

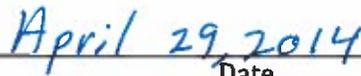
# City of Memphis

## Quarterly Report January 1 through March 31, 2014

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.



Bobby D. Allen, P.E.



Date

# Quarterly Report

## First Quarter 2014

On September 20, 2012, the United States District Court for the Western District of Tennessee entered a Consent Decree between the City of Memphis and the United States, the State of Tennessee, and the Tennessee Clean Water Network.

To fulfill the reporting requirements defined in Section VIII.24 of the Consent Decree, the City of Memphis has prepared this Quarterly Report, which summarizes all SSO events occurring from January 1 through March 31, 2014. The table included in this report provides the date, time, location, source, estimated duration, estimated volume, receiving water (if any), and cause of the SSO event. An "SSO event" means the total time period SSOs occur at the same location and due to the same cause(s).

Also included in this report is an update on the Color Study of the Stiles Wastewater Treatment Plant effluent.

### 1. Color Study

The City, through their contract with the University of Memphis, has continued implementing the TDEC-approved color study during this reporting period. Weekly sampling and analysis of true and apparent color, which was initiated in January 2013, was completed in February 2014. Statistical analyses will help determine relationships between true and apparent color, river elevation, and WWTP discharge as well as environmental variables. Since the last reporting period, the final two on-site surveys were conducted with a total of 17 participants. A total of 88 people participated over the 12-month survey duration. The results from the on-site visual assessments are being analyzed for participant responses. Stimuli for the second Mechanical Turk survey has been selected and uploaded to the Mechanical Turk website to assess the human perception of color change from the upstream and downstream wildlife photos. Wildlife photo property statistical analyses are being performed on the upstream and downstream photo pairs. The purpose of this project component is to determine if there is a correlation between the perceptions of the water color in the context of environmental variables. It is anticipated that the study will continue to be implemented during the upcoming reporting period in compliance with the Scope of Work as approved by TDEC.

City of Memphis - Sanitary Sewer Overflow Report  
January 1 through March 31, 2014

