

**2019 ANNUAL
SANITARY SEWER OVERFLOW (SSO) REPORT**

**Prepared by the
Tuscarawas County Metropolitan Sewer District**

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There were no documented SSOs in the following TCMSD systems in 2019

- *Kerr WWTP and Sanitary Sewer Collection System*
- *Port Washington Sanitary Sewer Collection System*
- *Sandyville-East Sparta WWTP and Sanitary Sewer Collection System*
- *Stone Creek WWTP and Sanitary Sewer Collection System*
- *Wainwright Sanitary Sewer Collection System*
- *Midvale / Barnhill Sanitary Sewer Collection System*

Section 1 – Press Release

Tuscarawas County Metropolitan Sewer District
9944 Wilkshire Boulevard NE
Bolivar, OH 44612

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Press Release

The Tuscarawas County Metropolitan Sewer District is pleased to announce that our 2019 Annual Sanitary Sewer Overflow (SSO) Report is available for public viewing at:

<https://www.tcmsd.org/documents/1018/2019SSO.pdf>

The purpose of this report is to provide a summary of all SSOs and their relative locations that occurred during 2019. In accordance with the permit requirements for our various sewer collection systems and wastewater treatment plants (WWTPs), as well as the provisions of the Clean Water Act, we are required to maintain our systems in good working order and operate as efficiently as possible to achieve compliance. In order to achieve compliance, we are tasked with the responsibility to prevent discharges to the waters of the state, surface of the ground, basements, homes, and buildings.

Our annual report provides information on how well we are progressing towards meeting the ultimate goal of eliminating SSOs. It also provides important education and outreach relating to SSOs and steps that the customer can take to help eliminate these occurrences.

Section 2 - A Customer's Guide to Sanitary Sewer Overflows

A Customer's Guide to Sanitary Sewer Overflows

What is a Sanitary Sewer and what is its purpose?

A sanitary sewer collects and carries household and industrial sewage from individual buildings such as homes and commercial businesses through a series of progressively larger sewer pipes called the "collection system". Separate sanitary sewer systems are not designed to carry rain water.

The primary purpose of a separate sanitary sewer is to protect public health and the environment. Raw sewage contains disease-causing organisms, which can make people sick if they become directly exposed. Raw sewage also can contain toxic chemicals and offensive odors. The sanitary sewer system carries the raw sewage away from homes to a treatment plant where most of the harmful organisms are destroyed, odors are controlled, and the level of toxic chemicals is reduced.

Why are Sanitary Sewer Overflows a Public Health, Environmental and Economic Problem?

Sanitary Sewer Overflows (SSOs) occur when raw or partially diluted sewage is discharged from a sewer collection system before it reaches the sewage treatment plant. SSOs threaten public health because they can cause people to be directly exposed to disease-causing germs called "pathogens", such as E. coli, which are present in sewage. SSO's can also have negative impacts on the natural environment, causing poor water quality in lakes, rivers and streams, and polluting groundwater, which may be used for drinking water purposes. SSOs that result in basement flooding not only are unhealthy, but also are extremely unpleasant and costly to clean up. Where these chronically occur, property values may be reduced.

How Might You Be Contributing to the Problem of SSOs?

Many property owners are not aware that the maintenance of the sewer line connection between a home and the main sewer line in the street is their responsibility. When poorly constructed or improperly maintained, these connections frequently cause raw sewage to back up in basements.

The connection of roof-gutter downspouts or sump-pump drains directly to the service lateral adds excess water to the main sewer lines, and can contribute to raw sewage being discharged into the streets and other public areas. Homes and small businesses, such as restaurants, can contribute to SSO's by disposing grease into the sewer line. When grease cools, it can form blockages, which then cause the sewer to overflow.

What Should You Do When You Identify an SSO?

Make sure that people are kept away from the area of the overflow, typically a manhole cover. This is especially important for children and pets that may play near the overflow area (street, public park, or local stream). Report the overflow immediately to the Tuscarawas County Metropolitan Sewer District (330-874-3262). Precautions can then be taken to reduce the risk of public exposure to raw sewage by monitoring the impact of the overflow and ensuring proper cleanup.

What Can You Do to Prevent and Reduce SSOs?

You can prevent and reduce SSOs if you...

- Make sure the basement sump pump does not connect to your sewage drain pipes or to a sink or floor drain in your basement. Such connections are illegal. The water from these pumps can overload the sewer causing it to overflow raw sewage into a stream, street, or someone else's basement.
- Inspect the gutters on your house or business to see if the down spout connects to a sewer line. Such connections are illegal. If the gutters are connected to the sewer line, have them disconnected. The runoff water from the roof can contribute to an SSO.

A Customer's Guide to Sanitary Sewer Overflows (cont'd)

- Look for and check your sewer clean out. The clean out usually is a small pipe, about 4" in diameter, outside your house that is used to access the service lateral for cleaning the sewer line. You can find it near the house, where the service lateral comes out, and/or near the street, where the service lateral connects to the main sewer line. Make sure the cap to the clean out pipe is on and has not been damaged. Replace missing caps; otherwise, rain can get into the sewer line, causing it to overflow.
- Avoid pouring grease down your sink. When the grease cools in the sewer line, it can form clogs and blockages, which then can cause the sewer to overflow or back up into buildings. Grease can also contribute to restricted flow in your home plumbing and service laterals, resulting in costly repairs.
- Avoid planting trees and shrubs above or near the service lateral that runs from your home to the street. Roots can enter and clog sewers, causing them to back up and overflow.

