

2024 Annual Report

Sanitary Sewer Overflows and Water-In-Basements

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CITY OF DUBLIN – DEPARTMENT OF ENGINEERING

2024 ANNUAL SANITARY SEWER OVERFLOWS AND WATER-IN-BASEMENTS REPORT

TABLE OF CONTENTS

- I. Introduction/ Purpose of Report
- II. Reporting and Monitoring of Sanitary Sewer Overflows
- III. Elimination of Sanitary Sewer Overflows in 2024
- IV. Activities Performed to Reduce the Occurrence of Sanitary Sewer Overflows and Water-In-Basements
- V. Summary of Sanitary Sewer Overflows Reported in 2024
- VI. Summary of Water-in-Basements Reported in 2024
- VII. Elimination of Water-in-Basements in 2024
- VIII. Report Public Notification
- Appendix A 2024 City of Dublin Flow Meter Locations
- Appendix B Annual Summary of Wet Weather Overflows
- Appendix C Annual Summary of Dry Weather Overflows
- Appendix D Annual Summary of Water-In-Basements
- Appendix E Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years
- Appendix F 2024 Monthly Rainfall Data
- Exhibit 1 Sanitary Sewersheds

I. Introduction/Purpose of Report

The City of Dublin (City) and the State of Ohio Environmental Protection Agency (OEPA) entered into a Director's Final Findings and Orders (Orders) in February of 2009, for the resolution of Sanitary Sewer Overflow (SSO) and Water-in-Basement (WIB) related concerns for the City's sanitary sewer collection system. In general, the Orders require the City to develop and implement a Capacity, Management, Operations and Maintenance (CMOM) program. This program will address adequate capacity to convey base flows and peak flows for all parts of the sewer system, take all feasible steps to stop and mitigate SSOs and WIBs, minimize excessive Infiltration & Inflow (I/I) and to provide notification to all parties with a reasonable potential for exposure to pollutants associated with any overflow event.

- ☐ Per the Orders, the City shall prepare an annual report of all SSOs and WIBs from its own sanitary sewer collection system on **February 15, 2025**. This is the **Sixteenth** annual report to be submitted to the OEPA **as required by the Orders, Section V, Part 9, Pages 9 and 10 of 13**. This report provides the required information collected by the City of Dublin in 2024.

II. Reporting and Monitoring of Sanitary Sewer Overflows

In February of 2010, the City formalized its internal reporting process of SSOs from the sanitary sewer collection system according to the Orders issued by the OEPA. This process is outlined in the Overflow and Emergency Response and Notification Plan (OERNP) submitted to OEPA in August, 2009. All known overflow events are reported to the OEPA with a 5-day follow up report sent by mail or e-mail. A revised OERNP was submitted to OEPA on January 4, 2013 for the City of Dublin.

The City of Dublin continues to flow monitor its sanitary sewer system with multiple flow meters as designated per the Orders from the OEPA to gather information on the flow characteristics. In 2024, there were thirteen (13) flow meters established throughout the largest trunk sewers, which deliver wastewater to City of Columbus. The City added zero (0) flow meter locations in 2024. In 2025, the City is adding thirteen (13) flow meters as part of a project to update modeling of the City's sanitary sewersheds. These flow meters may be moved, as needed, to show flow characteristics throughout the public sanitary sewer system.

Appendix A lists the locations of the 2024 City of Dublin flow meter locations.

III. Elimination of Sanitary Sewer Overflows in 2024

SSOs Removed

Two (2) SSOs were removed from the list in **Appendix E**, with Dublin Event Reference numbers as follows: Reference #11 & Reference #30

Appendix B & C contains the list of locations of SSOs for 2024 and all the relevant details as required by the Orders.

IV. Activities Performed to Reduce the Occurrence of Sanitary Sewer Overflows and Water-In-Basements

The City of Dublin continues its sewershed based maintenance program aimed at cleaning all sewers on a systematic basis to reduce the number of occurrences of SSOs and WIBs. The past sewershed based program in 2005 was completed in 2010. A new sewershed based maintenance program of cleaning, televising and manhole inspections will take its place as noted in the Sewer System Evaluation Study (SSES) previously given to the OEPA.

The City has identified from the previous maintenance program that I/I and structural defects are mostly related to the amount of existing clay pipe and concrete sanitary sewer pipe material. A higher priority is set on Deer Run, North and South Fork Indian Sewersheds, which contain the vast majority of the clay and concrete sanitary sewer pipe material for structural repairs and I/I elimination. The SSES proposed phased schedule represents the priority given to these sewersheds.

The SSES lists the on-going flow monitoring program of the sanitary sewer collection system. The City leases all the flow meters and associated equipment to monitor the flow characteristics of its sanitary sewer collection system. The City has placed meters strategically to monitor the sanitary sewer collection system.

The City performs regular maintenance on the Wyandotte Woods pump station and all City owned sanitary sewer lift stations to ensure proper operation.

In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun designing a

relief sewer along Glick Road and Dublin Road, which will also serve the Deer Run sewershed. Additionally, the City has begun a study to evaluate end of service elevation for several properties along N. Riverview Street and S. Riverview Street within the Deer Run sewershed and explore recommended solutions to mitigate risk for water-in-basement events for those properties.

Furthermore, the City continues the implementation of the sanitary sewer lining and repair program, which consists of the installation of cured-in-place pipe liner and associated repairs to existing sanitary sewer lines. The locations are determined by sanitary sewer main inspections. The lining of the sanitary sewer pipe will reduce I/I of stormwater into the sanitary sewer system. The lining of the pipes protects the integrity of the pipe system and reduces the frequency and occurrences of SSOs and WIBs.

V. Summary of Sanitary Sewer Overflows Reported in 2024

- The City will report SSOs from its sanitary sewer collection system through its OERNP and this annual report in accordance with the **Orders, Section V, Item 8 and 9 on pages 8, 9 & 10 of 13**. A summary list of the dry and wet weather overflows is located in **Appendices B and C** respectively.

- **Wet Weather Overflow Events**

The City observed a total of three (3) known SSOs during wet weather throughout the sanitary sewer collection system in 2024.