\* Source Definitions: C/O - Cleanout, M/H - Manhole, M/L - Main Line

Location - Address	Date and Time	Cause	Estimated Volume (gallons)	Source	Estimated Duration (hours)	Receiving stream (if any)
4133 BARNSTABLE COVE	1/1/2014 11:58	GREASE	540	M/L	1.8	Unnamed Trib to Nonconnah Creek
3463 WINGOOD CIR	1/2/2014 8:43	GREASE	360	M/L	1.2	
385 S SECOND ST	1/2/2014 10:09	GREASE/PAPER	8,250	M/L	27.5	Unnamed Trib to Mississippi River
684 CENTER DR	1/2/2014 10:32	BROKE DOWN	50	6"	6.6	
2991 DIRECTORS ROW DR	1/2/2014 15:29	GREASE/RAGS	300	M/L	1.0	Unnamed Trib to Days Creek to Nonconnah Creek
7124 BEARTOWN COVE	1/3/2014 19:24	GREASE	720	M/L	3.7	Unnamed Trib to Fletcher Creek to Wolf River
2486 COUNTRY TRAIL DR	1/3/2014 19:31	GREASE	2,100	M/L	3.5	Unnamed Trib to Fletcher Creek to Wolf River
BRIARBERRY WESTERN PARK	1/4/2014 21:20	GREASE	210	M/H	0.8	
4052 CEDAR TRACE CV	1/4/2014 21:33	GREASE	150	M/L	0.4	
3541 MEDITERRANEAN DR	1/8/2014 13:11	GREASE	840	M/L	1.4	Unnamed Trib to Ten Mile Bayou to Nonconnah Creek
1875 CARLYN COVE	1/8/2014 19:00	GREASE	480	M/L	1.5	Unnamed Trib to Fletcher Creek to Wolf River
1557 JACKSON AVE	1/8/2014 20:23	GREASE	600	M/L	1.8	
1047 FORREST AVE	1/9/2014 10:12	GREASE	690	M/L	2.3	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
4160 SIDNEY RD	1/9/2014 10:28	GREASE	720	M/L	2.4	Unnamed Trib to Nonconnah Creek
117 UNION AVE	1/9/2014 12:28	GREASE	390	M/L	1.3	
1324 E RAINES RD	1/10/2014 14:53	GREASE	960	M/L	3.2	Unnamed Trib to Nonconnah Creek
6593 SANTAOLINA DR	1/11/2014 10:54	GREASE	1,860	M/L	3.6	Unnamed Trib to Fletcher Creek to Wolf River
3016 CLEARBROOK ST	1/11/2014 11:22	GREASE	1,500	M/L	1.2	Unnamed Trib to Nonconnah Creek
1250 RYANWOOD DR	1/11/2014 14:50	GREASE/RAGS	1,380	M/L	2.3	Unnamed Trib to McKellar Lake to Mississippi River
717 GRACEWOOD ST	1/11/2014 15:18	GREASE	14,040	M/L	23.4	Unnamed Trib to Wolf River
3715 E SHELBY DR	1/12/2014 21:14	GREASE	840	M/L	1.4	Unnamed Trib to Nonconnah Creek
6969 CRESTRIDGE DR	1/13/2014 9:47	GREASE/PAPER	960	M/L	3.2	Unnamed Trib to Nonconnah Creek
8754 FOREST BREEZE DR	1/14/2014 10:20	GREASE/PAPER	660	M/L	2.2	Unnamed Trib to Wolf River
1085 FORREST AVE	1/14/2014 11:44	BROKE DOWN	204	M/L	0.8	
4230 WINCHESTER RD	1/14/2014 13:48	GREASE/RAGS	1,530	M/L	5.1	Unnamed Trib to Nonconnah Creek
1221 BROWER COVE	1/14/2014 15:01	GREASE/ROOTS	11,640	M/L	19.4	Unnamed Trib to Cypress Creek to Wolf River
4164 DOUBLE TREE ST	1/14/2014 16:40	GREASE	5,070	M/L	16.9	Unnamed Trib to Nonconnah Creek
3505 COUNTY GATE RD	1/15/2014 14:08	DEBRIS	1,740	M/L	2.9	Unnamed Trib to Nonconnah Creek
GEMINI TITAN	1/15/2014 16:19	GREASE	630	M/L	2.1	
847 ANNIE PL	1/16/2014 11:37	GREASE/ROCKS/SAND	270	M/L	0.9	
2986 BEECHRIDGE COVE	1/17/2014 10:31	DRIED OUT/GREASE/ROOTS	1,290	M/L	4.3	Unnamed Trib to Wolf River
1167 EFFIE RD	1/17/2014 14:09	GREASE/SAND/DEBRIS	750	M/L	2.5	Unnamed Trib to Nonconnah Creek
158 PERKINS EXT	1/19/2014 14:24	GREASE/ROOTS	780	M/L	2.6	Unnamed Trib to Wolf River
383 MADISON AV	1/20/2014 12:34	GREASE/SAND/DEBRIS	990	M/L	5.1	
1722 AUTUMN AVE	1/20/2014 14:35	GREASE	360	M/L	1.7	
7784 OCTOBER ROSE COVE	1/20/2014 14:41	GREASE/ROOTS	4,350	M/L	3.0	Unnamed Trib to Nonconnah Creek
4639 PERCY RD	1/21/2014 9:39	GREASE/PAPER	1,920	M/L	3.2	Unnamed Trib to Horn Lake to Mississippi River
6726 GARDEN OAKS DR	1/21/2014 22:49	GREASE/PAPER	9,660	M/L	16.1	Unnamed Trib to Wolf River
3015 FRAYSER RALEIGH RD	1/22/2014 7:53	GREASE/ROOTS	3,660	M/L	6.1	Unnamed Trib to Wolf River
1136 FIELDS DR	1/22/2014 11:57	GREASE	22,000	M/L	73.3	Unnamed Trib to Nonconnah Creek
4240 HICKORY HILL RD	1/25/2014 11:36	GREASE	8,700	M/L	2.9	Unnamed Trib to Johns Creek to Nonconnah Creek
3686 WINDCREST DR	1/27/2014 9:11	UNDEFINED STOPPAGE	1,560	4 to 6 Lateral	2.6	Unnamed Trib to Days Creek to Nonconnah Creek
ALMO GOODLETT	1/27/2014 14:31	GREASE/RAGS	1,200	M/L	2.0	Unnamed Trib to Nonconnah Creek
3081 S PERKINS RD	1/28/2014 11:06	GREASE	7,920	M/L	26.4	Unnamed Trib to Nonconnah Creek
1302 ROSECLIFF AVE	1/29/2014 12:24	GREASE	1,080	M/L	1.8	Unnamed Trib to Horn Lake to Mississippi River
3466 FOX HUNT DR	1/29/2014 14:52	GREASE/RAGS	6,120	M/L	20.4	Unnamed Trib to Johns Creek to Nonconnah Creek
4646 ALMO AVE	1/29/2014 15:22	GREASE	960	M/L	1.6	Unnamed Trib to Nonconnah Creek
1862 WARNER DR	1/30/2014 9:20	GREASE	720	M/L	2.4	
1085 FORREST AVE	1/30/2014 12:06	BROKE DOWN	340	M/L	1.9	
3207 COOKIE COVE	1/30/2014 13:08	GREASE	480	M/L	1.6	Unnamed Trib to Johns Creek to Nonconnah Creek
5489 EMERALD HILLS DR	1/30/2014 19:00	GREASE	660	M/L	1.1	Unnamed Trib to Johns Creek to Nonconnah Creek

