MEGAN BARRY
MAYOR

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY

DEPARTMENT OF WATER AND SEWERAGE SERVICES
Engineering Division
1600 Second Avenue North
Nashville, Tennessee 37208-2206

October 29, 2015

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Division of Water Resources
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Nashville, TN 37243

Re: DOJ Case No. 90-5-1-1-09000
Submittal of Quarterly Progress Report

Gentlemen and Madam:

In accordance with the provisions of the Consent Decree, Section XIX (Reporting Requirements), Subsection A, herewith we are transmitting the Quarterly Progress report which covers the time period from June 1, 2015 through September 30, 2015.

A copy of this report is concurrently being placed in the Public Document Repository (PDR).

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.

If you have any questions concerning this report please contact me.

Sincerely,

Scott A. Potter, P.E.
Director

Ron C. Taylor, P.E.
Overflow Abatement Program Director
Engineering Division

Cc: Mr. David Tucker, Assistant Director, Operations
Mr. Cyrus Q. Toosi, P.E., Assistant Director / Chief Engineer, Engineering
Mr. Gregory A. Ballard, P.E., Engineer 3
Mr. Thomas G. Cross, Associate Director, Metropolitan Department of Law

Clean Water Nashville Overflow Abatement Program

Metropolitan Government of Nashville and Davidson County
Department of Water and Sewerage Services

CONSENT DECREE
QUARTERLY PROGRESS REPORT

July 1 through September 30, 2015

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.

Ron C. Taylor, P.E., Program Director

10/29/15
Date

cleanwater NASHVILLE
OVERFLOW ABATEMENT PROGRAM

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Section 1
Introduction

On March 12, 2009, the Metropolitan Government of Nashville and Davidson County, Tennessee (Metro), entered into a Consent Decree with the United States and the State of Tennessee. To fulfill the reporting requirements defined in Section XIX.A. of the Consent Decree, Metro has prepared this *Quarterly Progress Report*, which includes the following information:

1. Information on sanitary sewer overflows (SSOs) and dry-weather combined sewer system overflows (CSOs) occurring during the reporting period
2. A description of the work conducted during the reporting period to comply with the requirements of the Consent Decree
3. The anticipated work for the upcoming quarter to comply with the requirements of the Consent Decree
4. Any additional information necessary to demonstrate that Metro is adequately implementing the work

Work, as defined in the Consent Decree, includes all activities that Metro is required to perform under the Consent Decree. For the purposes of this *Quarterly Progress Report*, however, the focus will remain on current and upcoming work related to the *Corrective Action Plan/Engineering Report* (CAP/ER), the *Long Term Control Plan* (LTCP), and additional activities to address SSOs and CSOs.

1.1 Additional Programs

Several additional programs, listed below, were also required to be developed or implemented as part of the Consent Decree. Any modifications or updates to these programs will be identified in Section 4 of this report.

- *Spill and Overflow Response Plan* (Section VII.C.2) – Metro continues to operate under the current Spill and Overflow Response Plan (SORP). A review of the SORP will be conducted annually with any proposed changes submitted for U.S. Environmental Protection Agency (EPA) review and approval by June 1 each year.
- *Inter-jurisdictional Agreement Program* (Section VII.C.3) – All required inter-jurisdictional agreements are now in place, and Metro will continue to operate under these agreements, including monitoring peak flows received.
- *Capacity Assurance Plan* (Section VII.C.4) – The Capacity Assurance Plan will continue to be applied as a tracking/approval tool for new development/flow in the sanitary sewer system (SSS).
- *Pump Station Operation Plan for Power Outages* (Section VII.C.5) – All projects identified in the Pump Station Operation Plan for Power Outages were completed prior to the start of the reporting period.

- *Nine Minimum Controls Compliance Plan* (Section VII.D.1) – All elements of the Nine Minimum Controls Compliance Plan (NMC) were completed in 2012.
- Supplemental Environmental Projects (Section VIII) – The Supplemental Environmental Projects (SEPs) required in the Consent Decree were completed in 2010.

1.2 Report Organization

This *Quarterly Progress Report* is organized as follows:

Section 1 – Introduction

Section 2 – *Corrective Action Plan/Engineering Report*

Section 3 – *Long Term Control Plan*

Section 4 – Additional Measures to Maintain Consent Decree Compliance

Section 5 – Quarterly SSO and Dry-Weather CSO Report

Section 2

Corrective Action Plan/Engineering Report

To address the conditions causing overflows in their sanitary sewer system, Metro developed a *Corrective Action Plan/Engineering Report* (CAP/ER) that was submitted to EPA and the Tennessee Department of Environment and Conservation (TDEC) on September 11, 2011.

