

Tenth Quarterly Report

United States Environmental Protection Agency
Administrative Order No. CWA-04-2010-4772

Period
January 1, 2013 –
March 31, 2013

April 2013

Submitted by:



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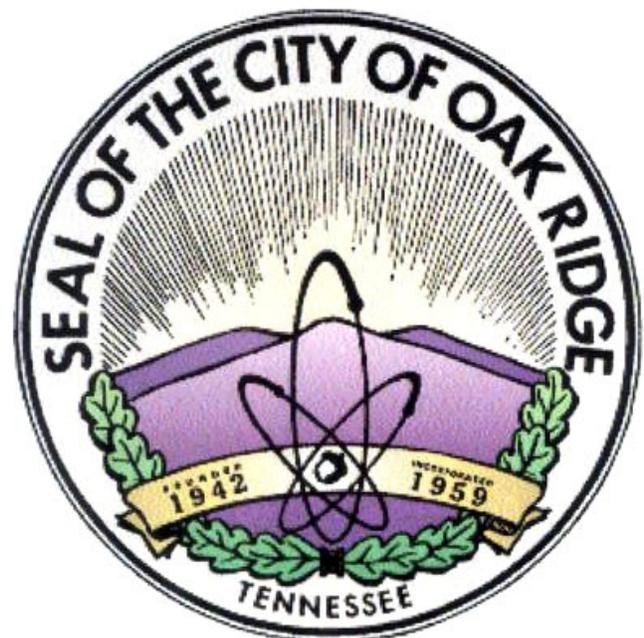
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B.	Construction Progress Schedule
C.	Y-12 Quarterly Report
D.	Tenth Quarter SSO's



SECTION I:

ACTIONS DURING THE TENTH QUARTER



SECTION I

ACTIONS DURING THE TENTH QUARTER

A. Introduction

Item 18 of the Administrative Order (AO) requires the City to submit quarterly reports. Those reports are due the 28th day of the month following the end of the quarter. They are to describe actions taken toward achieving compliance with the AO. This section of the report will deal with Management, Operation, Maintenance (MOM) matters, as well as remediation activities.

B. EPA Visit

In early February, a committee of the Oak Ridge City Council visited the Region IV EPA Offices along with staff members and the Program Manager. The meeting was cordial and productive. The purpose of the meeting was to review the history of the AO, progress to date, and potential options of a path forward. The City Council members reiterated their interest in protecting the environment and their past commitments to the program.

Oak Ridge City Council action during the tenth quarter included a resolution authorizing the application and acceptance of State Revolving Fund (SRF) loans of \$14.0 million and \$4.0 million at a favorable interest rate, with funds expected to be available during June 2013. Due to funding issues, the rehabilitation program is slightly behind schedule; but, with the SRF funds, the program will quickly be back on the projected schedule.



C. System Evaluation and Rehabilitation Plans

The East Plant Sewer Shed has the highest remaining priority for rehabilitation. During the seventh quarter, design for the rehabilitation of five (5) mini-basins was completed. Construction continues for two (2) of the five (5) mini-basins. As mentioned in earlier quarterly reports, the City has a Program Manager under contract and five (5) design firms to assist with the execution of the rehabilitation plan. During the tenth quarter, three (3) mini-basins which had separate designs were combined into a single construction contract package. This combined contract is ready for bid, awaiting funding by the SRF loan program. The remainder of the East Plant Sewershed rehabilitation was authorized for design during the tenth quarter.

The City and Program Manager have developed a concept for possibly securing National Nuclear Security Agency (NNSA) financial participation for an equalization basin which would dampen the peak wet weather flows from their facility.

The Program Manager is developing conceptual plans for sites and cost estimating of the three equalization basins identified in the rehabilitation plan.

The Program Manager has revised the rehabilitation program schedule to allow an acceleration of construction when funds are projected to be available. It should be noted that the completion date is unaltered. Appendix A shows the revised schedule.



The Program Manager is tracking progress of the current construction projects. Appendix B shows the two active projects. The Emory Valley construction projects are complete except for warranty work. However, post-construction investigation is quantifying lateral issues and identifying other defects to be addressed. As construction projects are activated, they will be tracked with the schedule shown in Appendix B.

D. Management, Operations, and Maintenance Programs

1. Information Management System

Pump Stations

- 566 weekly preventive maintenance work orders generated and completed.
- 74 monthly preventive maintenance work orders generated and completed.
- 26 quarterly preventive maintenance work orders generated and completed.
- 4 semi-annual preventive maintenance work orders generated and completed.
- 5 annual preventive maintenance work orders generated and completed.
 - 9 work orders generated by preventive maintenance (see listing)
- 11 pump station inspection work orders were generated for rain events (2 of them were written to recheck the pump stations during prolonged rain, which was technically the same rain event, but a new work order was written. The second work orders should not have been written, as the time for the repeat station check is to be booked to the original rain event work order.)



- 1 work order for the replacement of pump station control panels with labor charged beginning on 3/18/2013. This is the final control panel to be installed.
- 72 work orders generated by the maintenance crew (not including PMs, Rain Events, Control Panel Replacement and Work from PMs)
- Total-to-date of 3,740 work orders generated in the Infor system for the WWTP maintenance crew.
- Two sessions of classroom training provided to this crew during the quarter.
- Preliminary work completed for the routing of the assets and work for Pump Station Inspections during rain events.



**WORK ORDERS GENERATED FROM PREVENTIVE MAINTENANCE
 1/1/2013 THROUGH 3/31/2013**

#	Work Order	Date Reported	Description	Equipment (Assets)	Equipment Description	WO Type	Priority
1	46598	3/27/2013	Check High Current Pump 1, WATO Pump Station	PS:E12-E24-P1	Position, Pump-1, Submersible	Work from PM	3-Medium (as scheduled)
2	46557	3/25/2013	Check Pump 1, Staying Primed, Oak Hills Pump Station	PS:W17-E2W-P1	Position, Pump-1, Suction Lift	Work from PM	3-Medium (as scheduled)
3	46504	3/20/2013	Change Oil, Rolling Links Pump Station	PS:E29-Q26-P1	Position, Pump-1, Submersible	Work from PM	2-High (next work day)
4	45944	3/15/2013	Check Surge Valve Seep, East Plant Pump Station	PS:E13B-G22	East Plant, 151 CAIRO RD	Work from PM	3-Medium (as scheduled)
5	45943	3/15/2013	Adjust Impeller Clearance, Pump 2, East Plant Pump Station	PS:E13B-G22-P2	Position, Pump-2, Centrifugal	Work from PM	3-Medium (as scheduled)
6	45770	3/8/2013	Pump 2 Not Pumping, Marina Pump Station	PS:E20-L24	Marina, 695 MELTON LAKE DR	Work from PM	2-High (next work day)
7	45693	3/7/2013	Degrease Pumps, East Plant Pump Station	PS:E13B-G22	East Plant, 151 CAIRO RD	Work from PM	3-Medium (as scheduled)
8	19137	1/29/2013	Replace Bad Transducer With Used, East Plant Pump Station	PS:E13B-G22	East Plant, 151 CAIRO RD	Work from PM	2-High (next work day)
9	19124	1/23/2013	Check High Amps, Pump 2, Southwood Pump Station	PS:W27A-F5W-P2	Position, Pump-2, Submersible	Work from PM	3-Medium (as scheduled)



Gravity Sewer

- Daily training provided to the crew the first week of January and then specialty training and/or as needed training beginning 1/7/2013.
- Work order and asset routing training by the GIS Specialist and Public Works Administrative Support staff during January resulting in successfully routing the assets for:
 - Manhole Inspections for the Emory Valley Sewer Shed (see listing)
 - Manhole Inspections for Rain Events
- Preliminary work is ongoing for the routing of the assets and work for Flow Metering, Cleaning Sewer Main and CCTV.
- Process for documenting the SSOs in the Infor system was developed with some success. The wet weather SSO documenting process in Infor is complete, some work is continuing for dry weather SSO documentation, primarily booking labor for stand-by employees that are not on one of the sewer crews.

Call Center

- Total-to-date of 2,084 work orders generated in the Infor system by the Call Center.
 - 155 work orders called in for “Check Sewer Problem”
- 635 work orders generated during this quarter in the Infor system by the Call Center.
 - 43 work orders called in for “Check Sewer Problem”

GIS

The City of Oak Ridge continues to add to and update the GIS mapping system. During this quarter the GIS Specialist worked on assisting with the routing of manhole inspections, identifying and naming common lateral assets and grease trap assets.

The GIS Specialist met with the Public Works Administrative Specialist to develop a process and path for the current pictures taken by the field crews while inspecting manholes so that they will be linked to the GIS mapping system. The GIS Specialist developed the path and folders for the loading of approximately 22,000 inspection pictures from 2010 and 2011 that will be linked to the GIS mapping system.



