

Avon Water Pollution Control Authority
July 14, 2022 – 5:30 p.m.
Via GoToMeeting

I. CALL TO ORDER

The Avon Water Pollution Control Authority meeting was called to order at 5:30 p.m. via GoToMeeting by Chairman Johansen.

AWPCA – Roll Call:

Present: Eric Johansen, Chairperson
Tom Armstrong, Vice-Chairperson
Chris Roy
Micah Rousey
Lawrence Baril, Town Engineer

Absent: Keith Jones

II. MINUTES OF PRECEDING MEETING

June 9, 2022

On a motion made by Mr. Roy and seconded by Mr. Armstrong, it was voted:

RESOLVED: That the Authority approves the minutes of the June 9, 2022 Meeting as drafted.
Messrs.: Johansen, Armstrong, Rousey, and Roy voted in favor.

III. COMMUNICATION FROM AUDIENCE – None

IV. NEW BUSINESS

2022 – 5 Towpath Sewers

An update regarding Towpath Condominiums was given by Mr. Baril.

2022 – 6 Sanitary Sewers Evaluation Survey (SSES) presentation

Virgil Lloyd and Lindsay Silcox with Fuss & O'Neill made a presentation (which is attached and made part of these minutes).

On a motion made by Mr. Armstrong and seconded by Mr. Roy, it was voted:

RESOLVED: That the Authority recommend proceeding with the Sewer System Evaluation Survey (SSES) and recommend that the Town Council award the contract to Fuss & O'Neill.
Messrs: Johansen, Armstrong, Rousey, and Roy voted in favor.

2022 – 7 Route 44 Pump Station Upgrade

On a motion made by Mr. Armstrong and seconded by Mr. Roy, it was voted:

RESOLVED: That the Authority recommend proceeding with professional consulting services for the Route 44 Pump Station Project and recommend that the Town Council award the contract to Fuss & O'Neill.

Messrs: Johansen, Armstrong, Rousey, and Roy voted in favor.

V. OLD BUSINESS

2021 – 7 Benefit Assessments – Sub-dividable lots

On a motion made by Mr. Roy and seconded by Mr. Armstrong, it was voted:

RESOLVED: That the Authority table this item to its September 8, 2022 meeting.

Messrs: Johansen, Armstrong, Rousey, and Roy voted in favor.

2021 – 8 Timber Lane – Sewers

Mr. Baril reported that the boring contractor has completed their work. The Authority gave consensus to hold a Public Information Meeting at their September 8, 2022 meeting.

VI. PLANNING & ZONING MATTERS – No items presented.

VII. COMMUNICATION FROM STAFF - None

VIII. COMMUNICATION FROM MEMBERS – None

IX. OTHER BUSINESS – None

X. ADJOURNMENT

On a motion made by Mr. Rousey seconded by Mr. Roy, it was voted:

RESOLVED: That the Authority adjourn the meeting at 6:35 p.m.

Messrs.: Johansen, Armstrong, Rousey, and Roy voted in favor.

