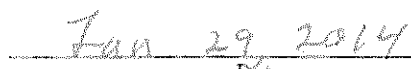


# City of Memphis

## Quarterly Report October 1 through December 31, 2013

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

## Fourth Quarter 2013

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 October 1 through December 31, 2013. 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. Sampling and analysis of true and apparent color, which was initiated in January 2013, was continued on a weekly basis throughout the reporting period. Since the last reporting period, three additional participant surveys have been conducted with a total of 24 people participating. The results from the Mechanical Turk survey that assessed the human perception of color change were analyzed, and perception differentiation was identified. Leaders from industries were briefed a second time on the study and their questions were answered. Environmental condition data has been processed and entered into a queryable database for analysis. 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  
 October 1 through December 31, 2013

\* Source: Detectors C/O - Channel, M/L - Manhole, M/L - Man Line

| Location - Address                  | Date and Time    | Cause                  | Estimated Volume (gallons) | Source | Estimated Duration (Hours) | Receiving Stream (if any)                          |
|-------------------------------------|------------------|------------------------|----------------------------|--------|----------------------------|--|
| 2400 NEW BRUNSWICK RD               | 10/7/2013 13:32  | GREASE                 | 390                        | M/L    | 1.3                        | Unnamed Trib to Fletcher Creek to Wolf River       |
| 2420 HARBOR AVE                     | 10/8/2013 13:34  | MAINTENANCE            | 10000-10100 (estimated)    | M/L    | 115.6                      | Unnamed Trib to Gayoso Bayou to Wolf River         |
| GALLOWAY MCLEAN                     | 10/9/2013 16:05  | GREASE                 | 420                        | M/L    | 1.4                        | Unnamed Trib to Fletcher Creek to Wolf River       |
| 6682 MACON RD                       | 10/10/2013 9:07  | GREASE/RAGS            | 450                        | M/L    | 1.5                        | Unnamed Trib to Fletcher Creek to Wolf River       |
| 3331 SCOTLAND RD                    | 10/10/2013 15:33 | GREASE                 | 660                        | M/L    | 2.2                        | Unnamed Trib to Wolf River                         |
| 2600 ELVIS PRESLEY BV               | 10/11/2013 14:53 | DEBRIS                 | 520                        | M/L    | 3.1                        | Unnamed Trib to Cane Creek to Nonconneh Creek      |
| 3545 RIDGE MOUNT RD                 | 10/13/2013 13:59 | GREASE                 | 480                        | M/L    | 0.8                        | Unnamed Trib to Loshatchie River                   |
| 3173 CHRISTINE RD                   | 10/14/2013 13:48 | GREASE/RAGS            | 1,290                      | M/L    | 4.3                        | Unnamed Trib to Harrison Creek to Nonconneh Creek  |
| 1831 SEA ISLE RD                    | 10/18/2013 16:56 | GREASE/RAGS            | 960                        | M/L    | 1.6                        | Unnamed Trib to Nonconneh Creek                    |
| BATTLE CREEK POINTE EAP             | 10/20/2013 15:10 | GREASE                 | 340                        | M/L    | 1.8                        | Unnamed Trib to Wolf River                         |
| 936 N CLAYBROCK ST                  | 10/21/2013 10:43 | GREASE/RAGS            | 480                        | M/L    | 0.8                        | Unnamed Trib to Gayoso Bayou to Wolf River         |
| 2104 BENFORD ST                     | 10/24/2013 20:59 | GREASE                 | 840                        | M/L    | 1.4                        | Unnamed Trib to Nonconneh Creek                    |
| ARCHIE LIBBY LN                     | 10/26/2013 10:33 | RAGS                   | 4,500                      | M/L    | 7.5                        | Unnamed Trib to Loshatchie River                   |
| 2845 VAREDO ST                      | 10/27/2013 16:08 | GREASE                 | 360                        | M/H    | 1.2                        | Unnamed Trib to Wolf River                         |
| AUTUMN & MALVERN                    | 10/29/2013 14:08 | GREASE                 | 1,440                      | M/L    | 2.4                        | Unnamed Trib to Gayoso Bayou to Wolf River         |
| 6077 PRIMACY PKY                    | 10/30/2013 10:12 | GREASE                 | 960                        | M/L    | 1.8                        | Unnamed Trib to Nonconneh Creek                    |
