 A	20-Oct-14 A	100%	[Gantt bar: 06-Sep-14 A to 20-Oct-14 A]																			
<b>Construction Bidding Phase</b>						[Summary bar: 23-Oct-14 A to 12-Feb-15 A]																			
AJ1070	Construction Bidding Phase	112	23-Oct-14 A	12-Feb-15 A	100%	[Gantt bar: 23-Oct-14 A to 12-Feb-15 A]																			
AJ1070	Construction Bidding Phase	42	23-Oct-14 A	04-Dec-14 A	100%	[Gantt bar: 23-Oct-14 A to 04-Dec-14 A]																			
AJ1100	SRF Administration Phase	69	05-Dec-14 A	12-Feb-15 A	100%	[Gantt bar: 05-Dec-14 A to 12-Feb-15 A]																			
<b>Construction Phase</b>						[Summary bar: 16-Feb-15 A to 23-Dec-16]																			
AJ1080	Construction Phase	677	16-Feb-15 A	23-Dec-16	94.74%	[Gantt bar: 16-Feb-15 A to 23-Dec-16]																			
AJ1080	Construction Phase	677	16-Feb-15 A	23-Dec-16	94.74%	[Gantt bar: 16-Feb-15 A to 23-Dec-16]																			
<b>MBWWTP Secondary Clarifier Upgrades and Additions</b>						[Summary bar: 24-Apr-13 A to 13-Oct-18]																			
<b>Consent Decree Duration (60 Months)</b>						[Summary bar: 24-Apr-13 A to 24-Apr-18]																			
AL1040	Consent Decree Duration	1827	24-Apr-13 A	24-Apr-18	72.03%	[Gantt bar: 24-Apr-13 A to 24-Apr-18]																			
AL1050	Consent Decree Duration Completion Milestone	0	24-Apr-18*	24-Apr-18*	0%	[Milestone: 24-Apr-18*]																			
<b>Project Procurement</b>						[Summary bar: 04-Aug-14 A to 26-Jan-15 A]																			
AL1090	CD Prequalification Procurement (FY 2014 - 2015) - Development and Issuance of RFP	175	04-Aug-14 A	26-Jan-15 A	100%	[Gantt bar: 04-Aug-14 A to 26-Jan-15 A]																			
AL1090	CD Prequalification Procurement (FY 2014 - 2015): Development and Issuance of RFP	46	04-Aug-14 A	19-Sep-14 A	100%	[Gantt bar: 04-Aug-14 A to 19-Sep-14 A]																			
AL1100	Consultant develops and Submit Scope and Cost proposal	18	20-Sep-14 A	08-Oct-14 A	100%	[Gantt bar: 20-Sep-14 A to 08-Oct-14 A]																			
AL1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	27	09-Oct-14 A	05-Nov-14 A	100%	[Gantt bar: 09-Oct-14 A to 05-Nov-14 A]																			
AL1120	PMO Approved Agreement to Council for Approval	14	06-Nov-14 A	20-Nov-14 A	100%	[Gantt bar: 06-Nov-14 A to 20-Nov-14 A]																			



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Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013				2014				2015				2016				2017				2018				2019				2020	
						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
<b>Consent Decree Duration (36 Months)</b>						Consent Decree Duration (36 Months)																													
AH1040	Consent Decree Duration	1096	24-Apr-13 A	24-Apr-16 A	100%	Consent Decree Duration																													
AH1050	Consent Decree Duration Completion Milestone	0		24-Apr-16 A	100%	Consent Decree Duration Completion Milestone																													
<b>Project Procurement</b>						Procurement																													
AH1090	Previously Procured Consent Decree Projects	345	07-Sep-12 A	17-Aug-13 A	100%	Previously Procured Consent Decree Projects																													
<b>Planning Phase</b>						Planning Phase																													
AH1000	Planning Phase	345	18-Aug-13 A	28-Jul-14 A	100%	Planning Phase																													
AH1060	SRF Facility Plan Approval	43	16-Jun-14 A	28-Jul-14 A	100%	SRF Facility Plan Approval																													
<b>Engineering Phase</b>						Engineering Phase																													
AH1010	Engineering	513	18-Aug-13 A	12-Jan-15 A	100%	Engineering																													
AH1020	SRF Approval of Contract Documents	168	29-Jul-14 A	12-Jan-15 A	100%	SRF Approval of Contract Documents																													
<b>Construction Bidding Phase</b>						Construction Bidding Phase																													
AH1070	Construction Bidding Phase	169	19-Feb-15 A	06-Aug-15 A	100%	Construction Bidding Phase																													
AH1100	SRF Administration Phase	4	03-Aug-15 A	06-Aug-15 A	100%	SRF Administration Phase																													
<b>Construction Phase</b>						Construction Phase																													
AH1080	Construction Phase	240	28-Aug-15 A	24-Apr-16 A	100%	Construction Phase																													
<b>Project Completion Report</b>						Project Completion Report																													
OI2370	Project Completion Report	0	24-Apr-16 A	24-Apr-16 A	0%	Project Completion Report																													
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																													
AH1030	Notification of Completion to EPA, TDEC, TCWN	0	24-Apr-16 A	24-Apr-16 A	100%	Notification of Completion to EPA, TDEC, TCWN																													
<b>Automation of Valve Operators at CSO Facilities</b>						Automation of Valve Operators at CSO Facilities																													
<b>Consent Decree Duration (36 Months)</b>						Consent Decree Duration (36 Months)																													
AH1140	Consent Decree Duration	1096	24-Apr-13 A	24-Apr-16 A	100%	Consent Decree Duration																													
AH1150	Consent Decree Duration Completion Milestone	0		24-Apr-16 A	100%	Consent Decree Duration Completion Milestone																													
<b>Project Procurement</b>						Procurement																													
AH1190	Previously Procured Consent Decree Projects (City Internal Project - Completed)	0	15-Jul-12 A	15-Jul-12 A	100%	Previously Procured Consent Decree Projects (City Internal Project - Completed)																													
<b>Construction Phase</b>						Construction Phase																													
AH1180	Construction Phase	54	15-Jul-12 A	07-Sep-12 A	100%	Construction Phase																													
<b>Project Completion Report</b>						Project Completion Report																													
OI2420	Project Completion Report	181	01-Aug-13 A	29-Jan-14 A	100%	Project Completion Report																													
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																													
AH1130	Notification of Completion to EPA, TDEC, TCWN	0	30-Jan-14 A	30-Jan-14 A	100%	Notification of Completion to EPA, TDEC, TCWN																													
<b>Operations Projects</b>						Operations Projects																													
<b>South Chick PS Reliability Improvements</b>						South Chick PS Reliability Improvements																													
<b>Consent Decree Duration (36 Months)</b>						Consent Decree Duration (36 Months)																													
AH1040	Consent Decree Duration	1096	24-Apr-13 A	24-Apr-16 A	100%	Consent Decree Duration																													
AH1050	Consent Decree Duration Completion Milestone	0		24-Apr-16 A	100%	Consent Decree Duration Completion Milestone																													
<b>Project Procurement</b>						Procurement																													
AH1090	Previously Procured Consent Decree Projects	66	07-Sep-12 A	11-Nov-12 A	100%	Previously Procured Consent Decree Projects																													
<b>Planning Phase</b>						Planning Phase																													
AH1000	Planning Phase	0	12-Nov-12 A	12-Nov-12 A	0%	Planning Phase																													
AH1060	SRF Facility Plan Approval	0	12-Nov-12 A	12-Nov-12 A	100%	SRF Facility Plan Approval																													