The CAP/ER development began with a characterization of Metro's sanitary sewer system through extensive monitoring and modeling to understand the existing system's limitations. The need for improvements to address both current and future sewer capacity needs was then assessed, and potential alternatives were evaluated to select efficient and cost effective solutions. These recommended projects, which include infrastructure rehabilitation, additional conveyance capacity, and storage of wet weather flows, are presented in the CAP/ER.

While EPA and TDEC review the report, Metro continues to move forward with the implementation of mulitple projects presented in the CAP/ER. These projects are described in the following subsections, and a schedule illustrating current and upcoming work on CAP/ER projects is presented as Appendix A.

2.1 Completed CAP/ER Projects

The following projects, discussed in the CAP/ER, achieved substantial completion prior to the start of the reporting period:

- Dry Creek Wastewater Treatment Plant Optimization
- Smith Springs Equalization Storage
- Barker Road / Omohundro Equalization Storage Phase I
- West Park Equalization Storage Phase I
- Mill Creek 36-inch Trunk Sewer System Rehabilitation
- Rockwood Conveyance Improvements
- Holiday Travel Park Gravity Conversion
- Whites Creek Wastewater Treatment Plant (WWTP) Optimization and Disinfection Project
- Whites Creek Wastewater Pumping Station
- Dodson Chapel Equalization Tank and Wastewater Pumping Station Expansion
- Joelton Rehabilitation
- Neely's Bend Rehabilitation
- Shelby Park Rehabilitation – Area 1 – Virginia Avenue

- Mill Creek / Opryland Equalization Facility – Phase II
- Cowan / Riverside Rehabilitation – Area 1 – Jones Avenue

2.2 CAP/ER Projects under Construction

The following projects, discussed in the CAP/ER, were under construction during the reporting period:

- Lakewood Water and Sewer Replacement

  This project represents the first of two phases of work in the Lakewood area. The project includes improvements to the sewer, water, and stormwater infrastructure in the Lakewood area. Advertisement for a two-step procurement process began during the 2nd Quarter of 2013. Bids for construction from the three pre-qualified contractors were received on October 4, 2013, and the Notice of Award was issued on October 17, 2013. Construction activities began on January 27, 2014, and are anticipated to continue during the upcoming quarter.

- Shelby Park Rehabilitation – Area 2 – Norvel Avenue

  This rehabilitation project is the second of multiple projects to be conducted in the Shelby Park Rehabilitation project area. The area evaluated for rehabilitation included approximately 57,000 linear feet of gravity sewer and 330 manholes. The resulting construction project consists of cured-in-place pipe lining of approximately 57,000 linear feet of gravity sewer, rehabilitation of associated manholes, and renewal of more than 700 services using cured-in-place pipe lining or open-cut techniques.

  Design began on July 3, 2013, and was completed in January 2014. Advertisement for construction began on February 5, 2014, and the contract was awarded in March 2014. Construction began on May 12, 2014, and is expected to be substantially complete during the upcoming quarter.

- Cowan / Riverside Rehabilitation – Area 2 – Dickerson Pike

  This rehabilitation project is the second of multiple projects to be conducted in the Cowan / Riverside Rehabilitation project area. The area evaluated for rehabilitation included approximately 51,400 linear feet of gravity sewer and 290 manholes. The resulting construction project consists of cured-in-place pipe lining of approximately 42,000 linear feet of gravity sewer, rehabilitation of associated manholes, and renewal of approximately 400 services using cured-in-place pipe lining or open-cut techniques.

  Design began on July 3, 2013, and was completed in March 2014. Advertisement for construction began on March 14, 2014, and a contract was awarded in May 2014. Construction activities began on July 7, 2014, and were substantially complete on September 23, 2015.

- Highway 100 / Tyne Boulevard – Trimble Rehabilitation

  The Highway 100 / Tyne Boulevard Pipe Improvements project, as presented in the CAP/ER, consisted of approximately 18,500 linear feet of conveyance improvements to alleviate overflows and surcharging in the existing gravity sewer. A detailed review of the existing sewer

route and flows in the area indicated that rehabilitation to reduce wet weather flows in this area may be a viable option to address overflows. Because of this, the Highway 100 / Tyne Boulevard Pipe Improvements project has been delayed to allow time for the completion of the Highway 100 / Tyne Boulevard – Trimble Rehabilitation project. The area evaluated for rehabilitation included approximately 63,000 linear feet of gravity sewer and 300 manholes. The resulting construction project consists of cured-in-place pipe lining of approximately 32,000 linear feet of gravity sewer, rehabilitation of associated manholes, and renewal of approximately 170 services using cured-in-place pipe lining or open-cut techniques.