**ROUTING WORK ORDERS GENERATED FOR MANHOLE INSPECTION
 (EXAMPLE ONLY)
 EMORY VALLEY SEWER SHED**

Work Order	Date Reported	Description	Equipment (Assets)*	Equipment Description*	Problem Address	Priority
44531	3/5/2013	ANNUAL MANHOLE INSPECTION, E5B, EVSS	10214	MH:E5B-J19-32	E5B, EVSS	3-Medium (as scheduled)
44530	3/5/2013	ANNUAL MANHOLE INSPECTION, E5A, EVSS	10118	MH:E5A-H16-1	E5A, EVSS	3-Medium (as scheduled)
44529	3/5/2013	ANNUAL MANHOLE INSPECTION, E37, EVSS	11567	MH:E37-L17-20	E37, EVSS	3-Medium (as scheduled)
44528	3/5/2013	ANNUAL MANHOLE INSPECTION, E36, EVSS	10103	MH:E36-L21-30	E36, EVSS	3-Medium (as scheduled)
44526	3/5/2013	ANNUAL MANHOLE INSPECTION, E35A, EVSS	10101	MH:E35A-K20-31	E35A, EVSS	3-Medium (as scheduled)
44525	3/5/2013	ANNUAL MANHOLE INSPECTION, E35, EVSS	10094	MH:E35-K20-30	E35, EVSS	3-Medium (as scheduled)
44523	3/5/2013	ANNUAL MANHOLE INSPECTION, E34, EVSS	10087	MH:E34-L20-24	E34, EVSS	3-Medium (as scheduled)
44522	3/5/2013	ANNUAL MANHOLE INSPECTION, E33, EVSS	10069	MH:E33-L18-1	E33, EVSS	3-Medium (as scheduled)
44521	3/5/2013	ANNUAL MANHOLE INSPECTION, E32, EVSS	10048	MH:E32-L18-10	E32, EVSS	3-Medium (as scheduled)

***NOTE:**

For these assets, the work order is assigned to the first asset of each route. When labor is booked, the time is equally divided and automatically posts to all assets (manholes) listed in the route.



2. Engineering

By-Pass Pumping Connections

By-pass pumping connections will be installed at the remaining seven pump stations when they are replaced or updated.

- Castlewood Pump Station (under construction)
- Westview Pump Station (under construction)
- Gregory's Pump Station (scheduled for replacement in 2013)
- Palisades #1 Pump Station
- Palisades #2 Pump Station
- Palisades #3 Pump Station
- Palisades #4 Pump Station

Control Panels

During this reporting period (January 2013 through March 2013), the Wastewater Maintenance Crew began the installation of the final control panel at the Wolf Creek Pump Station. The installation should be complete by the end of April 2013.

3. Operations

Fats, Oils, and Grease

Quick Stats:

- 103 establishments in program
- Conducted FSE Inspections (total complete 33)
- Added one (1) approved GWH vendor to the list
- Two (2) establishments currently non-compliant
- All schools to be inspected in April 2013
- Public Works Department continues to be instrumental in identifying potential FOG violations that has led to quicker and more routine compliance
- This quarter City crews have checked a total of twenty-six (26) grease traps with the sludge judge method and has notified Code Enforcement of seven (7) Food Service Establishments (FSE) that were over the 25% violation rule.



- City crews have cleaned a total of 1,859 feet of grease lines that are directly downstream of grease traps.
- City crews have GPS the location of fifty-six (six) grease trap locations for the GIS mapping system.

City of Oak Ridge Program Coordination:

- Updates to MMS continues with FSE information
- Real time FOG data being compiled for heavy discharge FSEs
- Linking new building permits to the FOG program for FSEs as certificate of occupancy requirement
- Frequent FSE Manager changes causing some problem with re-education and additional inspection follow-ups.

Collection

Cleaning and CCTV Inspection

- City crews completed the cleaning and CCTV in the Emory Valley Sewer Shed. City crews cleaned and CCTV the sewer lines that were not including in the Emory Valley Sewer Shed contracts for sewer repair work.
- During this quarter, City crews cleaned 8,997'.
- During this quarter, City crews CCTV 26,543'.

Common Laterals

- City crews are taking inventory and assessing the condition of common laterals owned by the City for the need of repair or replacement.
 - Lines are being cleaned and CCTV for any needed repairs or replacement.
 - Manholes, clean outs and wye connections are being GPS for the GIS mapping system.

Manhole Inspections

- City crews have been inspecting the manholes in the Emory Valley Sewer Shed utilizing the routes by mini-system generated with the Infor system (IMS).
- During this quarter, City crews inspected 171 manholes.



Ground Water Monitoring

- City crews continue to check sixteen (16) manhole locations that are set up for monitoring the level of ground water. These locations were checked seven (7) times this quarter.

Flow Monitoring

- City personnel continue to monitor the sewer flows during rain and dry weather.
- There are currently twenty-one (21) flow meters strategically located throughout the city. The Emory Valley Sewer Shed has flow meters installed for post construction flow monitoring.

Rain Gauges

- Three (3) rain gauges are connected to telemetry monitored at the Water and Waste Water Treatment Plants.
- The rain gauge at the Water Treatment Plant is in the center of town and is the official rain gauge that is used to call the rain events of 0.5" of rainfall or more.

Rain Events

- For this quarter the City of Oak Ridge has had a total of nine (9) rain events, totaling 0.5 inches or more of rain.

Rainfall Data,

- Monthly rainfall amounts for the City of Oak Ridge recorded at the Water Treatment Plant for this quarter.
 - January 9.64"
 - February 2.13"
 - March 4.67"

SSOs

- 47 SSOs during this quarter
 - 43 wet weather overflows
 - 4 dry weather overflows

Safety Training

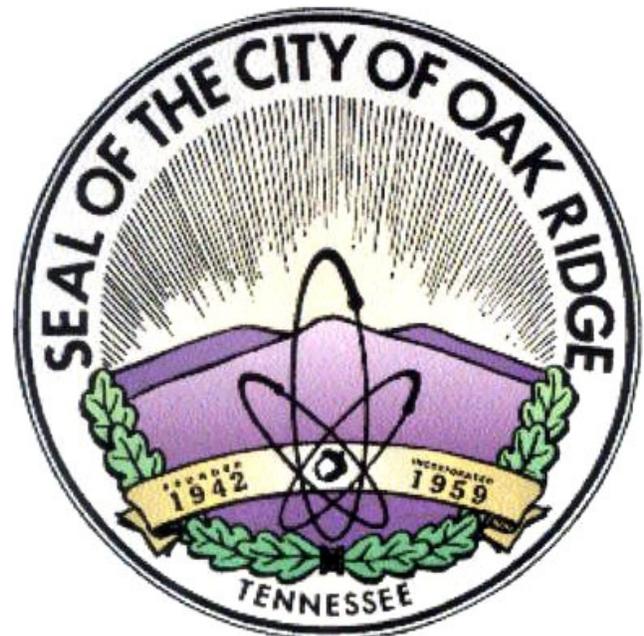


- All Public Works employees attend monthly safety meetings.
- This quarter topics were
 - January – Safety Tips and Fire Prevention
 - February – Respirator Use and Fit Testing Procedures
 - March – PPE and Respiratory Protection



SECTION II:

**OTHER GENERAL
COMMENTS**



SECTION II

OTHER GENERAL COMMENTS

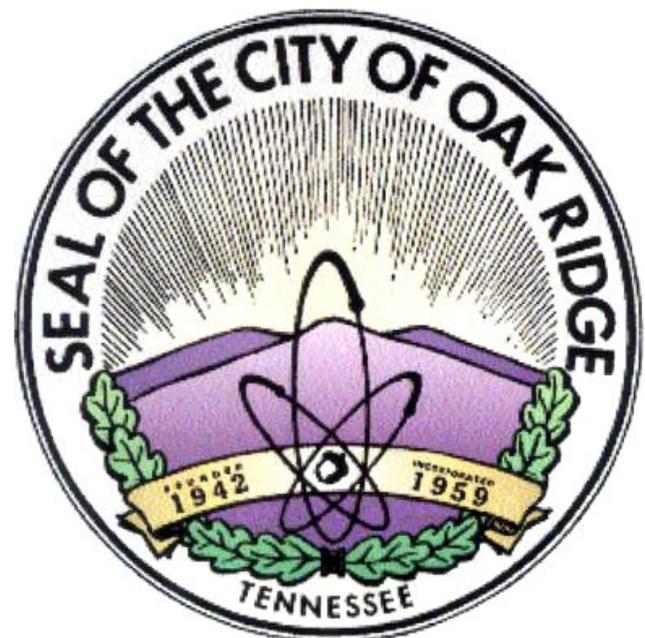
The City and EPA have had discussions concerning the National Nuclear Security Administration's (NNSA) Y-12 facility. The City recognizes they own their collection system and hold the NPDES permit. However, the Y-12 facility (an independent customer) operates at a level higher than city or state government. That facility, from a practical perspective, is not the same as any other industrial customer. This situation is one where the City, State, and EPA should collaborate to affect a timely solution to the matter.

The Y-12 quarterly report is attached as Appendix C.