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



Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	Timeline (2013-2020)																							
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
<b>Engineering Phase</b>																													
AH1010	Engineering	0	12-Nov-12 A	12-Nov-12 A	0%	Engineering Phase																							
AH1020	SRF Approval of Contract Documents	0	12-Nov-12 A	12-Nov-12 A	100%	Approval of Contract Documents																							
<b>Construction Bidding Phase</b>																													
AH1070	Construction Bidding Phase	0	12-Nov-12 A	12-Nov-12 A	100%	Construction Bidding Phase																							
<b>Construction Phase</b>																													
AH1080	Construction Phase	5	12-Nov-12 A	16-Nov-12 A	100%	Construction Phase																							
<b>Project Completion Report</b>																													
OI2360	Project Completion Report	438	17-Nov-12 A	29-Jan-14 A	100%	Project Completion Report																							
<b>EPA and TDEC Approvals</b>																													
AH1030	Notification of Completion to EPA, TDEC, TCWN	0	30-Jan-14 A	30-Jan-14 A	100%	EPA and TDEC Approvals Notification of Completion to EPA, TDEC, TCWN																							
<b>MBWWTP Telemetry and SCADA Upgrades</b>																													
AC1190	Consent Decree Duration (60 Months)	1827	24-Apr-13 A	24-Apr-18	72.03%	Consent Decree Duration (60 Months)																							
AC1200	Consent Decree Duration Completion Milestone	0		24-Apr-18*	0%	Consent Decree Duration Completion Milestone																							
<b>Project Procurement</b>																													
AC1240	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	45	18-Oct-12 A	01-Dec-12 A	100%	Procurement																							
AC1250	Consultant develops and Submit Scope and Cost proposal	10	02-Dec-12 A	11-Dec-12 A	100%	Procurement																							
AC1260	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	12-Dec-12 A	21-Dec-12 A	100%	Procurement																							
AC1270	PMO Approved Agreement to Council for Approval	18	22-Dec-12 A	08-Jan-13 A	100%	Procurement																							
AC1280	Consultant Signed Agreement to City for Execution	14	09-Jan-13 A	22-Jan-13 A	100%	Procurement																							
<b>Planning Phase</b>																													
AC1150	Planning Phase	75	27-Mar-13 A	10-Jun-13 A	100%	Planning Phase																							
AC1210	SRF Facility Plan Approval	30	11-Jun-13 A	11-Jul-13 A	100%	SRF Facility Plan Approval																							
<b>Engineering Phase</b>																													
AC1160	Engineering	851	12-Jul-13 A	10-Nov-15 A	100%	Engineering Phase																							
AC1170	SRF Approval of Contract Documents	24	17-Oct-15 A	10-Nov-15 A	100%	Engineering																							
<b>Construction Bidding Phase</b>																													
AC1220	Construction Bidding Phase	363	10-Nov-15 A	07-Nov-16 A	100%	Construction Bidding Phase																							
AC1290	SRF Administration Period	25	07-Nov-16 A	01-Dec-16	84.62%	SRF Administration Period																							
<b>Construction Phase</b>																													
AC1230	Construction Phase	304	02-Dec-16	01-Oct-17	0%	Construction Phase																							
<b>Project Completion Report</b>																													
OI2410	Project Completion Report	0	02-Oct-17	02-Oct-17	0%	Project Completion Report																							
<b>EPA and TDEC Approvals</b>																													
AC1180	Notification of Completion to EPA, TDEC, TCWN	0	02-Oct-17	02-Oct-17	0%	EPA and TDEC Approvals Notification of Completion to EPA, TDEC, TCWN																							
<b>Para 23 - East Bank/West Bank Outfall Assessment and Rehabi</b>																													
<b>East Bank/West Bank Outfall Assessment and Rehabilitation F</b>																													
<b>East Bank/West Bank Outfall Assessment and Rehabilitation Plan</b>																													
AH1100	East Bank/West Bank Outfall Assessment and Rehabilitation Plan	213	13-Oct-19	12-May-20	0%	East Bank/West Bank Outfall Assessment and Rehabilitation Plan																							
AH1110	East Bank/West Bank Outfall Assessment and Rehabilitation Project	2558	13-May-20	14-May-27	0%	East Bank/West Bank Outfall Assessment and Rehabilitation Project																							
<b>Para 24 - Long Term Control Plan Updates</b>																													
<b>LTCP-Post Const. Compliance Monitoring Program</b>																													
O01220	Consent Decree Duration (19 Months)	579	24-Apr-13 A	24-Nov-14 A	100%	Long Term Control Plan Updates																							
O01220	Consent Decree Duration	579	24-Apr-13 A	24-Nov-14 A	100%	Consent Decree Duration (19 Months)																							



