



City of Chattanooga

Mayor Andy Berke

July 24, 2015

VIA CERTIFIED MAIL

Ms. Sara Schiff 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-00245*
Quarterly Report No. 8 – April, 2015 to June, 2015**

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-00245 ("Consent Decree"), we are submitting to both the Environmental Protection Agency ("EPA") and the Tennessee Department of Environment and Conservation ("TDEC") the eighth quarterly report required pursuant to paragraph 38 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.

July 24, 2015
Ms. Sara Schiff Janovitz
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Please let me know if you have any questions regarding our submittal.

Sincerely,

A handwritten signature in blue ink that reads "Michael C. Patrick". The signature is fluid and cursive.

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
Phillip Hilliard, Office of the Attorney General
Enforcement Coordinator, Water Pollution Control, TDEC
Stephanie Durman, Esq., TCWN
Adam Sowatzka, Esq., King & Spalding
Donald L. Norris, Administrator, Public Works
Mike Marino, P.E., Jacobs



Quarterly Report No. 8

April 1 – June 30, 2015

Prepared for

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

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

Prepared by

City of Chattanooga
Waste Resources Division

Submitted by

JACOBS®

Jacobs Engineering Group Inc.
Consent Decree Program Manager

Chattanooga, Tennessee

July 24, 2015

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Acronyms and Abbreviations

Ave	Avenue
CD	Consent Decree
CFR	Code of Federal Regulations
CSO	Combined Sewer Overflow
CSS	Combined Sewer System
Dr	Drive
EPA	Environmental Protection Agency
Gal	Gallons
Hrs	Hours
Hwy	Highway
Ln	Lane
MBWWTP	Moccasin Bend Waste Water Treatment Plant
MG	Million Gallons
MH	Manhole
N/A	Not Applicable
No.	Number
NPDES	National Pollutant Discharge Elimination System
PS	Pump Station
Rd	Road
SSO	Sanitary Sewer Overflow
St	Street
TDEC	Tennessee Department of Environment and Conservation
Trl	Trail
UNK	Unknown
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

1.0 Introduction

1.1 Purpose

The City of Chattanooga 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”), which became effective on April 24, 2013. Pursuant to Section IX, paragraph 38 of the CD, Chattanooga is required to submit reports on a quarterly basis to the Environmental Protection Agency (“EPA”) and Tennessee Department of Environment and Conservation (“TDEC”). Chattanooga has prepared Quarterly Report No. 8 to satisfy the reporting requirements of the CD.

1.2 Requirements

As detailed in Section IX, paragraph 38 of the CD, Chattanooga is required to report the date, time, location, source, estimated duration and volume, and receiving water of the following events:

1. Sanitary sewer overflow (“SSO”) events occurring during the reporting period;
2. Combined sewer overflow (“CSO”) outfall discharges occurring during the reporting period;
and
3. Bypasses at the Moccasin Bend Wastewater Treatment Plant (“WWTP”) occurring during the reporting period.

This information is provided in tabular form in Sections 2.0 – 4.0 of this report.

2.0 SSO Events

For the reporting period of April 1, 2015 through June 30, 2015, Chattanooga experienced the SSOs listed in Table 2-1. An SSO event is defined in paragraph 8.(nn) of the CD as “any discharge of wastewater to waters of the United States or State from Chattanooga’s Sewer System through a point source not permitted in any National Pollutant Discharge Elimination System (“NPDES”) permit, as well as any overflow, spill, or release of wastewater to public or private property from the Sewer System that may not have reached waters of the United States or the State, including all building backups.”

