

**City of Mequon
Private Property Lateral
Rehabilitation Program**



**Public Information Meeting
August 17, 2021
City Hall**

INTRODUCTIONS

- City of Mequon Staff
 - Kevin Driscoll, Deputy Director of Utilities
 - (262) 236-2937
- Milwaukee Metropolitan Sewerage District, Private Property Inflow and Infiltration Reduction Program
 - Jerome Flogel, Program Manager
 - (414) 225-2161
- Contractor
 - Great Lakes TV & Seal, Inc. (Investigations)
 - TBD (Implementation)
- Consultant
 - Ruekert Mielke – Jerad Wegner



PURPOSE OF PROGRAM

- Remove clear water from sanitary sewers.
- Reduce incidents of basement backups.
- Reduce sanitary sewer overflows at City-owned lift stations, and avoid non-compliance with WDNR rules 110 and 210.
- Take advantage of MMSD funding opportunity.



LATERAL AND FOUNDATION DRAINS



ROOT INTRUSION FROM LATERAL



PROGRAM HISTORY

- 1999 Smoke Tested and Replaced Clean-outs
- 2007 Flood Grouted Laterals
- 2008 and 2010 Extreme Rain Events and Clear Water in the System
- 2010 MMSD Reimbursement Program Began
- 2011 Investigated Infiltration & Inflow (Res. 3014)
- 2017 Implemented Rehab with CIPP (Res. 3447)
- 2020 Workplan for Additional Investigation (Res. 3657)
- 2021 Funding Agreement (Res. 3842)

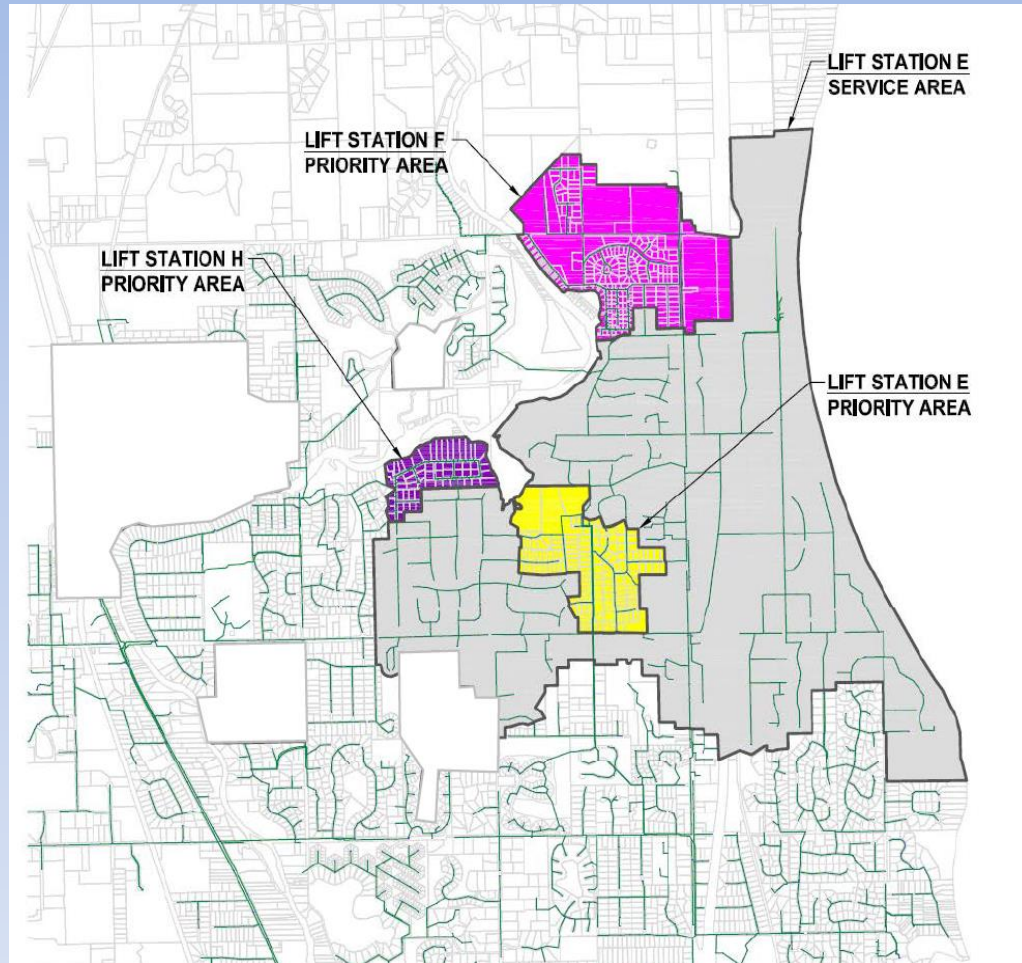


AREAS OF CONCENTRATION

- ME 4001 – Riverdale Lift Station “F” service area bounded by Milwaukee River, Liebau Road, vicinity of Highland Road and Port Washington Road (260 parcels);
- ME 4002 – Riverland Drive Lift Station “H” service area bounded by the Milwaukee River, Riverland Road, Schwemer Lane and Grace Ave (59 parcels).
- Based on lift station peaking factors during wet weather
- Future areas under consideration and in progress



