



City of Chattanooga

Mayor Tim Kelly

April 30, 2022

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. 35 – January 1, 2022 to March 31, 2022

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-fifth 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, 2022
Page Two

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

Sincerely,

Mark Heinzer
Interim 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
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Adam Sowatzka, Esq., King & Spalding
Mike Marino, P.E., Jacobs Engineering



Quarterly Report No. 35

January 1, 2022 – March 31, 2022

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, 2022

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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 Wastewater Treatment Plant
MBEC	Moccasin Bend Environmental Campus
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. 35 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 Environmental Campus (“MBEC”) formerly known as 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, 2022 through March 31, 2022, 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**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
1	02-Jan-22	4:15 AM	122 Rowland Gap Rd (West Bank)	Main Line	UNK ²	13.58	623	Tennessee River	Outfall Structure - Mechanical Failure + Construction at MBEC
2	02-Jan-22	3:45 PM	End of MLK BLVD (East Bank)	Manhole	S135O547	2.17	70,188	Tennessee River	Wet Weather + Construction at MBEC
3	04-Jan-22	3:00 PM	6825 Northside Drive	Manhole	S158C205	2.00	1,200	Storm Ditch	Blockage - Trash/Debris
4	06-Jan-22	10:10 AM	404 Tunnel Blvd	Manhole	S147I015	2.17	3,000	Storm Ditch	Blockage - Trash/Debris
5	17-Jan-22	9:15 AM	8317 Iris Drive	Manhole	S171G050	2.25	3,375	Storm Ditch	Blockage - Trash/Debris
6	21-Jan-22	10:30 AM	400 Fagan St	Manhole	S167D046	0.75	1,125	Land*	Blockage - Trash/Debris
7	24-Jan-22	12:30 PM	5116 Eldridge Rd	Manhole	S099M074	0.50	150	Storm Drain	Blockage - Gravel
8	28-Jan-22	10:15 AM	146 Brelsford Rd	Manhole	S135J009	2.08	250	Land*	Blockage - Trash/Debris
9	02-Feb-22	1:00 PM	1419 Mercer St	Manhole	S118E087	0.93	280	Storm Drain	Blockage - Trash/Debris
10	03-Feb-22	9:54 AM	5200 Old Mission Road	Manhole	S157K058	23.27	6,980	Storm Drain	Wet Weather
11	03-Feb-22	10:11 AM	1022 Shallowford Rd	Manhole	S147G104	29.07	43,600	Storm Drain	Wet Weather
12	03-Feb-22	10:41 AM	6695 Hickory Brook Rd	Manhole	S138M082	22.90	6,870	Storm Drain	Wet Weather
13	03-Feb-22	1:25 PM	1516 Lyndhurst Dr	Other	UNK ²	5.75	300	Structure*	Blockage - Trash/Debris
14	03-Feb-22	3:00 PM	710 W 42nd St	Other	UNK ²	1.00	200	Structure*	Blockage - Trash/Debris
15	03-Feb-22	8:05 PM	End of MLK BLVD (East Bank)	Manhole	S135O547	8.25	874,000	Tennessee River	Wet Weather + Construction at MBEC