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





Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019		2020	
						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
<b>Consent Decree Duration (19 Months)</b>						Consent Decree Duration (19 Months)																									
OP1110	Consent Decree Duration	579	24-Apr-13 A	24-Nov-14 A	100%	Consent Decree Duration																									
OP1120	Consent Decree Duration Completion Milestone	0	24-Apr-13 A	24-Nov-14 A	100%	Consent Decree Duration Completion Milestone																									
<b>Project Procurement</b>						Procurement																									
OP1000	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	52	18-Oct-12 A	08-Dec-12 A	100%	Qualification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP																									
OP1130	Consultant develops and Submit Scope and Cost proposal	10	18-Oct-12 A	27-Oct-12 A	100%	Consultant develops and Submit Scope and Cost proposal																									
OP1140	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	28-Oct-12 A	06-Nov-12 A	100%	Reviews/ Negotiates and Approve Proposal / Agreement																									
OP1150	PMO Approved Agreement to Council for Approval	18	07-Nov-12 A	24-Nov-12 A	100%	Approved Agreement to Council for Approval																									
OP1160	Consultant Signed Agreement to City for Execution	14	25-Nov-12 A	08-Dec-12 A	100%	Consultant Signed Agreement to City for Execution																									
<b>Planning Phase</b>						Planning Phase																									
OP1010	Planning Phase	531	29-Apr-13 A	12-Oct-14 A	100%	Planning Phase																									
OP1190	Program Manager / Owner Review and Coordination	8	29-Apr-13 A	03-Oct-14 A	100%	Program Manager / Owner Review and Coordination																									
<b>Public Document Repository</b>						Public Document Repository																									
OP1020	Submit Draft Deliverable to Reference Librarian	36	13-Oct-14 A	18-Nov-14 A	100%	Submit Draft Deliverable to Reference Librarian																									
OP1030	Post Copy of Draft Deliverable on City's Website	0	13-Oct-14 A	13-Oct-14 A	100%	Post Copy of Draft Deliverable on City's Website																									
OP1040	Public Review Period	3	13-Oct-14 A	16-Oct-14 A	100%	Public Review Period																									
OP1050	Public Comment Review Period	35	13-Oct-14 A	17-Nov-14 A	100%	Public Comment Review Period																									
OP1060	Submit Deliverable to EPA, TDEC and Provide notice to TCWN	0	18-Nov-14 A	18-Nov-14 A	100%	Submit Deliverable to EPA, TDEC and Provide notice to TCWN																									
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																									
OP1070	Place Copy of EPA and TDEC Submittal in PDR	176	18-Nov-14 A	13-May-15 A	100%	Place Copy of EPA and TDEC Submittal in PDR																									
OP1080	EPA/ TDEC Review	6	18-Nov-14 A	24-Nov-14 A	100%	EPA/ TDEC Review																									
OP1090	Address Comments for Final EPA/ TDEC Approval	113	19-Nov-14 A	12-Mar-15 A	100%	Address Comments for Final EPA/ TDEC Approval																									
OP1100	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	60	13-Mar-15 A	12-May-15 A	100%	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)																									
OP1100	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	0	13-May-15 A	13-May-15 A	100%	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)																									
<b>Para 26 - Green Infrastructure Plan</b>						Para 26 - Green Infrastructure Plan																									
<b>Green Infrastructure Program Plan for CSS Basins</b>						Green Infrastructure Program Plan for CSS Basins																									
<b>Consent Decree Duration (24 Months)</b>						Consent Decree Duration (24 Months)																									
OQ1110	Consent Decree Duration	730	24-Apr-13 A	24-Apr-15 A	100%	Consent Decree Duration																									
OQ1120	Consent Decree Duration Completion Milestone	0	24-Apr-13 A	24-Apr-15 A	100%	Consent Decree Duration Completion Milestone																									
<b>Project Procurement</b>						Procurement																									
OQ1000	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	97	18-Oct-12 A	22-Jan-13 A	100%	Qualification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP																									
OQ1130	Consultant develops and Submit Scope and Cost proposal	45	18-Oct-12 A	01-Dec-12 A	100%	Consultant develops and Submit Scope and Cost proposal																									
OQ1140	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	02-Dec-12 A	11-Dec-12 A	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																									
OQ1150	PMO Approved Agreement to Council for Approval	10	12-Dec-12 A	21-Dec-12 A	100%	PMO Approved Agreement to Council for Approval																									
OQ1160	Consultant Signed Agreement to City for Execution	18	22-Dec-12 A	08-Jan-13 A	100%	Consultant Signed Agreement to City for Execution																									
OQ1160	Consultant Signed Agreement to City for Execution	14	09-Jan-13 A	22-Jan-13 A	100%	Consultant Signed Agreement to City for Execution																									
<b>Planning Phase</b>						Planning Phase																									
OQ1010	Planning Phase	747	05-Apr-13 A	22-Apr-15 A	100%	Planning Phase																									
OQ1170	Program Manager / Owner Review and Coordination	699	05-Apr-13 A	05-Mar-15 A	100%	Program Manager / Owner Review and Coordination																									
<b>Public Document Repository</b>						Public Document Repository																									
OQ1020	Submit Draft Deliverable to Reference Librarian	36	18-Mar-15 A	23-Apr-15 A	100%	Submit Draft Deliverable to Reference Librarian																									
OQ1020	Submit Draft Deliverable to Reference Librarian	0	18-Mar-15 A	18-Mar-15 A	100%	Submit Draft Deliverable to Reference Librarian																									



