



City of Chattanooga

Mayor Andy Berke

January 30, 2014

VIA CERTIFIED MAIL

Ms. Sara Schiff
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*
Quarterly Report #2 – October 2013 to December 2013**

Dear Ms. Schiff:

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 second 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.

Ms. Sara Schiff
January 30, 2014
Page Two

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

Sincerely,

A handwritten signature in black ink that reads "Alice L. Cannella". The signature is written in a cursive style with a large initial "A".

Alice L. Cannella, 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 Matheny, Esq., TCWN
Donald L. Norris, Administrator, Public Works
Mike Marino, P.E., Jacobs
Adam Sowatzka, Esq., King & Spalding



Quarterly Report No. 2

October 1 - December 31, 2013

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 30, 2014

Contents

1.0	Introduction	1
1.1	Purpose	1
1.2	Requirements	1
2.0	SSO Events	2
3.0	Moccasin Bend WWTP Bypasses	8
4.0	CSO Outfall Discharges	10

Tables

2-1	Quarterly SSO Report	3-7
3-1	Quarterly Bypass Report	9
4-1	Quarterly CSO Outfall Discharge Report	11-12

Acronyms and Abbreviations

Ave	Avenue
Blk	Block
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
MBWWTP	Moccasin Bend Waste Water Treatment Plant
MG	Million Gallons
MGD	Millions of Gallons per Day
MH	Manhole
N	North
N/A	Not Available
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
TN	Tennessee
UNK	Unknown
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

1.0 Introduction

1.1 Purpose

On April 24, 2013, 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”). 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. 2 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 October 1, 2013 through December 31, 2013, 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

October 1, 2013 – December 31, 2013								
Date	Time	Location	Source	MH ID #	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
24-Oct-13	9:45 AM	1104 Fernway Circle (rear)	MH	S127H027	4.83	250	Land/ditch ⁴	Blockage/roots trash
8-Nov-13	12:12 PM	4215 Lake Haven Lane	MH	S129A015	3.52	10	Land	Blockage/unknown
25-Nov-13	3:00 PM	1100 Lupton Drive	MH	S118L002	UNK ³	250	Land	Weather/heavy rain
26-Nov-13	6:55 AM	122 Rowland Gap Road (West Bank)	MH	N/A ¹	17.92	306,000	TN River	Weather/heavy rain
26-Nov-13	8:30 AM	1117 Fernway Road	MH	S127H050	1.58	150	Land/storm drain ⁴	Blockage/roots trash
26-Nov-13	9:00 AM	2109 Lynnbrook Ave	MH	S156G048	24.25	10	Land	Weather/heavy rain
26-Nov-13	10:45 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	15.25	91,500	Wolftever Creek	Weather/Capacity
26-Nov-13	10:45 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	15.25	137,250	Wolftever Creek	Weather/Capacity
26-Nov-13	11:15 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	14.75	91,500	Wolftever Creek	Weather/Capacity
26-Nov-13	12:00 PM	1004 Riverside Drive (Citico Pump Station)	MH	S136P605	28	12,000	Land/TN river	Weather/Heavy Rain

Table 2-1
Quarterly SSO Report

October 1, 2013 – December 31, 2013								
Date	Time	Location	Source	MH ID #	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
26-Nov-13	12:50 PM	1138 Pineville Rd "Pineville Pump Station"	MH	S126J017	19.58	29,375	Land/ storm ditch ⁵	Weather/Capacity
26-Nov-13	3:00 PM	1001 Shallowford Road	MH	S147G105	18.5	27,750	Land/ditch ⁵	Weather/Heavy Rain
26-Nov-13	3:30 PM	E 20th St and Kelly St	MH	S156G030	17.75	3,200	Land/storm drain ⁵	Weather/Heavy Rain
26-Nov-13	3:50 PM	6693 Hickory Brook Drive	MH	S138M082	0.5	25	Land/storm drain ⁵	Weather/Heavy Rain
2-Dec-13	10:10 AM	1611 Parkway Dr	MH	S147B016	1.42	40	Land	Blockage/grease roots
4-Dec-13	2:52 PM	1548 Riverside Dr	Main Line	N/A ¹	25.13	5,000	Land/ditch ⁵	Pipe Defect
4-Dec-13	2:52 PM	1530 Riverside Dr	Main Line	N/A ¹	22.13	5,000	Land/ditch ⁵	Pipe Defect
5-Dec-13	12:45 AM	7606 Davidson Rd	MH	S170D001	UNK ³	250	Land/stream	Weather/heavy rain
5-Dec-13	12:45 AM	7606 Davidson Rd	MH	S170C021	UNK ³	10,000	Land/stream	Weather/heavy rain
6-Dec-13	7:45 AM	5401 Old Hixson Pike & RR (Hixson #2)	MH	UNK ³	0.25	672,000	Land	PS-Electrical
9-Dec-13	7:40 AM	1138 Pineville Rd "Pineville Pump Station"	MH	S126J017	7.17	10,750	Land/ ditch ⁵	Weather/Capacity