Design began on September 17, 2013, and was completed in March 2014. Advertisement for construction began on April 23, 2014, and the contract was awarded in June 2014. Construction activities began on August 12, 2014, and were substantially complete on September 25, 2015.

- Dodson Chapel Pipe Improvements

  Following the completion of the Rockwood Conveyance Improvements project and subsequent updates to the hydraulic model in this area, the evaluation of the collection system in the Dodson Chapel Pipe Improvements area indicated that the extents of the proposed project could be reduced while still addressing overflows. This project consists of increasing the conveyance capacity of approximately 3,400 linear feet of sewer.

  Design began on October 8, 2012. In mid-2013, an analysis of the 60 percent design and the associated Dodson Chapel Equalization Tank and Wastewater Pumping Station Expansion project indicated that an unacceptable level of surcharging was predicted upstream of the project area. To address this, the existing design was reviewed and modified to replace the proposed inverted siphon with an aerial crossing.

  Design activities were completed in June 2014. Following completion of permitting and easement / right of entry activities, advertisement for construction began on November 7, 2014, and the construction contract was awarded in January 2015. Construction activities began on January 26, 2015, and are anticipated to be substantially complete during the upcoming quarter.

- Shelby Park Rehabilitation – Area 3 – Greenland Avenue

  This rehabilitation project is the third of multiple projects to be conducted in the Shelby Park Rehabilitation project area. The area evaluated for rehabilitation included approximately 49,000 linear feet of gravity sewer and 265 manholes. The resulting construction project consists of cured-in-place pipe lining of gravity sewer, rehabilitation of associated manholes, and renewal of more than 520 services using cured-in-place pipe lining or open-cut techniques.

  Design began on December 5, 2013, and was completed in May 2014. Advertisement for construction began on August 27, 2014, and bids were received on September 25, 2014. However, a protest regarding the bid delayed the award of the contract until January 22, 2015. Construction activities began on February 23, 2015, and are anticipated to continue through the upcoming quarter.

- West Park Equalization Facility Phase II

  In order to minimize impacts to the surrounding neighborhood, Phases II and III of the West Park Equalization Facility were combined into a single design and construction project. Design began in May 2012; however, during preliminary design it was determined that potential flood impacts to adjacent properties required an alternate site for the equalization tank. After additional investigation, Metro selected the adjacent park site to accommodate the required storage volume.

  Design efforts for the equalization tank were restarted in the 1st Quarter of 2013. Advertisement for construction began on January 5, 2015, and the contract was awarded in April 2015. Construction activities began on April 27, 2015, and are anticipated to continue through the upcoming quarter.

  When constructed, the additional improvements at the West Park Equalization Facility will add 21 million gallons of storage and expanded pumping capacity.

- Westchester Drive Rehabilitation

  The Westchester Drive Rehabilitation project was developed as a separate project for the rehabilitation portion of the Brick Church Pike Pipe Improvements project. This project consists of the rehabilitation of approximately 3,800 linear feet of gravity sewer, including the rehabilitation of 37 service laterals.

  Design activities for the Westchester Drive Rehabilitation project began on July 25, 2013. Advertisement for construction began on March 16, 2015, and the contract was awarded in May 2015. Construction activities began on June 1, 2015, and are anticipated to be substantially complete during the upcoming quarter.

- Shelby Park Rehabilitation – Area 4 – Brush Hill Road

  This rehabilitation project is the fourth of multiple projects to be conducted in the Shelby Park Rehabilitation project area. The area evaluated for rehabilitation included approximately 47,400 linear feet of gravity sewer and 260 manholes. The resulting construction project consists of cured-in-place pipe lining of approximately 38,000 linear feet of gravity sewer, rehabilitation of associated manholes, and renewal of approximately 275 services using cured-in-place pipe lining or open-cut techniques.

  Design began on October 27, 2014, and was completed in March 2015. Advertisement for construction began on April 28, 2015, and the contract was awarded in July 2015. Construction activities began on July 27, 2015, and are anticipated to continue through the upcoming quarter.

2.3 CAP/ER Projects under Design

The following projects, discussed in the CAP/ER, were under design during the reporting period:

- Brick Church Pike Pipe Improvements

  The Brick Church Pike Pipe Improvements project, as presented in the CAP/ER, consisted of increasing the conveyance capacity of approximately 15,500 linear feet of gravity sewer.