SECTION III:

**SSO'S DURING TENTH
QUARTER**



SECTION III

SSO'S DURING TENTH QUARTER

During the tenth quarter, there were rainfall events in January and March which caused SSO's. In January, there was an event from January 13 through January 17 which had a total of 5.33 inches. On January 30, 2013, there was a 2.45 inch event which caused SSO's. There were no SSO's in February 2013. However, there were 2.2 inches of rain that month. There was one rainfall event in March (03/15/2013) of 1.4 inches in twelve hours which caused a single SSO. Appendix D contains the report sheets for each overflow that occurred during the tenth quarter for whatever the reason. These sheets meet the criteria set forth in Section 18 of the AO, which includes:

- Date of event
- Specific location
- Estimated flow rate
- Time event started and finished
- Estimated total flow volume
- Rainfall event (in/day)
- Discharge destination



APPENDIX A:

REHABILITATION PROJECT SCHEDULE



Appendix A

**City of Oak Ridge, Tennessee
Rehabilitation Projects Scheduling**

ID	Description	EPA Projected Start	EPA Projected Finish	Actual Start	Decem	
					8/28	11/27
1	East Plant I-Mini System E12-(Project E-I)	Mon 3/19/12	Sun 7/14/13	Mon 3/19/12		
2	Authorization	Mon 3/19/12	Mon 3/19/12	Mon 3/19/12		
3	Submit to TDEC	Mon 3/19/12	Tue 8/14/12	Mon 8/13/12		
4	TDEC Approval	Tue 8/14/12	Fri 9/28/12	Mon 8/13/12		
5	Advertise for Bids	Fri 8/10/12	Fri 8/10/12			
6	Bid Opening	Thu 9/6/12	Thu 9/6/12	Thu 9/13/12		
7	Pre-Construction Conference	Tue 10/23/12	Tue 10/23/12	Wed 11/7/12		
8	Notice to Proceed	Mon 10/29/12	Mon 10/29/12	Mon 12/17/12		
9	Substantial Completion	Mon 10/29/12	Sat 4/20/13	Mon 12/17/12		
10	Project Close-out	Sat 4/20/13	Sat 5/18/13	Fri 6/14/13		
11	Asbuilt Drawings & GIS Update	Sat 5/18/13	Sun 7/14/13	Sun 7/14/13		
12	East Plant II-Mini System E11-(Project E-II)	Mon 3/19/12	Sun 7/14/13	Mon 3/19/12		
13	Authorization	Mon 3/19/12	Mon 3/19/12	Mon 3/19/12		
14	Submit to TDEC	Mon 3/19/12	Tue 8/14/12	Mon 3/19/12		
15	TDEC Approval	Tue 8/14/12	Fri 9/28/12	Mon 8/13/12		
16	Advertise for Bids	Fri 8/10/12	Fri 8/10/12			
17	Bid Opening	Tue 9/11/12	Tue 9/11/12	Tue 10/2/12		
18	Recommendation of Award	Wed 10/3/12	Wed 10/3/12	Tue 10/2/12		
19	Notice of Award	Mon 10/8/12	Mon 10/8/12	Tue 10/9/12		
20	Pre-Construction Conference	Tue 10/23/12	Tue 10/23/12	Wed 11/7/12		
21	Notice to Proceed	Mon 10/29/12	Mon 10/29/12	Sat 12/1/12		
22	Substantial Completion	Mon 10/29/12	Sat 4/20/13	Sat 12/1/12		
23	Project Close-out	Sat 4/20/13	Sat 5/18/13	Thu 6/27/13		
24	Asbuilt Drawings & GIS Update	Sat 5/18/13	Sun 7/14/13			
25	East Plant III, IV, V-Mini-Systems E10, E9, E6-(Project E-III)	Mon 3/19/12	Fri 11/1/13	Mon 3/19/12		
26	Authorization	Mon 3/19/12	Mon 3/19/12	Mon 3/19/12		
27	Submit to TDEC	Mon 3/19/12	Tue 8/14/12	Tue 3/12/13		
28	TDEC Approval	Tue 8/14/12	Fri 9/28/12			
29	Advertise for Bids	Tue 12/11/12	Tue 12/11/12			
30	Bid Opening	Thu 1/17/13	Thu 1/17/13			
31	Recommendation of Award	Mon 1/21/13	Mon 1/21/13			
32	Notice of Award	Mon 1/28/13	Mon 1/28/13			
33	Pre-Construction Conference	Fri 2/1/13	Fri 2/1/13			
34	Notice to Proceed	Mon 2/11/13	Mon 2/11/13			
35	Substantial Completion	Mon 2/11/13	Sat 8/3/13			
36	Project Close-out	Sat 8/3/13	Sat 8/31/13			
37	Asbuilt Drawings & GIS Update	Sat 8/31/13	Fri 11/1/13			
38	East Plant VI, VII, VIII, IX, X - Mini-Systems -E1, E2, E3, E4, E7, E8, E13A, E13B, E22, E23, E26, E27, E28, E30, E31-(Project E-IV)	Thu 1/10/13	Tue 5/20/14	Tue 2/26/13		

Appendix A

**City of Oak Ridge, Tennessee
Rehabilitation Projects Scheduling**

ID	Description	EPA Projected Start	EPA Projected Finish	Actual Start	Decem	
					8/28	11/27
39	Authorization	Thu 1/10/13	Thu 1/10/13	Tue 2/26/13		
40	Submit to TDEC	Thu 1/10/13	Sun 5/12/13			
41	TDEC Approval	Sun 5/12/13	Sun 6/9/13			
42	Advertise for Bids	Wed 6/12/13	Wed 6/12/13			
43	Bid Opening	Fri 7/12/13	Fri 7/12/13			
44	Recommendation of Award	Mon 7/15/13	Mon 7/15/13			
45	Notice of Award	Thu 8/1/13	Thu 8/1/13			
46	Pre-Construction Conference	Sun 8/18/13	Sun 8/18/13			
47	Notice to Proceed	Thu 8/22/13	Thu 8/22/13			
48	Substantial Completion	Thu 8/22/13	Tue 2/11/14			
49	Project Close-out	Mon 2/24/14	Mon 3/24/14			
50	Asbuilt Drawings & GIS Update	Mon 3/24/14	Tue 5/20/14			
51	Y-12 I and II- Mini-Systems W2, W3, W4, W18A, W19, W21, W23, W26, W26A, W34-(Project Y-I)	Sun 7/14/13	Tue 11/11/14			
52	Authorization	Sun 7/14/13	Sun 7/14/13			
53	Submit to TDEC	Sun 7/14/13	Tue 10/8/13			
54	TDEC Approval	Tue 10/8/13	Tue 11/5/13			
55	Advertise for Bids	Mon 10/14/13	Mon 10/14/13			
56	Mandatory Pre-Bid Meeting	Tue 11/19/13	Tue 11/19/13			
57	Bid Opening	Tue 11/26/13	Tue 11/26/13			
58	Recommendation of Award	Mon 12/16/13	Mon 12/16/13			
59	ATA Award	Fri 1/3/14	Fri 1/31/14			
60	Notice of Award	Mon 2/10/14	Mon 2/10/14			
61	Pre-Construction Conference	Sat 2/22/14	Sat 2/22/14			
62	Notice to Proceed	Wed 2/26/14	Wed 2/26/14			
63	Substantial Completion	Wed 2/26/14	Mon 8/18/14			
64	Project Close-out	Mon 8/18/14	Mon 9/15/14			
65	Asbuilt Drawings & GIS Update	Mon 9/15/14	Tue 11/11/14			
66	Central City I and II-Mini-Systems W5, W5A, W6, W7, W8, W9, E25-(Project CC-I)	Tue 1/14/14	Mon 5/11/15			
67	Authorization	Tue 1/14/14	Tue 1/14/14			
68	Submit to TDEC	Tue 1/14/14	Thu 4/10/14			
69	TDEC Approval	Thu 4/10/14	Thu 5/8/14			
70	Advertise for Bids	Wed 5/14/14	Wed 5/14/14			
71	Mandatory Pre-Bid Meeting	Wed 5/28/14	Wed 5/28/14			
72	Bid Opening	Thu 6/19/14	Thu 6/19/14			
73	Recommendation of Award	Thu 7/3/14	Thu 7/3/14			
74	ATA Award	Sat 7/5/14	Sat 8/2/14			
75	Notice of Award	Wed 8/6/14	Wed 8/6/14			
76	Pre-Construction Conference	Fri 8/22/14	Fri 8/22/14			