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
16	03-Feb-22	8:10 PM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	13.00	2,443,000	Tennessee River	Wet Weather + Construction at MBEC
17	03-Feb-22	8:30 PM	1419 Mercer St	Service Line	UNK ²	185.00	11,100	Structure*	Defect(s)
18	04-Feb-22	2:15 PM	1047 Graysville Road	Manhole	S171A016	0.80	1,200	Storm Drain	Wet Weather
19	05-Feb-22	9:10 AM	4207 Brynwood Dr	Manhole	S109M009	1.58	475	Storm Drain	Blockage - Trash/Debris
20	10-Feb-22	4:00 PM	6038 Arlene Circle	Service Line	UNK ²	UNK ²	2,000	Storm Ditch	Wet Weather
21	15-Feb-22	1:20 PM	2401 Fairleigh St	Manhole	S137A050	2.08	1,250	Storm Ditch	Blockage - Roots
22	18-Feb-22	9:20 AM	5300 Pinelawn Ave	Manhole	S157K071	UNK ²	300	Land*	Wet Weather
23	22-Feb-22	1:45 PM	535 Cherokee Blvd	Manhole	S135C036	4.75	2,850	Storm Ditch	Blockage - Trash/Debris
24	23-Feb-22	2:45 AM	End of MLK BLVD (East Bank)	Manhole	S135O547	46.25	9,519,000	Tennessee River	Wet Weather + Construction at MBEC
25	23-Feb-22	2:50 AM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	47.50	22,100,000	Tennessee River	Wet Weather + Construction at MBEC
26	23-Feb-22	5:30 AM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F058	14.50	65,250	Storm Drain	Wet Weather
27 ¹	23-Feb-22	8:00 AM	1511 Riverview Rd	Manhole	S136H417	UNK ²	114,500	Tennessee River	Wet Weather
28	23-Feb-22	8:15 AM	1900 E 25th Street Place	Force Main	S156J057	24.25	71,250	Tennessee River	Wet Weather
29	23-Feb-22	8:15 AM	1511 Riverview Rd	Force Main	UNK ²	102.75	1,048,500	Tennessee River	Wet Weather
30	23-Feb-22	8:15 AM	1511 Riverview Rd	Force Main	UNK ²	102.75	1,048,500	Tennessee River	Wet Weather
31	23-Feb-22	8:30 AM	511 W 38th St	Manhole	S155N049	24.50	147,000	Storm Drain	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
32 ¹	23-Feb-22	8:30 AM	1820 E 23rd St	Manhole	S156G049	24.00	216,000	Dobbs Branch	Wet Weather
33 ¹	23-Feb-22	8:30 AM	2001 S Kelley St	Manhole	S156G030	24.00	85,500	Dobbs Branch	Wet Weather
34	23-Feb-22	8:30 AM	3605 Monte Vista Dr	Manhole	S157H050	24.25	72,500	Storm Drain	Wet Weather
35	23-Feb-22	8:45 AM	0 Aim Way	Manhole	S157H046	24.00	144,000	Storm Drain	Wet Weather
36	23-Feb-22	9:00 AM	Terrace Ave & Young Ave	Manhole	S136A130	24.17	217,500	Tennessee River	Wet Weather
37	23-Feb-22	9:00 AM	3812 Provence	Manhole	S157H603	24.00	72,000	Storm Drain	Wet Weather
38	23-Feb-22	9:15 AM	1111 Plaza Drive	Manhole	S109M084	24.00	216,000	Storm Drain	Wet Weather
39	23-Feb-22	9:30 AM	3857 Birmingham Dr	Manhole	S118D128	23.50	282,000	Tennessee River	Wet Weather
40	23-Feb-22	9:54 AM	5302 Old Mission Rd	Manhole	S157K058	23.43	1,406	Storm Drain	Wet Weather
41	23-Feb-22	10:00 AM	1001 Dartmouth St	Manhole	S127P060	23.50	282,000	Storm Drain	Wet Weather
42 ¹	23-Feb-22	10:15 AM	4610 Kemp Drive	Manhole	S157C065	22.92	75,350	Storm Drain	Wet Weather
43	23-Feb-22	10:30 AM	3505 McArthur Avenue	Manhole	S137G032	22.17	32,750	Storm Drain	Wet Weather
44	23-Feb-22	10:45 AM	Wilcox Blvd and Shallowford Rd	Manhole	S147F015	25.75	386,250	South Chickamauga Creek	Wet Weather
45	23-Feb-22	10:45 AM	1022 Shallowford Rd	Manhole	S147G104	21.50	193,500	South Chickamauga Creek	Wet Weather