AREAS OF CONCENTRATION



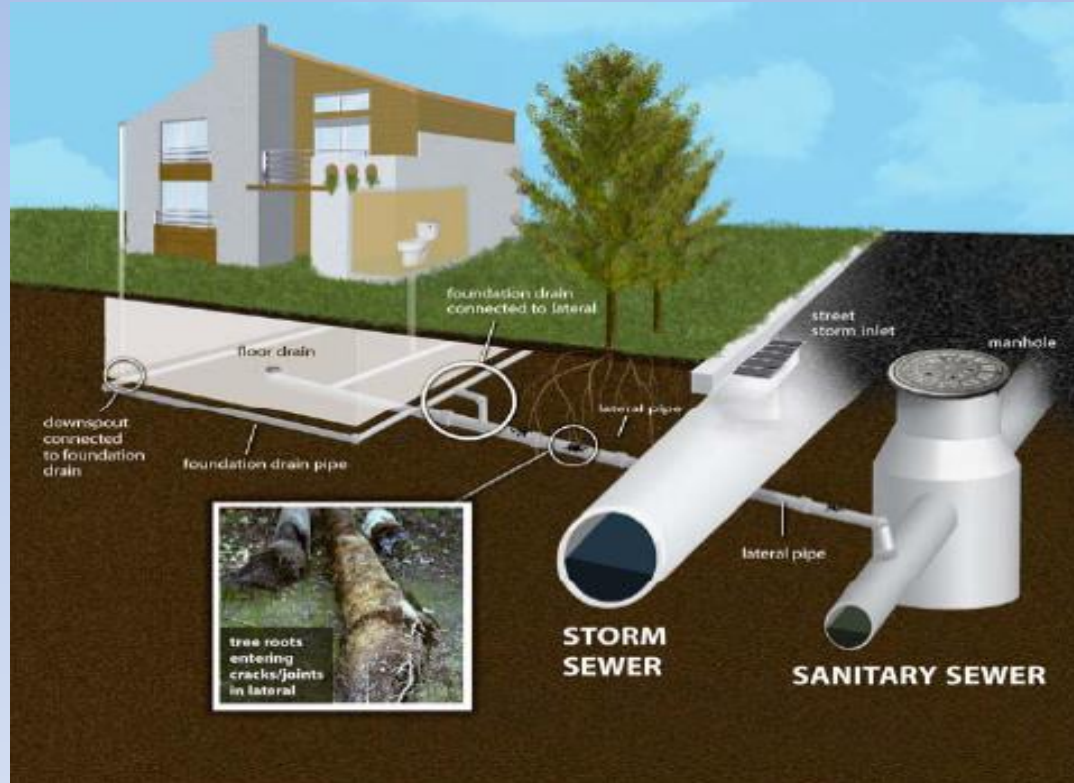
SPECIFIC ACTIVITIES

(Spring 2020)

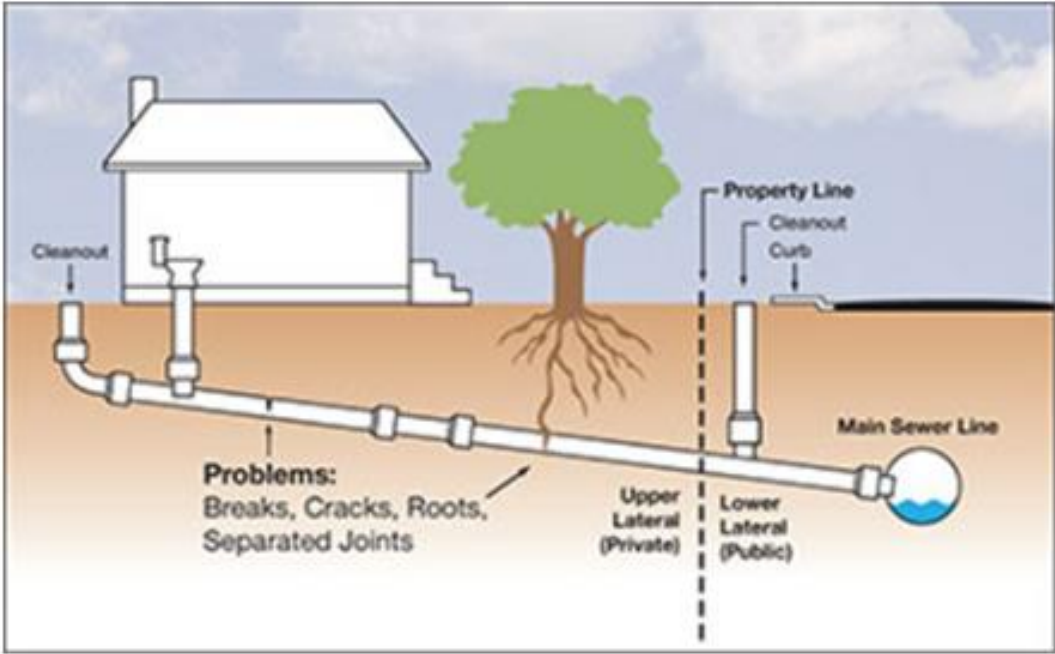
- First Phase is Investigation (Clear Water Compliance)
 - Inspect Sump Pump Connections
 - Inspect Down Spout Connections
 - Check Foundation Drain Connection
- Perform dye water testing (& smoke testing, if needed)
- Televise laterals to identify sources of infiltration
- Televise and inspect sanitary sewer laterals in the City right of way and locate clean-out access



