

April 30, 2021

VIA CERTIFIED MAIL

Mr. Richard Elliott 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. 31 – January 2021 to March 2021

Dear Mr. Elliott:

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 thirty-first 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.



Mr. Richard Elliott April 30, 2021 Page Two

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

Sincerely,

Jeff A. Rose, 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

Paul Schwartz, Esq., US EPA

Sohnia Hong, Office of the Attorney General

Enforcement Coordinator, Water Pollution Control, TDEC

Brandi Prewitt, TN Clean Water Network Adam Sowatzka, Esq., King & Spalding Mike Marino, P.E., Jacobs Engineering



Quarterly Report No. 31

January 1, 2021 - March 31, 2021

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

April 30, 2021

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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. 31 to satisfy the reporting requirements of the CD. 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 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 ("MBWWTP") 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 January 1, 2021 through March 31, 2021, 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."

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
1	01-Jan-21	2:30 PM	5203 Old Mission Rd (Golf Course PS)	Manhole	S157K070	17.25	5,175	South Chickamauga Creek	Wet Weather
2	11-Jan-21	8:00 AM	3107 E 43rd St	Manhole	S168J048	1.83	50	Storm Drain	Blockage - Trash/Debris
3	22-Jan-21	2:30 PM	2700 Parkwood Dr	Manhole	S146E059	1.17	50	Storm Ditch	Blockage - Trash/Debris
4	28-Jan-21	8:00 AM	6320 Frances Dr	Manhole	S138K027	2.00	3,000	UNK	Blockage - Trash/Debris
5	28-Jan-21	9:00 AM	1004 River Hills Cr	Manhole	S127B036	4.25	1,275	Land*	Blockage - Trash/Debris
6	09-Feb-21	11:00 AM	7127 Lee Hwy	Manhole	S139P450	UNK²	50	Stream	Wet Weather
7	10-Feb-21	9:45 AM	3726 Kelleys Ferry Rd	Other	UNK²	2.00	50	House	Blockage - Trash/Debris
8	10-Feb-21	3:30 PM	1111 Valentine Cr	Other	UNK²	0.00	1	House	Cleaning line
9	17-Feb-21	12:00 PM	3728 Wilcox Blvd	Manhole	S147BB301	2.50	150	Storm Ditch	Wet Weather
10	18-Feb-21	6:30 AM	1020 Lupton Dr	Manhole	S118K006	2.50	397,500	Tennessee River	Wet Weather
11	18-Feb-21	9:00 AM	914 Sterling Ave	Manhole	S136H107	3.00	18,000	Tennessee River	Wet Weather
12	18-Feb-21	9:00 AM	3728 Wilcox Blvd	Manhole	S147BB301	2.00	120	Storm Ditch	Wet Weather
13	20-Feb-21	10:00 AM	59 Fairhills Dr	Other	UNK²	26.50	1,500	Storm Ditch	Blockage - Trash/Debris
14	23-Feb-21	12:00 PM	4762 Hwy 58	Other	UNK²	2.00	25	Land*	Blockage - Trash/Debris
15	01-Mar-21	8:30 AM	914 Sterling Ave	Manhole	S136H107	4.00	24,000	Tennessee River	Wet Weather
16	01-Mar-21	9:15 AM	1020 Lupton Dr	Manhole	S118K006	25.25	318,000	Tennessee River	Wet Weather
17	02-Mar-21	5:00 PM	1210 Marcer Dr	Main Line	UNK²	22.00	26,400	Storm Ditch	Break
18	05-Mar-21	10:30 AM	4003 Fagen St	Other	UNK²	1.00	25	Land*	Blockage - Trash/Debris
19	09-Mar-21	8:30 AM	1266 Village Green Dr	Manhole	S092P007	2.33	750	Storm Drain	Blockage - Trash/Debris