Appendix A

**City of Oak Ridge, Tennessee
Rehabilitation Projects Scheduling**

ID	Description	EPA Projected Start	EPA Projected Finish	Actual Start	Decem	
					8/28	11/27
					77	Notice to Proceed
78	Substantial Completion	Tue 8/26/14	Sun 2/15/15			
79	Project Close-out	Sun 2/15/15	Sun 3/15/15			
80	Asbuilt Drawings & GIS Update	Sun 3/15/15	Mon 5/11/15			
81	Turtle Park I and II-Mini-Systems W10, W11, W12, W13, W14, W15, W16, W18B, W18C, W18E W18F, W18G, W18H, W25, W28, W30-(Project TP-I)	Wed 6/11/14	Sun 9/6/15			
82	Authorization	Wed 6/11/14	Wed 6/11/14			
83	Submit to TDEC	Wed 6/11/14	Fri 9/5/14			
84	TDEC Approval	Fri 9/5/14	Fri 10/3/14			
85	Advertise for Bids	Wed 10/15/14	Wed 10/15/14			
86	Mandatory Pre-Bid Meeting	Wed 10/29/14	Wed 10/29/14			
87	Bid Opening	Thu 11/13/14	Thu 11/13/14			
88	Recommendation of Award	Fri 11/28/14	Fri 11/28/14			
89	ATA Award	Mon 12/1/14	Mon 12/29/14			
90	Notice of Award	Thu 1/1/15	Thu 1/1/15			
91	Pre-Construction Conference	Thu 1/15/15	Thu 1/15/15			
92	Notice to Proceed	Wed 1/21/15	Wed 1/21/15			
93	Substantial Completion	Wed 1/21/15	Sun 6/14/15			
94	Project Close-out	Sun 6/14/15	Sun 7/12/15			
95	Asbuilt Drawings & GIS Update	Sun 7/12/15	Sun 9/6/15			
96	West End I-Mini-Systems W17, W20, W22, W24, W27, W27A, W29, W29A, W31, W32, W33, W35-(Project WE-I)	Wed 6/11/14	Sun 9/6/15			
97	Authorization	Wed 6/11/14	Wed 6/11/14			
98	Submit to TDEC	Wed 6/11/14	Fri 9/5/14			
99	TDEC Approval	Fri 9/5/14	Fri 10/3/14			
100	Advertise for Bids	Wed 10/15/14	Wed 10/15/14			
101	Mandatory Pre-Bid Meeting	Wed 10/29/14	Wed 10/29/14			
102	Bid Opening	Thu 11/20/14	Thu 11/20/14			
103	Recommendation of Award	Fri 11/28/14	Fri 11/28/14			
104	ATA Award	Mon 12/1/14	Mon 12/29/14			
105	Notice of Award	Thu 1/1/15	Thu 1/1/15			
106	Pre-Construction Conference	Thu 1/15/15	Thu 1/15/15			
107	Notice to Proceed	Wed 1/21/15	Wed 1/21/15			
108	Substantial Completion	Wed 1/21/15	Sun 6/14/15			
109	Project Close-out	Sun 6/14/15	Sun 7/12/15			
110	Asbuilt Drawings & GIS Update	Sun 7/12/15	Sun 9/6/15			
111	Equalization Basins	Mon 9/10/12	Tue 8/18/15			
112	Authorization	Mon 9/10/12	Mon 9/10/12			

Appendix A

**City of Oak Ridge, Tennessee
Rehabilitation Projects Scheduling**

ID	Description	EPA Projected Start	EPA Projected Finish	Actual Start		
					Decem	
					8/28	11/27
113	Submit to TDEC	Thu 9/20/12	Fri 6/21/13			
114	TDEC Approval	Fri 6/21/13	Fri 7/19/13			
115	Advertise for Bids	Fri 7/26/13	Fri 7/26/13			
116	Mandatory Pre-Bid Meeting	Thu 8/22/13	Thu 8/22/13			
117	Bid Opening	Thu 9/5/13	Thu 9/5/13			
118	Recommendation of Award	Tue 10/15/13	Tue 10/15/13			
119	ATA Award	Mon 11/18/13	Mon 11/18/13			
120	Notice of Award	Mon 11/18/13	Mon 12/2/13			
121	Pre-Construction Conference	Thu 12/12/13	Thu 12/12/13			
122	Notice to Proceed	Thu 1/2/14	Thu 1/2/14			
123	Substantial Completion	Thu 1/2/14	Mon 5/25/15			
124	Project Close-out	Mon 5/25/15	Mon 6/22/15			
125	Asbuilt Drawings & GIS Update	Mon 6/22/15	Tue 8/18/15			
126						
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APPENDIX B:

**CONSTRUCTION
PROGRESS SCHEDULE**



APPENDIX C:

**Y-12 QUARTERLY
REPORT**



**Status of Y-12 National Security Complex
Sanitary Sewer Inflow and Infiltration Program
March 31, 2013**

As of February 15, 2013, all the piping system at the Y-12 Complex has been smoke tested twice. Although no significant points of inflow were detected, there were a few broken clean-out caps that were found and replaced.

Analysis of the data from the in-system flow meters has revealed that the Biology Complex may not be totally isolated as originally thought. Additional flow meters will be placed in this portion of the complex in order to better identify the source and route of storm water inflow.

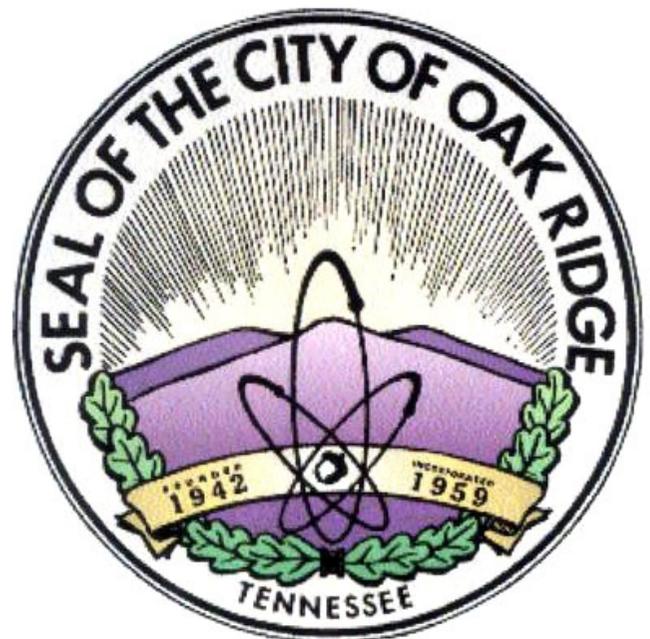
Immediate plans are to convene a team from the engineering, utilities and environmental organizations. This team, expected to convene the last week of April 2013, will be charged with developing a comprehensive report of the data gathered to date and a recommendation for a path forward.

The following is a summary of outstanding issues presented in previous reports and their current status.

- A lateral from the slab of a demolished building (9720-6) was not properly plugged. This will be corrected during the third quarter 2012. *Current Status – This is an abandoned lateral from the building slab and is not considered to be a significant source of infiltration. Isolation of this line via plugging at the nearest manhole is being considered. The scheduled completion date is currently unknown.*
- Via visual observation of two in-line manholes, it appears a small amount of groundwater was entering the pipe. A video surveillance is planned for the third quarter 2012 to better identify the location and severity of infiltration. *Current Status - Video inspection was conducted and small cracks were seen in the vitrified clay pipe.*
- Smoke was observed in a grassy area that will require a video inspection and probable excavation to identify and correct the source. This smoke test was conducted on June 19, 2012, and witnessed by inspectors from the U.S. Environmental Protection Agency during their multi-media inspection of the Y-12 Complex. *Current Status – Flow meters have been installed in these lines to better determine the source of storm water infiltration. Rehabilitation of this line is being considered as part of a larger project.*

APPENDIX D:

TENTH QUARTER SSO'S



EPA Sanitary Sewer Overflow Summary (See Attached SSO Reports for Details)

10th Quarterly Report - January 1, 2013 to March 31, 2013

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
1/13/2013	Cairo Lane	151	17600	1/2" rainfall combined with one pump out of service due to a broken check valve	Sewer Maintenance crew will repair check valve	<input checked="" type="checkbox"/>	Ernies Creek
1/13/2013	Monterey Road	200	525	Wastewater treatment plant influent drum screens plugged up with flow increased rapidly flushing lines of a lot of grit and grease. 2 of 3 screens in service	Cleaned screens with water hose to clear and placed 3rd screen in service. Policy will be implemented to have all three screens in service after a .5" rain event.	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/14/2013	Illinois Avenue, South	216	125400	See attached sheet	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/14/2013	Purdue Avenue, North	117	300100	Excessive rainfall, 5 day rain event from 1/13/13-1/17/13 totaling 5.33" of rain	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar
1/15/2013	Athens Road	119	176000	See attached sheet	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
1/15/2013	Cairo Lane	151	189000	See attached sheet	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/15/2013	Melton Lake Drive	695	228500	Excessive rainfall, 5 day rain event from 1/13/13-1/17/13 totaling 5.33" of rain	City continues work to correct I&I	<input checked="" type="checkbox"/>	Melton Hill Lake
1/15/2013	Oak Ridge Turnpike	1403	2360	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/15/2013	Oak Ridge Turnpike	1403	7050	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/15/2013	Oak Ridge Turnpike	1403	133050	See attached sheet	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/15/2013	Oak Ridge Turnpike	470	21310	See attached sheet	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/15/2013	Oak Ridge Turnpike	535	91850	See attached sheet	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
1/15/2013	Tusculum Drive	191	4978	See attached sheet	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/16/2013	Bay Path Drive	108	18850	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Emory Valley Creek
1/16/2013	Bradley Avenue	110	31000	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/16/2013	Dresden Road	100	33600	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/16/2013	Illinois Avenue, South	324	81000	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/16/2013	Iroquois Road		2000	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole was not overflowing but showed signs that an overflow had occurred	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/16/2013	Jefferson Avenue	215	1000	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole was not overflowing but showed signs that an overflow had occurred	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/16/2013	Newkirk Lane, East	102	7080	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/16/2013	Newkirk Lane, West	116	1000	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole was not overflowing but showed signs that an overflow had occurred	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/16/2013	Oak Ridge Turnpike	1289	1000	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole showed signs of overflow when checked at 10:38 am 1/16/13	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
1/16/2013	Robertsville Road	270	1000	Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole was not overflowing when checked but showed signs that an overflow had occurred.	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/30/2013	Athens Road	119	140200	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
1/30/2013	Bay Path Drive	108	226500	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Emory Valley Creek
1/30/2013	Cairo Lane	151	120000	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/30/2013	Dresden Road	100	44100	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/30/2013	Grandcove Lane	114	20500	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/30/2013	Illinois Avenue, South	216	63000	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/30/2013	Illinois Avenue, South	324	3680	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/30/2013	Iroquois Road		65400	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/30/2013	Jefferson Avenue		4000	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/30/2013	Jefferson Avenue	215	22300	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/30/2013	Melton Lake Drive	695	189600	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Melton Hill Lake
1/30/2013	Oak Ridge Turnpike	1403	60600	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/30/2013	Oak Ridge Turnpike	1403	26400	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/30/2013	Oak Ridge Turnpike	1403	350000	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/30/2013	Oak Ridge Turnpike	470	32750	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/30/2013	Oak Ridge Turnpike	535	1346000	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek

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1/30/2013	Robertsville Road	270	21100	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/30/2013	Tennessee Avenue, W	160	10950	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
1/30/2013	Tusculum Drive	191	51000	Excessive rainfall of 2.45" in 14 hours	City continuess work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
2/10/2013	Jersey Lane	108	30	Settling of the soil from a previous repair caused the pipe to drop and separate, causing sewer problems for 108 Jersey Lane. Water backed up in the house when the shower was used.	The section of the sewer lateral that had seperated was excavated and repaired. Sewer came out of the pipe when it was exposed and was absorbed in the ground.	<input type="checkbox"/>	
3/3/2013	Alger Road	130	10	Sewer main was blocked in the manhole with roots suspected to have come from cleaning contractors that had been working on the sewer mains above this manhole. The manhole backed up causing sewer to go into the lateral for 130 Alger Road causing sewer to go into the basement through the block wall.	Sewer lateral will also be inspected for problems	<input type="checkbox"/>	
3/5/2013	Purdue Avenue, North	117	10000	excessive rainfall 1.4" in 12 hours	City contineus work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
3/28/2013	Nevada Circle	136	50	The common sewer lateral for house's 136 and 138 Nevada Circle was stopped up with roots. Each time 138 used water it would back up into the residence at 136 Nevada Circle	The common lateral will be tv'd and repaired.	<input type="checkbox"/>	

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1/15/2013	Athens Road	119	176000	See attached sheet	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
1/15/2013	Cairo Lane	151	189000	See attached sheet	City continuess work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
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3/28/2013	Nevada Circle	136	50	The common sewer lateral for house's 136 and 138 Nevada Circle was stopped up with roots. Each time 138 used water it would back up into the residence at 136 Nevada Circle	The common lateral will be tv'd and repaired.	<input type="checkbox"/>	

LOCATION DATA

LOCATION: 151 Cairo Ln.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/28/2012

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E13B Map Page # G22

Manhole # G22-14

Force Main:

FLOW DATA

Start Date: 1/13/2013 Time: 11:38 AM PM End Date: 1/14/2013 Time: 2:34 AM PM

Duration 2hrs,56mins hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 17,600 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 1.2 in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: 1.2" rainfall combined with one pump out of service due to a broken check valve.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: Sewer maintenance crew will repair check valve.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: Emies Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Section Maint. Specialist Date: 1/14/13

Reviewed by Rick Curran Title: Operations & Maint. Manager Date: 1/15/13

Initial TDEC Notification By: David Patterson Date: 1/14/2013

After Review & Notification to TDEC Rick Curran Title: Operations Manager Date: 1-15-13

Final Review Greg Curran Title: Public Works Director Date: 1/16/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/17/13



CITY OF OAK RIDGE

REPORT DATE: 1/14/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 200 Monterey Road

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 2/25/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system #

Map Page #

Manhole #

Force Main:

FLOW DATA

Start Date: 1/13/2013 Time: 10:30 AM PM End Date: 1/13/2013 Time: 10:45 AM PM

Duration 15 minutes hours/minutes Est. Flow Rate: 35 gpm Estimated Total Flow: 525 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Wastewater treatment plant influent drum screens plugged up when flow increased rapidly flushing lines of a lot of grit and grease. 2 of 3 screens in service

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: Cleaned screens with water hose to clear and placed 3rd screen in service. Policy will be implemented to have all three screens in service after a .5" rain event.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Don Rose

Report completed by Bob Currier Title: Treatment Plant Operations Supervisor Date: 1-14-13

Reviewed by Kick Chuzen Title: Operations & Maint. Manager Date: 1/16/13

Initial TDEC Notification By: Bob Currier Date: 1/14/13

After Review & Notification to TDEC Kath Jackson Title: Operations Manager Date: 1-16-13

Final Review Bob Currier Title: Public Works Director Date: 1/17/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/17/13

CITY OF OAK RIDGE

REPORT DATE: 1/22/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 216 S. Illinois Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 9/18/2012 ✓

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W18A Map Page # J11

Manhole # J11-16

Force Main:

FLOW DATA

Start Date: 1/14/2013 Time: 9:38 AM PM

End Date: 1/16/2013 Time: 1:58 AM PM

Duration 28 hrs.35 min. hours/minutes

Est. Flow Rate: 50/100 gpm

Estimated Total Flow: 125,400 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: See attached sheet.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Sewer Maint. Resident Date: 1/23/13

Reviewed by Kick Clavin Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/15/13

After Review & Kott Johnson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review Way Corder Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

LOCATION DATA
LOCATION: 117 N. Purdue Ave. 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 9/18/2012 ✓

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5 Map Page # G15 Manhole # G15-13 Force Main:

FLOW DATA

Start Date: 1/14/2013 Time: 8:59 AM PM End Date: 1/16/2013 Time: 11:00 AM PM

Duration 50 hrs.1 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 300,100 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: Tributary to East Fork Poplar

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 1/23/13

Reviewed by Kick Lawrie Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/15/13

After Review & Kathy Stout Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review David Carroll Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

LOCATION DATA
LOCATION: 119 Athens Rd. 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: ~~9/18/2012~~ 12/24/12

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # E11 Map Page # E22 Manhole # E22-32 Force Main:

FLOW DATA
Start Date: 1/15/2013 Time: 9:13 AM PM End Date: 1/16/2013 Time: 10:30 AM PM
Duration 18 hrs. 1 min. hours/minutes Est. Flow Rate: 50/200 gpm Estimated Total Flow: 176,000 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: See attached sheet.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)
Did flow run to surface water: Yes No Name of surface water: Tributary to Melton Hill Lake
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by Wayne Patterson Title: Sewer Maint. Specialist Date: 1/23/13

Reviewed by Rick Lewis Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/15/13

After Review & Scott Jackson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review W. C. Cund Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

CITY OF OAK RIDGE

REPORT DATE: 1/22/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 151 Cairo Ln.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E13B Map Page # G22

Manhole # G22-14

Force Main:

FLOW DATA

Start Date: 1/15/2013 Time: 7:30 AM PM

End Date: 1/16/2013 Time: 10:30 AM PM

Duration 31 hrs. 30 mins hours/minutes

Est. Flow Rate: 100 gpm

Estimated Total Flow: 189,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: See attached sheet.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Emies creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson

Title: Senior Maint Specialist

Date: 1/23/13

Reviewed by Rick Luvain

Title: Operations + Maint. Manager

Date: 1/23/13

Initial TDEC Notification

By: David Patterson

Date: 1/15/13

After Review & Scott Jackson

Notification to TDEC

Title: Operations Manager

Date: 1-23-13

Final Review Scott Jackson

Title: Public Works Director

Date: 1/23/13

Final Report Transmitted to TDEC

By: Kathy Stout

Date: 1/23/13

CITY OF OAK RIDGE

REPORT DATE: 1/22/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 695 Melton Lake Dr.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/4/2012 9/18/12

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E20 Map Page # L24

Manhole # L24-1

Force Main:

FLOW DATA

Start Date: 1/15/2013 Time: 8:35 AM PM End Date: 1/16/2013 Time: 10:30 AM PM

Duration 37 hrs. 55 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 227,500 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/2013-1/17/2013 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: Melton Hill Lake

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13

Reviewed by Rick Lewis Title: Operations/Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/15/13

After Review & Kathy Stout Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review Ray Gunden Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

CITY OF OAK RIDGE

REPORT DATE: 1/22/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1403 Oak Ridge Turnpike

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 9/18/2012

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5

Map Page # G12

Manhole # G12-2

Force Main:

FLOW DATA

Start Date: 1/15/2013 Time: 10:08 AM PM End Date: 1/15/2013 Time: 2:03 AM PM

Duration 3 hrs. 55 min. hours/minutes Est. Flow Rate: 30 gpm Estimated Total Flow: 7,050 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 1/23/13

Reviewed by Rick Curran Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/15/13

After Review & Scott Pearson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review W. G. ... Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

LOCATION DATA
LOCATION: 1403 Oak Ridge Turnpike
1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 9/18/2012

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W5 Map Page # G11 Manhole # G11-8 Force Main:

FLOW DATA
Start Date: 1/15/2013 Time: 9:30 AM PM End Date: 1/16/2013 Time: 10:30 AM PM
Duration 16 hrs. 17 min. hours/minutes Est. Flow Rate: 100/150 gpm Estimated Total Flow: 133,050 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: See attached sheet.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)
Did flow run to surface water: Yes No Name of surface water: Tributary to East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:
Names of Responders: David Patterson, Richard Carroll
Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13
Reviewed by Rick Clavin Title: Operations & Maint. Manager Date: 1/23/13
Initial TDEC Notification By: David Patterson Date: 1/15/13
After Review & Scott Pachner Title: Operations Manager Date: 1-23-13
Notification to TDEC
Final Review Wesley Cund Title: Public Works Director Date: 1/23/13
Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