Table 2-1
Quarterly SSO Report

October 1, 2013 – December 31, 2013								
Date	Time	Location	Source	MH ID #	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
9-Dec-13	8:20 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	88.38	363,450	Wolftever Creek	Weather/Capacity
9-Dec-13	9:30 AM	Birmingham Dr & Bainbridge St	MH	S118D128	1.25	10	Land/storm drain ⁴	Weather/heavy rain
9-Dec-13	2:20 PM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	46.38	51,575	Wolftever Creek	Weather/Capacity
9-Dec-13	4:40 PM	4511 Tennessee Ave (rear)	Customer clean out	S167G049	3.83	7,500	Land	Blockage
10-Dec-13	8:00 AM	255 Whitehall Rd	MH	S135G022	1.42	425	Land/ditch ⁴	Blockage/grease trash
10-Dec-13	11:05 AM	Broad St & Cummings Hwy	MH	S155J015	0.55	165	Land/storm drain ⁵	Blockage/grease trash
10-Dec-13	11:15 AM	1620 Edgewood Cir	Main line	N/A ¹	UNK ³	750	Land/ditch ⁴	Pipe Defect
12-Dec-13	1:30 PM	1004 Riverside Drive (Citico Pump Station)	MH	S136P605	0.08	149,305	Land/TN river	PS-Mechanical
14-Dec-13	5:30 PM	Davidson Rd. At Gunbarrel Rd.	MH	S170D001	17	2,500	Land/Mackey Branch	Blockage
17-Dec-13	3:00 PM	1005 Audubon Trail	MH	S170F006	5.5	250	Land/Mackey Branch	PS-Mechanical

Table 2-1
Quarterly SSO Report

October 1, 2013 – December 31, 2013								
Date	Time	Location	Source	MH ID #	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
22-Dec-13	12:05 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	26.67	132,000	Wolftever Creek	Weather/Capacity
22-Dec-13	12:05 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	26.67	132,000	Wolftever Creek	Weather/Capacity
22-Dec-13	12:05 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	26.67	132,000	Wolftever Creek	Weather/Capacity
22-Dec-13	7:00 AM	122 Rowland Gap Road (West Bank)	Main Line	N/A ¹	21.98	395,700	Tn. River	Weather/heavy rain
22-Dec-13	11:18 AM	1138 Pineville Rd "Pineville Pump Station"	MH	S126J017	20.62	61,850	Land/ ditch ⁵	Weather/Capacity
23-Dec-13	12:40 AM	Davidson Rd. At Gunbarrel Rd.	MH	S170D001	80.33	13,800	Land/Mackey Branch	Weather/heavy rain
23-Dec-13	9:30 AM	Birmingham Dr & Bainbridge St	MH	S118D128	4.5	1,100	Land/storm drain ⁵	Weather/heavy rain
23-Dec-13	11:45 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	3.35	10,050	Wolftever Creek	Weather/Capacity
29-Dec-13	2:01 AM	122 Rowland Gap Road (West Bank)	Main Line	N/A ¹	15.65	281,700	Tn. River	Weather/heavy rain
29-Dec-13	4:00 PM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁶	MH	UNK ²	9.25	55,500	Wolftever Creek	Weather/Capacity

Table 2-1
Quarterly SSO Report

October 1, 2013 – December 31, 2013								
Date	Time	Location	Source	MH ID #	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
30-Dec-13	2:00 PM	1108 N Concord Rd	MH	S158N065	UNK ³	10	Land	Weather/heavy rain
30-Dec-13	2:43 PM	Birmingham Dr & Bainbridge St	MH	S118D128	2.03	100	Land/storm drain ⁵	Blockage/trash

¹ Not Applicable; these SSOs discharged through a source other than a manhole and do not have an ID.

