



Sanitary Sewer Overflow Annual Report

Division of Surface Water

Date: March 15, 2021
Facility name: Department of Water, Water Utility Field Operations, Sewer Maintenance Bureau
Ohio NPDES permit no.: 1PF00000*PD
Period covered by report: March 15, 2020 to March 15, 2021

Contact person

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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:

3/15/21

SSO Annual Report Table 1: SSO Identification		Ohio NPDES Permit No.: 1PF00000*PD	
Identification No. ^A	Location Description	Receiving Water ^B	Eliminated ^C
301-0112201046	Bedford Av & Fairbanks Av	Wolf Creek-WCR-16	
301-0118200000	2300 S Edwin C Mosses Blvd	Great Miami River-GML-15	
301-0118200630	S Broadway St & Nicholas Rd	Great Miami River-GML-10	
301-0210201540	Salem Av & Philadelphia Dr	Wolf Creek-WCL-20	
301-0210201711	215 E Third St	Mad River-MRL-01	
301-0221201103	117 Grant St	Mad River-MRR-11	
301-0224200815	1051 Hughes Pl	Great Miami River-GMR-05A	
301-0303200434	Xenia Av & Pritz Av	Great Miami River-GML-27	
301-0303201050	S Edwin Moses Blvd & Albany St	Great Miami River-GMR-24	
301-0303201246	3568 Roejack Dr	Great Miami River-GMR-05	
301-0309201101	144 E Helena St	Great Miami River-GML-60	
301-0319200817	524 Watervliet Av	Lily Creek-LBR-02	
301-0320200232	N Gettysburg Av & Cornell Dr	Wolf Creek-WCL-26	
301-0320200355	Highland Hills Av & Xenia Av	Great Miami River-GML-27	
301-0320200424	5307 Northcutt Pl	Stillwater River-TSW-09	
301-0320200630	2800 Guthrie Rd	Great Miami River-GMR-03	
301-0320200757	3500 Deweese Pkwy	Stillwater River-SWL-03	
301-0325200955	Danner Av & Guthrie Rd	Great Miami River-GMR-03	
301-0416201348	1149 Rubicon Rd	Great Miami River-GML-21	
301-0423201633	1204 Kenyon Pl	Wolf Creek-WCL-11	
301-0519200744	N Gettysburg Av & Cornell Dr	Wolf Creek-WCL-26	
301-0519200704	Highland Hills Av & Xenia Av	Great Miami River-GML-27	
301-0822201017	Delphos Av & Fairbanks Av	Wolf Creek-WCR-18	
301-1002201016	Lakeview Av & Maclin St	Great Miami River-GMR-05	
301-1107201214	N Main St & E Burton Av	Stillwater River-SWR-07	
301-1221201002	1219 Oxford Av	Wolf Creek-WCL-18	

- 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.

SSO Annual Report Table 2: SSO Event Information

Ohio NPDES Permit No.: 1PF00000*PD

Date ^A	Identification No. ^B	Receiving Water ^C	Volume ^D
01/12/20	301-0112201046	(305) Wolf Creek Sewershed	0.01[MG]
01/18/20	301-0118200000	(304) Miscellaneous Sewershed	Unknown
01/18/20	301-0118200630	(304) Miscellaneous Sewershed	0.054
02/10/20	301-0210201540	(305) Wolf Creek Sewershed	0.0005
02/10/20	301-0210201711	(303) Southeast Sewershed	0.000001
02/21/20	301-0221201103	(302) Lucille Sewershed	0.00005
02/24/20	301-0224200815	(304) Miscellaneous Sewershed	0.0002
03/03/20	301-0303200434	(303) Southeast Sewershed	0.006
03/03/20	301-0303201050	(304) Miscellaneous Sewershed	Unknown
03/03/20	301-0303201246	(304) Miscellaneous Sewershed	0.001
03/09/20	301-0309201101	(302) Lucille Sewershed	0.002
03/19/20	301-0319200817	(303) Southeast Sewershed	0.0005
03/20/20	301-0320200232	(305) Wolf Creek Sewershed	0.055
03/20/20	301-0320200355	(303) Southeast Sewershed	0.0114
03/20/20	301-0320200424	(301) Northeast Sewershed	0.0017
03/20/20	301-0320200630	(304) Miscellaneous Sewershed	0.00021
03/20/20	301-0320200757	(301) Northeast Sewershed	0.0027
03/25/20	301-0325200955	(304) Miscellaneous Sewershed	0.01
04/16/20	301-0416201348	(303) Southeast Sewershed	0.000005
04/23/20	301-0423201633	(305) Wolf Creek Sewershed	0.0002
05/19/20	301-0519200744	(305) Wolf Creek Sewershed	0.071
05/19/20	301-0519200704	(303) Southeast Sewershed	0.456
08/22/20	301-0822201017	(305) Wolf Creek Sewershed	0.005
10/02/20	301-1002201016	(304) Miscellaneous Sewershed	0.000005
11/07/20	301-1107201214	(307) Upper Riverdale Sewershed	0.000005
12/21/20	301-1221201002	(305) Wolf Creek Sewershed	0.0002
	26		0.687676 [MG]

- A. Enter date as "MM/DD/YY". Enter "Various" to summarize overflows of less than 1000 gallons from an SSO location
- B. Enter the unique identification assigned in Table 1.
- C. 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".
- D. Enter estimate of volume in MG (million gallons). Enter estimate of total volume if summarizing data.

