



# Sanitary Sewer Overflow Annual Report

Division of Surface Water

**Date:** 3/15/18  
**Facility name:** Department of Water, Water Utility Field Operations, Sewer Maintenance Bureau  
**Ohio NPDES permit no.:** 1PF00000\*OD  
**Period covered by report:** March 15, 2017 to March 15, 2018

**Contact person**

**Name:** Anthony Wade  
**Title:** Operations Administrator  
**Mailing address:** 900 Ottawa Street , Dayton, Ohio 45402  
**Telephone:** (937)333 - 4918  
**Email:** anthony.wade@daytonohio.gov

**Certification:**

*I certify under penalty of law that I have personally examined and am familiar with the information in this report and all attachments. Based on my inquiry of those persons immediately for obtaining the information contained in the report, I believe that the information is true, accurate, and complete.*

**Name** Anthony Wade  
**(typed):**

**Title:** Operations Administrator

**Signature:**

**Date:**

3/15/18

**SSO Annual Report Table 1: SSO Identification**

Ohio NPDES Permit No.: 1PF00000\*OD

Identification No. <sup>A</sup>	Location Description	Receiving Water <sup>B</sup>	Eliminated <sup>C</sup>
301-0123170830	N Gettysburg Av & Cornell Dr	Wolf Creek-WCL-26	
301-0130171510	4224 Larchmont Dr	Wold Creek-WCL-18	
301-0204171137	1667 Garwood Dr	Little Beaver Creek LBR-12	
301-0207170659	1313 Harvard Blvd	Wolf Creek-WCL-14	
301-0212171726	Valley Pk & Stegman Av	Mad River-MRR-16	
301-0304172003	Brown St & Wyoming St	Great Miami River-GML-21	
301-0421171202	1403 Business Center Ct	Lily Creek-LCL-19	
301-0604171027	3619 Fairbanks Av	Wolf Creek-WCR-17	
301-0617170725	1100 E Monument Av	Mad River-MRL-02	
301-0623171901	Xenia Av & Pritz Av	Great Miami River-GML-27	
301-0728171509	Brookside Dr & Marathon Av	Still Water River-SWR-08	
301-0731170735	Nancy Av & Ravine Av	Great Miami River-TGM-02A	
301-0824171053	Heartsoul Dr & Albritton Dr	Great Miami River-GMR-05-005	
301-0906170755	W Monument Av & Riverview Av	Great Miami River-GMR-44	
301-1025171705	3938 Prescott Av	Wolf Creek-WCL-26	
301-1101172124	108 Cambridge Av	Wolf Creek-WCL-11	
301-1105170830	Guthrie Rd & Train Testle Bridge	Great Miami River-GMR-03	
301-1208170844	N Main St & W Burton Av	Still Water River-SWR-07	
301-1221171422	400 Springfield St	Mad River-MRL-09	

- A. Assign each SSO location a unique identification by numbering them consecutively, beginning with 301.
- B. Enter name of receiving water. If an SSO enters a storm sewer, enter "SS to (name of receiving water)." If an SSO does not reach a receiving water, enter (None)".
- C. If an SSO has been eliminated, enter the date of elimination (MM/DD/YY).

Use additional pages as needed.





Enter narrative analysis of WIB patterns by location, frequency and cause.