| 2818 HAMMOND ST                     | 10/31/2013 12:55 | GREASE                 | 670                        | M/L    | 0.3                        | Unnamed Trib to Wolf River                         |
| 5204 ZOLAC RD                       | 11/3/2013 8:39   | GREASE/RAGS            | 300                        | M/L    | 1.5                        | Unnamed Trib to Hurricane Creek to Nonconneh Creek |
| 8056 COUNTRY SQUARE LN              | 11/5/2013 11:33  | GREASE                 | 1,890                      | M/L    | 1.8                        | Unnamed Trib to Wolf River                         |
| 581 VANDALIA ST                     | 11/6/2013 8:02   | GREASE/RAGS            | 1,020                      | SIPHON | 1.7                        | Unnamed Trib to Cypress Creek to Wolf River        |
| S OF STAGE RD/N OF I-40/E CP HWY 51 | 11/8/2013 8:09   | SKORE DOWN             | 1,520                      | M/H    | 1.6                        | Unnamed Trib to Wolf River                         |
| DANBY THOMAS I AD                   | 11/8/2013 9:16   | DRIED OUT/GREASE/ROOTS | 1,580                      | M/L    | 2.6                        | Unnamed Trib to Gayoso Bayou to Wolf River         |
| 164 N MCLEAN BLVD                   | 11/8/2013 11:08  | GRAVEL/GREASE          | 1,520                      | M/L    | 2.2                        | Unnamed Trib to Gayoso Bayou to Wolf River         |
| 4059 SOCORRO DR                     | 11/9/2013 9:41   | GREASE/RAGS            | 2,100                      | M/L    | 1.4                        | Unnamed Trib to Loshatchie River                   |
| 301 CHARTER AVE                     | 11/10/2013 17:23 | GREASE/ROOTS           | 10,340                     | M/L    | 17.4                       | Unnamed Trib to Nonconneh Creek                    |
| 4361 N SUMMER CREEK                 | 11/11/2013 20:59 | GREASE                 | 740                        | M/L    | 1.2                        | Unnamed Trib to Nonconneh Creek                    |
| 1128 BROWN AVE                      | 11/13/2013 10:57 | GREASE                 | 1,110                      | M/L    | 3.7                        | Unnamed Trib to Lick Creek to Wolf River           |
| 6830 ROCKINGHAM DR                  | 11/17/2013 12:57 | GREASE/RAGS            | 340                        | M/L    | 1.8                        | Unnamed Trib to Nonconneh Creek                    |
| 2871 BAYWOOD DR                     | 11/18/2013 8:00  | GREASE                 | 960                        | M/L    | 1.6                        | Unnamed Trib to Wolf River                         |
| 6249 KNIGHT ARNOLD                  | 11/18/2013 9:41  | GREASE/RAGS            | 1,500                      | M/L    | 5                          | Unnamed Trib to Nonconneh Creek                    |
| 3167 OLD HORN LAKE                  | 11/19/2013 9:05  | GREASE                 | 780                        | M/L    | 2.6                        | Unnamed Trib to Nonconneh Creek                    |
| LAMAR MCLEAN                        | 11/19/2013 13:10 | GREASE                 | 600                        | M/L    | 1                          | Unnamed Trib to Gayoso Bayou to Wolf River         |
| 4833 E SHORE DR                     | 11/19/2013 14:47 | GREASE                 | 630                        | M/L    | 2.1                        | Cane Lake to Horn Lake Creek                       |
| 1355 E ALCY RD                      | 11/20/2013 11:09 | GREASE/SAND/DEBRIS     | 960                        | M/L    | 3.2                        | Unnamed Trib to Nonconneh Creek                    |
| 4681 GILBERT RD                     | 11/21/2013 9:45  | GREASE                 | 1,760                      | M/L    | 2.9                        | Unnamed Trib to Nonconneh Creek                    |
| 705 E GAGE AVE                      | 11/22/2013 9:59  | GREASE/RAGS            | 960                        | M/L    | 1.6                        | Unnamed Trib to Nonconneh Creek                    |
| 2700 STAGE COACH DR                 | 11/27/2013 13:18 | GREASE                 | 1,780                      | M/L    | 3.8                        | Unnamed Trib to Wolf River                         |
| 3707 CLEARBROOK ST                  | 11/27/2013 18:44 | GREASE                 | 4,740                      | M/L    | 15.8                       | Unnamed Trib to John's Creek to Nonconneh Creek    |
| 565 DRIVER ST                       | 11/29/2013 9:10  | GREASE/ROOTS           | 2,820                      | M/L    | 4.7                        | Unnamed Trib to Mississippi River                  |
| 1867 DRIFTWOOD AVE                  | 12/2/2013 7:19   | GREASE                 | 420                        | M/L    | 2.5                        |  |