46	23-Feb-22	10:50 AM	3728 Wilcox Blvd	Manhole	S147B301	23.00	6,900	Storm Ditch	Wet Weather
47 ¹	23-Feb-22	11:00 AM	1610 Elm St	Manhole	S118E055	5.00	181,500	Tennessee River	Wet Weather
48 ¹	23-Feb-22	11:15 AM	6695 Hickory Brook Dr	Manhole	S138M082	21.75	66,750	Storm Drain	Wet Weather
49	23-Feb-22	11:15 AM	5300 Pinelawn Ave	Manhole	S157K071	22.17	66,500	Land*	Wet Weather
50	23-Feb-22	11:45 AM	929 Riverside Dr (Citico PS)	Manhole	S136P008	34.25	565,125	Tennessee River	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
51 ¹	23-Feb-22	12:30 PM	2914 Hamill Rd	Manhole	S110F014	23.50	59,100	North Chickamauga Creek	Wet Weather
52	23-Feb-22	12:40 PM	1722 Strawberry Ln	Manhole	S110I450	22.83	34,250	Storm Drain	Wet Weather
53 ¹	23-Feb-22	1:15 PM	640 Lupton Dr	Manhole	S118G087	20.50	153,750	Storm Ditch	Wet Weather
54	23-Feb-22	1:30 PM	31 S Germantown Rd	Manhole	S157A064	18.92	25,375	Storm Drain	Wet Weather
55	24-Feb-22	8:26 AM	5704 Grubb Road	Other	UNK ²	UNK ²	100	Storm Ditch	Wet Weather
56	24-Feb-22	10:40 AM	1205 Nellie St	Manhole	S147A053	1.83	550	Storm Drain	Blockage - Roots
57	04-Mar-22	1:15 PM	1334 Cloverdale Cr	Main Line	UNK ²	UNK ²	20	Structure*	Construction/Maintenance Related
58	04-Mar-22	2:00 PM	143 Baylor School Rd	Manhole	S126G022	UNK ²	25,000	Storm Ditch	Wet Weather
59	09-Mar-22	7:30 AM	1511 Riverview Rd	Other	UNK ²	49.50	436,500	Tennessee River	Defect(s)
60	09-Mar-22	7:30 AM	1511 Riverview Rd	Other	UNK ²	49.50	292,500	Tennessee River	Defect(s)
61	09-Mar-22	8:00 AM	929 Riverside Dr (Citico PS)	Manhole	S136P904	4.25	1,275	Tennessee River	Wet Weather
62	09-Mar-22	8:25 AM	End of MLK BLVD (East Bank)	Manhole	S135O547	1.42	70,000	Tennessee River	Wet Weather + Construction at MBEC
63	09-Mar-22	8:30 AM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	0.75	12,000	Tennessee River	Wet Weather + Construction at MBEC
64	15-Mar-22	11:30 AM	1301 Terry Ln	Manhole	S109D126	3.00	360	Storm Ditch	Blockage - Gravel
65	17-Mar-22	1:30 PM	1426 Williams Rd	Main Line	UNK ²	0.00	20	Structure*	Construction/Maintenance Related
66	20-Mar-22	12:00 PM	3424 Crompton St.	Manhole	S118K065	2.00	120	Land*	Blockage - Trash/Debris
67	21-Mar-22	9:25 AM	7710 Nautical Way	Manhole	S129K029	1.25	750	Storm Ditch	Blockage - Trash/Debris
68	23-Mar-22	9:15 AM	1022 Shallowford Rd	Manhole	S147G104	28.00	126,000	South Chickamauga Creek	Wet Weather
69	23-Mar-22	9:40 AM	5302 Old Mission Rd	Manhole	S157K058	3.17	9,500	Storm Drain	Wet Weather
70 ¹	23-Mar-22	9:50 AM	640 Lupton Dr	Manhole	S118G087	2.67	4,800	Storm Ditch	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
71	23-Mar-22	10:00 AM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	4.17	433,000	Tennessee River	Wet Weather + Construction at MBEC
72	23-Mar-22	10:05 AM	End of MLK BLVD (East Bank)	Manhole	S135O547	1.67	85,000	Tennessee River	Wet Weather + Construction at MBEC
73	23-Mar-22	10:15 AM	929 Riverside Dr (Citico PS)	Other	UNK ²	5.00	63,000	Tennessee River	Wet Weather
74	23-Mar-22	2:30 PM	3910 Juandale Trail (F Branch PS)	Manhole	S137N004	1.50	45,000	South Chickamauga Creek	Wet Weather