1. Location, frequency and cause

January 28th, 2024 and December 29 & 31, 2024 Events

Three (3) events occurred at the one (1) known SSO location referred to in the Appendix E of this report under the Summary of SSOs and WIBs. This location is referred to as Dublin Reference #1 in **Appendix E** and is in the Deer Run sewershed. Wet weather and I&I resulted in Manhole #3726 to overflow and continue directly into receiving stormwater flow.

2. Changes in Operations and Maintenance procedures

The installation of the Deer Run force main and pump station will help mitigate wet weather and I&I impacts on the sanitary sewer collections system near Manhole #3726. In 2025, the City anticipates additional study of this portion of the sanitary sewer collection system to further mitigate impacts of wet weather and I&I.

- **Dry Weather Overflow Events**

The City observed a total of zero (0) known SSOs during dry weather throughout the sanitary sewer collection system in 2024.

1. Location, frequency and cause

There were no dry weather overflows in 2024.

2. Changes in Operations and Maintenance procedures

There are no proposed changes to operation and maintenance procedures.

In all future events, regardless of the circumstances, City sewer crews shall be mobilized to resolve the situation as outlined in the City's OERNP.

The City of Dublin sewer service area is broken down into 9 sewersheds as shown in **Exhibit 1**. The sewersheds represent the areas served by major trunk sewers and are referred to as follows:

- Cosgray
- Cramer North
- Cramer South
- Deer Run
- Hayden Run
- Llewellyn Farms
- North Fork Indian Run
- Riverside
- South Fork Indian Run

Table 1 summarizes the total SSOs by sewershed, including wet weather and dry weather events for 2024:

Table 1

Sewersheds	Total SSOs	Dry Weather	Wet Weather
Cosgray	0	0	0
Cramer North	0	0	0
Cramer South	0	0	0
Deer Run	3	0	3
Hayden Run	0	0	0
Llewellyn Farms	0	0	0
North Fork Indian Run	0	0	0
Riverside	0	0	0
South Fork Indian Run	0	0	0
Totals	3	0	3

Appendix E lists all SSOs and WIBs, Reference #'s attached, for the City of Dublin, since the inception of our Directors Final Findings and Orders on February 11, 2009.

VI. Summary of Water-In-Basements Reported in 2024

- ☐ As per the **Orders, Page 9 of 13, Item 9**. Included below is a narrative analysis of patterns of the WIBs by location, frequency and cause, as well as any resultant changes in operations and maintenance procedures.

Table 2 summarizes the total WIBs by sewershed, including wet weather and dry weather events for 2024:

Table 2

Sewersheds	Total WIBs	Dry Weather	Wet Weather
Cosgray	0	0	0
Cramer North	0	0	0
Cramer South	0	0	0

Deer Run	0	0	0
Hayden Run	0	0	0
Llewellyn Farms	0	0	0
North Fork Indian Run	0	0	0
Riverside	0	0	0
South Fork Indian Run	1	1	0
Totals	1	1	0

1. Location, frequency and cause

One (1) event occurred at one (1) Water-In-Basement location referred to in **Appendix E** of the report under the Summary of SSOs and WIBs. This location is referenced as Dublin number 35 in **Appendix E**.

July 29, 2024 Event - 6191-6199 Lakeshire Drive (one apartment building)

One (1) event occurred at the one (1) Water-In-Basement locations specified in Reference 35 in **Appendix E** of this report. The WIB was caused by a blockage of debris and grease in the sanitary main.

One (1) WIB event was added to the Dublin event reference number (number 35) in **Appendix E**.

2. Changes in Operations and Maintenance procedures for WIBs

The City of Dublin will more frequently inspect and clean the sanitary main in this area given the presence of debris and grease.

VII. Elimination of Water-in-Basements in 2024

WIBs Removed

Two (2) WIBs were removed from the list in **Appendix E**, with Dublin Event Reference numbers as follows: References #7 & Reference #29

Appendix D contains the list of locations of WIBs for 2024 and all the relevant details as required by the Orders.



VIII. Report Public Notification

As required by the Orders, the City will make the public aware of this annual report by making the report available on the City of Dublin web site. Interested parties may download and print this report from the City of Dublin website, available under the Engineering, Sanitary Sewer area of the site. This report will also be available at the City of Dublin, Department of Engineering, 6555 Shier Rings Road, Dublin, OH 43016 or by calling Daniel Barr at (614) 410-4681.

Appendix A

2024 City of Dublin Flow Meter Locations

City of Dublin
Flow Meter Locations - 2024

FLOW METERS					Available
Flo-Dar (Dublin Permanent)	13 total		13 installed		0

Status	Meter #	Manhole Facility ID	Pipe Size (in)	Meter Type	SAS System
IN	1	228	21	Flo-Dar	Cramer North
IN	2	433	21	Flo-Dar	Cramer North
IN	3	328	18	Flo-Dar	Cramer South
IN	4	350	21	Flo-Dar	Cramer South
IN	5	1252	21	Flo-Dar	Cosgray
IN	6	1318	18	Flo-Dar	Cosgray
IN	7*	1856	30	Flo-Dar	Riverside
IN	7A**	2535	24	Flo-Dar	Riverside
IN	8	2213	15	Ultrasonic	Deer Run
IN	9	6271	12	Flo-Dar	Hayden Run
IN	10*	3227	24	Flo-Dar	Riverside
IN	10A**	3328	24	Flo-Dar	Riverside
IN	11	3184	42	Flo-Dar	Riverside
IN	12	3675	8	Flo-Dar	Riverside
IN	13	4073	21	Flo-Dar	Cramer North

* From 1/1/2024 to 08/15/2024

** From 08/15/2024 to 12/31/2024

Appendix B

Annual Summary of Wet Weather Overflows

1

City of Dublin

Appendix C

Annual Summary of Dry Weather Overflows

1

2024 SSO and WIB Report
2/5/2025

Appendix D

Annual Summary of Water-In-Basements

City of Dublin
Annual Summary of Water-In-Basements - 2024

1

Location	Sewer Component	Estimated Date and Time (if known)					Cause	Reduction/Elimination/Prevention	OEPA Reference # / Dublin CityWorks Work Order #	Receiving Waters - if any	Sewer Shed
6191-6199 Lakeshire Drive	Sewer Main #2873	7/29/24	N/A	to	7/29/24	N/A	Debris in Line/Grease	Blockage was discovered 100' downstream of MH #1229, which caused backup through Pipe #2873. Staff cleaned and televised sewer segments in this area to confirm blockage was removed. Staff will place sewer segments on more frequent maintenance schedule given the presence of grease in the line.	35/	N/A - Basement	South Fork Indian Run