CITY OF OAK RIDGE

REPORT DATE: 1/22/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1403 Oak Ridge Turnpike

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 9/18/2012

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5

Map Page # G12

Manhole # G12-1

Force Main:

FLOW DATA

Start Date: 1/15/2013 Time: 10:06 AM PM End Date: 1/15/2013 Time: 2:02 AM PM

Duration 3 hrs. 56 min. hours/minutes Est. Flow Rate: 10 gpm Estimated Total Flow: 2,360 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 1/23/13

Reviewed by Rick Clavin Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/15/13

After Review & Scott Jackson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review Scott Jackson Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

LOCATION DATA
LOCATION: 470 Oak Ridge Turnpike 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 1/23/2012

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # E10 Map Page # F20 Manhole # old-F20-25 new-F20-16 Force Main:

FLOW DATA
Start Date: 1/15/2013 Time: 9:24 AM PM End Date: 1/16/2013 Time: 3:16 AM PM
Duration 10 hrs. 35 min. hours/minutes Est. Flow Rate: 10/50 gpm Estimated Total Flow: 21,310 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: See attached sheet.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)
Did flow run to surface water: Yes No Name of surface water: Emies Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:
Names of Responders: David Patterson, Richard Carroll
Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13
Reviewed by Kick Lewis Title: Operations & Maint. Manager Date: 1/23/13
Initial TDEC Notification By: David Patterson Date: 1/15/13
After Review & Kick Lewis Title: Operations Manager Date: 1-23-13
Notification to TDEC
Final Review Greg Cund Title: Public Works Director Date: 1/23/13
Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/12

LOCATION: 535 Oak Ridge Turnpike LOCATION DATA
1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 12/7/2011 ✓

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # E13A Map Page # G20 Manhole # old-F-702 new-G20-27 Force Main:

FLOW DATA
Start Date: 1/15/2013 Time: 9:06 AM PM End Date: 1/16/2013 Time: 3:20 AM PM
Duration 11 hrs. 1 min. hours/minutes Est. Flow Rate: 50/200 gpm Estimated Total Flow: 91,850 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: See attached sheet.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)
Did flow run to surface water: Yes No Name of surface water: Emies Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:
Names of Responders: David Patterson, Richard Carroll
Report completed by: David Patterson Title: Senior Maint. Specialist Date: 1/23/13
Reviewed by: Kick Lawin Title: Operations & Maint. Manager Date: 1/23/13
Initial TDEC Notification By: David Patterson Date: 1/15/13

After Review & Kathy Stout Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review Richard Carroll Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

CITY OF OAK RIDGE

REPORT DATE: 1/22/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 191 Tusculum Dr.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 9/18/2012

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W19 Map Page # H11

Manhole # H11-4

Force Main:

FLOW DATA

Start Date: 1/15/2013 Time: 10:30 AM PM End Date: 1/16/2013 Time: 1:58 AM PM

Duration 6 hrs. 13 min. hours/minutes Est. Flow Rate: 10/16 gpm Estimated Total Flow: 4,930 gallons

4,978

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: See attached sheet.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 1/23/13

Reviewed by Rick Lawin Title: Operations & Maint. Manager Date: 1/25/13

Initial TDEC Notification By: David Patterson Date: 1/15/13

After Review & Scott Jackson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/23/13

LOCATION DATA
LOCATION: 108 Baypath Dr. 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 9/18/2012 ✓

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # E5B Map Page # L22 Manhole # L22-4 Force Main:

FLOW DATA
Start Date: 1/16/2013 Time: 8:20 AM PM End Date: 1/16/2013 Time: 2:37 AM PM
Duration 6 hrs. 17 min. hours/minutes Est. Flow Rate: 50 gpm Estimated Total Flow: 18,850 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)
Did flow run to surface water: Yes No Name of surface water: Emory Valley Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:
Names of Responders: David Patterson, Richard Carroll
Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13
Reviewed by Rich Clavin Title: Operations & Maint. Manager Date: 1/23/13
Initial TDEC Notification By: David Patterson Date: 1/16/13
After Review & Scott Jackson Title: Operations Manager Date: 1-23-13
Notification to TDEC
Final Review Greg Cook Title: Public Works Director Date: 1/23/13
Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13

REPORT DATE: 1/23/2013

CITY OF OAK RIDGE
SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 110 Bradley Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence:

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W16 Map Page # D3 Manhole # old-D3-32 new-D3-32A

Force Main:

FLOW DATA

Start Date: 1/16/2013 Time: 9:15 AM PM End Date: 1/16/2013 Time: 2:25 AM PM

Duration 5 hrs. 10 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 31,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard, Anthony Morris

Report completed by David Patterson Title: Senior Maint Specialist Date: 1/23/13

Reviewed by Rich Clavin Title: Operations & Maint Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/16/13

After Review & Scott Johnson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13

LOCATION DATA
LOCATION: 100 Dresden Rd. 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 9/18/2012

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # E13A Map Page # F20 Manhole # old-F-701A new-F20-36 Force Main:

FLOW DATA
Start Date: 1/16/2013 Time: 8:41 AM PM End Date: 1/16/2013 Time: 2:17 AM PM
Duration 5 hrs.36 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 33,600 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)
Did flow run to surface water: Yes No Name of surface water: Ernies Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Season Maint. Supervisor Date: 1/23/13

Reviewed by Rich Scriven Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/16/2013

After Review & Scott Jackson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review Scott Curd Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13

CITY OF OAK RIDGE

REPORT DATE: 1/23/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 324 S. Illinois Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 11/28/2011 ^{KS}

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W18A Map Page # J12

Manhole # J12-11

Force Main:

FLOW DATA

Start Date: 1/16/2013 Time: 12:45 AM PM End Date: 1/16/2013 Time: 7:30 AM PM

Duration 6 hrs. 45 min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 81,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe) Papa Johns Pizza, sewer came in around the base of the toilet and mop sink. See attached incident report.

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Trevor Gallaher, Rick Irwin

Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13

Reviewed by Rick Irwin Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/16/13

After Review & Notification to TDEC Kathy Stout Title: Operations Manager Date: 1-23-13

Final Review Greg Cook Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13



CITY OF OAK RIDGE

REPORT DATE: 1/23/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: Iroquois Rd. @ Robertsville Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 11/29/2011 KS
11/30/11

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # old-W11new-W18D
Force Main:

FLOW DATA

Start Date: 1/16/2013 Time: 11:07 AM PM End Date: 1/16/2013 Time: 11:07 AM PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 2000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole was not overflowing when checked but showed signs that an overflow had occurred.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13

Reviewed by Rich Carroll Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/16/13

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 1-23-13

Final Review [Signature] Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13

CITY OF OAK RIDGE

REPORT DATE: 1/23/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 215 Jefferson Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 11/29/2011 ^{K²}

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W12 Map Page # D9 Manhole # D9-6

Force Main:

FLOW DATA

Start Date: 1/16/2013 Time: 11:12 AM PM End Date: 1/16/2013 Time: 11:12 AM PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 1000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall ,5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole was not overflowing but showed signs that an overflow had occurred.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13

Reviewed by Rich Lewis Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/16/13

After Review & Scott Jackson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review W. C. ... Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13

CITY OF OAK RIDGE

REPORT DATE: 1/23/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 102 E. Newkirk Ln.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence:

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E2

Map Page # E15

Manhole # old-E15-35 new-E15-6

Force Main:

FLOW DATA

Start Date: 1/16/2013 Time: 9:14 AM PM

End Date: 1/16/2013 Time: 1:10 AM PM

Duration 3 hrs. 56 min. hours/minutes

Est. Flow Rate: 30 gpm

Estimated Total Flow: 7,080 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Emies Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson

Title: Senior Maint Specialist

Date: 1/23/13

Reviewed by Kick Laurin

Title: Operations/Maint Manager

Date: 1/23/13

Initial TDEC Notification

By: David Patterson

Date: 1/16/13

After Review &

Notification to TDEC

Scott Johnson

Title: Operations Manager

Date: 1-23-13

Final Review

W. C. Cook

Title: Public Works Director

Date: 1/23/13

Final Report Transmitted to TDEC

By: Kathy Stout

Date: 1/24/13

CITY OF OAK RIDGE

REPORT DATE: 1/23/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 116 W. Newkirk Ln.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: ~~11/29/2011~~

11/29/11 KS

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W6 Map Page # E14

Manhole # old-DA-34- new-E14-7

Force Main:

FLOW DATA

Start Date: 1/16/2013 Time: 9:23 AM PM End Date: 1/16/2013 Time: 9:23 AM PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 1000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole was not overflowing when checked but showed signs that an overflow had occurred.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Emies Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13

Reviewed by Rick Lawen Title: Operations/Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/16/13

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 1-23-13

Final Review W. J. Corder Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13

LOCATION: 1289 Oak Ridge Turnpike LOCATION DATA
1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 9/18/2012

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W5 Map Page # G13 Manhole # G13-12 Force Main:

FLOW DATA
Start Date: 1/16/2013 Time: 10:38 AM PM End Date: 1/16/2013 Time: 10:38 AM PM
Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 1000 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole showed signs of overflow when checked at 10:38 am 1/16/13