Seven Terms for Better Understanding SSOs:

Infiltration is water that enters the sanitary sewer system through pipe joints, line breaks or cracks.

Inflow is rainwater from roofs, pavements, yards, manholes and manhole covers that flows directly into a sanitary sewer.

Service lateral is the sewer pipe that connects a house to the main sewer line in the street.

Sewer clean out is the small pipe with cap located near the place in a house where the service lateral enters. The clean out is used to free blockages that may form in the service lateral.

Pathogens are organisms in raw sewage that cause diseases, including cholera, dysentery, hepatitis, and gastroenteritis.

Manhole and manhole cover are structures usually found in a street, parking area, or sidewalk that are used to provide access to the main underground sewer lines.

Collection system is the series of progressively larger pipes through which sewage is carried from homes and businesses to a treatment plant. The collection system includes service laterals and the main sewer lines.

**Section 3.1 – SSO Report for Wilkshire Hills Sanitary Sewer
Collection System**



Sanitary Sewer Overflow Annual Report

Division of Surface Water

Date: 03/27/2020

Facility Name: Wilkshire Hills WWTP

Ohio NPDES Permit Number: 0PJ00008*JD

Period Covered by Report: 01/01/2019 - 12/31/2019

Contact Person

Name: Justin Angel

Title: Superintendent

Mailing Address: 9944 Wilkshire Blvd

City: Bolivar

State: OH

Zip Code: 44612

Country: USA

Sanitary Sewer Overflows Spreadsheet(attachment) : *Wilkshire Hills WWTP 2019 SSO Report.xlsm*

Water In Basement Occurrences Spreadsheet(attachment) : *Wilkshire Hills WIB 2019 Report.xlsm*

Narrative analysis of WIB patterns by location, frequency and cause: *During 2019 The Wilkshire Hills Sanitary Sewer Collection System experienced five water in basement occurrences.*

The Canal St. sewershed water in basement was due to debris in the sewer main resulting from a damaged sewer main.

The four water in basement incidents in the Wilkshire Hills sewersheds were due to extreme wet weather.

Additional Attachments :

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 responsible for obtaining the information contained in the report, I believe that the information is true, accurate, and complete.

Name:

Justin R Angel

Title:

Superintendent

Signature(Electronically submitted by):

Justin R Angel (User ID: jangel)

Submission Date:

03/28/2020

SSO Annual Report

Permit Number

Facility Name

Reporting Period
 From: To:

Table 1: SSO Identification			
Identification Number	Receiving Water	Location Description	Date Eliminated
301	None	Melrose Circle Sewershed	1/7/2019
302	None	Kerns Dr. Seweshed	6/18/2019
303	None	Wilkshire Hills Trunkline Sewershed	10/9/2019

SSO Annual Report

Permit Number

Facility Name

Reporting Period
 From: To:

Table 2: SSO Event Information			
Event Date	Identification Number	Receiving Water	Volume (millions of gallons)
1/6/2019	301	None	0.01
6/18/2019	302	None	0.0001
10/5/2019	303	None	0.5

Water In Basement Occurrences

Permit Number	OPJ00008
Facility Name	Wilkshire Hills WWTP
Reporting Period	
From	1/1/2019
To	12/31/2019

Sewershed	WIB Occurrences	Causes (choose all that apply)	Other Cause Description
Bolivar Canal St. Sewershed	1	Debris in Line	
Wilkshire Hills Kerns Dr. Sewershed	2	Extreme Weather	
Wilkshire Hills North Orchard Sewershed	1	Extreme Weather	
Wilkshire Hills Fair Oaks Sewershed	1	Extreme Weather	
Total Occurrences	5		

**Section 3.2 – SSO Report for Mineral City
Sanitary Sewer Collection System**



Sanitary Sewer Overflow Annual Report

Division of Surface Water

Date: 03/27/2020

Facility Name: Mineral City WWTP

Ohio NPDES Permit Number: 0PB00053*HD

Period Covered by Report: 01/01/2019 - 12/31/2019

Contact Person

Name: Justin Angel

Title: Superintendent

Mailing Address: 9944 Wilkshire Blvd

City: Bolivar

State: OH

Zip Code: 44612

Country: USA

Sanitary Sewer Overflows Spreadsheet(attachment) : *Mineral City WWTP 2019 SSO Report.xlsx*

Water In Basement Occurrences Spreadsheet(attachment) :

Narrative analysis of WIB patterns by location, frequency and cause:

Additional Attachments :

Certification	
<i>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 responsible for obtaining the information contained in the report, I believe that the information is true, accurate, and complete.</i>	
Name: Justin R Angel	Title: Superintendent
Signature(Electronically submitted by): Justin R Angel (User ID: jangel)	Submission Date: 03/28/2020

SSO Annual Report - Data Entry Spreadsheet

Permit Number

Facility Name

Reporting Period
From: **To:**

Table 1: SSO Identification			
Identification Number	Receiving Water	Location Description	Date Eliminated
301	Unnamed tributary to Huff Run	Lindentree Rd Sewershed	6/18/2019

Table 2: SSO Event Information			
Event Date	Identification Number	Receiving Water	Volume (millions of gallons)
6/18/2019	301	Unnamed tributary to Huff Run	0.001