Appendix E

Summary of Sanitary Sewer Overflows and Water-In- Basements

All Years

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

1

Dublin Event Reference #	Location	OEPA Reference # / Dublin CityWorks Work Order #	Estimated Date and Time (if known)					Receiving Waters - if any	Sewer Component	Cause	Reduction/Elimination/Prevention	Estimated Volume (MG)	Sewer Shed	Monitor Removal Date
2007 Events														
1	Manhole #3281, East of Dublin Rd. just north of Deer Run Creek and Dublin Rd.	1/	3/27/07	10:00	to	3/27/07	14:18	Deer Run Creek trib. to Scioto River	Manhole	Excess I/I/ Wet weather	Sewer lining program in progress to eliminate I/I	MH#3281 - 0.071	Deer Run	Removed
2008 Events														
1	Manhole #3281 & 3726	0806-21-2474/	6/4/08	7:20	to	6/4/08	16:00	Deer Run Creek trib. to Scioto River	Manhole	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	MH# 3281 - 0.026, MH# 3726-0.026	Deer Run	12/31/2027
1	Manhole #3281 & 3726	1/	6/26/08	13:00	to	6/26/08	19:00	Deer Run Creek trib. to Scioto River	Manhole	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	MH# 3281 - 0.036, MH# 3726-0.036	Deer Run	12/31/2027
2009 Events														
2	6170, 6174, 6182 Kendall Ridge Loop, 6165, 6175, 6186 Tuswell Dr., Fac. ID 880	0904-25-1135 / 1526	4/15/09	22:45	to	4/16/09	2:00	N/A - Basement	Pipe	Debris in line	Sewer lines were jet cleaned and CCTV inspected.	N/A	Cosgray	Removed
3	N.W. corner of Campden Lakes Blvd./ Chippenham Dr., Fac. ID 2097	0905-25-1357 / 2017	5/5/09	22:30	to	5/5/09	23:30	Summit View Creek trib. to Scioto River	Manhole	Grease	Jet clean the pipe segment, Fac. ID 2042	0.012	Riverside	Removed

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

2

2010 Events														
4	Basements - 4666 Chatham Ct., 4568, 4595, 4604, 4611, 4627, 4643, 4658, 4690, 4766 Donegal Cliffs Drive, 4797 Inisheer Ct., 4727, 4735, 4751, 4759, 4767 Vista Ridge Drive, Manhole #2882	1003-25-0730 / 27188	3/26/10	8:00	to	3/26/10	10:00	Scioto River	Manhole	2010 Sanitary Sewer Lining Project ~ Bypass pump operator failed to maintain the wastewater level downstream at MH #2782	Plug was at downstream manhole to alleviate the overflow. Lining operations ceased.	0.0005	Deer Run	Removed
5	5935 Springburn Drive	1014-25-1067 / No #	4/26/10	9:59	to	4/26/10	11:00	N/A - Basement	Sanitary Sewer/Facility ID: 4071	Debris in service line/grease	Sewer lines were jet cleaned and CCTV inspected.	N/A	Deer Run	Removed
6	Manhole #1828 & 1829 / 485 Metro Place South	1008-25-2455 / 33180	8/27/10	13:05	to	8/27/10	14:45	N/A -Ground	Manhole	Roots/Debris in sewer line	Root/debris were cut and removed. Sanitary sewer segment, was cleaned and jetted.	0.00005	Cosgray	Removed
2011 Events														
1	Manhole #3281 & WIB at 8731 Glenamoy Circle	1112-25-3836/49893	12/5/11	19:48	to	12/5/11	23:30	Deer Run Creek trib. to Scioto River	Sanitary Sewer/Facility ID: 3281	Excess I/I/ Wet weather	Sewer lining program in progress to eliminate I/I	MH# - 0.002, 8731 Glenamoy Circle - 100 gallons	Deer Run	Removed
7	7753 Crawley Drive	1112-25-3836/49893	12/5/11	21:59	to	12/5/11	23:30	N/A - Basement	Pipe	Excess I/I/ Wet weather	1. CCTV the sanitary sewer segments & service lateral connections up & down stream of the affected address for deficiencies. 2. Visually inspect the sanitary sewer manholes for sources of infiltration & inflow.	100 Gallons	North Fork Indian Run	Removed
8	5520,5521, & 5528 Dumfries Court East	1112-25-3838/49893	12/5/11	17:43	to	12/6/11	0:00	N/A - Basement	Pipe	Excess I/I/ Wet weather	1. CCTV the mainline sewers to check sanitary service laterals for excessive visible infiltration, defects, CIPP lining failures and other problems. 2. Visually inspect sanitary sewer manholes for infiltration and inflow and other defects.	5520 & 5521 Dumfries Court East - 10 gallons; 5528 Dumfries Court - 2,970 Gallons	Deer Run	Removed
9	5750 Blazer Parkway, Manhole # 6046	1102-25-0421/38339	2/23/11	8:39	to	2/23/11	10:20	N/A -Ground	Manhole	Debris in Line	1. Debris in the 6" sanitary service lateral was removed by jet cleaning the 572 feet pipe from the 21" mainline sanitary sewer to Dublin Manhole Facility ID: #6046, Point of the SSO	0.0001	Cramer Creek	Removed

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

3

2011 Events (cont)														
1	Manhole #3281 & #3726, Wet Well #3902	1103-21-0623/39566	3/5/11	10:56	to	3/5/11	13:15	Deer Run Creek	Manhole & Wet Well	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	MH#3281 - 0.0007, MH#3726 - 0.0007, Wet Well #3902 - 0.0003	Deer Run	12/31/2027
1	MH# 3281 - 0.0012, MH# 3726-0.0012, Wet well #3902 - 0.0007	1104-21-1023/40474	4/4/11	17:25	to	4/4/11	21:25	Deer Run Creek trib. to Scioto River	Manhole & Wet Well	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	MH# 3281 - 0.0012, MH# 3726-0.0012, Wet well #3902 - 0.0007	Deer Run	12/31/2027
10	6095 Springburn Drive/ Manhole #2397	1105-21-1508	5/3/11	12:06	to	5/3/11	14:21	Deer Run	Manhole	Manhole & Wet Well	1. Recently set a flow monitor downstream of this location to determine the problem with this part of the system. 2. During the next rain event, City staff will monitor the manhole to see if the sanitary sewer overflow persists at this location.	Unknown	Deer Run	Removed
11	7880 Riverside Drive/Manhole #4421 (Wyandotte Woods Wet Well)	1105-25-1550	5/6/11	10:27	to	5/6/11	11:04	Scioto River	Wet Well	Wet Well	1. Temporary pump set up to bypass existing pumps until such time that we can re-establish the electrical equipment and power to the pumps in the wet well.	MH# 4421 - 0.00074	Dry Creek - Riverside	Removed