¹ Common cause, within 500 yards of separate event.

² This information was not available at time of reporting.

* Did not reach waters of the United States

3.0 Moccasin Bend EC 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, 2022 through March 31, 2022.

4.0 CSO Outfall Discharges

For the reporting period of January 1, 2022 through March 31, 2022, 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.

Table 4-1
Quarterly CSO Outfall Discharge Report

January 1, 2022 – March 31, 2022						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
01-Jan-22	5:32 PM	Central Ave CSO (002)	33.89	18.225281	Chattanooga Creek	Rain Event
01-Jan-22	10:21 PM	Citico CSO (004)	5.96	2.532532	Tennessee River	Rain Event
01-Jan-22	10:30 PM	19th St CSO (008)	4.91	1.294368	Chattanooga Creek	Rain Event
01-Jan-22	10:46 PM	Tremont CSO (005)	4.82	0.644749	Tennessee River	Rain Event
01-Jan-22	10:55 PM	Carter St CSO (009)	4.48	3.871013	Tennessee River	Rain Event
01-Jan-22	11:19 PM	Citico CSO (004)	10.4	8.545627	Tennessee River	Rain Event
01-Jan-22	11:26 PM	ML King CSO (007)	33.78	1.633633	Tennessee River	Rain Event
01-Jan-22	11:54 PM	Williams St CSO (003)	34.8	2.825214	Chattanooga Creek	Rain Event
02-Jan-22	12:49 AM	Ross's Landing CSO (006)	2.33	1.296708	Tennessee River	Rain Event
02-Jan-22	10:43 PM	Tremont CSO (005)	0.75	0.037108	Tennessee River	Rain Event
03-Jan-22	12:22 AM	Carter St CSO (009)	6.52	4.919327	Tennessee River	Rain Event
03-Jan-22	12:55 AM	19th St CSO (008)	1.7	0.033853	Tennessee River	Rain Event
16-Jan-22	10:25 AM	Tremont CSO (005)	2.23	0.145179	Tennessee River	Rain Event
16-Jan-22	11:14 AM	Carter St CSO (009)	5.83	2.345784	Tennessee River	Rain Event
16-Jan-22	11:15 AM	19th St CSO (008)	1.33	0.051952	Tennessee River	Rain Event
16-Jan-22	12:49 PM	Central Ave CSO (002)	41.65	3.645611	Chattanooga Creek	Rain Event
16-Jan-22	1:30 PM	ML King CSO (007)	9.38	0.256702	Tennessee River	Rain Event
03-Feb-22	1:24 AM	Tremont CSO (005)	9.41	0.868032	Tennessee River	Rain Event
03-Feb-22	1:27 AM	Carter St CSO (009)	14.91	9.392869	Tennessee River	Rain Event
03-Feb-22	3:15 AM	ML King CSO (007)	33.41	1.955633	Tennessee River	Rain Event
03-Feb-22	4:01 AM	Central Ave CSO (002)	27.98	16.168140	Chattanooga Creek	Rain Event
03-Feb-22	5:01 PM	Citico CSO (004)	13.37	7.337884	Tennessee River	Rain Event
03-Feb-22	5:10 PM	19th St CSO (008)	2.63	0.461596	Tennessee River	Rain Event
17-Feb-22	7:59 PM	Tremont CSO (005)	2.03	0.940175	Tennessee River	Rain Event
17-Feb-22	8:11 PM	Ross's Landing CSO (006)	0.85	3.674086	Tennessee River	Rain Event