Attest: Jennifer Worsman, Acting AWPCA Clerk

Phase 2 – Sewer System Evaluation Survey Farmington Sewershed

Presentation to
Town of Avon
Water Pollution Control Authority
July 14, 2022

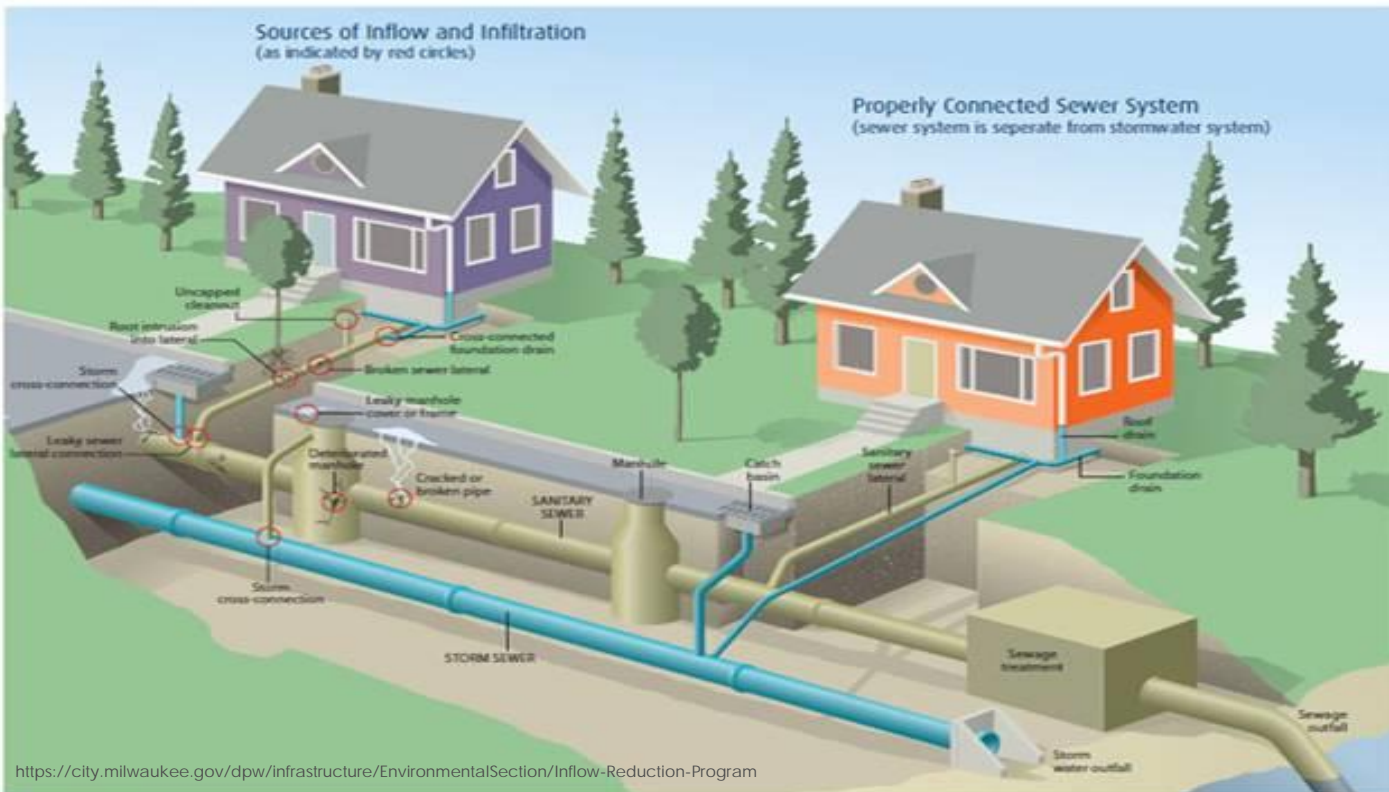
USEPA I/I Abatement Process

- Definitions

- Infiltration