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

4

2011 Events (cont)														
12	8731 Glenamoy Circle	1112-25-3838	12/5/11	19:48	to	12/5/11	23:30	N/A - Basement	Pipe	Excess I/I/ Wet weather	1. City of Dublin is currently working with a contractor to line the segments directly upstream of Dublin Sanitary Sewer Manhole, Dublin Facility ID:3281	8731 Glenamoy Circle - 100 Gallons	Deer Run	Removed
2012 Events														
13	9442 Din Eidyn Drive	1301-21-237	7/16/12	10:50	to	7/16/12	10:50	N/A	8-inch sanitary sewer/Facility ID: 4169	Contractor Vactor/Jet Truck water pressure	City of Dublin taken to notice of the WIB location on a map for sewer crews to be notified in the future when this segment is cleaned. City of Dublin has made notes of location to reduce the vactor truck pressure at the next cleaning of these line segments.	Estimated Volume 4 gallons	Deer Run	Removed
13	8934 Monifieth Court	1301-21-237	6/28/12	8:00	to	6/28/12	8:00	N/A	8-inch sanitary sewer/Facility ID: 4349	Contractor Vactor/Jet Truck water pressure	City of Dublin taken to notice of the WIB location on a map for sewer crews to be notified in the future when this segment is cleaned. City of Dublin has made notes of location to reduce the vactor truck pressure at the next cleaning of these line segments.	Estimated Volume 2 gallons	Deer Run	Removed
13	5776 Duddingston Drive	1301-21-237	7/12/12	3:05	to	7/12/12	3:05	N/A	8-inch sanitary, Dublin Facility ID: 4176	Contractor Vactor/Jet Truck water pressure	City of Dublin taken to notice of the WIB location on a map for sewer crews to be notified in the future when this segment is cleaned. City of Dublin has made notes of location to reduce the vactor truck pressure at the next cleaning of these line segments.	Estimated Volume 2 gallons	Deer Run	Removed
13	5703 Rothesay Drive	1301-21-237	12/20/12	9:15	to	12/20/12	9:15	N/A	8-inch sanitary, Dublin Facility ID: 4209	Contractor Vactor/Jet Truck water pressure	City of Dublin taken to notice of the WIB location on a map for sewer crews to be notified in the future when this segment is cleaned. City of Dublin has made notes of location to reduce the vactor truck pressure at the next cleaning of these line segments.	Estimated Volume 2 gallons	Deer Run	Removed

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

5

2012 Events (cont)														
13	5707 Zetland Court	1301-21-237	7/11/12	16:30	to	7/11/12	16:35	N/A	8-inch sanitary, Dublin Facility ID: 4196	Contractor Vactor/Jet Truck water pressure	City of Dublin taken to notice of the WIB location on a map for sewer crews to be notified in the future when this segment is cleaned. City of Dublin has made notes of location to reduce the vactor truck pressure at the next cleaning of these line segments.	Estimated Volume 2 gallons	Deer Run	Removed
13	9377 Capewrath Drive	1301-21-237	7/13/12	7:15	to	7/13/12	7:15	N/A	8-inch sanitary, Dublin Facility ID: 4167	Contractor Vactor/Jet Truck water pressure	City of Dublin taken to notice of the WIB location on a map for sewer crews to be notified in the future when this segment is cleaned. City of Dublin has made notes of location to reduce the vactor truck pressure at the next cleaning of these line segments.	Estimated Volume 4 gallons	Deer Run	Removed
13	9470 Avemore Court	1301-21-237	7/16/12	12:00	to	7/16/12	12:00	N/A	8-inch sanitary, Dublin Facility ID: 4197	Contractor Vactor/Jet Truck water pressure	City of Dublin taken to notice of the WIB location on a map for sewer crews to be notified in the future when this segment is cleaned. City of Dublin has made notes of location to reduce the vactor truck pressure at the next cleaning of these line segments.	Estimated Volume 2 gallons	Deer Run	Removed
14	6070, 6074, 6084,6088, 6092, 6098, 6100 Glenbar Place	1212-25-2953	12/7/12	18:00	to	12/7/12	21:00	N/A	8-inch santary, Dublin Facility ID: 2988, 2990 & 2991	Grease	1. City of Dublin Sewer Maintenance Staff cleaned 8-inch sanitary sewer , Pipe Facility ID: #2988, with jetter truck on December 7, 2012 which removed the blockage. 2. City of Dublin will revisit the affected pipe segments every 6 months to clean and televise for additional grease presence for a 3 year period. 3. City of Dublin will do visual inspections of manholes. City will perform these inspections once a month for 6 months and then every 6 months until the 3 year mark.	No Volume's Obtained	North Fork Indian Run	Removed
15	Manhole #2407 & #2412	1202-21-0380	2/16/12	8:15	to	2/16/12	9:19	Deer Run Creek	Manhole	Cured in Place Pipe Liner Failure	Contractor immediately placed a bypass pump into Manhole #2407 to eliminate SSO. Contractor shall ensure that a secondary bypass pump will be readily available onsite if this event reoccurs.	Manhole #2407 - 0.00064 MG, Manhole #2412 - 50 gallons	Deer Run	Removed