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I
WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: Tributary to East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 1/23/13

Reviewed by Rich Carroll Title: Operations Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/16/13

After Review & Scott Jackson Title: Operations Manager Date: 1-23-13
Notification to TDEC

Final Review Wayne Corder Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13

CITY OF OAK RIDGE

REPORT DATE: 1/23/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 270 Robertsville Rd. 11/16/2011 KS^{1st} Occurrence at this location? Y N

If No, Date of Last Occurrence: ~~11/29/2011~~

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W10 Map Page # E10 Manhole # old-2-80 new-E10-20 Force Main:

FLOW DATA

Start Date: 1/16/2013 Time: 11:05 AM PM End Date: 1/16/2013 Time: 11:05 AM PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 1000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 5.33 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall, 5 day rain event 1/13/13-1/17/13 totaling 5.33" of rain. Manhole was not overflowing when checked but showed signs that an overflow had occurred.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Supervisor Date: 1/23/13

Reviewed by Kick Lavin Title: Operations & Maint. Manager Date: 1/23/13

Initial TDEC Notification By: David Patterson Date: 1/16/13

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 1-23-13

Final Review W. J. Conrad Title: Public Works Director Date: 1/23/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/24/13

CITY OF OAK RIDGE

REPORT DATE: 1/31/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 119 Athens Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E11 Map Page # E22

Manhole # E22-32

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 10:19 AM PM End Date: 1/30/2013 Time: 10:00 AM PM

Duration 11 hrs. 41 min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 140,200 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to Melton Hill Lake

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by: David Patterson

Title: Senior Maint. Specialist

Date: 1/31/13

Reviewed by: Rick Clavin

Title: Operations & Maint. Manager

Date: 2/5/13

Initial TDEC Notification

By: David Patterson

Date: 1/31/13

After Review & Notification to TDEC

Scott Johnson

Title: Operations Manager

Date: 2-5-13

Final Review

Steve R. Byrd, P.E.

Title: Public Works Director

Date: 2-5-13

Final Report Transmitted to TDEC

By: Kathy Stout

Date: 2/5/13

CITY OF OAK RIDGE

REPORT DATE: 1/31/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 108 Baypath Dr.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/16/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E5B Map Page # L22

Manhole # L22-4

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 2:32 AM PM

End Date: 1/30/2013 Time: 10:05 AM PM

Duration 7 hrs. 33 min. hours/minutes

Est. Flow Rate: 500 gpm

Estimated Total Flow: 226,500 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Emory Valley Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by: David Patterson

Title: Sewer Maint Specialist

Date: 1/31/13

Reviewed by: Rick Lewis

Title: Operations & Maint Manager

Date: 2/5/13

Initial TDEC Notification

By: David Patterson

Date: 1/31/2013

After Review &

Scott Jackson

Title: Operations Manager

Date: 2-5-13

Notification to TDEC

Final Review

Steven R. Byrd, P.E.

Title: Public Works Director

Date: 2-5-13

CITY ENGR. FOR

Final Report Transmitted to TDEC

By: Kathy Stout

Date: 2/15/13

CITY OF OAK RIDGE

REPORT DATE: 1/31/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 151 Cairo Ln.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E13B Map Page # G22

Manhole # G22-14

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 2:22 AM PM

End Date: 1/31/2013 Time: 12:22 AM PM

Duration 10 hrs. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 120,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Ernies Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson

Title: Sewer Maint. Section

Date: 1/31/13

Reviewed by Rich Carson

Title: Operations & Maint. Manager

Date: 2/5/13

Initial TDEC Notification

By: David Patterson

Date: 1/31/2013

After Review &

Notification to TDEC

Scott Johnson

Title: Operations Manager

Date: 2-5-13

Final Review

Steven R. Byrd P.E.

Title: Public Works Director

Date: 2-5-13

Final Report Transmitted to TDEC

By: Kathy Stout

Date: 2/5/13

CITY OF OAK RIDGE

REPORT DATE: 1/31/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 100 Dresden Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/16/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E13A Map Page # F20

Manhole # F20-36

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 2:09 AM PM

End Date: 1/30/2013 Time: 9:30 AM PM

Duration 7 hrs. 21 min. hours/minutes

Est. Flow Rate: 100 gpm

Estimated Total Flow: 44,100 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Ernies Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson

Title: Senior Maint. Specialist

Date: 1/31/13

Reviewed by Kathy Stout

Title: Operations & Maint. Manager

Date: 2/5/13

Initial TDEC Notification

By: David Patterson

Date: 1/31/2013

After Review & Scott Jackson

Title: Operations Manager

Date: 2-5-13

Notification to TDEC

Final Review Steven R. Boyd, P.E.

Title: Public Works Director

Date: 2-5-13

Final Report Transmitted to TDEC

By: Kathy Stout

Date: 2/5/13

LOCATION DATA

LOCATION: 114 Grandcove Ln. 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 1/30/2012

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W27 Map Page # E3W Manhole # E3W-9 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 3:10 AM PM End Date: 1/30/2013 Time: 10:00 AM PM
Duration 6 hrs.50 min. hours/minutes Est. Flow Rate: 50 gpm Estimated Total Flow: 20,500 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll, Anthony Morris

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/1/13

Reviewed by Kirk Shuman Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13

LOCATION DATA

LOCATION: 216 S. Illinois Ave. 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/14/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None

If Manhole; Give Mini-system # W18A Map Page # J11 Manhole # J11-16 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 11:30 AM PM End Date: 1/30/2013 Time: 10:00 AM PM

Duration 10 hrs. 30 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 63,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/1/13

Reviewed by Rick Clewin Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13
CITY ENGR. FOR

Final Report Transmitted to TDEC By: Kathy Stout Date: _____

LOCATION: 324 S. Illinois Ave 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/16/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W18A Map Page # J12 Manhole # J12-11 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 12:52 AM PM End Date: 1/30/2013 Time: 7:00 AM PM

Duration 6 hrs. 8 min. hours/minutes Est. Flow Rate: 10 gpm Estimated Total Flow: 3,680 gallons

CAUSES
(Check all that apply)

Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe) Sewer backed up into mop sink, and around base of toilet Papa Johns pizza.

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll and Rick Irwin

Report completed by David Patterson Title: Sewer Maint. Supervisor Date: 2/1/13

Reviewed by Rick Irwin Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout ^{CITY ENGR. FOR} Date: 2/5/13

CITY OF OAK RIDGE

REPORT DATE: 2/1/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: Iroquois Rd. @ Robertsville Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/16/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W18D Map Page # E10

Manhole # E10-19

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 1:12 AM PM

End Date: 1/30/2013 Time: 8:28 AM PM

Duration 7 hrs.16 min. hours/minutes

Est. Flow Rate: 150 gpm

Estimated Total Flow: 65,400 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/1/13

Reviewed by Kick Lounis Title: Operations/Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13

CITY OF OAK RIDGE

REPORT DATE: 2/1/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: Jefferson Ave. @ Robertsville Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 11/23/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W12 Map Page # E9

Manhole # E9-15

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 11:00 AM PM End Date: 1/30/2013 Time: 11:40 AM PM

Duration 40 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 4,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" in 14 hrs, ran root saw and got rags and sticks out of main.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll, Mark Maples, Pat Mrochek, Leon Smith

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/1/13

Reviewed by Kick Slavin Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout Title: CITY ENGR FOR Date: 2/5/13

CITY OF OAK RIDGE

REPORT DATE: 2/1/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 215 Jefferson Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/16/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W12 Map Page # D9

Manhole # D9-6

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 1:19 AM PM

End Date: 1/30/2013 Time: 5:02 AM PM

Duration 3 hrs. 43 min. hours/minutes

Est. Flow Rate: 100 gpm

Estimated Total Flow: 22,300 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson

Title: Senior Maint. Specialist Date: 2/1/13

Reviewed by Rick Lewis

Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification

By: David Patterson

Date: 1/31/13

After Review & Notification to TDEC Scott Jackson

Title: Operations Manager

Date: 2-5-13

Final Review Steven R. Byrd, P.E.