² Manholes are not numbered.

³ This information was not available at time of reporting.

⁴ Did not reach waters of the United States

⁵ Did reach waters of the United States

⁶ Common cause, within 500 yards of separate event.

3.0 Moccasin Bend WWTP Bypasses

For the reporting period of October 1, 2013 through December 31, 2013, the WWTP experienced bypasses during wet weather events as listed in Table 3-1. The CD sets forth the same definition for bypass as the 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. During heavy rain events, excess flow is sent through the Moccasin Bend WWTP's wet weather process, which consists of grit removal, primary clarification and chlorine contact. A bypass occurs when either a portion of the effluent or the entire effluent flow from the wet weather process is diverted from the secondary treatment train of the WWTP and discharged to the Tennessee River.

Table 3-1
Quarterly Bypass Report

October 1, 2013 – December 31, 2013							
Date	Time	Location	Source	Duration (days)	Bypass Volume (MG)	Receiving Water	Cause
26-Nov-13	1:00 PM	MBWWTP	Wet Weather Process	2	48.14	Tennessee River	Heavy Rain
9-Dec-13	7:00 AM	MBWWTP	Wet Weather Process	3	94.44	Tennessee River	Heavy Rain
14-Dec-13	12:00 AM	MBWWTP	Wet Weather Process	1	4.18	Tennessee River	Heavy Rain
22-Dec-13	5:00 PM	MBWWTP	Wet Weather Process	2	48.66	Tennessee River	Heavy Rain
29-Dec-13	12:00 AM	MBWWTP	Wet Weather Process	2	30.75	Tennessee River	Heavy Rain

4.0 CSO Outfall Discharges

For the reporting period of October 1, 2013 through December 31, 2013 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 facilities, six (6) of which discharged overflows from the CSS during the reporting period.

Table 4-1
Quarterly CSO Outfall Discharge Report

October 1, 2013 – December 31, 2013						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
26-Nov-13	4:45 AM	Carter St. CSO (009)	12.12	4.7355	Tennessee River	Rain event
26-Nov-13	5:33 AM	19th St CSO (008)	6.78	3.9854	Tennessee River	Rain event
26-Nov-13	5:34 AM	Ross's Landing CSO (006)	11.95	8.4904	Tennessee River	Rain event
26-Nov-13	6:30 AM	Central CSO (002)	14.97	8.3372	Tennessee River	Rain event
26-Nov-13	2:06 PM	ML King CSO (007)	0.87	0.0835	Tennessee River	Rain event
26-Nov-13	2:50 PM	Citico CSO (004)	7.17	5.0988	Tennessee River	Rain event
8-Dec-13	9:04 PM	Carter St. CSO (009)	6.23	2.0252	Tennessee River	Rain event
8-Dec-13	11:06 PM	19th St CSO (008)	2.43	0.7928	Tennessee River	Rain event
8-Dec-13	11:59 PM	Central CSO (002)	6.13	2.8039	Tennessee River	Rain event
10-Dec-13	3:53 AM	Carter St. CSO (009)	0.48	0.0084	Tennessee River	Rain event
14-Dec-13	9:58 AM	19th St CSO (008)	1.00	0.2667	Tennessee River	Rain event
22-Dec-13	4:18 AM	Carter St. CSO (009)	5.93	2.4794	Tennessee River	Rain event
22-Dec-13	4:22 AM	19th St CSO (008)	2.92	0.8466	Tennessee River	Rain event
22-Dec-13	6:36 AM	Ross's Landing CSO (006)	1.65	0.5723	Tennessee River	Rain event
22-Dec-13	6:59 AM	Central CSO (002)	4.93	1.9635	Tennessee River	Rain event
28-Dec-13	11:29 PM	Central CSO (002)	5.45	1.8550	Tennessee River	Rain event

Table 4-1
 Quarterly CSO Outfall Discharge Report

October 1, 2013 – December 31, 2013						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
29-Dec-13	3:25 AM	Carter St. CSO (009)	0.35	0.0028	Tennessee River	Rain event