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

6

2013 Events														
16	6877, 6878, 6881, 6882, 6885, 6886, 6889, 6890 Forest Haven Loop	N/A	5/28/13	11:23	to	5/28/13	1:32	N/A	10-inch sanitary, Dublin Facility ID: 5862	Debris in line	Debris in the 10-inch sanitary sewer line was removed by jet cleaning the 101 feet of pipe from sanitary sewer manhole, Dublin Manhole Facility ID: #5665 to #5664, point of the blockage. Schedule to eliminate or reduce the water in basement from reoccurring is to field check the manholes along the service line quarterly over the next 3 years.	5 to 10 gallons per residence	Cramer North	Removed
17	5929 Macewen Court	N/A	12/21/13	14:30	to	12/21/13	22:30	N/A	12-inch sanitary sewer, Facility ID: #4093	Excess I/I/ Wet weather	City of Dublin Sewer Maintenance Staff cleaned 12-inch sanitary sewer, Pipe Facility ID: #4093, with jetter truck on December 23, 2013 to check for debris in the line.	No Volume's Obtained	Deer Run	Removed
17	5929 Macewen Court	N/A	12/22/13	1:30	to	12/22/13	6:30	N/A	12-inch sanitary sewer, Facility ID: #4093	Excess I/I/ Wet weather	City of Dublin Sewer Maintenance Staff cleaned 12-inch sanitary sewer, Pipe Facility ID: #4093, with jetter truck on December 23, 2013 to check for debris in the line.	No Volume's Obtained	Deer Run	Removed
2014 Events														
19	6740 Post Road	N/A	11/8/14	4:45	to	11/8/14	7:30	N/A	8-inch sanitary sewer, Facility ID: #1062, Manhole Facility ID:#1940	Grease	City of Dublin Sewer Maintenance Staff cleaned 8-inch sanitary sewer, Pipe Facility ID: #1062 and 1063, with jetter truck on November 8, 2014 which removed the blockage.	No Volume's Obtained	South Fork Indian Run	Removed
2015 Events														
17	5929 Macewen Court	N/A	6/20/15	13:45	to	6/20/15	18:00	N/A	12-inch sanitary sewer, Facility ID: #4093	Excess I/I/ Wet weather	City of Dublin Sewer Maintenance Staff temporarily using 4-inch bypass pumps to alleviate the excess I/I at this location during heavy rainfall events. City of Dublin Engineering Staff plans to oversize downstream sewer to assist in removing the excessive I/I.	Approx. 5-10 gallons.	Deer Run	Removed
21	Dumfries Court East & Loch More Court East	N/A	6/20/15	12:00	to	6/20/15	18:00	N/A	8-inch sanitary sewer, Facility ID: #4244 & #4245 and #4247	Excess I/I/ Wet weather	City of Dublin Sewer Maintenance Staff temporarily using 4-inch bypass pumps to alleviate the excess I/I at this location during heavy rainfall events. City of Dublin Engineering Staff plans to continue manhole lining upstreast of these areas. City of Dublin Engineering Staff plans to flow monitor this area to get a better understanding of the excessive I/I sources.	No Volume's Obtained	Deer Run	Removed
22	9249 & 9261 Lerwick Drive	N/A	6/20/15	13:45	to	6/20/15	18:00	N/A	8-inch sanitary sewer, Facility ID: #4134 & #4143	Excess I/I/ Wet weather	City of Dublin Engineering Staff plans to continue manhole lining program in this area to alleviate the excessive I/I. City of Dublin Engineering Staff plans to flow monitor this area to get a better understanding of the excessive I/I sources.	Approx. 300 gallons each residence	Deer Run	Removed

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

7

2015 Events (cont)														
1	8719 Glenamoy Circle & Muirfield Village Golf Course	N/A	6/20/15	12:00	to	6/20/15	18:00	N/A	8-inch and 15-inch sanitary sewer, Facility ID: #4134 & #4143	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	MH ID: 3726 - 36,000 gallons, MH ID: 3281 - 7,200 gallons	Deer Run	12/31/2027
2016 Events														
1	8719 Glenamoy Circle & Muirfield Village Golf Course	N/A	6/23/16	4:00	to	6/23/16	16:00	N/A	8-inch and 15-inch sanitary sewer, Facility ID: #4134 & #4143	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	No Volume's Obtained	Deer Run	12/31/2027
17	5929 Macewen Court	N/A	6/23/16	4:00	to	6/23/16	16:00	N/A	12-inch sanitary sewer, Facility ID: #4093	Excess I/I/ Wet weather	City of Dublin Sewer Maintenance Staff temporarily using 4-inch bypass pumps to alleviate the excess I/I at this location during heavy rainfall events. City of Dublin Engineering Staff is currently constructing a sewer improvement downstream of this WIB.	Approx. 5-10 gallons.	Deer Run	Removed
2017 Events														
6	Manhole #1829 / 485 Metro Place South	N/A	12/28/17	8:00	to	12/28/17	14:00	N/A -Ground	Manhole	Debris in sewer line	Debris were cut and removed. Sanitary sewer segment, was televised, cleaned, and jetted.	Approx. 100 gallons	Cosgray	Removed

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

8

2018 Events														
8	5521 Dumfries Court East	1112-25-3838/49893	6/21/18	18:00	to	6/21/18	22:00	N/A - Basement	Pipe	Excess I/I/ Wet weather	1. Deer Run Sewer upsizing Capital Improvement Project planned for 2019. 2. Contine to visually inspect sanitary sewer manholes for infiltration and inflow and other defects, and provide bypass pumping during rain events. 3. Downstream capacity increase project planned for 2019.	5521 Dumfries Court East - No estimate given	Deer Run	Removed
23	225 Monsarrat Drive	N/A	10/12/18	17:00	to	10/12/18	22:00	N/A - Basement	Pipe ID# 1773	Grease in line	1. Weekly inspection of line. 2. Repair/replace 8" sanitary main line or spot repair location of problem in 2019.	Approx. 250 gallons	Cosgray	Removed (2021)
1	8719 Glenamoy Circle & Muirfield Village Golf Course	N/A	2/24/18	23:00	to	2/25/18	5:00	Deer Run Creek	Manholes, Facility ID: #3281 & #3726	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diamater sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	Approx. 2000 gallons	Deer Run	12/31/2027
1	8719 Glenamoy Circle & Muirfield Village Golf Course	N/A	4/3/18	11:00	to	4/3/18	17:00	Deer Run Creek	Manholes, Facility ID: #3281 & #3726	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diamater sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	Approx. 36000 gallons	Deer Run	12/31/2027