 - *Enters Indirectly*
- Inflow
 - *Enters Directly*

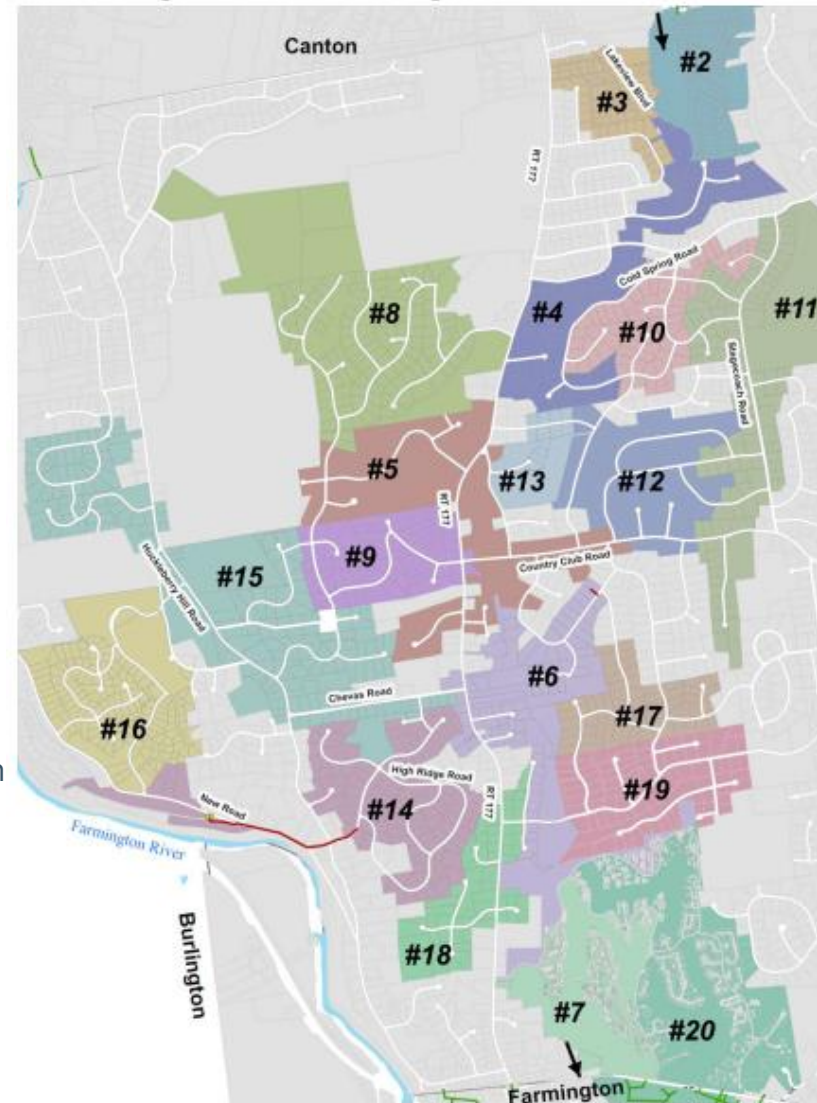
- Three Part Process

- I/I Analysis
- Sewer System Evaluation Survey
- Rehabilitation



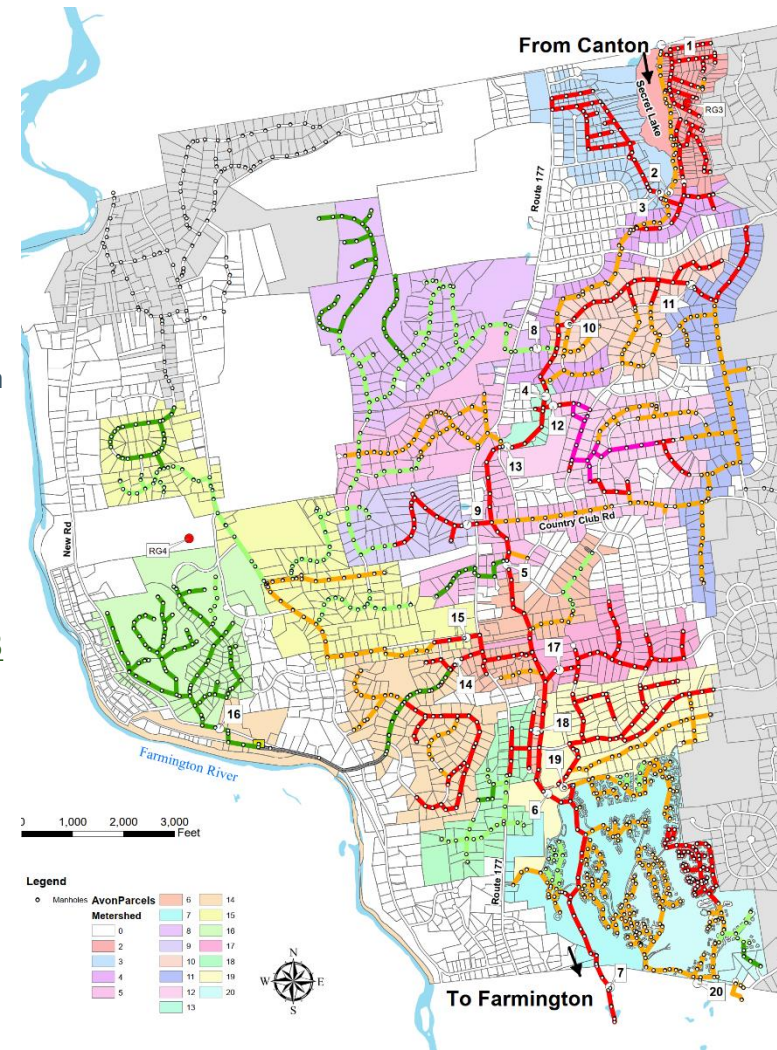
EPA Phase 1 Infiltration/Inflow Investigation 2014-2016

