

#### SEWER STUDY UPDATE FEBRUARY 2025



### AGENDA

- Sewer Infrastructure Overview
- History of Bexley Sewer Studies
- 10-Year Sewer Improvement Project Look-Back
- Funding Sewer Projects
- Purpose of 2025/2026 Study
- 2024 RFP Process for Sewer Engineering Firm
- 2025 Budget Impact
- Future Capital Planning and Budget Impact



#### SEWER INFRASTRUCTURE

SANITARY 254,000 LINEAR FEET

SANITARY 737 MANHOLES

#### **MANAGEMENT INCLUDES:**

- Sewer line spot repair and replacement
- Sewer lining
- Inspection and repair of manholes and catch basins
- Inspection and repair of stormwater inlets
- Post-project flow monitoring





#### **STORM** 222,000 **LINEAR FEET**

## SEWER STUDIES: HISTORY

• 2002: City of Columbus ordered to eliminate unproper discharge from collection system and wastewater treatment plants

 2009: Ohio EPA issues Director's Final Findings and Orders (DFFO); Required satellite Columbus communities to:

- Ensure the sewer system can handle base and peak flows (e.g. during high rainfall);
- Reduce impact of sanitary sewer overflows (SSOs) and water in basements (WIBs);
- Cut down on extra water entering the sewer system (inflow and infiltration or I/I);
- Notify people who might be affected if an overflow happens.
- To comply with these requirements, Bexley was required to conduct a Sewer System Evaluation Study (SSES) to identify where and how extra water is getting into the system (I/I), and propose cost-effective ways to fix the problem and prevent future overflows or basement flooding.





## SEWERSIUDES HSIORY

- 2004: Sanitary Sewer Evaluation
- 2007 Gould Road Flow Monitiroing
- 2009: Bexley Begins SSES 5-Year Study
  - City engaged with EMH&T in 2009
    - Scheduled a 5-Year SSES study
      - 2009-2010: Program Set Up
      - 2010-2011: Flow Monitoring
      - 2011-2012: Gould Road SSES and Clifton Road SSES
      - 2012-2013: Livingston Avenue SSES
      - 2013-2014: Alum Creek SSES and Final Report





### SEWER STUDIES: COUNCIL ACTION

- 2009-2014: SSES 5-Year Study w/EMH&T
- 2013: City Council adopted a Water and Sewer Capital Fee for the first time as SSES was concluding (Ord 23-13)
- 2014:
  - Council reviewed and approved a 26-Year Funding Plan
  - DFFO Summary Report Submitted to Ohio EPA



### SEWER IMPROVEMENTS

PROJECT/ YEAR	2015-2018	2019	2020-2035	2036-2037	2038-2040
DFFO IMPLEMENTATION SCHEDULE	\$ 1,670,105	\$ 125,000	\$6,596,945	\$3,026,940	\$ 1,570,830
2015 SEWER IMPROVEMENTS	\$ 197,210				
2017 SEWER IMPROVEMENTS	\$ 177,474				
2018 ASHBOURNE SEWER IMPROVEMENTS	\$ 328,266				
2018 ST CHARLES SEWER LINING	\$49,500				
2018 SOUTH ROOSEVELT SEWER IMPROVEMENTS	\$288,208				
2018 STANWOOD STORM IMPROVEMENTS	\$ 189,272				
2019/20/21 SEWER IMPROVEMENTS			\$303,498		
2021/22 SEWER IMPROVEMENTS			\$196,897		
2021/22 S DREXEL SEWER LINING			\$477,308		
2022 S DREXEL STORM IMPROVEMENTS			\$604,961		
2021 VERNON ROAD IMPROVEMENTS			\$103,332		
2021/22/23 SEWER IMPROVEMENTS			\$ 668,347		
2022/23 CHELSEA AREA SEWER LINING			\$269,655		
2023 CHELSEA SANITARY SEWER			\$325,486		
ACTUAL PROJECT TOTALS	\$1,229,930		\$2,949,484		





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ACTUAL PROJECT TOTALS	\$1,229,930		\$2,949,484		
	DFFO ANNUAL AVERAGE:		\$439,000		
	ACTUAL ANNU	AL AVERAGE:	\$/3/,3/1		





## NEED FOR EUTORESTUDY

- Concerns with 2014 SSES information:
  - Sub-basin specific suggestions questioned
    - Actual WIB reports differ from SSES suggestions
  - Lack of information for certain sub-basins

  - On-going and post-project flow monitoring differ from study results • Relief sewer recommendation not viable
- Changing theories/methods of how to reduce private I/I
- Lack of a storm sewer atlas/modeling
- Lack of comprehensive analysis since 2014
- Decreasing balance in Sewer Fund





### SEWER EXPENSES

	2022 ACTUAL	2023 ACTUAL	2024 BUDGET	<b>2024 PROJECTED</b>	2025 PROPOSED		
SEW	SEWER ADMINISTRATION (SELECT CONTRACT EXPENSE)						
CITY OF COLUMBUS CONTRACT	\$ 1,672,873 \$ 1,801,883 \$ 1,942,500 \$ 1,9				\$ 2,059,050		
SEWER SERVICE (SELECT CAPITAL EXPENSES)							
MANHOLE COVERS	\$ 5,498	\$ 9,748	\$ 15,000	\$ 11,000	\$ 15,000		
SEWER IMPROVEMENTS	\$ 97,740	\$ 252,488	\$ 480,000	\$ 480,000	\$ 100,000		
SEWER REMEDIATION PROGRAM	\$ 23,700	\$ 72,969	\$ 100,000	\$ 35,000	\$ 50,000		
SEWER STUDIES AND INSPECTIONS	\$ 150,000	\$ 10,788	\$ 50,000	S -	\$ 550,000		



#### SEWER EXPENSES

62% opwc

# **\$4.179**<br/>MILLION



#### **38% CITY (SEWER FUND)**

### **STATUS QUO: SEWER FUND**

	2022 ACTUAL	2023 ACTUAL	2024 BUDGET	2024 PROJECTED	2025 BUDGET
TOTAL REVENUE	\$ 2,742,995	\$ 2,739,131	\$ 2,875,498	\$ 3,017,067	\$ 3,090,000
TOTAL EXPENDITURES	\$ 2,355,222	\$ 2,503,298	\$ 2,718,465	\$ 3,222,614	\$ 3,341,714
REVENUES OVER (UNDER) Expenditures	\$387,772.87	\$235,833.04	\$157,032.74	(\$205,546)	(\$251,713)
SEWER FUND DEBT Service	\$ 77,911	\$77,964	\$84,922	\$84,921	\$101,369
SEWER FUND BALANCE	\$ 3,784,221	\$ 3,486,406	\$ 3,122,608	\$ 2,264,892	\$ 1,911,809





### 2024 RFP PROCESS

- Formed internal sewer study committee (Mayor, Director of Public Service, Water and Sewer Supervisor, City Engineer, Director of Adminstration and Development)
- Issued RFP in May for comprehensive analysis
  - Three responses:
    - Burgess & Niple, Inc. B&N (preferred)
    - EP Ferris and Associates
    - Arcadis
- Proposal Evanuation follow up included:
  - Reference checks
  - Individual interviews
  - Standardized response form
  - Scope reduction (for B&N)



## FUREMPICATIONS

• ~\$500k - Phase II Study in 2026 New 10-Year Capital Improvement Program • Likely multi-million dollar investment annually Funding evaluation for 10-Year CIP • End user capital fees • Bonds • OPWC • Other