Table 2-1

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
20	10-Mar-21	6:00 PM	Hickory Valley Rd	Manhole	S129D009	16.17	70,000	Storm Drain	Blockage - Roots
21 ¹	11-Mar-21	8:30 AM	5900 Hixson Pike	Manhole	S100L035	27.00	810,000	UNK ²	UNK²
22 ¹	12-Mar-21	10:00 AM	3579 Dodson Ave	Manhole	S128I009	4.08	245	Storm Ditch	Blockage - Trash/Debris
23	16-Mar-21	8:15 AM	901 Woodmore	Manhole	S147K008	25.25	1,515	Storm Ditch	Break
24	16-Mar-21	9:00 AM	2109 Lynbrook Ave	Manhole	S156G048	5.17	7,750	Dobbs Branch	Wet Weather
25	16-Mar-21	9:30 AM	2001 S Kelley St	Manhole	S156G030	4.75	2,850	Dobbs Branch	Wet Weather
26 ¹	16-Mar-21	9:45 AM	1900 E 25th St	Manhole	S156J057	22.75	40,950	Dobbs Branch	Wet Weather
27	16-Mar-21	10:00 AM	914 Sterling Ave	Manhole	S136H107	2.50	22,500	Tennessee River	Wet Weather
28	17-Mar-21	7:28 PM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F058	23.28	55,880	Storm Drain	Wet Weather
29 ¹	18-Mar-21	1:00 AM	1820 E 23rd St	Manhole	S156G049	33.50	64,500	Dobbs Branch	Wet Weather
30 ¹	18-Mar-21	7:00 AM	1610 Elm St (DuPont PS)	Manhole	S118E055	5.00	67,500	Tennessee River	Wet Weather
31	18-Mar-21	8:30 AM	901 Gillespie Rd	Manhole	S147G083	23.75	7,125	Storm Ditch	Wet Weather
32	18-Mar-21	8:30 AM	1020 Lupton Dr	Manhole	S118K006	24.00	432,000	Tennessee River	Wet Weather
33 ¹	18-Mar-21	8:30 AM	601 Lupton Dr	Manhole	S118G055	24.00	158,400	Storm Ditch	Wet Weather
34	18-Mar-21	8:30 AM	3857 Birmingham Dr	Manhole	S118D128	23.75	142,500	Tennessee River	Wet Weather
35 ¹	18-Mar-21	8:30 AM	7724 Old Lee Hwy	Manhole	S139D002	24.75	189,375	Storm Ditch	Wet Weather
36 ¹	18-Mar-21	8:40 AM	2001 S Kelley St	Manhole	S156G030	25.92	54,425	Dobbs Branch	Wet Weather
37	18-Mar-21	8:50 AM	914 Sterling Ave	Manhole	S136H107	23.67	213,000	Tennessee River	Wet Weather
38	18-Mar-21	9:00 AM	511 W 38th St	Manhole	S155N049	7.75	11,625	Storm Drain	Wet Weather
39 ¹	18-Mar-21	9:00 AM	25 S. Germantown Rd	Manhole	S157A109	25.50	153,000	Storm Drain	Wet Weather
40	18-Mar-21	9:24 AM	1022 Shallowford Rd	Manhole	S147G104	22.85	200,981	South Chickamauga Creek	Wet Weather
41	18-Mar-21	9:30 AM	5010 Creekside Preserve	UNK²	UNK²	23.75	35,625	UNK ²	Wet Weather