Following the analysis of additional flow monitoring conducted in the spring of 2013, the project's scope was revised to include approximately 10,000 linear feet of pipe replacement to increase the sewer's conveyance capacity and approximately 3,800 linear feet of rehabilitation of the existing sewer. The rehabilitation portion was advertised as a separate construction project, the Westchester Drive Rehabilitation project described in the previous section.

Proposals for design of the Brick Church Pipe Improvements project were submitted on January 11, 2013, and design for this project began on July 25, 2013. Design activities for the Brick Church Pipe Improvements are complete, pending final permitting and easement activities. Advertisement for construction is anticipated to begin during the upcoming quarter.

- Davidson and Brook Hollow Sewer Improvements

  The Davidson and Brook Hollow Sewer Improvements project, referred to as the 622 Davidson Rehabilitation in the CAP/ER, included the evaluation for rehabilitation of approximately 53,800 linear feet of gravity sewer and 300 manholes. Additional condition assessment data, including flow monitoring and smoke testing data, has also been collected and analyzed. That analysis indicated that approximately 1,900 linear feet of sewer in this area requires upsizing in order to address the associated overflow. This project now includes both the upsizing as well as repair of several adjacent pipe segments.

  Design began on April 24, 2014, and was completed in December 2014. Permitting and easement activities have also been completed. Advertisement for construction began on July 7, 2015, and the contract was awarded in September 2015. Construction activities are anticipated to begin in the upcoming quarter.

- Cowan / Riverside Rehabilitation – Area 3 – West Trinity Lane

  This rehabilitation project is the third of multiple projects to be conducted in the Cowan / Riverside Rehabilitation project area. The area evaluated for rehabilitation included approximately 48,100 linear feet of gravity sewer and 260 manholes. The resulting construction project consists of cured-in-place pipe lining of approximately 34,000 linear feet of gravity sewer, rehabilitation of associated manholes, and renewal of approximately 350 services using cured-in-place pipe lining or open-cut techniques.

  Design began on November 17, 2014, and was completed in April 2015. Advertisement for construction began on July 20, 2015. Construction activities are anticipated to begin during the upcoming quarter.

- Cowan / Riverside Rehabilitation – Area 4 – Pages Branch

  This rehabilitation project is the fourth of multiple projects to be conducted in the Cowan / Riverside Rehabilitation project area. The area to be evaluated for rehabilitation includes approximately 54,200 linear feet of gravity sewer and 260 manholes. Design began on January 26, 2015, and is anticipated to be completed during the upcoming quarter.

- 28th Avenue Rehabilitation – Area 1 – Clifton Avenue

  The 28th Avenue Rehabilitation – Area 1 – Clifton Avenue project is the first of multiple projects to be conducted in the 28th Avenue Rehabilitation project area. The area to be

evaluated for rehabilitation includes approximately 44,000 linear feet of gravity sewer and associated manholes. A preliminary review of the condition assessment data collected in the project area indicated several locations that required dye testing and closed-circuit television (CCTV) inspection, which was completed prior to design. Design began on February 2, 2015, and is anticipated to continue during the upcoming quarter.

- Smith Springs Rehabilitation – Area 1 – Priest Lake Meadows

  The Smith Springs Rehabilitation – Area 1 – Priest Lake Meadows project is the first of multiple rehabilitation projects to be conducted upstream of the Smith Springs Pump Station. Based on additional flow monitoring data, the boundary of the project area, as presented in the CAP/ER, has been adjusted to target areas that are believed to contribute to higher wet weather flows. The area to be evaluated for rehabilitation includes approximately 63,800 linear feet of gravity sewer and associated manholes. Design began on February 2, 2015, and is anticipated to be completed during the upcoming quarter.

- Davidson Branch Pump Station and Equalization Facility

  The Davidson Branch Pump Station and Equalization Facility project, referred to as the Davidson Branch Equalization Storage project in the CAP/ER, includes the relocation of an existing duty station and construction of a wastewater storage tank and wet weather pumping station on a property adjacent to the existing Davidson Branch Pump Station. Design began on May 1, 2015, and is anticipated to continue through the upcoming quarter.

- Gibson Creek Rehabilitation – Area 1 – Dupont Avenue

  The Gibson Creek Rehabilitation – Area 1 – Dupont Avenue project is the first of multiple rehabilitation projects to be conducted upstream of the Gibson Creek Pump Station. The area to be evaluated for rehabilitation includes approximately 57,000 linear feet of gravity sewer and associated manholes. Design began on July 1, 2015, and is anticipated to continue through the upcoming quarter.