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

9

2019 Events														
8	5521 Dumfries Court East	1112-25-3838/49893	3/30/19	18:00	to	3/30/19	22:00	5521 Dumfries Ct E (Basement) & Deer Run Creek	Pipe #4245	Excess I/I/ Wet weather	1. Deer Run Sewer upsizing Capital Improvement Project planned for 2020. 2. Deer Run Force Main and Lift Station project installed in 2019. 3. Contine to visually inspect sanitary sewer manholes for infiltration and inflow and other defects, and provide bypass pumping during rain events. 4. Downstream capacity increase project planned for 2020.	5521 Dumfries Court East - No estimate given	Deer Run	Removed
24	9080 Moors Pl N.	N/A	2/7/19	20:00	to	2/7/19	21:30	N/A - Basement	Pipe ID# 2980	Grease/ debris in line	Dublin staff jetted and removed treeroots and other debris from downstream mahole and sanitary pipe. The line was televised and cleaned twice, and treated with RootX	N/A	North Fork Indian Run	Removed
25	400 Metro Place North (Private parking garage)	N/A	3/10/19	16:30	to	3/11/19	9:00	Parking garage floor	N/A	Paperproducts, other debris in floor drain pipe	1.Property owner had a plumbing contractor come and jet the private lines. 2. Dublin City staff investigated upstream and downstream structures (Facility ID #2034, 2035, 2051) as well as the surrounding area, to look for any other blockages or possible causes.	Approx. 1000-2000 gallons	South Fork Indian Run	Removed
26	Corbin Mills Dr. (multiple condos)	N/A	9/5/19	20:00	to	9/5/19	21:45	Condo floors	Manholes, Facility ID: #3281 & #3726	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement Programs planned to address the issues in this area. A new pump station is planned, along with a new 12" force main along Dublin Rd. Also, there is a proposed upsizing and/or parallel sewer main at Muirfield Court into the Muirfield Village Golf Course. Both of these projects were created to address SSO's in the areas of the most recent overflows noted on this form.	Approx. 36000 gallons	Deer Run	Removed
2020 Events														
1	Manholes 3721 & 3726 Muirfield Village Golf Course	39566, 19015	3/20/20	4:00	to	3/20/20	10:30	Deer Run Creek trib. to Scioto River	Manholes, Facility ID: #3721 & #3726	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diamater sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	MH#3726-.0195MG MH#3721-.0195MG	Deer Run	12/31/2027

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

10

2020 Events (cont.)														
1	Manholes 3721 & 3726 Muirfield Village Golf Course/8624 Dunblane Ct	39566, 19015	5/18/20	11:00	to	5/18/20	13:00	Deer Run Creek trib. to Scioto River	Manholes, Facility ID: #3721 & #3726	Excess I/I/ Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	MH#3726-N/A MH#3721-N/A	Deer Run	12/31/2027
7	7753 Crawley Drive	53122	5/19/20	7:00	to	5/19/20	13:00	N/A - Basement	Pipe	Excess I/I/ Wet weather	1. CCTV the sanitary sewer segments & service lateral connections up & down stream of the affected address for deficiencies. 2. The City had this property surveyed to confirm elevations. This will assist the City in putting together a plan to address the WIB events at this location.	N/A	North Fork Indian Run	Removed
27	7976 Holyrood Ct	156098	5/19/20	7:00	to	5/19/20	11:00	N/A - Basement	Sanitary lateral	Excess I/I/ Wet weather	The City of Dublin will monitor and assess our sanitary and storm sewer infrastrucutre near this location, specifically targeting sources of I/I. The sanitary main was inspected in 2019, and the storm sewer at this location was cleaned in 2020.	Approx. 40-50 gallons	North Fork Indian Run	9/5/25
28	Basements - 8757, 8763, 8772 Glassford Ct S	N/A	5/19/20	7:00	to	5/19/20	11:00	N/A - Basement	Sanitary lateral	Excess I/I/ Wet weather	The City of Dublin will continue to monitor these locations for sources of I/I. Dublin has several Deer Run Sewer Shed improvement projects within the 2021-2025 CIP plan. These plans include the installation a new pump station, as well as a new 16-inch sanitary force main, both currently in the design phase. Many of these proposed Deer Run improvements, as well as other future projects, were driven from the 2012 Deer Run Sewer Modeling report (and 2019 update), and aim to provide relief to the sanitary system, including previous SSO and WIB locations. The City has a rain gauge placed at Grizzell Middle School, just south of Reference #28, which should allow for better monitoring of this location in the future.	8757 - Approximately 1" of sewage in basement, no estimate given 8763 and 8772 - Approximately 0.5" sewage, approximately 50 gallons each	Deer Run	3/7/25

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

11

2021 Events														
29	5356 Erin Isles Ct	182240	4/4/21	16:45	to	4/4/21	17:15	Basement	Sewer lateral in basement	Debris in line	1. Root-X applied to sanitary main line. 2. City staff performed CCTV of sanitary main. 3. Vacall truck cleaning. 4. Routine inspection of sewer line.	Approximately 5 gallons of water, per resident	South Fork Indian Run	Removed
11	7880 Riverside Drive (Wyandotte Woods Wet Well)	N/A	5/3/21	23:00	to	5/4/21	0:00	Ground nearby	Pump station	Equipment (power) failure	1. Winelco (contracted inspector) to re-inspect operations of pump station monthly. 2. The cause of the SSO was found to be failed floats. All 4 floats have been replaced. Phone line for alerts had also previously been cut. AT&T has now upgraded their system serving this pump station.	N/A - no solids released	Riverside	Removed
30	5750 Paul Blazer Pkwy - WTFD #95	N/A	7/10/21	9:12	to	7/10/21	10:35	Ground nearby	Manhole, Facility ID# 6046	Grease, debris in line	1. City cleaned out nearby sanitary lines	N/A - no solids released	Cramer North	Removed
2022 Events														
31	7753 Crawley Drive	N/A	2/17/22	20:50	to	2/17/22	21:20	Basement	Sewer lateral in basement	Excess I/I / Wet weather	1. Backflow preventer already installed at this location. It was cleaned to make it more operational. 2. City staff performed CCTV of sanitary main - Inspection	800 gallons	North Fork Indian Run	9/5/25
28	8757, 8763, and 8772 Glassford Ct S	N/A	2/17/22	20:30	to	2/17/22	21:00	Basement	Sewer lateral in basement	Excess I/I / Wet weather	1. City staff performed CCTV of sewer mains upstream and downstream of backups. 2. City staff inspected manholes upstream and downstream of incident.	1800 gallons	Deer Run	3/7/25
28	8752, 8757, 8763, and 8772 Glassford Ct S	N/A	3/7/22	9:00	to	3/7/22	10:00	Basement	Sewer lateral in basement	Excess I/I / Wet weather	1. City staff performed CCTV of sewer mains upstream and downstream of backups. 2. City staff inspected manholes upstream and downstream of incident. 3. City funded install of backflow preventers at all of these locations.	2800 gallons	Deer Run	3/7/25
32	Muirfield Village Golf Club, Hole 6	N/A	3/8/22	17:00	to	3/8/22	18:00	Deer Run	Private Manhole	Excess I/I / Wet weather	This is a privately-maintained system. The owner of the private facility is aware. The City continues to implement a robust CIPP sewer lining program to prevent I/I in the public system.	3000 gallons	Deer Run	3/8/25
11	Wyandotte Woods Pump Station, 7880 Riverside Drive	N/A	8/20/22	13:30	to	8/20/22	16:40	Ground nearby	Pump station	Power outage and mechanical failure.	1. Pump #2 sent to be diagnosed and repaired. 2. Alarm dialer to be switched from land line to cellular.	600 gallons	Riverside	8/20/25