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
42 ¹	18-Mar-21	9:48 AM	6695 Hickory Brook Dr	Manhole	S138M082	25.33	12,700	Storm Drain	Wet Weather
43	18-Mar-21	9:55 AM	0 Aim Way	Manhole	S157H046	25.00	225,000	Storm Drain	Wet Weather
44	18-Mar-21	9:58 AM	3812 Provence	Manhole	S157H603	25.03	74,900	Storm Drain	Wet Weather
45	18-Mar-21	10:55 AM	2500 Robin Glen Dr	Manhole	S139P062	24.08	14,350	Storm Ditch	Wet Weather
46	18-Mar-21	11:11 AM	7139 Robin Ln	Manhole	S139P005	23.82	71,400	Storm Drain	Wet Weather
47 ¹	18-Mar-21	11:33 AM	3728 Wilcox Blvd	Manhole	S147B301	23.95	144,000	Storm Ditch	Wet Weather
48	18-Mar-21	11:45 AM	835 Mauldeth Rd	Manhole	S118C156	24.25	216,000	Storm Ditch	Wet Weather
49	18-Mar-21	11:45 AM	406 Brown Rd	Manhole	S158O004	92.75	5,595	South Chickamauga Creek	Wet Weather
50 ¹	18-Mar-21	11:45 AM	4610 Kemp Drive	Manhole	S157C065	23.50	70,500	Storm Drain	Wet Weather
51	18-Mar-21	12:30 PM	5302 Old Mission Rd	Manhole	S157K058	25.83	15,400	Storm Drain	Wet Weather
52	18-Mar-21	2:00 PM	1829 Arcie Dr	Manhole	S137N025	36.00	162,000	South Chickamauga Creek	Wet Weather
53	19-Mar-21	1:07 PM	406 Brown Rd	Manhole	S158P001	67.38	26,585	South Chickamauga Creek	Wet Weather
54	22-Mar-21	1:45 PM	1501 Lyndhurst Dr	Manhole	S136A037	2.92	4,375	Storm Ditch	Blockage - Roots
55	23-Mar-21	1:00 PM	1063 Shallowford Rd	Main Line	UNK²	28.50	17,100	Storm Ditch	Break
56	25-Mar-21	12:30 PM	5302 Old Mission Rd	Manhole	S157K058	20.50	24,600	Storm Drain	Wet Weather
57	25-Mar-21	12:45 PM	3910 Juandale Trail (F Branch PS)	Manhole	S137N004	25.25	39,750	South Chickamauga Creek	Wet Weather
58	25-Mar-21	1:00 PM	914 Sterling Ave	Manhole	S136H107	23.50	14,100	Tennessee River	Wet Weather
59	25-Mar-21	1:00 PM	1020 Lupton Dr	Manhole	S118K006	UNK²	575,995	Tennessee River	Wet Weather
60	25-Mar-21	1:25 PM	1022 Shallowford Rd	Manhole	S147G104	19.42	58,250	South Chickamauga Creek	Wet Weather
61	25-Mar-21	1:40 PM	2109 Lynnbrook Ave	Manhole	S156G048	31.58	29,375	Dobbs Branch	Wet Weather
62	25-Mar-21	1:45 PM	107 W 38th St	Manhole	S155N071	19.67	11,800	Storm Drain	Wet Weather
63	25-Mar-21	1:48 PM	2001 S Kelley St	Manhole	S156G030	19.45	12,300	Dobbs Branch	Wet Weather
64 ¹	25-Mar-21	1:53 PM	1900 E 25th St	Manhole	S156J057	19.45	58,320	Storm Drain	Wet Weather
65	25-Mar-21	2:07 PM	0 Aim Way	Manhole	S157H046	19.38	29,075	Storm Drain	Wet Weather
66	25-Mar-21	2:08 PM	2500 Robin Glen Dr	Manhole	S139P062	19.00	5,700	Storm Ditch	Wet Weather