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



Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019		2020			
						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		
OQ1030	Post Copy of Draft Deliverable on City's Website	0	18-Mar-15 A	18-Mar-15 A	100%																												
OQ1040	Public Review Period	33	18-Mar-15 A	20-Apr-15 A	100%																												
OQ1050	Public Comment Review Period	2	21-Apr-15 A	23-Apr-15 A	100%																												
OQ1060	Submit Deliverable to EPA, TDEC and Provide notice to TCWN	0		23-Apr-15 A	100%																												
<b>EPA and TDEC Approvals</b>						204	23-Apr-15 A	13-Nov-15 A	100%																								
OQ1070	Place Copy of EPA and TDEC Submittal in PDR	5	23-Apr-15 A	28-Apr-15 A	100%																												
OQ1080	EPA Review and Approval	204	23-Apr-15 A	13-Nov-15 A	100%																												
OQ1090	TDEC Review and Approval	204	23-Apr-15 A	13-Nov-15 A	100%																												
OQ1100	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	0	13-Nov-15 A	13-Nov-15 A	100%																												
<b>Section VII - Civil Penalty</b>						2307	01-Jan-13 A	26-Apr-19	64.55%																								
<b>Para 29 - Cash Fine</b>						24	24-Apr-13 A	17-May-13 A	100%																								
<b>Cash Fine</b>						24	24-Apr-13 A	17-May-13 A	100%																								
<b>Civil Penalty - 50% Cash Payment</b>						24	24-Apr-13 A	17-May-13 A	100%																								
CF1000	Pay 50% of Civil Penalty of \$238,200 to Dept of Justice by EFT	24	24-Apr-13 A	17-May-13 A	100%																												
<b>Para 30 - State Project (50% of Civil Penalty)</b>						2307	01-Jan-13 A	26-Apr-19	59.98%																								
<b>Highland Park GI Demonstration Project</b>						2307	01-Jan-13 A	26-Apr-19	59.98%																								
<b>Consent Decree Duration</b>						2194	24-Apr-13 A	26-Apr-19	59.98%																								
OR1030	Consent Decree Duration	2194	24-Apr-13 A	26-Apr-19	52.72%																												
OR1040	Consent Decree Duration Completion Milestone	0		26-Apr-19*	0%																												
OR1090	Task 4 CD Duration	185	24-Oct-18	26-Apr-19	0%																												
OR1100	Task 1 CD Duration	183	24-Apr-13 A	24-Oct-13 A	100%																												
OR1170	Task 2 CD Duration	180	26-Apr-14 A	23-Oct-14 A	100%																												
OR1230	Task 3 CD Duration	1461	24-Oct-14 A	23-Oct-18	15.59%																												
<b>Project Procurement</b>						0	24-Apr-13 A	24-Apr-13 A	0%																								
OR1080	City Internal Performance	0	24-Apr-13 A	24-Apr-13 A	100%																												
<b>Task 1 - Planning Phase</b>						479	01-Jan-13 A	25-Apr-14 A	100%																								
OR1000	Project Plan	247	01-Jan-13 A	05-Sep-13 A	100%																												
OR1005	Public Document Repository	47	06-Sep-13 A	23-Oct-13 A	100%																												
OR1050	EPA Submittal	183	24-Oct-13 A	25-Apr-14 A	100%																												
<b>Task 2 - Engineering Phase</b>						181	25-Apr-14 A	23-Oct-14 A	100%																								
OR1010	EPA Project Plan Approval	0		25-Apr-14 A	100%																												
OR1020	Detailed Design	146	25-Apr-14 A	18-Sep-14 A	100%																												
OR1110	Public Document Repository	33	19-Sep-14 A	22-Oct-14 A	100%																												
OR1120	EPA Submittal	0	23-Oct-14 A	23-Oct-14 A	100%																												
<b>Task 3 - Construction Bidding Phase</b>						888	23-Oct-14 A	28-Mar-17	88%																								
OR1060	EPA Detailed Design Approval	0		23-Oct-14 A	100%																												
OR1180	3A - Bidding	887	24-Oct-14 A	28-Mar-17	84.68%																												
<b>Task 3: Construction Phase</b>						211	29-Mar-17	25-Oct-17	0%																								
OR1190	3B - Construction	211	29-Mar-17*	25-Oct-17	0%																												
<b>Task 4 - GI Design Workshop</b>						110	26-Oct-17	12-Feb-18	0%																								
OR1070	Prepare and Conduct Workshop	110	26-Oct-17*	12-Feb-18	0%																												
<b>Section VIII - Supplemental Environmental Project</b>						2015	18-Oct-12 A	24-Apr-16	74.64%																								



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 WASTE RESOURCES DIVISION



Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013		2014				2015				2016				2017				2018				2019				2020	
						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
<b>Para 31 - Supplemental Environmental Project</b>						Supplemental Environmental Project																											
<b>Agawela Drive Stream Restoration</b>						Agawela Drive Stream Restoration																											
<b>Consent Decree Duration (60 Months)</b>						Consent Decree Duration (60 Months)																											
OS1030	Consent Decree Duration (60 Months)	1827	24-Apr-13 A	24-Apr-18	72.03%	Consent Decree Duration (60 Months)																											
OS1040	Consent Decree Duration Completion Milestone	0		24-Apr-18*	0%	Consent Decree Duration Completion Milestone																											
<b>Project Procurement</b>						Project Procurement																											
OS1080	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	45	18-Oct-12 A	01-Dec-12 A	100%	Qualification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP																											
OS1090	Consultant develops and Submit Scope and Cost proposal	10	02-Dec-12 A	11-Dec-12 A	100%	Consultant develops and Submit Scope and Cost proposal																											
OS1100	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	12-Dec-12 A	21-Dec-12 A	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																											
OS1110	PMO Approved Agreement to Council for Approval	18	22-Dec-12 A	08-Jan-13 A	100%	PMO Approved Agreement to Council for Approval																											
OS1120	Consultant Signed Agreement to City for Execution	14	09-Jan-13 A	22-Jan-13 A	100%	Consultant Signed Agreement to City for Execution																											
<b>Planning Phase</b>						Planning Phase																											
OS1000	Planning Phase	265	24-Jan-13 A	16-Oct-13 A	100%	Planning Phase																											
<b>Engineering Phase</b>						Engineering Phase																											
OS1010	Engineering	860	18-Oct-13 A	24-Feb-16 A	100%	Engineering																											
<b>Construction Bidding Phase</b>						Construction Bidding Phase																											
OS1060	Construction Bidding Phase	122	25-Feb-16 A	26-Jun-16 A	100%	Construction Bidding Phase																											
<b>Construction Phase</b>						Construction Phase																											
OS1070	Construction Phase	286	27-Jun-16 A	08-Apr-17	54.7%	Construction Phase																											
<b>Project Completion Report</b>						Project Completion Report																											
OS1170	SEP Completion Report	30	09-Apr-17	08-May-17	0%	SEP Completion Report																											
<b>EPA and TDEC Approvals</b>						EPA and TDEC Approvals																											
OS1130	Place Copy of EPA and TDEC Submittal in PDR	7	09-May-17	15-May-17	0%	Place Copy of EPA and TDEC Submittal in PDR																											
OS1140	EPA Review and Approval	60	09-May-17	07-Jul-17	0%	EPA Review and Approval																											
OS1150	TDEC Review and Approval	60	09-May-17	07-Jul-17	0%	TDEC Review and Approval																											
OS1160	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	7	08-Jul-17	14-Jul-17	0%	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)																											
<b>Section IX - Reporting Requirement</b>						Section IX - Reporting Requirement																											
<b>Para 38 - Quarterly Reports</b>						Para 38 - Quarterly Reports																											
<b>Quarterly Reports</b>						Quarterly Reports																											
<b>Quarterly Report - 2013</b>						Quarterly Report - 2013																											
CR1000	Quarterly Report Period 1	292	24-Apr-13 A	10-Feb-14 A	100%	Quarterly Report Period 1																											
CR1010	Develop Quarterly Report	160	24-Apr-13 A	30-Sep-13 A	100%	Develop Quarterly Report																											
CR1020	Submit Deliverable to EPA and TDEC	30	30-Sep-13 A	29-Oct-13 A	100%	Submit Deliverable to EPA and TDEC																											
CR1030	Submit Deliverable to EPA and TDEC	1	30-Oct-13 A	30-Oct-13 A	100%	Submit Deliverable to EPA and TDEC																											
CR1030	Place Copy of EPA and TDEC Submittal in PDR	1	30-Oct-13 A	30-Oct-13 A	100%	Place Copy of EPA and TDEC Submittal in PDR																											
CR1040	Quarterly Report Period 2	93	30-Sep-13 A	31-Dec-13 A	100%	Quarterly Report Period 2																											
CR1050	Develop Quarterly Report	28	01-Jan-14 A	29-Jan-14 A	100%	Develop Quarterly Report																											
CR1060	Submit Deliverable to EPA and TDEC	0	30-Jan-14 A	30-Jan-14 A	100%	Submit Deliverable to EPA and TDEC																											
CR1070	Place Copy of EPA and TDEC Submittal in PDR	0	10-Feb-14 A	10-Feb-14 A	100%	Place Copy of EPA and TDEC Submittal in PDR																											
<b>Quarterly Report - 2014</b>						Quarterly Report - 2014																											
CR1080	Quarterly Report Period 3	390	01-Jan-14 A	26-Jan-15 A	100%	Quarterly Report Period 3																											
CR1080	Quarterly Report Period 3	89	01-Jan-14 A	31-Mar-14 A	100%	Quarterly Report Period 3																											
CR1090	Develop Quarterly Report	27	01-Apr-14 A	28-Apr-14 A	100%	Develop Quarterly Report																											
CR1100	Submit Deliverable to EPA and TDEC	0	29-Apr-14 A	29-Apr-14 A	100%	Submit Deliverable to EPA and TDEC																											