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 implemented to investigate all customer complaints. For this calendar year WIB's increased by 3 occurrences. A query of our data base generated a total of 49 WIBs in 2020 and none were directly related to Sanitary Sewer Overflows (SSOs). WIBs decreased in the Southeast Sewershed to 20 WIBs in 2020, there were 25 WIBs in 2019; of the 20 WIBs there were no "other" blockages recorded. There were 4 WIBs in the Upper Riverdale Sewershed, there were no WIBs in 2019, with no other significant changes. In the Wolf Creek Sewershed, there were 18 WIBs in 2020 and 12 in 2019, increasing by 6 occurrences, no "other" blockages were recorded. In the Miscellaneous Sewershed, there were 3 WIBs in 2019 and 3 in 2020, the occurrences were unchanged and no significant changes in the Sewershed. In the Lucille Sewershed there were 6 WIBs in 2019 and 4 in 2020, decreasing by two, and no "other" blockages were recorded. In the Northeast Sewershed there were no WIBs in 2019 and none in 2020, the occurrences were unchanged and no significant changes in the Sewershed. In the Upper Riverdale Sewershed there were 4 WIBs in 2020 and none in 2019 with no significant changes. In the Southeast Sewershed, there were 6 SSOs due to extreme weather, grease, and debris. After investigation, 3 of these SSOs were found to be associated with an overtaxed sanitary sewer due to inclement weather, the remaining occurrences were due to grease, debris and an unidentified condition. There were follow up investigations performed, which initiated needed and necessary maintenance activities in an effort to correct inadequacies with regard to our findings. In the Northeast Sewershed there were 2 SSO occurrences due to inclement weather overtaxing the sanitary sewer. The Engineering Group is in the process of addressing overtaxing sewers toward eliminating reoccurrences via modeling. There were 8 SSO occurrences in the Miscellaneous Sewershed due to equipment failure, grease, debris, roots and extreme weather; occurrences increased by 6 since 2019. There were 7 SSO occurrences in the Wolf Creek Sewershed, decreasing by 7, due to equipment failure, inclement weather, and grease; there were no significant changes in this sewershed since 2019. This sewershed continues to be a high grease incidence area; grease treatment blocks and solvent have been used to deter stoppages and blockages, which lead to SSO occurrences. Crews have increased the frequency of maintenance in this sewershed in an effort to reduce grease stoppage and blockage occurrences. In the Upper Riverdale Sewershed, there was 1 SSO occurrence due to debris, occurrences decreased by 1 since 2019. The performance in this sewershed has improved, however, infiltration and inflow have typically negatively impacted the performance of this area, but there were no occurrences during this period. In the Lucille Sewershed, there were 2 SSOs due to debris and grease; decreasing by 1, since 2019, there are no noticeable changes in this sewershed. It is the Bureau's intent to address these measures with enhancement of the following procedures. The Bureau has a standard operating procedure in place to treat sanitary sewer mainlines for root growth; incidents have decreased during this period, which has decreased stoppages and blockages with regard to root growth, which 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 reduction of root intrusion. The Bureau is increasing the frequency of the use of a Rodder, purchased several years ago, in the pursuit of reducing root infestation in our sanitary sewer collection system. For this period there were 3 WIBs due to root infestation, and 1 SSOs due to root intrusion, which reflects the effectiveness of our standard operating procedures, and has reversed the upward trend. The Bureau is also addressing grease build up within the sanitary sewer mainlines. For this period, grease occurrences are relatively unchanged, showing that grease incidence remains problematic. The Bureau is continuing the use of grease blocks and solvent, for implementation in high frequency grease areas of the sanitary sewer collection system, in an effort to reduce occurrences of grease stoppages and blockages. For this period, the Bureau postponed the "Grease Monster Program", due to the COVID-19 emergency, 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. 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. The Bureau is performing well in our efforts in addressing root intrusion. The Bureau must enhance its efforts to continue in the pursuit of reducing grease stoppage and blockage occurrences. For this period the Bureau is continuing to experience users disposing of non-biodegradable and objectionable solids into the sanitary sewer collection system. Once the origin of entry is confirmed, supervision has served "cease and desist" warnings to these violators, which are designed to deter improper disposals of this nature. The Bureau is continuing to invest in the latest equipment, most advanced training and associated technologies in the pursuit of reducing grease incidents. 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 sanitary sewer 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 fourth MOM Program, which is designed to enhance the performance of our sanitary sewer collections system. It is the Bureaus' 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 continues to perform proficiently.