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
67	25-Mar-21	2:11 PM	3812 Provence	Manhole	S157H603	19.32	11,590	Storm Drain	Wet Weather
68	25-Mar-21	2:30 PM	7139 Robin Ln	Manhole	S139P005	19.00	285,000	Storm Drain	Wet Weather
69	26-Mar-21	1:00 PM	5010 Creekside Preserve	UNK²	UNK²	UNK²	13,050	North Chickamauga Creek	Wet Weather
70	28-Mar-21	9:10 AM	107 W 38th St	Manhole	S155N071	22.83	4,110	Storm Drain	Wet Weather
71	28-Mar-21	9:36 AM	914 Sterling Ave	Manhole	S136H107	28.90	174,000	Tennessee River	Wet Weather
72	28-Mar-21	9:45 AM	511 W 38th St	Manhole	S155N049	8.50	2,730	Storm Drain	Wet Weather
73	28-Mar-21	10:20 AM	1022 Shallowford Rd	Manhole	S147G104	8.25	12,099	South Chickamauga Creek	Wet Weather
74 ¹	28-Mar-21	10:25 AM	3728 Wilcox Blvd	Manhole	S147B301	8.33	10,260	Storm Ditch	Wet Weather
75	29-Mar-21	11:30 AM	835 Mauldeth Rd	Manhole	S118C156	5.50	8,250	Storm Ditch	Blockage - Gravel
76 ¹	31-Mar-21	6:30 AM	914 Sterling Ave	Manhole	S136H107	50.00	758,625	Tennessee River	Wet Weather
77	31-Mar-21	7:00 AM	1020 Lupton Dr	Manhole	S118K006	73.50	1,344,000	Tennessee River	Wet Weather
78	31-Mar-21	8:15 AM	1003 Dartmouth St.	Manhole	S127P060	23.50	211,500	Storm Drain	Wet Weather
79 ¹	31-Mar-21	8:30 AM	621 Lupton Dr	Manhole	S118G077	23.50	228,870	Storm Ditch	Wet Weather
80 ¹	31-Mar-21	8:30 AM	25 S. Germantown Rd	Manhole	S157A109	24.00	108,000	Storm Drain	Wet Weather
81	31-Mar-21	8:30 AM	1308 Hanover Street	Manhole	S136A140	23.17	34,750	Storm Drain	Wet Weather
82	31-Mar-21	8:30 AM	3857 Birmingham Dr	Manhole	S118D128	23.33	70,500	Tennessee River	Wet Weather
83	31-Mar-21	8:44 AM	2109 Lynnbrook Ave	Manhole	S156G048	24.10	72,300	Dobbs Branch	Wet Weather
84 ¹	31-Mar-21	8:45 AM	2914 Hamill Rd	Manhole	S110F014	22.92	105,614	North Chickamauga Creek	Wet Weather
85	31-Mar-21	8:50 AM	1022 Shallowford Rd	Manhole	S147G104	24.00	144,000	South Chickamauga Creek	Wet Weather
86 ¹	31-Mar-21	9:00 AM	3728 Wilcox Blvd	Manhole	S147B301	24.00	230,400	Storm Ditch	Wet Weather
87	31-Mar-21	9:00 AM	2001 S Kelley St	Manhole	S156G030	24.00	36,000	Dobbs Branch	Wet Weather
88 ¹	31-Mar-21	9:03 AM	1900 E 25th St	Manhole	S156J057	23.95	101,010	Storm Drain	Wet Weather
89 ¹	31-Mar-21	9:15 AM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157K059	11.75	184,920	Storm Drain	Wet Weather
90	31-Mar-21	9:20 AM	0 Aim Way	Manhole	S157H046	23.67	142,000	Storm Drain	Wet Weather

2.0 - SSO Events Quarterly Report 31

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
91	31-Mar-21	9:24 AM	3812 Provence	Manhole	S157H603	24.02	36,025	Storm Drain	Wet Weather
92	31-Mar-21	9:35 AM	2500 Robin Glen Dr	Manhole	S139P062	23.83	7,125	Storm Ditch	Wet Weather
93	31-Mar-21	9:50 AM	7139 Robin Ln	Manhole	S139P005	23.58	283,000	Storm Drain	Wet Weather
94 ¹	31-Mar-21	10:00 AM	4610 Kemp Dr	Manhole	S157C065	23.42	175,625	Storm Drain	Wet Weather
95	31-Mar-21	10:40 AM	406 Brown Rd	Manhole	S158O004	46.33	417,000	South Chickamauga Creek	Wet Weather
96	31-Mar-21	11:00 AM	107 W 38th St	Manhole	S155N071	22.75	133,500	Storm Drain	Wet Weather
97	31-Mar-21	11:21 AM	511 W 38th St	Manhole	S155N049	21.98	6,605	Storm Drain	Wet Weather
98 ¹	31-Mar-21	1:00 PM	6695 Hickory Brook Dr	Manhole	S138M082	20.00	90,000	Storm Drain	Wet Weather
99	31-Mar-21	1:45 PM	1610 Elm St (DuPont PS)	Manhole	S118E057	8.00	69,750	Tennessee River	Wet Weather
100	31-Mar-21	2:08 PM	Stratton Place Dr	Manhole	S158M009	20.20	5,940	Mackey Branch	Wet Weather
101	31-Mar-21	2:45 PM	7724 Old Lee Hwy	Manhole	S139D002	19.00	285,000	Storm Ditch	Wet Weather

Common cause, within 500 yards of separate event.
 This information was not available at time of reporting.
 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 January 1, 2021 through March 1, 2021.