Location - Address	Date and Time	Cause	Estimated Volume (gallons)	Source	Estimated Duration (hours)	Receiving stream (if any)
CHELSEA MANASSAS	1/31/2014 10:13	GREASE/RAGS	780	M/L	2.6	Unnamed Trib to Marble Bayou to Wolf River
595 EXCHANGE	2/1/2014 12:11	GREASE/RAGS	1,080	M/L	3.6	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
2765 S PERKINS RD	2/3/2014 7:08	GREASE	870	M/L	2.9	Unnamed Trib to Noncannah Creek
5238 SILVER STONE CV	2/3/2014 9:13	GREASE	780	M/L	1.3	Unnamed Trib to Noncannah Creek
1423 TUTWILER AVE	2/3/2014 13:08	GREASE	2,992	M/L	1.6	
374 MILL AVE	2/4/2014 13:45	GREASE	1,030	M/L	1.7	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
575 N WHITE STATION RD	2/4/2014 15:07	GREASE	50	M/L	2.4	
192 SAINT ALBANS FAIRWAY ST	2/4/2014 15:17	FLOODED	4,039	M/L	1.4	
2234 MADISON AVE	2/4/2014 15:58	FLOODED	5,266	M/L	4.2	
1449 FAXON AVE	2/4/2014 16:51	GREASE	790	M/L	2.7	
1433 FAXON AVE	2/4/2014 17:54	GREASE	2,094	M/L	2.5	
705 CYPRESS DR	2/4/2014 20:32	FLOODED	4,800	M/L	16.7	
822 MAYWOOD RD	2/5/2014 8:12	DRIED OUT/GREASE/PAPER	540	M/L	1.4	Unnamed Trib to Wolf River
1073 N WILLET ST	2/5/2014 8:47	GREASE/RAGS	600	M/L	2.0	Unnamed Trib to Cypress Creek to Wolf River
1911 NETHERWOOD AVE	2/5/2014 10:32	GREASE	603	M/L	7.4	
3089 WHITNEY AVE	2/5/2014 12:17	GREASE	2,310	M/L	7.7	Unnamed Trib to Wolf River
1414 AGNES PL	2/6/2014 10:40	GREASE/RAGS	748	M/L	50.9	
3325 UNIVERSITY ST	2/7/2014 10:21	GREASE	14,190	M/L	47.3	Unnamed Trib to Loosahatchie River
4611 DOUBLE TREE ST	2/7/2014 12:05	GREASE/ROOTS	17,700	M/L	29.5	Unnamed Trib to Horn Lake to Mississippi River
458 JOSEPHINE ST	2/9/2014 13:15	GREASE	1,110	M/L	3.7	Unnamed Trib to Wolf River
4996 PHEASANT RUN LN	2/11/2014 10:29	GREASE	2,220	M/L	7.4	Unnamed Trib to Noncannah Creek
2420 N GERMANTOWN PKY	2/11/2014 13:34	GREASE	1,650	M/L	5.4	Unnamed Trib to Fletcher Creek to Wolf River
JACKSON MEAGHER	2/11/2014 19:37	GREASE/RAGS	960	M/L	1.6	Unnamed Trib to Fletcher Creek to Wolf River
711 AYERS ST	2/12/2014 9:25	GREASE	2,190	M/L	7.3	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
682 GREYSTONE	2/12/2014 13:58	GREASE/ROOTS	6,150	M/L	20.5	Unnamed Trib to Fletcher Creek to Wolf River
6111 RIDGEWAY RD	2/13/2014 14:19	GREASE	1,350	M/L	4.5	Unnamed Trib to Johns Creek to Noncannah Creek
1505 BUTTERWORTH RD	2/15/2014 15:31	GREASE/ROOTS	540	M/L	0.9	Unnamed Trib to Days Creek to Noncannah Creek