| Location - Address        | Date and Time    | Class                  | Estimated Volume (gallons) | Scents  | Estimated Distance (miles) | Receiving Water Body                                 |
|---------------------------|------------------|------------------------|----------------------------|---------|----------------------------|--|
| 59 E NORWOOD AVE          | 12/2/2013 11:57  | GREASE/OIL/DEBRIS      | 120                        | M/L     | 1.5                        |  |
| 4633 RALEIGH LASHANCE RD  | 12/2/2013 13:47  | GREASE                 | 1,080                      | M/L     | 3.8                        | Unnamed Trib to Wolf River                           |
| 375 DAWDOME AVE           | 12/3/2013 8:22   | DRIED OUT              | 1,080                      | M/L     | 3.5                        | Unnamed Trib to Nonconoh Creek                       |
| 4222 TUCKAHOE RD          | 12/3/2013 9:37   | GREASE/RAGS            | 960                        | M/L     | 3.2                        | Unnamed Trib to Wolf River                           |
| 3070 SUMMER AVE           | 12/2/2013 12:10  | GREASE                 | 1,620                      | M/L     | 2.7                        | Unnamed Trib to Cypress Creek to Wolf River          |
| DRIVER ST & WICKS AVE     | 12/3/2013 12:15  | GREASE                 | 750                        | M/L     | 2.5                        | Unnamed Trib to Wolf River                           |
| KNIGHT ARNOLD RIDGEWAY    | 12/3/2013 21:08  | GREASE                 | 660                        | M/L     | 1                          | Unnamed Trib to Nonconoh Creek                       |
| 2119 ALCY                 | 12/4/2013 14:11  | GREASE                 | 180                        | M/L     | 0.6                        |  |
| 6547 GOLDENEYE DR         | 12/4/2013 17:01  | GREASE/RAGS            | 1,080                      | M/L     | 1.8                        | Unnamed Trib to Nonconoh Creek                       |
| 5919 GARDEN RIDGE DR      | 12/5/2013 13:49  | GREASE                 | 270                        | M/L     | 0.9                        |  |
| 46 BELLEAIR DR            | 12/5/2013 8:45   | GREASE/RAGS            | 797                        | M/L     | 3.8                        |  |
| 849 FAXON AVE             | 12/9/2013 12:42  | GREASE/RAGS            | 1,940                      | M/L     | 2                          |  |
| 6934 COUNTRY MANOR DR     | 12/10/2013 11:40 | GREASE                 | 510                        | M/L     | 1.7                        | Unnamed Trib to Fletcher Creek to Wolf River         |
| 5721 S LAKE OAKS DR       | 12/11/2013 9:26  | GREASE/RAGS            | 1,080                      | M/L     | 1.8                        | Unnamed Trib to Fletcher Creek to Wolf River         |
| 5267 KNIGHT ARNOLD RD     | 12/11/2013 12:15 | GREASE                 | 1,740                      | M/L     | 2.9                        | Unnamed Trib to John's Creek to Nonconoh Creek       |
| BELFAST & N CIRCLE        | 12/11/2013 17:11 | GREASE                 | 1,320                      | M/L     | 2.2                        | Unnamed Trib to Leonahatchie River                   |
| BOWDOIN & NORTH CIRCLE    | 12/12/2013 15:59 | GREASE/PAPER           | 330                        | M/L     | 1.1                        |  |
| 3439 E DAKSIDE            | 12/13/2013 15:25 | GREASE                 | 660                        | M/L     | 1.1                        | Unnamed Trib to Hurricane Creek to Nonconoh Creek    |
| 4480 WESTMONT ST          | 12/16/2013 10:16 | GREASE                 | 900                        | M/L     | 1.5                        | Unnamed Trib to Horn Lake Creek to Mississippi River |
| 4658 STAGE RD             | 12/16/2013 12:54 | GREASE                 | 520                        | M/L     | 1.8                        | Unnamed Trib to Wolf River                           |
| 2100 WESTCHESTER DR APT 1 | 12/17/2013 10:13 | GREASE/RAGS            | 890                        | M/L     | 3.3                        | Unnamed Trib to Fletcher Creek to Wolf River         |
| 4610 NEW GETWELL          | 12/18/2013 8:31  | GREASE/RAGS            | 660                        | M/L     | 2.2                        | Unnamed Trib to Nonconoh Creek                       |
| 611 E DAVANT              | 12/18/2013 9:44  | GREASE                 | 1,170                      | M/L     | 3.9                        | Unnamed Trib to Cann Creek to Nonconoh Creek         |
| 615 E DAVANT              | 12/18/2013 9:44  | GREASE                 | 1,170                      | M/L     | 3.9                        | Unnamed Trib to Cann Creek to Nonconoh Creek         |
| 625 E DAVANT AVE          | 12/18/2013 9:44  | GREASE                 | 1,170                      | M/L     | 3.9                        | Unnamed Trib to Cann Creek to Nonconoh Creek         |
| 1436 PEABODY AVE          | 12/18/2013 11:17 | POOTS                  | 340                        | M/L     | 2.3                        |  |
| KASSEL MCCORLEE           | 12/18/2013 18:52 | GREASE/RAGS            | 420                        | M/L     | 0.7                        |  |
| 956 E PAINES RD           | 12/18/2013 19:38 | GREASE                 | 420                        | M/L     | 1.4                        | Unnamed Trib to Nonconoh Creek                       |
| 5015 APPLE WHITE LN       | 12/19/2013 7:13  | GREASE                 | 2,880                      | M/L     | 9.6                        | Unnamed Trib to Horn Lake Creek to Mississippi River |
| 6472 HAVENFORD COVE       | 12/20/2013 18:24 | GREASE                 | 4,200                      | M/L     | 14                         | Unnamed Trib to Nonconoh Creek                       |
| 4578 WESTMONT ST          | 12/21/2013 18:48 | GREASE/RAGS            | 1,320                      | M/L     | 2.2                        | Unnamed Trib to Horn Lake Creek to Mississippi River |
| 48 BELLEAIR DR            | 12/21/2013 19:36 | FLOODED                | 360                        | M/L     | 1.4                        |  |
| 1065 ALCY                 | 12/22/2013 7:12  | GREASE                 | 510                        | M/L     | 2.3                        |  |
| 532 S BELVEDERE BLVD      | 12/22/2013 10:42 | DRIED OUT/GREASE/PAPER | 320                        | M/L     | 2.5                        |  |
| 3656 WINDCREST DR         | 12/22/2013 22:06 | GREASE/RAGS            | 420                        | M/L     | 3.1                        | MS - Sewer Connection                                |
| 371 RIVER OAKS            | 12/23/2013 9:27  | GREASE/RAGS            | 840                        | M/L     | 1.4                        | Unnamed Trib to Wolf River                           |
| 4864 AUBURN RD            | 12/23/2013 21:11 | UNKNOWN                | 920                        | Unknown | 0.7                        |  |
| 10015 BRANLEY OAK BR      | 12/24/2013 10:00 | GREASE/RAGS            | 540                        | M/L     | 0.8                        | Unnamed Trib to Grays Creek to Wolf River            |
| 359 N RIVER OAKS RD       | 12/26/2013 15:00 | ROOTS/GREASE           | 900                        | M/L     | 1.5                        | Unnamed Trib to Wolf River                           |
| 3541 MEDITERRANEAN DR     | 12/26/2013 16:08 | GREASE                 | 2,100                      | M/L     | 3.5                        | Unnamed Trib to Ten Mile Bayou to Nonconoh Creek     |
| 1801 N SHELBY OAKS DR     | 12/27/2013 10:23 | GREASE                 | 1,650                      | M/L     | 1.1                        | Unnamed Trib to Wolf River                           |
| 196 N PAULINE ST          | 12/27/2013 12:49 | GREASE                 | 780                        | M/L     | 1.3                        | Unnamed Trib to Gayoso Bayou to Wolf River Harbor    |
| 2299 URBAN AVE SUITE L    | 12/28/2013 13:17 | GREASE/RAGS            | 520                        | M/L     | 2.7                        |  |