4.0 CSO Outfall Discharges

For the reporting period of January 1, 2021 through March 31, 2021, 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 storm water runoff through a single-pipe system to Chattanooga's WWTP or CSO outfalls. Chattanooga operates eight (8) permitted CSO outfall treatment facilities, eight (8) of which discharged during the reporting period.

Quarterly Report 31 4.0 - CSO Outfall Discharges

Table 4-1 Quarterly CSO Outfall Discharge Report

		January 1, 202	21 – March 31, 2021			
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
01-Jan-21	9:41 AM	Tremont CSO (005)	0.38	0.031768	Tennessee River	Rain Eve
25-Jan-21	10:25 PM	Tremont CSO (005)	0.52	0.041143	Tennessee River	Rain Eve
25-Jan-21	11:06 PM	Carter St CSO (009)	4.75	2.246298	Tennessee River	Rain Ev
25-Jan-21	11:15 PM	19th St CSO (008)	0.35	0.009428	Tennessee River	Rain Eve
26-Jan-21	2:33 AM	Central Ave CSO (002)	8.8	0.677707	Chattanooga Creek	Rain Eve
18-Feb-21	2:13 AM	Tremont CSO (005)	3.58	0.561038	Tennessee River	Rain Eve
18-Feb-21	2:28 AM	19th St CSO (008)	3.17	0.743668	Tennessee River	Rain Eve
18-Feb-21	3:52 AM	ML King CSO (007)	12.55	0.488316	Tennessee River	Rain Eve
18-Feb-21	4:25 AM	Central Ave CSO (002)	28.18	6.259855	Chattanooga Creek	Rain Eve
18-Feb-21	4:42 AM	Ross's Landing CSO (006)	0.62	0.103216	Tennessee River	Rain Eve
18-Feb-21	5:01 AM	Citico CSO (004)	0.77	0.429624	Tennessee River	Rain Eve
26-Feb-21	11:40 AM	Carter St CSO (009)	9.38	3.387331	Tennessee River	Rain Eve
26-Feb-21	4:40 PM	Citico CSO (004)	13.64	6.708538	Tennessee River	Rain Eve
26-Feb-21	5:30 PM	Central Ave CSO (002)	27.1	2.619839	Chattanooga Creek	Rain Eve
26-Feb-21	6:22 PM	ML King CSO (007)	10.22	0.207054	Tennessee River	Rain Eve
01-Mar-21	2:02 AM	Central Ave CSO (002)	14.7	4.326302	Chattanooga Creek	Rain Eve
01-Mar-21	2:35 AM	Carter St CSO (009)	6.85	3.748186	Tennessee River	Rain Eve
01-Mar-21	3:22 AM	Tremont CSO (005)	0.87	0.114180	Tennessee River	Rain Eve
01-Mar-21	3:24 AM	ML King CSO (007)	11.83	0.548653	Tennessee River	Rain Eve
01-Mar-21	3:32 AM	Citico CSO (004)	29.24	5.443949	Tennessee River	Rain Eve
01-Mar-21	3:35 AM	19th St CSO (008)	1.48	0.224775	Tennessee River	Rain Eve
16-Mar-21	5:49 AM	Carter St CSO (009)	6.68	6.377361	Tennessee River	Rain Eve
16-Mar-21	5:51 AM	19th St CSO (008)	3.62	0.661764	Tennessee River	Rain Eve
16-Mar-21	5:53 AM	ML King CSO (007)	12.27	1.174777	Tennessee River	Rain Eve
16-Mar-21	5:58 AM	Tremont CSO (005)	1.9	0.318206	Tennessee River	Rain Eve