**Table 2-1
Quarterly SSO Report**

April 1, 2015 – June 30, 2015								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
09-Apr-15	10:45 AM	4200 Sunset Ave	Other	N/A	2.25	2,500	Structure*	Blockage - Grease
16-Apr-15	1:00 PM	122 Rowland Gap Rd (West Bank)	Main Line	N/A	31.50	30,653,000	Tennessee River	Wet Weather
16-Apr-15	1:14 PM	2013 S Kelly St	Manhole	S156G022	15.77	45,000	Dobbs Branch	Wet Weather
16-Apr-15	1:14 PM	2001 S Kelly St	Manhole	S156G030	15.77	65,000	Dobbs Branch	Wet Weather
16-Apr-15	1:25 PM	1900 E 23rd St	Manhole	S156G049	15.58	20,000	Dobbs Branch	Wet Weather
16-Apr-15	1:25 PM	End of MLK Blvd (East Bank)	Main Line	N/A	12.92	247,000	Tennessee River	Wet Weather
16-Apr-15	1:30 PM	2109 Lynnbrook Drive	Manhole	S156G048	27.50	25,000	Dobbs Branch	Wet Weather
16-Apr-15	1:34 PM	1900 E 25th Street Place	Manhole	S156J057	15.43	7,500	Land*	Wet Weather
16-Apr-15	1:34 PM	1900 E 25th Street Place	Manhole	S156J051	15.43	7,500	Land*	Wet Weather
16-Apr-15	1:47 PM	1 Aim Way	Manhole	S157H046	20.22	10,000	Ditch	Wet Weather
16-Apr-15	2:00 PM	400 Tacoa Ave	Manhole	S157K056	15.00	22,500	Storm Drain	Wet Weather
16-Apr-15	2:08 PM	900 Terrace Ave	Manhole	S136A130	17.90	50,000	Tennessee River	Wet Weather
16-Apr-15	2:08 PM	900 Terrace Ave	Manhole	S136A133	0.72	65,000	Tennessee River	Wet Weather
16-Apr-15	2:13 PM	900 Sterling Avenue	Manhole	S136H107	115.28	275,000	Tennessee River	Wet Weather
16-Apr-15	2:18 PM	1308 Hanover Street	Manhole	S136A140	17.78	90,000	Tennessee River	Wet Weather
16-Apr-15	2:30 PM	1033 Lupton Drive	Manhole	S118K036	138.25	800,000	Tennessee River	Wet Weather
16-Apr-15	2:30 PM	4506 Kemp Drive	Manhole	S157B072	114.05	100,000	South Chickamauga Creek	Wet Weather
16-Apr-15	2:30 PM	4610 Kemp Drive	Manhole	S157C065	114.05	100,000	South Chickamauga Creek	Wet Weather
16-Apr-15	3:15 PM	905 Gillespie Rd	Manhole	S147G083	15.75	45,000	South Chickamauga Creek	Wet Weather

**Table 2-1
Quarterly SSO Report**

April 1, 2015 – June 30, 2015								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
16-Apr-15	4:00 PM	2843 Waterhaven Dr (S. Chick PS)	Manhole	S128G064	7.00	189,000	South Chickamauga Creek	Wet Weather
16-Apr-15	4:40 PM	1610 Elm St (DuPont PS)	Manhole	S118E057	8.55	102,600	Tennessee River	Wet Weather
16-Apr-15	6:42 PM	6695 Hickory Brook Dr	Manhole	S138M082	14.20	35,000	Friars Branch	Wet Weather
17-Apr-15	5:45 AM	2843 Waterhaven Dr (S. Chick PS)	Manhole	S128G064	0.75	11,250	South Chickamauga Creek	Wet Weather
17-Apr-15	10:00 AM	End of MLK Blvd (East Bank)	Main Line	N/A	0.17	2,100	Tennessee River	Wet Weather
17-Apr-15	10:20 AM	3434 Alta Vista Drive	Service Line	N/A	52.25	20,000	Structure*	Blockage - General
17-Apr-15	11:00 AM	1022 Shallowford Rd	Manhole	S147G104	93.93	100,000	South Chickamauga Creek	Wet Weather
17-Apr-15	1:00 PM	5466 Longview Dr	Manhole	S100K027	91.50	65,000	North Chickamauga Creek	Wet Weather
19-Apr-15	8:45 AM	122 Rowland Gap Rd (West Bank)	Main Line	N/A	18.08	17,000,000	Tennessee River	Wet Weather
19-Apr-15	10:40 AM	1610 Elm St (DuPont PS)	Manhole	S118E057	45.67	274,000	Tennessee River	Wet Weather
19-Apr-15	12:55 PM	2843 Waterhaven Dr (S. Chick PS)	Manhole	S128G064	19.33	3,800,000	South Chickamauga Creek	Wet Weather
19-Apr-15	2:35 PM	6575 Big Ridge Road (Big Ridge #6 PS)	Manhole	S111B026	23.08	105,000	Tennessee River	Wet Weather
19-Apr-15	3:10 PM	2001 South Kelley St	Manhole	S156G030	23.43	70,000	Dobbs Branch	Wet Weather
19-Apr-15	3:20 PM	2109 Lynnbrook Drive	Manhole	S156G048	23.27	22,500	Dobbs Branch	Wet Weather
19-Apr-15	4:00 PM	400 Tacoa Ave	Manhole	S157K056	21.80	7,500	Storm Drain	Wet Weather