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

12

2022 Events (cont)														
31	7753 Crawley Drive	N/A	9/5/22	7:00	to	9/5/22	8:00	Basement	Cleanout in basement	Excess I/I / Wet weather	1. City staff performed CCTV of sewer mains upstream and downstream of backups. 2. City staff inspected manholes upstream and downstream of incident. 3. There is already a backwater valve installed at this location with appeared to function during this event. However, the cleanout inside the basement was not watertight, which allowed water to backup into the basement. The cleanout was made watertight.	3 gallons	North Fork Indian Run	9/5/25
27	7976 Holyrood Ct	N/A	9/5/22	7:00	to	9/5/22	8:00	Basement	Sewer lateral in basement	Excess I/I / Wet weather	1. City funded install of backwater valve at this location	50 gallons	North Fork Indian Run	9/5/25
22	9261 Lerwick Drive	N/A	9/5/22	7:00	to	9/5/22	8:00	Basement	Sewer lateral in basement	Excess I/I / Wet weather	1. City has already installed a backwater valve at this location, but cleaning and maintenance of the valve seemed insufficient. City educated resident and paid for cleaning. 2. A new force main was constructed this year to serve this sewer shed.	50 gallons	Deer Run	9/5/25
33	5529 and 5547 Preswick Dr	N/A	9/5/22	7:00	to	9/5/22	8:00	Basement	Sewer lateral in basement	Excess I/I / Wet weather	1. City funded installs of backwater valves at these locations. 2. A new force main was constructed this year to serve this sewer shed.	700 gallons	Deer Run	9/5/25
34	390, 392, 394, 396, 398, 400, 402, 404 Edinburgh Road	N/A	11/11/22	15:00	to	11/11/22	15:30	Basement	Sewer lateral in basement	Shop rags clogged sewer lateral	1. City educated residents on unflushable items to prevent another backup at this location	Unknown - Occurred on City holiday	Cosgray	11/11/25
2023 Events														
There were no Sanitary Sewer Overflows and Water-In-Basements in 2023.														
2024 Events														
1	Manhole 3726 - Muirfield Village Golf Course	N/A	1/28/24	5:00	to	1/28/24	14:00	Deer Run	Manhole #3726	Excess I/I / Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diamater sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	Approx. 10,000 gallons	Deer Run	12/31/2027

City of Dublin - Summary of Sanitary Sewer Overflows and Water-In-Basements for All Years

13

2024 Events (cont.)														
35	6191-6199 Lakeshire Drive	N/A	7/29/24		to	7/29/24		Basement	Sewer Main #2873	Debris in Line/Grease	Blockage was discovered 100' downstream of MH #1229, which caused backup through Pipe #2873. Staff cleaned and televised sewer segments in this area to confirm blockage was removed. Staff will place sewer segments on more frequent maintenance schedule given the presence of grease in the line.	660 gallons per residence	South Fork Indian Run	7/29/2027
1	Manhole 3726 - Muirfield Village Golf Course	N/A	12/29/24	5:00	to	12/29/24	14:00	Deer Run	Manhole #3726	Excess I/I / Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	Approx. 10,000 gallons	Deer Run	12/31/2027
1	Manhole 3726 - Muirfield Village Golf Course	N/A	12/31/24	5:00	to	12/31/24	14:00	Deer Run	Manhole #3726	Excess I/I / Wet weather	The City of Dublin has several Capital Improvement projects programmed to mitigate wet weather and I/I impacts to the sanitary sewer collection system in this area. The City's sanitary sewer lining program is in progress. In late 2024, the City completed construction of a new sanitary force main and pump station which will serve the Deer Run sewershed. The City has also begun design of a sanitary relief sewer along Glick Road and Dublin Road. In 2025, the City will begin design for upsizing existing sanitary sewer to a new 36-inch diameter sanitary sewer main from a point along Avery Road near Deer Run Elementary to a point approximately 500 feet east of the terminus of MacEwen Court.	Approx. 10,000 gallons	Deer Run	12/31/2027