- Summary
- Actual Level of Effort
- Actual Work
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- Critical Remaining Work
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**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
 CITY OF CHATTANOOGA, TN  
 WASTE RESOURCES DIVISION



Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013				2014				2015				2016				2017				2018				2019		2020					
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2																						
CR1110	Place Copy of EPA and TDEC Submittal in PDR	0	29-Apr-14 A	29-Apr-14 A	100%																																
CR1120	Quarterly Report Period 4	90	01-Apr-14 A	30-Jun-14 A	100%																																
CR1130	Develop Quarterly Report	28	30-Jun-14 A	28-Jul-14 A	100%																																
CR1140	Submit Deliverable to EPA and TDEC	0	29-Jul-14 A	29-Jul-14 A	100%																																
CR1150	Place Copy of EPA and TDEC Submittal in PDR	0	29-Jul-14 A	29-Jul-14 A	100%																																
CR1160	Quarterly Report Period 5	91	01-Jul-14 A	30-Sep-14 A	100%																																
CR1170	Develop Quarterly Report	29	30-Sep-14 A	29-Oct-14 A	100%																																
CR1180	Submit Deliverable to EPA and TDEC	0	29-Oct-14 A	29-Oct-14 A	100%																																
CR1190	Place Copy of EPA and TDEC Submittal in PDR	0	29-Oct-14 A	29-Oct-14 A	100%																																
CR1200	Quarterly Report Period 6	91	01-Oct-14 A	31-Dec-14 A	100%																																
CR1210	Develop Quarterly Report	26	31-Dec-14 A	26-Jan-15 A	100%																																
CR1220	Submit Deliverable to EPA and TDEC	0	26-Jan-15 A	26-Jan-15 A	100%																																
CR1230	Place Copy of EPA and TDEC Submittal in PDR	0	26-Jan-15 A	26-Jan-15 A	100%																																
<b>Quarterly Report - 2015</b>		<b>395</b>	<b>01-Jan-15 A</b>	<b>31-Jan-16 A</b>	<b>100%</b>																																
CR1240	Quarterly Report Period 7	89	01-Jan-15 A	31-Mar-15 A	100%																																
CR1250	Develop Quarterly Report 7	27	01-Apr-15 A	27-Apr-15 A	100%																																
CR1260	Submit Deliverable to EPA and TDEC	0	29-Apr-15 A	29-Apr-15 A	100%																																
CR1270	Place Copy of EPA and TDEC Submittal in PDR	0	30-Apr-15 A	30-Apr-15 A	100%																																
CR1280	Quarterly Report Period 8	90	01-Apr-15 A	30-Jun-15 A	100%																																
CR1290	Develop Quarterly Report 8	29	01-Jul-15 A	29-Jul-15 A	100%																																
CR1300	Submit Deliverable to EPA and TDEC	0	30-Jul-15 A	30-Jul-15 A	100%																																
CR1310	Place Copy of EPA and TDEC Submittal in PDR	0	31-Jul-15 A	31-Jul-15 A	100%																																
CR1320	Quarterly Report Period 9	91	01-Jul-15 A	30-Sep-15 A	100%																																
CR4210	Develop Quarterly Report 9	28	01-Oct-15 A	29-Oct-15 A	100%																																
CR4220	Submit Deliverable to EPA and TDEC	0	30-Oct-15 A	30-Oct-15 A	100%																																
CR4230	Place Copy of EPA and TDEC Submittal in PDR	0	31-Oct-15 A	31-Oct-15 A	100%																																
CR4240	Quarterly Report Period 10	91	01-Oct-15 A	31-Dec-15 A	100%																																
CR4250	Develop Quarterly Report 10	27	01-Jan-16 A	28-Jan-16 A	100%																																
CR4260	Submit Deliverable to EPA and TDEC	0	29-Jan-16 A	29-Jan-16 A	100%																																
CR4270	Place Copy of EPA and TDEC Submittal in PDR	0	31-Jan-16 A	31-Jan-16 A	100%																																
<b>Quarterly Report - 2016</b>		<b>393</b>	<b>01-Jan-16 A</b>	<b>28-Jan-17</b>	<b>78.39%</b>																																
CR8320	Quarterly Report Period 11	90	01-Jan-16 A	31-Mar-16 A	100%																																
CR8330	Develop Quarterly Report 11	27	01-Apr-16 A	27-Apr-16 A	100%																																
CR8340	Submit Deliverable to EPA and TDEC	0	28-Apr-16 A	28-Apr-16 A	100%																																
CR8350	Place Copy of EPA and TDEC Submittal in PDR	0	29-Apr-16 A	29-Apr-16 A	100%																																
CR8360	Quarterly Report Period 12	90	01-Apr-16 A	30-Jun-16 A	100%																																