Table 4-1
Quarterly CSO Outfall Discharge Report

January 1, 2022 – March 31, 2022						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
17-Feb-22	8:12 PM	19th St CSO (008)	2.78	0.906968	Tennessee River	Rain Event
17-Feb-22	8:14 PM	Carter St CSO (009)	4.9	4.431008	Tennessee River	Rain Event
17-Feb-22	8:19 PM	ML King CSO (007)	6.05	1.394484	Tennessee River	Rain Event
17-Feb-22	8:43 PM	Citico CSO (004)	4.33	1.445586	Tennessee River	Rain Event
17-Feb-22	9:31 PM	Central Ave CSO (002)	18.28	4.879023	Chattanooga Creek	Rain Event
22-Feb-22	11:22 PM	Carter St CSO (009)	11.12	18.571255	Tennessee River	Rain Event
22-Feb-22	11:24 PM	Tremont CSO (005)	14.6	5.832050	Tennessee River	Rain Event
22-Feb-22	11:57 PM	ML King CSO (007)	54.26	5.081420	Tennessee River	Rain Event
23-Feb-22	12:02 AM	19th St CSO (008)	8.55	3.851406	Tennessee River	Rain Event
23-Feb-22	12:22 AM	Citico CSO (004)	37.1	39.179679	Tennessee River	Rain Event
23-Feb-22	12:30 AM	Ross's Landing CSO (006)	7.87	14.258762	Tennessee River	Rain Event
23-Feb-22	12:40 AM	Central Ave CSO (002)	7.25	22.068208	Chattanooga Creek	Rain Event
23-Feb-22	1:13 AM	Williams St CSO (003)	80.18	8.258744	Chattanooga Creek	Rain Event
23-Feb-22	11:11 PM	19th St CSO (008)	0.18	0.000947	Tennessee River	Rain Event
27-Feb-22	2:34 AM	Tremont CSO (005)	2.65	0.103779	Tennessee River	Rain Event
27-Feb-22	3:16 AM	19th St CSO (008)	0.65	0.010426	Tennessee River	Rain Event
27-Feb-22	3:17 AM	ML King CSO (007)	16.85	0.596566	Tennessee River	Rain Event
27-Feb-22	6:16 AM	Williams St CSO (003)	11.07	0.848021	Chattanooga Creek	Rain Event
08-Mar-22	11:25 PM	Tremont CSO (005)	2.8	0.384087	Tennessee River	Rain Event
08-Mar-22	11:31 PM	Carter St CSO (009)	4.88	3.765393	Tennessee River	Rain Event
08-Mar-22	11:53 PM	19th St CSO (008)	3.13	0.353411	Tennessee River	Rain Event
08-Mar-22	11:57 PM	ML King CSO (007)	15.58	0.935981	Tennessee River	Rain Event
09-Mar-22	1:18 AM	Central Ave CSO (002)	14.3	5.788416	Chattanooga Creek	Rain Event
09-Mar-22	3:44 AM	Citico CSO (004)	3.9	1.830749	Tennessee River	Rain Event
16-Mar-22	5:06 AM	Tremont CSO (005)	0.68	0.033594	Tennessee River	Rain Event

**Table 4-1
Quarterly CSO Outfall Discharge Report**

January 1, 2022 – March 31, 2022						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
16-Mar-22	6:06 AM	Carter St CSO (009)	2.87	1.590065	Tennessee River	Rain Event
16-Mar-22	6:28 AM	19th St CSO (008)	0.23	0.004773	Tennessee River	Rain Event
16-Mar-22	8:06 AM	ML King CSO (007)	5.4	0.063400	Tennessee River	Rain Event
16-Mar-22	9:46 AM	Central Ave CSO (002)	6.92	0.689601	Chattanooga Creek	Rain Event
23-Mar-22	3:05 AM	Tremont CSO (005)	3.37	0.816878	Tennessee River	Rain Event
23-Mar-22	3:10 AM	Carter St CSO (009)	5.88	4.173708	Tennessee River	Rain Event
23-Mar-22	3:33 AM	19th St CSO (008)	2.95	0.738265	Tennessee River	Rain Event
23-Mar-22	3:41 AM	ML King CSO (007)	12.68	1.247394	Tennessee River	Rain Event
23-Mar-22	4:21 AM	Ross's Landing CSO (006)	1.68	2.128994	Tennessee River	Rain Event
23-Mar-22	4:27 AM	Central Ave CSO (002)	18.35	9.397931	Chattanooga Creek	Rain Event
23-Mar-22	5:20 AM	Citico CSO (004)	4.5	2.219719	Tennessee River	Rain Event
31-Mar-22	3:09 AM	Tremont CSO (005)	0.48	0.088274	Tennessee River	Rain Event
31-Mar-22	3:51 AM	Carter St CSO (009)	2.08	1.305448	Tennessee River	Rain Event
31-Mar-22	4:24 AM	19th St CSO (008)	0.07	0.000440	Tennessee River	Rain Event
31-Mar-22	8:07 AM	Central Ave CSO (002)	1.7	0.020238	Chattanooga Creek	Rain Event