Appendix F

2024 Monthly Rainfall Data

2024 Yearly Rainfall Data
for
Dublin Rain Gauges
Wyandot Elementary School & Griffin Thomas Elementary School

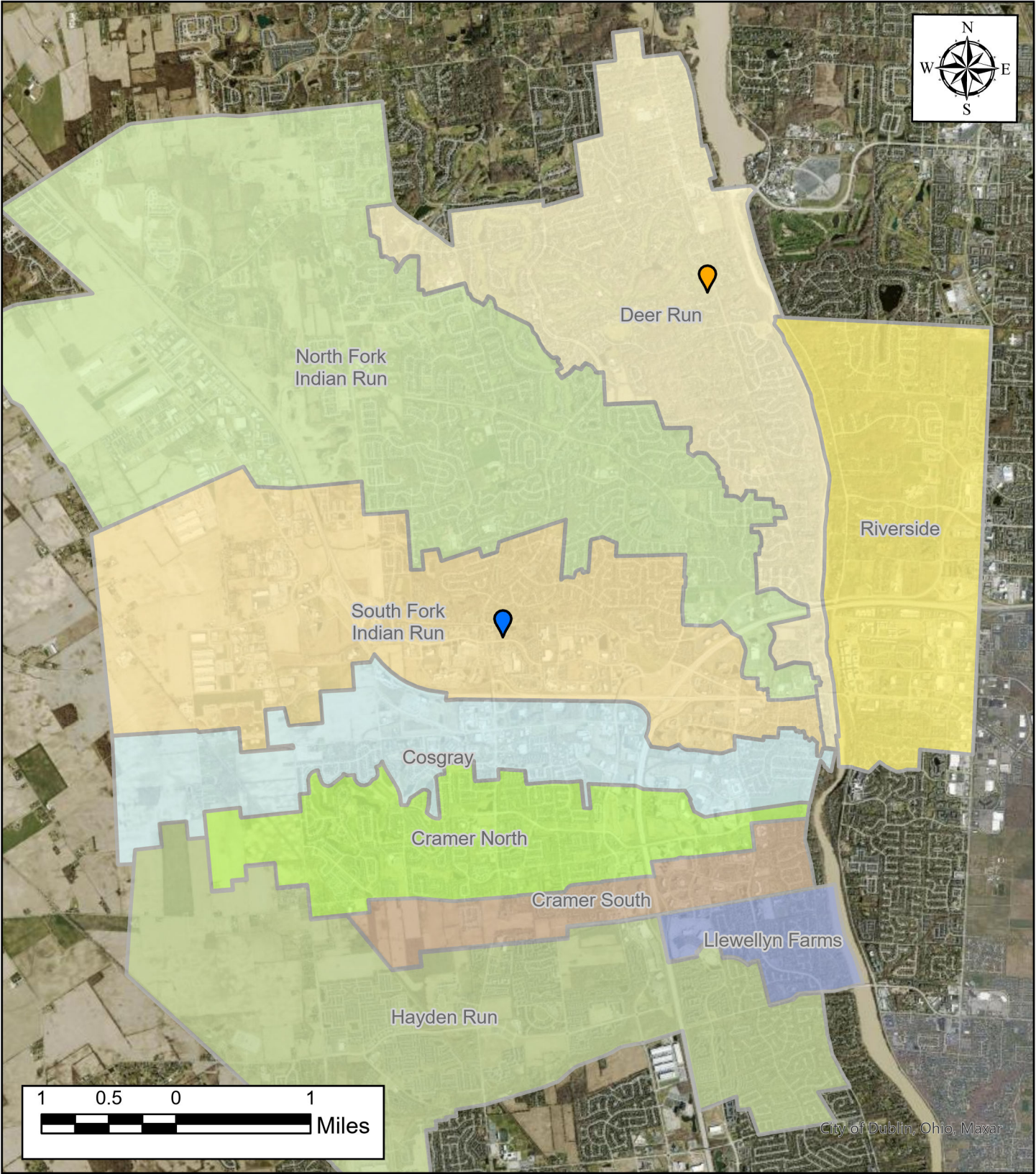
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No. of Days in month	No. of Rainfall Days in month	Monthly Total Rainfall (inches)	Ave. Daily Rainfall	Monthly Maximum	Monthly Minimum
January	0.05	0.00	0.01	0.02	0.00	0.03	0.05	0.00	2.09	0.01	0.00	0.90	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.35	0.23	0.01	0.20	0.24	0.01	0.04	0.04	31	19	4.34	0.14	2.09	0.00
February	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.01	0.00	0.00	0.68	0.00	0.04	0.02	0.00	0.00	0.46	0.00			29	9	1.32	0.05	0.68	0.00
March	0.13	0.04	0.00	0.00	0.16	0.20	0.00	0.07	0.17	0.02	0.00	0.00	0.00	0.37	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.00	0.39	0.01	0.00	0.00	0.27	0.09	31	16	2.02	0.07	0.39	0.00
April	0.94	1.14	0.30	0.20	0.00	0.00	0.00	0.01	0.00	0.40	0.97	0.06	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.19		30	12	5.14	0.17	1.14	0.00
May	0.00	0.00	0.03	0.03	0.00	0.03	0.33	0.01	0.07	0.02	0.32	0.00	0.00	0.28	0.16	0.00	0.40	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.06	0.51	0.00	0.18	0.00	0.00	31	15	2.44	0.08	0.51	0.00
June	0.00	0.07	0.01	0.00	1.58	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.10	0.32	0.57	0.01	0.00	0.02	0.00		30	11	3.22	0.11	1.58	0.00
July	0.00	0.00	1.20	0.07	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.51	0.00	0.05	0.00	0.00	0.00	0.00	0.24	1.13	0.01	31	11	3.75	0.12	1.20	0.00
August	2.24	0.21	0.25	0.01	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.20	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31	8	3.25	0.10	2.24	0.00
September	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.03	0.14	0.26	0.00	1.48	0.17	0.53	0.01		30	9	3.79	0.13	1.48	0.00	
October	0.25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.01	31	6	0.60	0.02	0.25	0.00
November	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.01	0.00	1.14	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00	0.16	0.15	0.07	0.12	0.00	0.00	0.42	0.00	0.68	0.40	0.00	0.00		30	11	4.83	0.16	1.31	0.00
December	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.88	0.28	0.01	0.00	0.00	0.01	0.78	0.41	0.00	0.32	0.00	0.10	0.00	0.00	0.01	0.01	0.01	0.08	0.09	0.00	1.68	0.00	0.83	31	17	5.52	0.18	1.68	0.00
Total Yearly Rainfall=																															40.25						

=SSO/ Wet Weather Events

=Monthly Maximum

=No data or does not exist

2024 SSO & WIB Events



Legend

Sanitary Overflow Events

- Sanitary Sewer Overflow
- Water in Basement

Sanitary Sewer Sheds

- | | |
|--------------|-----------------------|
| Cosgray | Hayden Run |
| Cramer North | Llewellyn Farms |
| Cramer South | North Fork Indian Run |
| Deer Run | Riverside |
| | South Fork Indian Run |