- Cowan / Riverside Rehabilitation – Area 5 – Youngs Lane

  This rehabilitation project is the fifth of multiple projects to be conducted in the Cowan / Riverside Rehabilitation project area. The area to be evaluated for rehabilitation includes approximately 57,800 linear feet of gravity sewer and 310 manholes. Design began on May 26, 2015, and is anticipated to continue throughout the upcoming quarter.

- Ewing Creek / Brick Church Equalization Facility

  The Ewing Creek / Brick Church Equalization Facility project, referred to as the Brick Church Pike Equalization Facility project in the CAP/ER, includes the construction of a 10.6 million gallon wastewater storage tank and associated wet weather pumping station. Design began on August 31, 2015, and is anticipated to continue throughout the upcoming quarter.

2.4 Upcoming CAP/ER Projects

The following projects, discussed in the CAP/ER, are anticipated to begin or continue procurement for design services during the upcoming quarter:

- Langford Farms – Madison Heights Rehabilitation

  Due to their relatively small sizes, the Langford Farms Rehabilitation and Madison Heights / Rainbow Terrace Rehabilitation projects, described In the CAP/ER, are being combined into a single design and construction project, the Langford Farms – Madison Heights Rehabilitation project. The new project includes the areas located upstream of the Langford Farms, Madison Heights, and Rainbow Terrace Pump Stations. The total area to be evaluated for rehabilitation includes approximately 19,300 linear feet of gravity sewer and over 100 manholes. Procurement of design services is anticipated to begin during the upcoming quarter.

- Smith Springs Rehabilitation – Area 2 – Castlegate

  The Smith Springs Rehabilitation – Area 2 – Castlegate project is the second of multiple rehabilitation projects that will be conducted upstream of the Smith Springs Pump Station. The area to be evaluated for rehabilitation includes approximately 58,900 linear feet of gravity sewer and more than 300 manholes. Procurement of design services is anticipated to begin during the upcoming quarter.

In addition to the projects listed above, Metro continues to conduct planning activities for multiple projects including acquiring necessary land to site facilities and collecting sewer condition assessment data.

Section 3

Long Term Control Plan

To reduce the occurrence and impact of combined sewer overflows into the Cumberland River, Metro developed an update to the *Long Term Control Plan* (LTCP), that was submitted to EPA and TDEC on September 11, 2011.

The LTCP followed EPA's *Combined Sewer Overflow Control Policy* in implementing a rigorous process for identifying and evaluating alternatives to reduce combined sewer overflows. Consideration included financial and engineering analyses to develop recommended improvements in conjunction with four key objectives that were established early in the planning process:

- Improve the water quality of the Cumberland River by reducing impacts from combined sewer overflows
- Provide a level of CSO control that results in improvements in water quality that are consistent with the community's use of the Cumberland River
- Align investment in CSO controls to be commensurate with the contribution of CSOs to water quality relative to other sources
- Consider the impact of the overall program cost on the ratepayers in the current economic climate

These goals and objectives were developed based on feedback provided by representatives from MWS, local government, and the community through a public engagement campaign developed to solicit input from affected stakeholders.

Metro continues to work with EPA and TDEC to address preliminary feedback on the LTCP. Metro has provided additional information pertaining to the proposed LTCP's compliance with Tennessee's water quality criteria, including a memorandum summarizing additional data describing the impact of CSO discharges on water quality in the Cumberland River. Discussions are expected to continue through the upcoming quarter.

As review of the LTCP continues, Metro continues to move forward with the implementation of the Central WWTP Capacity Improvements and CSO Reduction project; however, Metro does not intend to move forward with other projects presented in the LTCP until approval is obtained. Active projects are described in the following subsections, and a schedule illustrating current and upcoming work on LTCP projects is presented as Appendix A.

3.1 Completed LTCP Projects

The following projects, discussed in the LTCP, were completed prior to the start of the reporting period:

- Broadway Improvements
- Washington CSO Facility Improvements

- Van Buren Improvements
- Driftwood Equalization Basin Expansion
- Apex Sewer Corrections

3.2 LTCP Projects under Construction

There are currently no LTCP projects under construction.