Title: Public Works Director

Date: 2-5-13

Final Report Transmitted to TDEC

By: Kathy Stout

Date: 2/5/13

CITY OF OAK RIDGE

REPORT DATE: 1/31/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 695 Melton Lake Dr.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E20 Map Page # L24

Manhole # L24-1

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 2:28 AM PM End Date: 1/31/2013 Time: 1:00 AM PM

Duration 10 hrs. 32 min. hours/minutes Est. Flow Rate: 300 gpm Estimated Total Flow: 189,600 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Melton Hill Lake

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Inspector Date: 1/31/13

Reviewed by Rich Lanni Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13

LOCATION DATA
LOCATION: 1403 Oak Ridge Turnpike 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W5 Map Page # G12 Manhole # G12-1 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 11:22 AM PM End Date: 1/30/2013 Time: 8:10 AM PM
Duration 8 hrs. 48 min. hours/minutes Est. Flow Rate: 50 gpm Estimated Total Flow: 26,400 gallons

CAUSES
(Check all that apply)

Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: Tributary to East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/1/13

Reviewed by Kirk Brown Title: Operations/Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13
CITY ENGR. FOR

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13

LOCATION DATA
LOCATION: 1403 Oak Ridge Turnpike 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W5 Map Page # G11 Manhole # G11-8 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 11:20 AM PM End Date: 1/30/2013 Time: 11:00 AM PM

Duration 11 hrs. 40 min. hours/minutes Est. Flow Rate: 500 gpm Estimated Total Flow: 350,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: Tributary to East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/1/13

Reviewed by Rich Lewis Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Johnson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13
CITY ENGR. FOR

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13

LOCATION DATA
LOCATION: 1403 Oak Ridge Turnpike 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W5 Map Page # G12 Manhole # G12-2 Force Main:

FLOW DATA
Start Date: 1/30/2013 Time: 11:24 AM PM End Date: 1/30/2013 Time: 9:30 AM PM
Duration 10 hrs. 6 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 60,600 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)
Did flow run to surface water: Yes No Name of surface water: Tributary to East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:
Names of Responders: David Patterson, Richard Carroll
Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/1/13
Reviewed by Kick Lewis Title: Operations & Maint. Manager Date: 2/5/13
Initial TDEC Notification By: David Patterson Date: 1/31/13
After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC
Final Review Steve R. Byrd, P.E. Title: Public Works Director Date: 2-5-13
Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13

LOCATION DATA
LOCATION: 470 Oak Ridge Turnpike 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # E10 Map Page # F20 Manhole # F20-16 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 10:30 AM PM End Date: 1/30/2013 Time: 9:25 AM PM
Duration 10 hrs. 55 min. hours/minutes Est. Flow Rate: 50 gpm Estimated Total Flow: 32,750 gallons

CAUSES
(Check all that apply)

Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.45" in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: Ernies Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/1/13

Reviewed by Richard Carroll Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steve R. Byrd, P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout Date: 2-5-13

REPORT DATE: 2/1/2013

CITY OF OAK RIDGE
SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 535 Oak Ridge Turnpike

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E13A Map Page # G20

Manhole # G20-27 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 10:07 AM PM End Date: 1/30/2013 Time: 9:20 AM PM

Duration 11 hrs. 23 min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 134,600 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Ernies Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/1/13

Reviewed by Scott Jackson Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 2-5-13

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout Title: CITY ENGR. FOR Date: 2-5-13

LOCATION DATA

LOCATION: 117 N. Purdue Ave. 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 1/14/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W5 Map Page # G15 Manhole # G15-13 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 11:10 AM PM End Date: 1/31/2013 Time: 1:10 AM PM
Duration 14 hrs. hours/minutes Est. Flow Rate: 500 gpm Estimated Total Flow: 420,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.45" in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: Tributary to East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/1/13

Reviewed by Rick Lawson Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steve R. Byrd, P.E. Title: Public Works Director Date: 2-5-13
CITY ENGR. FOR

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13

CITY OF OAK RIDGE

REPORT DATE: 2/1/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 270 Robertsville Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/16/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W10 Map Page # E10

Manhole # E10-20

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 1:08 AM PM

End Date: 1/30/2013 Time: 8:10 AM PM

Duration 7 hrs.2 min. hours/minutes

Est. Flow Rate: 50 gpm

Estimated Total Flow: 21,100 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil

Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson

Title: Senior Maint Specialist

Date: 2/1/13

Reviewed by Kick Lawin

Title: Operations & Maint. Manager

Date: 2/5/13

Initial TDEC Notification

By: David Patterson

Date: 1/31/13

After Review & Scott Jackson

Title: Operations Manager

Date: 2-5-13

Notification to TDEC

Final Review Steven R. Byrd, P.E.

Title: Public Works Director

Date: 2-5-13

Final Report Transmitted to TDEC

By: Kathy Stout

Date: 2/5/13

CITY OF OAK RIDGE

REPORT DATE: 2/1/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 160 W. Tennessee Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E2

Map Page # F16

Manhole # F16-42

Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 2:00 AM PM

End Date: 1/30/2013 Time: 8:05 AM PM

Duration 6 hrs. 5 min. hours/minutes

Est. Flow Rate: 30 gpm

Estimated Total Flow: 10,950 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.45" in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Ernies Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/1/13

Reviewed by Rick Lavin Title: Operations & Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13

LOCATION DATA
LOCATION: 191 Tusculum Dr. 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/15/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W19 Map Page # H11 Manhole # H11-4 Force Main:

FLOW DATA

Start Date: 1/30/2013 Time: 1:00 AM PM End Date: 1/30/2013 Time: 9:30 AM PM
Duration 8 hrs. 30 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 51,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.45 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: Excessive rainfall 2.45" rain in 14 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: David Patterson, Richard Carroll

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/1/13

Reviewed by Scott Lawson Title: Operations Maint. Manager Date: 2/5/13

Initial TDEC Notification By: David Patterson Date: 1/31/13

After Review & Scott Jackson Title: Operations Manager Date: 2-5-13
Notification to TDEC

Final Review Steven R. Byrd, P.E. Title: Public Works Director Date: 2-5-13

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/5/13
CITY ENGINEER FOR

CITY OF OAK RIDGE

REPORT DATE: 2/11/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 108 Jersey Ln.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence:

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W12 Map Page # B-09

Manhole # Sewer Lateral

Force Main:

FLOW DATA

Start Date: 2/10/2013 Time: 11:00 AM PM End Date: 2/10/2013 Time: 4:30 AM PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 30 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Settling of the soil from a previous repair caused the pipe to drop and separate ,causing sewer problems for 108 Jersey Ln. Water back up in the house when the shower was used.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: The section of the sewer lateral that had seperated was excavated and repaired. Sewer came out of the pipe when it was exposed and was absorbed in the ground.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water:

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Ronnie Farmer, Jackie Harmon and Elvis Turpin

Report completed by Rick Irwin Title: Operations & Maint. Manager Date: 2/12/13

Reviewed by _____ Title: _____ Date: _____

Initial TDEC Notification By: Rick Irwin Date: 2/11/13

After Review & Scott Jackson Title: Operations Manager Date: 2-13-13
Notification to TDEC

Final Review Scott Conder Title: Public Works Director Date: 2/13/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/13/13

CITY OF OAK RIDGE

REPORT DATE: 3/5/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 130 Alger Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence:

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system #

Map Page # D-23

Manhole #

Force Main:

FLOW DATA

Start Date: 3/3/2013 Time: 12:00 AM PM End Date: 3/3/2013 Time: 1:00 AM PM

Duration 1 hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 10 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Sewer main was blocked in the manhole with roots suspected to have come from cleaning contractors that had been working on the sewer mains above this manhole. The manhole backed up causing sewer to go into the lateral for 130 Alger Rd. causing sewer to go into the basement through the block wall.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: Sewer lateral will also be inspected for problems.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water:

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements 1 Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Ronnie Farmer, Elvis Turpin and Chuck Woods

Report completed by Rick Irwin Title: Operations + Maint. Manager Date: 3/6/13

Reviewed by _____ Title: _____ Date: _____

Initial TDEC Notification By: Rick Irwin Date: 3/4/2013

After Review & Notification to TDEC Rick Irwin Title: Operations Manager Date: 3-6-13

Final Review Greg Corder Title: Public Works Director Date: 3/6/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/6/13

CITY OF OAK RIDGE

REPORT DATE: 3/6/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 117 N. Purdue Ave.

1st Occurrence at this location? Y N KS

If No, Date of Last Occurrence: 1/30/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5

Map Page # G15

Manhole # G15-13

Force Main:

FLOW DATA

Start Date: 3/5/2013 Time: 6:51 AM PM

End Date: 3/5/2013 Time: 8:31 AM PM

Duration 1 hr 40 min. hours/minutes

Est. Flow Rate: 100 gpm

Estimated Total Flow: 10,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 1.4 in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: excessive rainfall 1.4" in 12 hrs.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: David Patterson, Leon Smith

Report completed by David Patterson Title: Senior Maint. Specialist Date: 3/6/13

Reviewed by Mark Elwin Title: Operations & Maint. Manager Date: 3/6/13

Initial TDEC Notification By: David Patterson Date: 3/6/13

After Review & Kathy Stout Title: Operations Manager Date: 3-6-13
Notification to TDEC

Final Review W. Cund Title: Public Works Director Date: 3/6/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/6/13

CITY OF OAK RIDGE

REPORT DATE: 4/2/2013

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 136 Nevada Cir.

1st Occurrence at this location? Y N KS

If No, Date of Last Occurrence:

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5 Map Page # H14 Manhole # Force Main:

FLOW DATA

Start Date: 3/28/2013 Time: 7:00 AM PM End Date: 3/28/2013 Time: 7:45 AM PM

Duration 12hrs 45mins hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 50 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: The common sewer lateral for house's 136 and 138 Nevada Cir. was stopped up with roots. Each time 138 used water it would back up into the residence at 136 Nevada Cir.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: The common lateral will be tv'd and repaired.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water:

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe) Bathroom

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Bobby Moran, Brian Simmons and Justin Brown.

Report completed by Nick Chauvin Title: Operations + Maint. Manager Date: 4/2/13

Reviewed by Brian Simmons Title: UTILITY SPECIALIST Date: 4-2-13

Initial TDEC Notification By: Bobby Moran Date: 2/28/13

After Review & Kath Jackson Title: Operations Manager Date: 4-3-13
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 4/3/13

Final Report Transmitted to TDEC By: Kathy Stout Date: 4/3/13