| Location Address       | Date and Time    | Cause  | Estimated Volume (gallons) | Source | Estimated Duration (hours) | Receiving stream (if any)       |
|------------------------|------------------|--------|----------------------------|--------|----------------------------|---------------------------------|
| 6946 SAUVIGNON COVE    | 12/29/2013 11:43 | GREASE | 650                        | M/L    | 1.1                        | Unnamed Trib to Nonconnah Creek |
| 2277 S THIRD ST        | 12/30/2013 12:07 | GREASE | 1,530                      | M/L    | 5.1                        | Unnamed Trib to Nonconnah Creek |
| 4997 FORREST VALLEY DR | 12/30/2013 12:58 | GREASE | 600                        | M/L    | 2                          | Unnamed Trib to Nonconnah Creek |
| 7 HAAS AVE             | 12/30/2013 13:51 | DEBRIS | 6,630                      | M/L    | 22.1                       | Unnamed Trib to Nonconnah Creek |
| 6132 PEBBLE BEACH AVE  | 12/31/2013 20:30 | GREASE | 390                        | M/L    | 1.3                        |                                 |

For 2820 Harbor Ave, overflow was intentionally diverted to a bermed area that had originally been constructed for just such purposes. Storage/Collection of the wastewater in the bermed area allowed the wastewater to be drained back into the sewer system following restoration of storm station service. The stored/collected wastewater which was returned to the sewer system is not an SSO. The volume of water that may have remained in the berm, if any, is unknown.