3.3 LTCP Projects under Design

The following project, discussed in the LTCP, is anticipated to continue procurement for design services during the upcoming quarter:

- Central WWTP Capacity Improvements and CSO Reduction, A and B

  The Central WWTP Capacity Improvements and CSO Reduction project will reduce the overflow frequency and volume from the Kerrigan CSO by increasing both the wet weather treatment capacity of the Central WWTP and the overall capacity of the Central Pumping Station. The project will also add on-site CSO storage and equalization to assist in managing the dramatic flow rate increases from the combined sewer system during intense rainfall events. This project is the result of the Central Wastewater Treatment Plant Optimization Study which was finalized in 2014. The study identified limiting factors in each of the Central WWTP's unit processes and confirmed that peak wet weather secondary treatment capacity could be significantly increased through upgrades to the existing headworks, secondary aeration, and final clarification systems without building new tankage. As such, this project replaces the following projects presented in the LTCP:

  - CWWTP Optimization and EQ Conversion
  - CWWTP EQ Addition Phase 1
  - CWWTP Pumps / EQ Grit Equipment
  - CWWTP EQ Addition Phase 2
  - CWWTP EQ Addition Phase 3

  Advertisement for design services for the Central WWTP Capacity Improvements and CSO Reduction project began in January 2015, and two design contracts (A and B) were awarded in April 2015. Contract negotiations and other designer procurement activities concluded during the reporting period. Design activities for both contracts began on September 21, 2015, and are anticipated to continue throughout the upcoming quarter.

3.4 Upcoming LTCP Projects

There are currently no LTCP projects anticipated to begin design in the upcoming quarter.

Section 4

Additional Measures to Maintain Consent Decree Compliance

In addition to the CAP/ER and LTCP projects described in the previous sections, the measures described in the following subsections are related to Metro's on-going Consent Decree compliance.

4.1 2013 Annual Sewer Rehabilitation

Design of the 2013 Annual Sewer Rehabilitation project commenced on June 23, 2013, and was completed in June 2014. Advertisement for construction began on July 8, 2014, and the contract was awarded in September 2014. Construction activities began on October 15, 2014, and are anticipated to be substantially complete during the upcoming quarter. For this project, which extends throughout the Metro service area, approximately 150 pipe segments have been identified for repair or rehabilitation. These sewers are located in areas outside of CAP/ER rehabilitation areas and are classified as high-priority or medium-priority sewers for evaluation based upon their observed condition as well as their potential consequence of failure.

4.2 2014 Annual Rehabilitation – Whites Creek Trunk

The 2014 Annual Rehabilitation – Whites Creek Trunk project consists of the evaluation and rehabilitation of the trunk sewer that follows or is adjacent to Whites Creek. The area to be evaluated for rehabilitation includes approximately 55,800 linear feet of gravity sewer, ranging in diameter from 8 to 60 inches. These sewers are located outside of CAP/ER rehabilitation areas and are classified as high-priority sewers for evaluation due to observations of infiltration. Design began on October 13, 2014, and was completed in May 2015, with permitting and easement / right of entry acquisition activities continuing through the reporting period. Advertisement for construction began on September 3, 2015, with bids due in October 2015. Construction activities are anticipated to begin during the upcoming quarter.

Section 5

Quarterly SSO and Dry Weather CSO Report

During the 3rd Quarter of 2015, Metro experienced 16 SSOs, as listed in **Table 5-1**.

No dry-weather CSOs occurred during the reporting period.