495 E ESSEX AVE	2/17/2014 13:18	GREASE	8,220	M/L	27.8	Unnamed Trib to Mallory Bayou to Noncannah Creek
5750 BALLEENMOOR DR	2/17/2014 14:57	GREASE	2,040	M/L	3.4	Unnamed Trib to Johns Creek to Noncannah Creek
2074 CRESTWAY A DR	2/18/2014 10:40	GREASE	390	M/L	1.3	Unnamed Trib to Fletcher Creek to Wolf River
3871 HOMEWOOD COVE	2/18/2014 13:50	ROOTS/RAGS	630	M/L	2.2	Unnamed Trib to Wolf River
2065 LEICHESTER LN	2/19/2014 7:27	GREASE/ROOTS	3,150	M/L	2.1	Unnamed Trib to Fletcher Creek to Wolf River
2600 COLONIAL TOWERS DR	2/19/2014 9:43	GREASE	5,700	M/L	3.8	Unnamed Trib to Fletcher Creek to Wolf River
1800 MUNSON RD	2/20/2014 8:09	GREASE/ROOTS	1,200	M/L	2.0	Unnamed Trib to Fletcher Creek to Wolf River
2404 E END ROW	2/20/2014 10:38	GREASE/RAGS	840	M/L	1.4	Unnamed Trib to Fletcher Creek to Wolf River
4045 SUMMER AVE	2/21/2014 13:16	GREASE	900	M/L	1.5	Unnamed Trib to Harrison Creek to Wolf River
3523 WALKER AVE	2/23/2014 13:43	GREASE	2,100	M/L	3.5	Unnamed Trib to Black Bayou to Noncannah Creek
3519 WALKER AVE	2/23/2014 15:03	GREASE	1,320	M/L	2.2	Unnamed Trib to Black Bayou to Noncannah Creek
3448 STEELE ST	2/25/2014 11:43	GREASE/RAGS	660	M/L	1.1	Unnamed Trib to Wolf River
3637 HICKORY HILL RD	2/27/2014 9:38	GREASE/RAGS	1,140	M/L	1.9	
3433 STONE ST	2/27/2014 16:23	GREASE/SAND/DEBRIS	763	4 to 6 Lateral	3.9	
1531 MONROE AVE	3/2/2014 17:20	GREASE	1,496	M/L	1.7	
2234 MADISON AVE	3/2/2014 21:10	FLOODED	600	M/L	0.9	
3637 HICKORY HILL RD	3/3/2014 11:28	GREASE/RAGS	7,830	M/L	26.1	Unnamed Trib to Johns Creek to Noncannah Creek
1275 CENTRAL AVE	3/3/2014 11:30	FLOODED	3,052	M/L	23.1	
1635 VINTON AVE	3/3/2014 13:59	GREASE	1,496	M/L	0.5	
1293 CENTRAL AVE	3/3/2014 17:04	FLOODED	860	M/L	17.5	
119 DEVON WAY	3/3/2014 18:28	DEBRIS	640	BASEMENT	15.4	
1429 MADISON AVE	3/4/2014 11:25	BROKE DOWN	603	M/L	6.0	
6085 APPLE TREE DR	3/5/2014 9:50	GREASE/RAGS	840	M/L	1.4	Unnamed Trib to Noncannah Creek
245 GRACEWOOD ST	3/7/2014 8:20	GREASE	450	M/L	1.5	Unnamed Trib to Wolf River
NEELY SHELBY	3/7/2014 22:23	GREASE	360	M/L	0.6	Unnamed Trib to South Cypress Creek to McKellar Lake
4611 DOUBLE TREE ST	3/10/2014 10:32	GREASE/RAGS	720	M/L	1.3	Unnamed Trib to Horn Lake to Mississippi River
6491 ELMORE RD	3/10/2014 13:49	GREASE/PAPER	1,050	M/L	3.6	Unnamed Trib to Fletcher Creek to Wolf River
1412 OAKWOOD DR	3/11/2014 9:59	GREASE/PAPER	2,400	M/L	1.6	Unnamed Trib to Noncannah Creek