Quarterly Report 31 4.0 - CSO Outfall Discharges

Table 4-1 Quarterly CSO Outfall Discharge Report

January 1, 2021 – March 31, 2021									
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause			
16-Mar-21	6:02 AM	Ross's Landing CSO (006)	2.48	3.005015	Tennessee River	Rain Eve			
16-Mar-21	6:53 AM	Central Ave CSO (002)	35.63	16.625401	Chattanooga Creek	Rain Eve			
16-Mar-21	8:50 AM	Williams St CSO (003)	13.78	0.702540	Chattanooga Creek	Rain Eve			
16-Mar-21	9:20 AM	Citico CSO (004)	20.3	4.032742	Tennessee River	Rain Eve			
17-Mar-21	12:34 PM	19th St CSO (008)	12.02	2.553426	Tennessee River	Rain Eve			
17-Mar-21	3:33 PM	ML King CSO (007)	34.51	4.124897	Tennessee River	Rain Eve			
17-Mar-21	3:48 PM	Tremont CSO (005)	18.14	3.951300	Tennessee River	Rain Eve			
17-Mar-21	4:28 PM	Citico CSO (004)	53.89	32.041938	Tennessee River	Rain Eve			
17-Mar-21	5:11 PM	Carter St CSO (009)	51.76	36.489854	Tennessee River	Rain Eve			
17-Mar-21	5:37 PM	Williams St CSO (003)	72.03	7.307095	Chattanooga Creek	Rain Eve			
17-Mar-21	6:57 PM	Ross's Landing CSO (006)	8.87	7.286277	Tennessee River	Rain Eve			
20-Mar-21	8:56 AM	Central Ave CSO (002)	12.6	0.162625	Chattanooga Creek	Rain Eve			
22-Mar-21	12:48 AM	Central Ave CSO (002)	4.23	0.015657	Chattanooga Creek	Rain Eve			
25-Mar-21	4:26 AM	Ross's Landing CSO (006)	5.4	5.525188	Tennessee River	Rain Eve			
25-Mar-21	11:06 AM	ML King CSO (007)	24.93	2.006308	Tennessee River	Rain Eve			
25-Mar-21	11:10 AM	19th St CSO (008)	5.27	0.719479	Tennessee River	Rain Eve			
25-Mar-21	11:11 AM	Carter St CSO (009)	10.93	12.175744	Tennessee River	Rain Eve			
25-Mar-21	11:13 AM	Tremont CSO (005)	1.67	0.215483	Tennessee River	Rain Eve			
25-Mar-21	11:40 AM	Citico CSO (004)	109.71	28.278144	Tennessee River	Rain Eve			
25-Mar-21	11:55 AM	Central Ave CSO (002)	11.48	13.202769	Chattanooga Creek	Rain Eve			
25-Mar-21	5:43 PM	Williams St CSO (003)	89.61	4.632083	Chattanooga Creek	Rain Eve			
27-Mar-21	1:44 PM	19th St CSO (008)	0.18	0.008481	Tennessee River	Rain Eve			
27-Mar-21	7:11 PM	ML King CSO (007)	16.47	1.040604	Tennessee River	Rain Eve			
28-Mar-21	5:07 AM	Central Ave CSO (002)	8.28	6.238421	Chattanooga Creek	Rain Eve			
28-Mar-21	6:51 AM	19th St CSO (008)	2.23	0.495055	Tennessee River	Rain Eve			

Quarterly Report 31 4.0 - CSO Outfall Discharges

Table 4-1 Quarterly CSO Outfall Discharge Report

	January 1, 2021 – March 31, 2021										
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause					
28-Mar-21	7:59 AM	Carter St CSO (009)	25.77	21.809692	Tennessee River	Rain Event					
31-Mar-21	5:55 AM	Tremont CSO (005)	4.52	1.461888	Tennessee River	Rain Event					
31-Mar-21	6:02 AM	19th St CSO (008)	6.1	3.729896	Tennessee River	Rain Event					
31-Mar-21	6:09 AM	Williams St CSO (003)	17.85	3.841754	Chattanooga Creek	Rain Event					
31-Mar-21	6:10 AM	Central Ave CSO (002)	2.88	6.640996	Chattanooga Creek	Rain Event					
31-Mar-21	6:13 AM	ML King CSO (007)	16.3	2.139874	Tennessee River	Rain Event					
31-Mar-21	6:23 AM	Citico CSO (004)	17.61	4.836921	Tennessee River	Rain Event					
31-Mar-21	6:28 AM	Ross's Landing CSO (006)	4.37	6.228074	Tennessee River	Rain Event					
31-Mar-21	7:01 AM	Carter St CSO (009)	16.52	22.902072	Tennessee River	Rain Event					