Table 5-1 Quarterly SSO Report

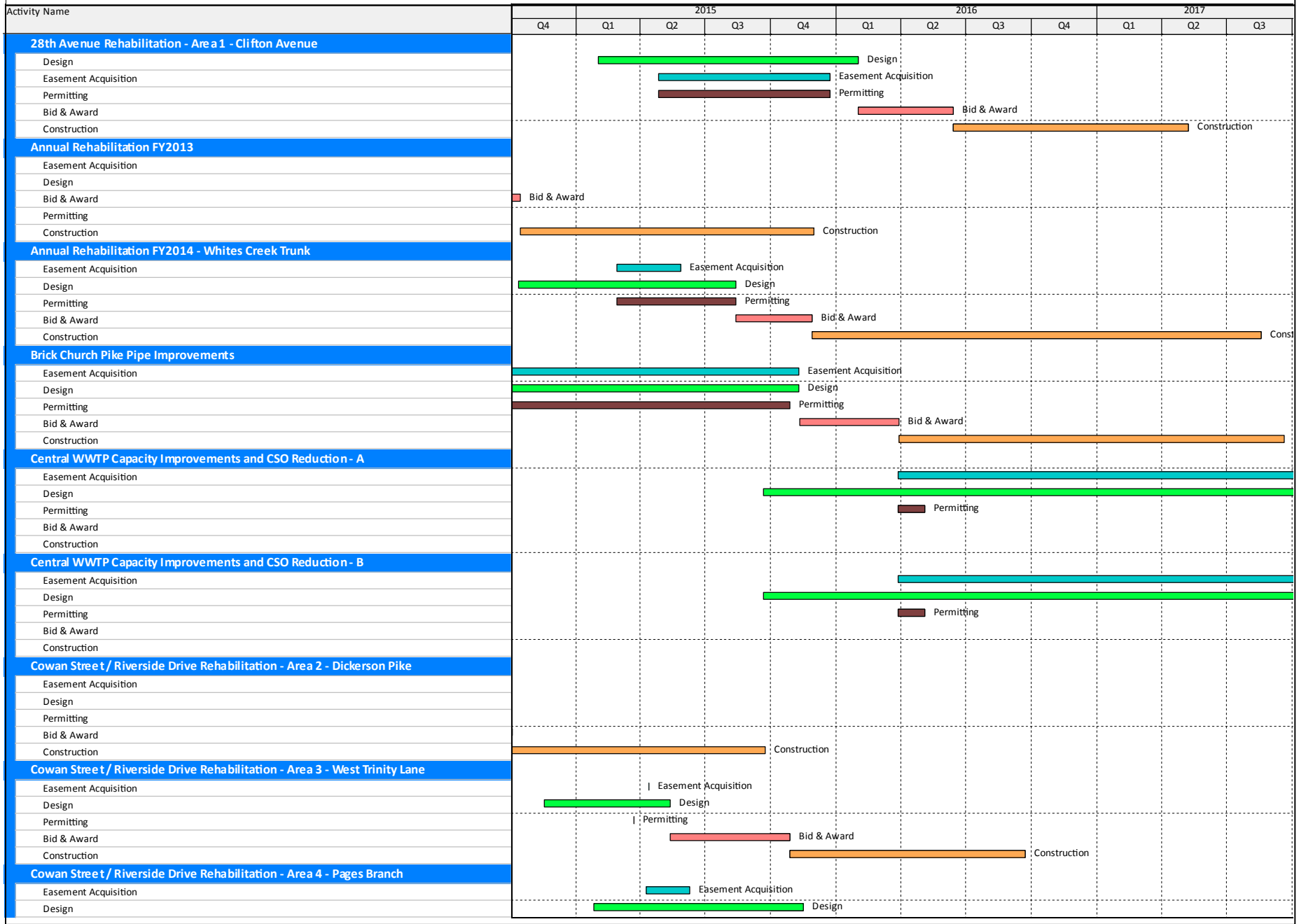
Quarterly SSO Report July 1 through September 30, 2015									
Event Start Date	Event End Date	Rainfall (inches)	Duration (hours)	Overflow Volume (MG)	Overflow Cause	Location Manhole ID	Location	Unpermitted Discharge	Building Backup
15-Jul-15	15-Jul-15	0.34	2.50	0.0001	Blockage	07513060	202 Bonnabrook Dr	No	No
18-Jul-15	18-Jul-15	0.00	0.50	0.00001	Blockage	07115078	108 Douglas Ave	No	No
18-Jul-15	18-Jul-15	0.00	0.58	0.171	Controller	09409003	Browns Creek SPS / Visco Dr.	Yes	No
27-Jul-15	27-Jul-15	0.00	12.00	0.001	Force Main	WLS053A005	5540 W Shady Tr	Yes	No
14-Aug-15	14-Aug-15	0.05	4.00	0.00001	Blockage	16206125	505 Lou Ct	No	No
25-Aug-15	25-Aug-15	0.00	2.50	0.0001	Blockage	09112084	626 40th Ave N	No	No
26-Aug-15	26-Aug-15	0.00	3.00	0.0001	Blockage	09201047	3400 John A Merritt Blvd	No	No
03-Sep-15	03-Sep-15	0.00	1.00	0.001	Blockage	07504230	4751 Lebanon Pk	Yes	No
14-Sep-15	14-Sep-15	0.00	3.00	0.001	Blockage	10616015	1038 Murfreesboro Pk	No	No
14-Sep-15	14-Sep-15	0.00	2.00	0.0001	Blockage	10410061	410 Chesterfield Ave	No	No
17-Sep-15	17-Sep-15	0.00	2.00	0.00001	Blockage	14808009	860 Richards Rd	No	No
17-Sep-15	17-Sep-15	0.00	0.17	0.013	Electrical	09705001	McCrory Creek SPS	Yes	No
19-Sep-15	19-Sep-15	0.00	2.50	0.0001	Blockage	05016009	368 Oakview Dr	No	No
25-Sep-15	25-Sep-15	0.69	4.50	0.001	Blockage	05303061	807 Thirteenth St	Yes	No
26-Sep-15	26-Sep-15	0.84	1.00	0.0001	Blockage	14705017	4839 Briarwood Dr	Yes	No
30-Sep-15	30-Sep-15	0.05	4.00	0.0001	Blockage	18103015	6104 Tuckaleechee Ln	No	No