Location - Address	Date and Time	Cause	Estimated Volume (gallons)	Source	Estimated Duration (hours)	Receiving stream (if any)
2461 DEMOCRAT RD	3/12/2014 10:23	GREASE	500	M/L	1.9	Unnamed Trib to Nonconnah Creek
9256 S FAIRMONT CIR	3/12/2014 10:27	GREASE	450	M/L	1.5	Unnamed Trib to Nonconnah Creek
TIMBER CREEK TRINITY	3/12/2014 20:01	GREASE	360	M/L	1.2	Unnamed Trib to Wolf River
3116 MAPLE HILL DR	3/13/2014 16:46	GREASE	1,620	M/L	2.8	Unnamed Trib to Nonconnah Creek
1894 BARTLETT RD	3/15/2014 11:18	GREASE/RAGS	1,380	M/L	2.3	Unnamed Trib to Fletcher Creek to Wolf River
3159 RHINE LN	3/15/2014 17:36	GREASE	1,200	M/L	2.0	Unnamed Trib to Nonconnah Creek
3993 OLD BROWNSVILLE	3/18/2014 14:17	GREASE	3,840	M/L	6.4	Unnamed Trib to Loosahatchie River
3716 WINCHESTER RD	3/18/2014 15:24	GREASE	1,320	M/L	2.2	Unnamed Trib to Nonconnah Creek
1378 PAULLUS DR	3/18/2014 16:12	GREASE/RAGS	3,360	M/L	5.6	Unnamed Trib to Loosahatchie River
3844 KERWOOD AVE	3/19/2014 0:00	GREASE	900	M/L	3.0	Unnamed Trib to Wolf River
4607 BUFFER DR	3/19/2014 12:28	GREASE	720	M/L	1.2	Unnamed Trib to Wolf River
4427 BEATTY RD	3/19/2014 12:54	GREASE	300	M/L	1.0	Unnamed Trib to Days Creek to Nonconnah Creek
364 MILL AVE	3/20/2014 10:22	ROOTS/GREASE	1,800	M/L	1.5	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
3282 STARS DALE ST	3/22/2014 8:29	GREASE/SAND	960	M/L	1.6	Unnamed Trib to Nonconnah Creek
951 FORD PL	3/23/2014 11:18	GREASE/SAND	1,800	M/L	3.0	Unnamed Trib to Loosahatchie River
366 MILL AVE	3/23/2014 19:55	GREASE	3,480	M/L	2.9	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
5315 SANTA MONICA ST	3/23/2014 19:55	GREASE	1,260	M/L	2.1	Unnamed Trib to Horn Lake to Mississippi River
4012 THOMAS ST	3/24/2014 11:15	GREASE/RAGS	690	M/L	2.3	Unnamed Trib to Loosahatchie River
1471 GENESIS CIR	3/25/2014 11:58	GREASE	4,860	M/L	8.1	Unnamed Trib to Cane Creek to Nonconnah
2614 JACKSON AVE	3/25/2014 12:27	GREASE	840	M/L	2.8	Unnamed Trib to Cypress Creek to Wolf River
3598 N LLOYD CIR	3/25/2014 14:04	GREASE	3,360	M/L	5.6	Unnamed Trib to Wolf River
3860 E HOLMES RD	3/26/2014 8:41	GREASE/RAGS	600	M/L	2.0	Unnamed Trib to Johns Creek to Nonconnah Creek
4816 BRADFIELD RUN	3/26/2014 18:11	GREASE	960	M/L	1.6	Unnamed Trib to Nonconnah Creek
287 MADISON AVE	3/27/2014 7:21	GREASE/RAGS	450	M/L	1.5	Unnamed Trib to Gayoso Bayou to Wolf River
1085 FORREST AVE	3/27/2014 18:14	BROKE DOWN	600	M/L	1.8	
259 GLENCOE RD	3/28/2014 8:24	GREASE/RAGS	2,850	M/L	1.9	Unnamed Trib to Nonconnah Creek
571 E MCKELLAR AVE	3/28/2014 10:47	GRAVEL/GREASE	1,860	M/L	3.1	
119 DEVON WAY	3/29/2014 9:32	GREASE/PAPER	600	WYE	1.2	
318 KLINKE AVE	3/29/2014 12:00	COLLAPSED PIPE	4.5M	M/L	93.0	Unnamed Trib to Loosahatchie River to Mississippi River
2417 JOHANNA DR	3/29/2014 14:36	GREASE	1,440	M/L	2.4	Unnamed Trib to Nonconnah Creek
4822 RALEIGH MILLINGTON RD	3/31/2014 10:51	GREASE	24,000	M/L	23.6	Unnamed Trib to Loosahatchie River
PONTOTOC SECOND	3/31/2014 11:12	GREASE	960	M/L	1.8	Unnamed Trib to Mississippi River