- Flow Monitoring
 - Divided Sewershed into 20 Meter Basins
 - EPA Excessive Infiltration & Inflow Metrics
 - 30% of meter basins rated as high in one or both metrics
- Manhole Inspection
 - Visual Inspection of Manhole Structures for evidence of I&I
 - 215 Manholes Inspected (20% of Sewershed)
 - 14 Severe Defects, 62 Moderate, 201 Minor
- Dye Flow Dilution
 - Quantifies Increased Flow between Pipe Segments during Overnight Low Flow, Isolating Problem Areas to be CCTV'd
 - 20 miles Investigated (45% of Sewershed)
 - 4 Severe Metersheds, 2 Moderate, 3 Minor
- CCTV Investigation
 - Targeted a few Problem Areas Isolated During Dye Dilution
 - 21 of 54 pipe segments Investigated showed infiltration
- Sewer Capacity Analysis of Farmington and Simsbury Sewersheds
 - 12 pipe segments found capacity constraints
- Approved by DEEP in 2018



EPA Phase 2 Sewer System Evaluation Survey 2022 – Scope of Work

- Smoke Testing – Fall 2022
 - Non-toxic, non-staining, non-explosive smoke to find illicit connections
 - 4 Metersheds targeted based on Phase 1 Inflow Metric
- Sewer Rehabilitation General Specifications – Winter 2022
- Comprehensive Manhole Inspection – Early Spring 2023
 - Visual Inspection of Manhole Structures for evidence of I&I
 - 175 Manholes selected based on age of infrastructure and discussion with Town Staff
- Dye Flow Dilution – Mid Spring 2023
 - Quantifies Increased Flow between Pipe Segments during Overnight Low Flow, Isolating Problem Areas
 - 4 Metersheds Investigated based on Phase 1 Infiltration Metric
- Capacity Analysis of Sanford & Hawley Interceptor – Summer 2023
 - 2 Flow Meters for 8 Weeks to make Hydraulic Calculations
- CCTV Investigation – Spring 2024
 - Target Problem Areas Isolated During Dye Dilution
 - Full Main Interceptor, 6 miles of Gravity Sewers, 100 Service Laterals
- Database of Manhole Frames & Covers to be Raised – Throughout
- Final SSES Report – Summer/Fall 2024
 - Include recommended rehabilitation plan based on cost effectiveness analysis



EPA Phase 2 Sewer System Evaluation Survey 2022 - Schedule

<u>Article Number</u>	<u>Scope Item</u>	<u>Fee Basis*</u>	<u>Cost/Budget</u>
2.19	Comprehensive Manhole Inspections	CPFF	\$ 60,000
2.20	Develop Database of Manhole Frames & Covers to be Raised	CPFF	\$ 5,500
2.21	Smoke Testing for Inflow	CPFF	\$ 78,500
2.22	Non-Toxic Dye Flow Dilution Testing	CPFF	\$ 102,300
2.23.1	Cleaning and CCTV Inspection of Farmington Sewershed Main Interceptor	CPFF	\$ 104,200
2.23.2	Cleaning and CCTV Inspection of Farmington Sewershed	CPFF	\$ 125,500
2.23.3	CCTV Service Connections	CPFF	\$ 36,000
2.23.4	CCTV Technical Memorandum	CPFF	\$ 22,500
2.24	Develop Sewer Rehab General Specifications	CPFF	\$ 31,000
2.25	Capacity Analysis of Sanford & Hawley Interceptor	CPFF	\$ 38,500
2.26	Develop SSES Report	CPFF	\$ 57,000
TOTAL BUDGET			\$ 661,000
*Fee Basis = Cost Plus Fixed Fee (CPFF), Hourly (HR), or Lump Sum (LS), as indicated			

Questions