Appendix A

Schedule for Current and Upcoming Projects

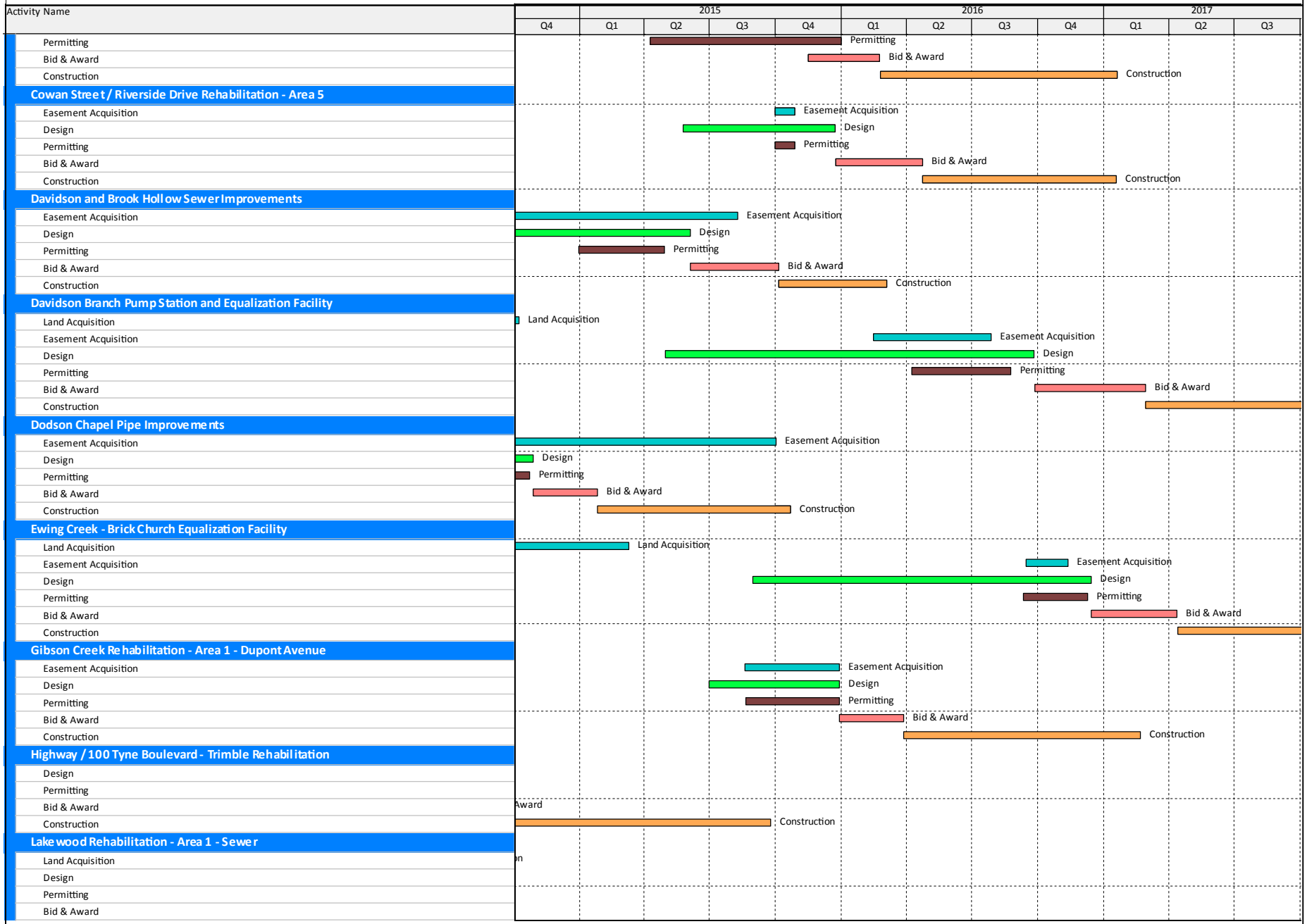
Note: The construction activity shows through substantial completion.

Nashville Overflow Abatement Program
2015 Quarterly Progress Report - 3rd Quarter



Note: The construction activity shows through substantial completion.

Nashville Overflow Abatement Program
2015 Quarterly Progress Report - 3rd Quarter



Note: The construction activity shows through substantial completion.

Nashville Overflow Abatement Program
2015 Quarterly Progress Report - 3rd Quarter