**Table 2-1
Quarterly SSO Report**

April 1, 2015 – June 30, 2015								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
19-Apr-15	4:30 PM	3756 Wilcox Blvd	Manhole	S147B091	21.85	165,000	Ditch*	Wet Weather
19-Apr-15	5:30 PM	1552 Marsh Ln (Hixson #1 PS)	Manhole	S100O065	44.17	265,000	North Chickamauga Creek	Wet Weather
19-Apr-15	5:30 PM	1590 Marsh Ln (Hixson #1 PS)	Manhole	S100O066	44.17	265,000	North Chickamauga Creek	Wet Weather
19-Apr-15	5:45 PM	4677 Adams Rd (Hixson #1)	Manhole	S110G031	38.92	467,000	North Chickamauga Creek	Wet Weather
19-Apr-15	5:45 PM	4677 Adams Rd (Hixson #1)	Manhole	S110G020	43.83	394,500	North Chickamauga Creek	Wet Weather
19-Apr-15	5:45 PM	4677 Adams Rd (Hixson #1)	Wet Well	N/A	38.92	350,250	North Chickamauga Creek	Wet Weather
20-Apr-15	5:30 AM	122 Rowland Gap Rd (West Bank)	Main Line	N/A	2.83	2,700,000	Tennessee River4	Wet Weather
20-Apr-15	10:00 AM	122 Rowland Gap Rd (West Bank)	Main Line	N/A	18.50	17,500,000	Tennessee River4	Wet Weather
20-Apr-15	10:10 AM	3802 Juandale Trail	Manhole	S137N012	3.33	5,000	Ditch*	Blockage - Roots
20-Apr-15	10:20 AM	6695 Hickory Brook Dr	Manhole	S138M082	1.75	500	Ditch*	Wet Weather
11-May-15	11:32 AM	842 W Shadowlawn Dr	Manhole	S168G023	1.38	2,500	Storm Drain*	Blockage - General
14-May-15	1:00 PM	1771 White Oak Rd	Force Main	S126E021	0.42	200	Ditch*	Break
17-May-15	1:45 PM	5161 Ooltewah Ringgold Rd	Pump Station	N/A	2.75	4,125	Land*	Other/Misc
02-Jun-15	9:55 AM	307 Sunrise Ln	Main Line	UNK ²	2.58	250	Structure*	Other/Misc
08-Jun-15	1:00 PM	1771 White Oak Rd	Force Main	S126E021	1.08	550	Ditch*	Break

**Table 2-1
Quarterly SSO Report**

April 1, 2015 – June 30, 2015								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
11-Jun-15	1:50 PM	7605 Hamilton Place Dr	Manhole	S139J038	1.17	250	Land*	Blockage - Trash/Debris
15-Jun-15	2:25 PM	1401 Arlington Ave	Manhole	S136M052	1.58	4,750	Ditch*	Blockage - Roots
23-Jun-15	2:30 PM	600 N Orchard Knob Ave	Main Line	UNK ²	26.50	7,500	Ditch*	Defect(s)

¹ Manholes are not numbered.

² This information was not available at time of reporting.

³ Common cause, within 500 yards of separate event.

⁴ These SSOs were caused by the same rain event.

* Did not reach waters of the United States.

3.0 Moccasin Bend WWTP Bypasses

The CD sets forth the same definition for bypass as the EPA's regulations at 40 C.F.R. § 122.41(m), which defines a bypass as the intentional diversion of waste streams from any portion of a treatment facility. The City's current NPDES permit defines a bypass as the intentional diversion of wastewater away from any portion of a treatment facility other than through peak excess flow treatment facilities or permitted outfalls in accordance with both the long-term control plan and the nine minimum technology-based effluent controls for combined sewer systems. The City reports bypasses and wet weather discharges separately on the monthly Discharge Monitoring Reports, as a discharge from the City's permitted wet weather discharge is not a bypass under the City's current NPDES permit. Based on the foregoing, the WWTP experienced no bypasses during the reporting period of April 1, 2015 through June 30, 2015.

4.0 CSO Outfall Discharges

For the reporting period of April 1, 2015 through June 30, 2015 Chattanooga experienced CSO discharges from CSO outfall treatment facilities as listed in Table 4-1. Paragraph 8.(h) of the CD defines a CSO as “any discharge from the CSS from any outfall currently identified, or identified in the future, as a permitted combined sewer overflow outfall in any Chattanooga NPDES permit from which CSOs are discharged to waters of the United States or the State.” The CSS is defined as the portion of Chattanooga’s wastewater collection and transmission system (“WCTS”) designed to convey municipal sewage (domestic, commercial and industrial wastewaters) and stormwater runoff through a single-pipe system to Chattanooga’s WWTP or CSO outfalls. Chattanooga operates eight (8) permitted CSO outfall treatment facilities, seven (7) of which discharged overflows from the CSS during the reporting period.