The City of Dayton, Department of Water, Division of Water Utility Field Operations Sewer Maintenance Bureau maintains a twenty-four hour seven days weekly emergency service to investigate all customer complaints. The Bureau has a 90-minute response time parameter to resolve all reported service requests and emergencies. For this calendar year WIB's increased by eight (8) occurrences. A query of our data base generated a total of 50 WIBs, in 2017, and none were directly related to Sanitary Sewer Overflows (SSOs). The noticeable changes in the Southeast Sewershed were, 19 WIBs in 2016 and 22 WIBs in 2017; of the 22 WIBs there were no "other" blockages recorded. In the Upper Riverdale Sewershed, there was 1 WIB in 2017 and 0 WIBs in 2016. In the Wolf Creek Sewershed, there were 10 WIBs in 2016 and 13 in 2017, one (1) "other" blockage was recorded. After thorough investigation, the reason for the "other" blockage could not be determined. In the Miscellaneous Sewershed there were 3 WIBs in 2016 and 8 in 2017. In the Lucille Sewershed there were 2 WIBs in 2016 and 6 in 2017 and no "other" blockages were recorded. In the Northeast Sewershed there were 5 WIBs in 2016 and 0 in 2017. In the Southeast Sewershed, there were five (5) SSOs due to root infestation, grease, and debris. After investigation, one (1) of these SSOs was found to be associated with an overtaxed sewer due to inclement weather and one (1) was due to an operator pumping waste water into the mainline at an accelerated rate, overwhelming the capacity of the mainline. The operator was advised to regulate the pumping volume to eliminate reoccurrence. There were no SSO occurrences in the Northeast Sewershed during this period. There were three (3) SSO occurrences in the Miscellaneous Sewershed due to debris and grease. There were seven (7) SSO occurrences in the Wolf Creek Sewershed due to equipment failure, debris and grease; no "other" blockages were recorded. One (1) of these SSOs was due to equipment failure; a blown fuse did not allow the generator to start, which supplies power to the pump station apparatus. Pump station crews completed the repairs in a timely manner and restarted the station immediately. This sewershed has been a potentially high grease incidence area; grease treatment blocks and solvent have been used to deter stoppages and blockages, which lead to SSO occurrences. This area has also been canvassed with "Grease Monster Kits", which encourages our customers not to dispose of grease into their drains which lead to our sanitary sewer collection system in the pursuit of mitigating SSO reoccurrences. In the Upper Riverdale Sewershed there was one (1) SSO occurrence due to grease and debris. Rags and/or wipes were discovered in the mainline, after investigation, the origin of these objectionable materials could not be determined. In the Lucille Sewershed there were two (2) SSOs due to grease, roots and debris. One of these occurrences was due to mainline deterioration. Repairs were scheduled and completed in a timely manner. There was one (1) SSO in the Stillwater Sewershed due to debris in the mainline. It is the Bureau's intent to address these measures with enhancement of the following programs. The Bureau has a standard operating procedure in place to treat all sanitary sewer mains for root growth, which has been associated with causing stoppages, which could potentially create Sanitary Sewer Overflows (SSOs). This plan is continuously being enhanced by increasing the number of sanitary sewers treated for roots upon discovery and following up with CCTV investigations to ensure the reduction of root growth. The Bureau has also purchased sewer cleaning nozzles and a Rodder in the pursuit of reducing root infestation in our sanitary sewer collection system. For this period there were only two (2) WIBs due to root infestation, which reflects the effectiveness of our standard operating procedures. The Bureau is also addressing grease build up within the sanitary sewer mainlines. For this period, grease occurrences are trending upward. The Bureau has purchased grease blocks and solvent, for placement in high frequency grease locations of the sanitary sewer collection system, in an effort to reduce occurrences of grease stoppages and blockages. For this period, the Bureau launched its forth campaign of the "Grease Monster Program", which is designed to inform the residents and/or customers of the challenges the Bureau faces when grease is intentionally disposed in our sanitary sewer collection system. The areas canvassed are high grease incidence areas; it is hypothesized that once residents receive these materials they will dispose their grease waste in accordance with the guidelines and directions specified within. After completing the distribution of these kits to a significant number of our customers, our Bureau will analyze the data and determine the effectiveness of the program. These measures are designed to aid in reducing stoppages, which lead to WIBs, which leads to Sanitary Sewer Overflow (SSO) occurrences due to grease build up. For this period, there were 2 WIB occurrences due to root infestation that were unrelated to sanitary sewer overflows (SSOs). There were two (2) SSOs related to root infestation. The Bureau is performing aggressively in of our efforts in addressing root incidents. The Bureau is continuing to invest in the latest equipment and technologies in the pursuit of reducing grease occurrences. The Bureau performs routine cleaning and CCTV investigations throughout the year in an effort to reduce blockages, stoppages and SSO occurrences, as well as, confirm the integrity of our sanitary sewers and assess the conditions of our collection system, keeping spans opened to safely convey raw sewage to our reclamation facility for treatment. As per rules and regulations of the Ohio EPA with regard to our NPDES Permit, the Bureau has submitted its first MOM Program, which is designed to enhance the performance of our sanitary sewer collections system. It is the Bureau's goal to reduce sanitary sewer stoppages, lower WIB occurrences and ultimately reduce SSO frequency to ZERO in the years to come. For this period, the Bureau is performing proficiently.