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



Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013				2014				2015				2016				2017				2018				2019				2020	
						Q1	Q2	Q3	Q4	Q1	Q2																								
CR8370	Develop Quarterly Report 12	28	01-Jul-16 A	29-Jul-16 A	100%																														
CR8380	Submit Deliverable to EPA and TDEC	0	30-Jul-16 A	30-Jul-16 A	100%																														
CR8390	Place Copy of EPA and TDEC Submittal in PDR	0	31-Jul-16 A	31-Jul-16 A	100%																														
CR8400	Quarterly Report Period 13	92	01-Jul-16 A	30-Sep-16 A	100%																														
CR8410	Develop Quarterly Report 13	30	01-Oct-16 A	31-Oct-16 A	100%																														
CR8420	Submit Deliverable to EPA and TDEC	0	31-Oct-16 A	31-Oct-16 A	100%																														
CR8430	Place Copy of EPA and TDEC Submittal in PDR	0	31-Oct-16 A	31-Oct-16 A	100%																														
CR8440	Quarterly Report Period 14	92	01-Oct-16 A	31-Dec-16	65.22%																														
CR8450	Develop Quarterly Report 14	27	01-Jan-17	27-Jan-17	0%																														
CR8460	Submit Deliverable to EPA and TDEC	0	28-Jan-17	28-Jan-17	0%																														
CR8470	Place Copy of EPA and TDEC Submittal in PDR	0	28-Jan-17	28-Jan-17	0%																														
<b>Quarterly Report - 2017</b>		<b>395</b>	<b>01-Jan-17</b>	<b>31-Jan-18</b>	<b>0%</b>																														
CR8480	Quarterly Report Period 15	90	01-Jan-17	31-Mar-17	0%																														
CR8490	Develop Quarterly Report 15	27	01-Apr-17	27-Apr-17	0%																														
CR8500	Submit Deliverable to EPA and TDEC	0	28-Apr-17	28-Apr-17	0%																														
CR8510	Place Copy of EPA and TDEC Submittal in PDR	0	28-Apr-17	28-Apr-17	0%																														
CR8520	Quarterly Report Period 16	91	01-Apr-17	30-Jun-17	0%																														
CR8530	Develop Quarterly Report 16	27	01-Jul-17	27-Jul-17	0%																														
CR8540	Submit Deliverable to EPA and TDEC	0	28-Jul-17	28-Jul-17	0%																														
CR8550	Place Copy of EPA and TDEC Submittal in PDR	0	28-Jul-17	28-Jul-17	0%																														
CR8560	Quarterly Report Period 17	92	01-Jul-17	30-Sep-17	0%																														
CR8570	Develop Quarterly Report 17	30	01-Oct-17	30-Oct-17	0%																														
CR8580	Submit Deliverable to EPA and TDEC	0	31-Oct-17	31-Oct-17	0%																														
CR8590	Place Copy of EPA and TDEC Submittal in PDR	0	31-Oct-17	31-Oct-17	0%																														
CR8600	Quarterly Report Period 18	92	01-Oct-17	31-Dec-17	0%																														
CR8610	Develop Quarterly Report 18	30	01-Jan-18	30-Jan-18	0%																														
CR8620	Submit Deliverable to EPA and TDEC	0	31-Jan-18	31-Jan-18	0%																														
CR8630	Place Copy of EPA and TDEC Submittal in PDR	0	31-Jan-18	31-Jan-18	0%																														
<b>Quarterly Report - 2018</b>		<b>394</b>	<b>01-Jan-18</b>	<b>30-Jan-19</b>	<b>0%</b>																														
CR8640	Quarterly Report Period 19	90	01-Jan-18	31-Mar-18	0%																														
CR8650	Develop Quarterly Report 19	27	01-Apr-18	27-Apr-18	0%																														
CR8660	Submit Deliverable to EPA and TDEC	0	28-Apr-18	28-Apr-18	0%																														
CR8670	Place Copy of EPA and TDEC Submittal in PDR	0	28-Apr-18	28-Apr-18	0%																														
CR8680	Quarterly Report Period 20	91	01-Apr-18	30-Jun-18	0%																														
CR8690	Develop Quarterly Report 20	30	01-Jul-18	30-Jul-18	0%																														
CR8700	Submit Deliverable to EPA and TDEC	0	31-Jul-18	31-Jul-18	0%																														
CR8710	Place Copy of EPA and TDEC Submittal in PDR	0	31-Jul-18	31-Jul-18	0%																														
CR8720	Quarterly Report Period 21	92	01-Jul-18	30-Sep-18	0%																														
CR8730	Develop Quarterly Report 21	30	01-Oct-18	30-Oct-18	0%																														
CR8740	Submit Deliverable to EPA and TDEC	0	31-Oct-18	31-Oct-18	0%																														
CR8750	Place Copy of EPA and TDEC Submittal in PDR	0	31-Oct-18	31-Oct-18	0%																														
CR8760	Quarterly Report Period 22	92	01-Oct-18	31-Dec-18	0%																														
CR8770	Develop Quarterly Report 22	29	01-Jan-19	29-Jan-19	0%																														
CR8780	Submit Deliverable to EPA and TDEC	0	30-Jan-19	30-Jan-19	0%																														
CR8790	Place Copy of EPA and TDEC Submittal in PDR	0	30-Jan-19	30-Jan-19	0%																														
<b>Quarterly Report - 2019</b>		<b>395</b>	<b>01-Jan-19</b>	<b>31-Jan-20</b>	<b>0%</b>																														
CR8800	Quarterly Report Period 23	90	01-Jan-19	31-Mar-19	0%																														
CR8810	Develop Quarterly Report 23	29	01-Apr-19	29-Apr-19	0%																														
CR8820	Submit Deliverable to EPA and TDEC	0	30-Apr-19	30-Apr-19	0%																														
CR8830	Place Copy of EPA and TDEC Submittal in PDR	0	30-Apr-19	30-Apr-19	0%																														
CR8840	Quarterly Report Period 24	91	01-Apr-19	30-Jun-19	0%																														
CR8850	Develop Quarterly Report 24	30	01-Jul-19	30-Jul-19	0%																														
CR8860	Submit Deliverable to EPA and TDEC	0	31-Jul-19	31-Jul-19	0%																														
CR8870	Place Copy of EPA and TDEC Submittal in PDR	0	31-Jul-19	31-Jul-19	0%																														
CR8880	Quarterly Report Period 25	92	01-Jul-19	30-Sep-19	0%																														
CR8890	Develop Quarterly Report 25	30	01-Oct-19	30-Oct-19	0%																														
CR8900	Submit Deliverable to EPA and TDEC	0	31-Oct-19	31-Oct-19	0%																														
CR8910	Place Copy of EPA and TDEC Submittal in PDR	0	31-Oct-19	31-Oct-19	0%																														