Table 4-1
Quarterly CSO Outfall Discharge Report

April 1, 2015 – June 30, 2015						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
03-Apr-15	10:10 PM	Tremont CSO (005)	0.72	0.011642	Tennessee River	Rain Event
13-Apr-15	10:57 PM	Central CSO (002)	9.95	1.643980	Tennessee River	Rain Event
16-Apr-15	11:06 AM	Carter St CSO (009)	13.36	8.935430	Tennessee River	Rain Event
16-Apr-15	11:14 AM	ML King CSO (007)	11.13	6.576702	Tennessee River	Rain Event
16-Apr-15	11:24 AM	Central CSO (002)	2.52	7.273651	Tennessee River	Rain Event
16-Apr-15	11:45 AM	Tremont CSO (005)	10.03	2.541819	Tennessee River	Rain Event
16-Apr-15	1:18 PM	Ross's Landing CSO (006)	5.3	10.473631	Tennessee River	Rain Event
16-Apr-15	1:25 PM	Williams St CSO (003)	37.95	52.244069	Tennessee River	Rain Event
16-Apr-15	1:34 PM	Citico CSO (004)	12.28	10.797482	Tennessee River	Rain Event
17-Apr-15	4:06 PM	ML King CSO (007)	18.47	1.919236	Tennessee River	Rain Event
19-Apr-15	7:43 AM	ML King CSO (007)	14.37	4.699161	Tennessee River	Rain Event
19-Apr-15	7:48 AM	Carter St CSO (009)	7.6	3.343471	Tennessee River	Rain Event
19-Apr-15	8:12 AM	Tremont CSO (005)	6.52	1.489379	Tennessee River	Rain Event
19-Apr-15	8:27 AM	Citico CSO (004)	7.9	8.137009	Tennessee River	Rain Event
19-Apr-15	8:51 AM	Ross's Landing CSO (006)	3.45	3.424979	Tennessee River	Rain Event
19-Apr-15	8:54 AM	Central CSO (002)	2.52	7.411389	Tennessee River	Rain Event
19-Apr-15	8:54 AM	Williams St CSO (003)	58.41	86.031201	Tennessee River	Rain Event
20-Apr-15	5:09 AM	Carter St CSO (009)	1.93	0.393672	Tennessee River	Rain Event
20-Apr-15	3:04 PM	Citico CSO (004)	15.98	2.043929	Tennessee River	Rain Event
25-Apr-15	6:21 AM	Carter St CSO (009)	0.76	0.019937	Tennessee River	Rain Event
26-May-15	4:51 PM	Citico CSO (004)	3.68	0.931060	Tennessee River	Rain Event
28-May-15	7:05 PM	Carter St CSO (009)	0.72	0.162897	Tennessee River	Rain Event
29-May-15	4:22 PM	Central CSO (002)	2.95	1.452364	Tennessee River	Rain Event
31-May-15	1:27 PM	Citico CSO (004)	5.98	2.032707	Tennessee River	Rain Event
31-May-15	1:36 PM	Tremont CSO (005)	0.83	0.550358	Tennessee River	Rain Event
31-May-15	1:50 PM	ML King CSO (007)	1.43	0.495662	Tennessee River	Rain Event

Table 4-1
Quarterly CSO Outfall Discharge Report

April 1, 2015 – June 30, 2015						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
31-May-15	1:51 PM	Ross's Landing CSO (006)	0.62	0.497330	Tennessee River	Rain Event
31-May-15	2:10 PM	Central CSO (002)	5	6.175139	Tennessee River	Rain Event
01-Jun-15	12:00 AM	Central CSO (002)	5.33	5.178212	Tennessee River	Rain Event
01-Jun-15	2:23 AM	Tremont CSO (005)	1.03	0.014181	Tennessee River	Rain Event
01-Jun-15	12:55 PM	Citico CSO (004)	0.45	0.001681	Tennessee River	Rain Event
01-Jun-15	12:55 PM	Citico CSO (004)	0.45	0.001681	Tennessee River	Rain Event
02-Jun-15	2:49 AM	Citico CSO (004)	0.08	0.002726	Tennessee River	Rain Event
03-Jun-15	5:58 AM	Citico CSO (004)	0.45	0.008613	Tennessee River	Rain Event
08-Jun-15	6:50 PM	Carter St CSO (009)	1.52	0.723822	Tennessee River	Rain Event
09-Jun-15	6:17 AM	Tremont CSO (005)	0.23	0.047133	Tennessee River	Rain Event
09-Jun-15	6:28 AM	Carter St CSO (009)	0.42	0.034091	Tennessee River	Rain Event