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











Activity ID	Activity Name	At Completion Duration	Start	Finish	Duration % Complete	2013				2014				2015				2016				2017				2018				2019		2020	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																				
<b>MBWWTP Odor and Corrosion Control Improvements</b>																																	
<b>Engineering Phase</b>																																	
A4740	Engineering Phase	526	12-Apr-10 A	27-Sep-11 A	100%																												
<b>Construction Bidding Phase</b>																																	
A4750	Construction Bidding Phase	122	28-Sep-11 A	28-Jan-12 A	100%																												
<b>Construction Phase</b>																																	
A4770	Construction Phase	617	29-Jan-12 A	07-Oct-13 A	100%																												
<b>201 Facility Plan Update</b>																																	
<b>201 Facility Plan Update</b>																																	
<b>Project Procurement</b>																																	
OP1170	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	45	18-Oct-12 A	01-Dec-12 A	100%																												
OP1300	Consultant develops and Submit Scope and Cost proposal	10	02-Dec-12 A	11-Dec-12 A	100%																												
OP1310	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10	12-Dec-12 A	21-Dec-12 A	100%																												
OP1320	PMO Approved Agreement to Council for Approval	18	22-Dec-12 A	08-Jan-13 A	100%																												
OP1330	Consultant Signed Agreement to City for Execution	14	09-Jan-13 A	22-Jan-13 A	100%																												
<b>Planning Phase</b>																																	
OP1180	Planning Phase PHASE 1	612	23-Jan-13 A	27-Sep-14 A	100%																												
OP1200	Planning Phase PHASE 2	666	05-Nov-14 A	01-Sep-16 A	100%																												
<b>Citico PS and CSOTF Upgrades</b>																																	
<b>Citico PS and CSOTF Upgrades</b>																																	
<b>Project Procurement</b>																																	
A1020	CD Prequalification Procurement (FY 2014 - 2015) - Development and Issuance of RFP	29	21-Aug-14 A	19-Sep-14 A	100%																												
A1030	Consultant develops and Submit Scope and Cost proposal	16	20-Sep-14 A	06-Oct-14 A	100%																												
A1040	PMO Reviews/ Negotiates and Approve Proposal / Agreement	57	07-Oct-14 A	03-Dec-14 A	100%																												
A1050	PMO Approved Agreement to Council for Approval	5	04-Dec-14 A	09-Dec-14 A	100%																												
A1060	Consultant Signed Agreement to City for Execution	47	10-Dec-14 A	26-Jan-15 A	100%																												
<b>Planning Phase</b>																																	
A1200	Planning Phase	264	11-Feb-15 A	01-Nov-15 A	100%																												
A1210	SRF Facility Plan Approval	46	02-Nov-15 A	17-Dec-15 A	100%																												
<b>Engineering Phase</b>																																	
A1300	Engineering Phase	413	27-May-15 A	13-Jul-16 A	100%																												
<b>Construction Bidding Phase</b>																																	
A1500	Construction Bidding Phase	139	14-Jul-16 A	30-Nov-16 A	100%																												
A1600	SRF Administration Phase	0	30-Nov-16 A	30-Nov-16 A	100%																												
<b>Construction Phase</b>																																	
A1700	Construction Phase	292	01-Dec-16	18-Sep-17	0%																												
<b>MBWWTP Detritors Rehab</b>																																	
<b>MBWWTP Detritors Rehab</b>																																	
<b>Planning Phase</b>																																	
A3000	Planning Phase	193	02-Jul-15 A	10-Jan-16 A	100%																												
A3010	SRF Facility Plan Approval	54	17-Jan-16 A	10-Mar-16 A	100%																												
<b>Engineering Phase</b>																																	
<b>Engineering Phase</b>																																	



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**Appendix B**  
**Interlocal Agreement with Collegedale**

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## INTERLOCAL AGREEMENT

This agreement is executed pursuant to the Tennessee Interlocal Cooperation Act, T. C. A. §12-9-101, et seq. by and between the CITY OF COLLEGEDALE, TENNESSEE, a Tennessee municipal corporation chartered pursuant to T. C. A. §6-18-101, et. seq. (hereafter “Collegedale”) and the CITY OF CHATTANOOGA, TENNESSEE, a Tennessee municipal corporation with a home rule charter as provided for by Article XI, Section 9 of the Constitution of Tennessee (hereafter “Chattanooga”).

### WITNESSETH:

WHEREAS, In the late 1970’s, a plan was prepared under the provisions of Section 208 of the Federal Pollution Control Act, also known as the Clean Water Act (33 U. S. C. §1288) for area-wide waste treatment for areas of Hamilton County, Tennessee and Dade, Walker and Catoosa counties in Georgia, as certified and designated by the respective governors of Tennessee and Georgia and approved by the Administrator of the United States Environmental Protection Agency (“208 Plan”); and

WHEREAS, on or about May 26, 1980, Collegedale and Chattanooga entered into an agreement (the “1980 Agreement”) for the purpose of defining the terms whereby wastewater from Collegedale would be conveyed through Chattanooga’s sewer system to its treatment works for the purpose of treatment and disposal; and

WHEREAS, the 1980 Agreement had a term of fifty (50) years and provided Chattanooga’s express covenant and agreement that it shall operate its wastewater conveyance and treatment facilities in such a manner as to fully meet the needs of Collegedale up to a capacity of 4.56 million gallons per day; and

WHEREAS, on or about September 6, 2000, Collegedale and Chattanooga entered into an interlocal agreement whereby certain facilities owned by Collegedale, including the Collegedale pump station, would be leased by the City of Chattanooga until August 1, 2014, and thereafter conveyed to Chattanooga by Collegedale (the “2000 Agreement”); and

WHEREAS, on April 24, 2013, Chattanooga entered into a consent order in the case styled *Tennessee Clean Water Network v. City of Chattanooga*, No. 1:10-CV-281, consolidated with *United States of America and the State of Tennessee, ex. rel. Robert E. Cooper, in his representative capacity as the Attorney General and Reporter of Tennessee v. The City of Chattanooga*, No. 1:10-CV-281 (the “Consent Order”). *Inter alia*, the Consent Order requires Chattanooga to address issues with its sewer system, and sets various deadlines for the same, at an estimated cost in excess of \$250 million. As the sewage from several municipal satellite sewer systems flows into the Chattanooga system, the Consent Order has had, and will continue to have, effect on Collegedale and the WWTAs, among other satellite systems; and .

WHEREAS, as a result of the passage of time, changes in jurisdictional boundaries, and the operation of the Consent Order, conditions have changed and the needs of the parties have evolved to the point that the 2000 Agreement should be superseded by this new agreement; and

WHEREAS, each party has the right to enter into this agreement by means of the statutory authority cited above.

NOW, THEREFORE, in consideration of the foregoing, and the mutual covenants and agreements hereinafter stated, the sufficiency of which is hereby acknowledged, Collegedale and Chattanooga agree as follows:

1. The 2000 Agreement is superseded by this agreement in the manner set forth herein.

2. By reason of the superseding of the 2000 Agreement, Collegedale retains ownership of the Sewer Line defined in the 2000 Agreement (a portion of the Collegedale interceptor gravity sewer line, force main, pump station, easements and fee property associated therewith), with the exception of the gravity line starting at Manhole A-23 and proceeding downstream, which is hereby transferred to Chattanooga, along with any associated easements and fee property. Collegedale agrees to assume responsibility for operation and maintenance of the pump station and forcemain within 60 (sixty) days of final execution of this agreement.

3. In the course of its recent operation of the Collegedale Pump Station, Chattanooga has installed a Dri-Prime Backup Systems (DBS) pump and appurtenant equipment. Chattanooga agrees to sell the DBS pump and the appurtenant equipment to Collegedale, for which Collegedale agrees to pay \$243,855.97 in sixty (60) monthly payments of \$4,064.27 beginning on the first day of the first month following the final execution of this Agreement.

4. Chattanooga agrees to bill Collegedale at the regional rate which is established from time to time as required by state law, as determined from the flow meter located at the Collegedale pump station. Collegedale agrees to maintain and calibrate the flow meter and provide copies of flowmeter maintenance at Chattanooga's request. In case of flowmeter malfunction, flows will either be estimated or otherwise determined by downstream flowmeter(s) operated and maintained by Chattanooga.

5. Chattanooga reaffirms the obligation imposed by Paragraph 10 of the 1980 Agreement to provide Collegedale capacity of 4.56 million gallons a day, which is not restricted by its agreements with any other municipalities or agencies.

6. Chattanooga agrees to allow the Hamilton County Water & Wastewater Treatment Authority ("WWTAA"), or its legal successors, within the parameters of a separate

agreement with said entity, to connect to its system through facilities to be constructed by WWTA from the Lee Highway pump station or by other means not connected to the Collegedale pump station.

7. The parties hereto agree that each term of this Agreement is specifically enforceable in the event of a breach by the other party, and that an action to enforce the terms of this Agreement shall be brought in either the Circuit or Chancery courts of the 11<sup>th</sup> Judicial District. The parties further agree that, to be enforceable, any amendment to this agreement during must be in writing and must be authorized by the governing bodies of Collegedale and Chattanooga.

8. If any provision of this agreement is held to be invalid, unlawful, or unenforceable under present or future laws, such provision shall be fully severable, and this agreement shall be construed and enforced as if such invalid, unlawful, or unenforceable provision had not been a part hereof. The remaining provisions of this agreement shall remain in full force and effect and shall not be affected by such invalid, unlawful, or unenforceable provision or by its severance therefrom.

9. No consent or waiver, express or implied, by either party to this agreement to or of any breach or default by any other party to this agreement in the performance by such other party of its obligations hereunder shall be deemed or construed to be a consent or waiver to or of any other breach or default of the same or any other obligations hereunder. Failure on the part of any party to this agreement to complain of any act or failure to act of any other party to this agreement, or to declare such party in default, irrespective of how long such failure continues, shall not constitute a waiver by the non-defaulting party of its rights hereunder.

10. The parties hereto agree that this Agreement will be enforced and interpreted according to the laws of the State of Tennessee.

11. The parties recognize that changes in state or federal law and regulations relating to the environment and the operation of publicly operated treatment works and related facilities may require the modification of this agreement from time to time. The parties therefore agree to fully cooperate to modify this agreement as shall be required under such circumstances.

IN WITNESS WHEREOF, this Interlocal Agreement is executed by and on behalf of the CITY OF COLLEGEDALE, TENNESSEE by its Mayor and by an on behalf of the CITY OF CHATTANOOGA, TENNESSEE by its Mayor, both being duly authorized to execute the same. This Agreement shall be effective as of the date of the signature of the last entity to approve the same.

CITY OF COLLEGEDALE, TENNESSEE

By: Katie A. Lamb  
Mayor

Date: July 26, 2016

ATTEST:

Katie C. White

CITY OF CHATTANOOGA, TENNESSEE

By: [Signature]  
Mayor

Date: 7/18/16