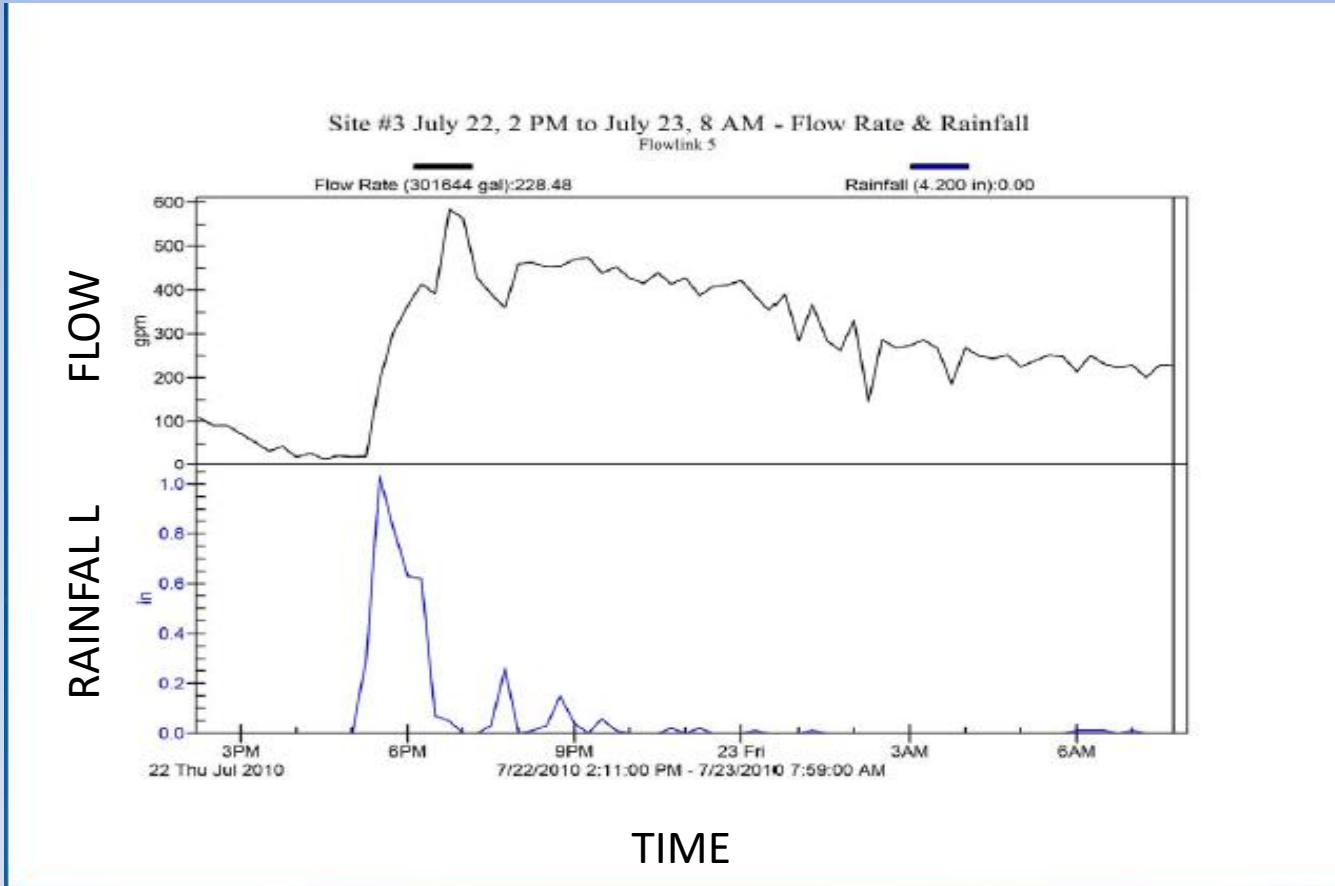
LATERAL AND FOUNDATION DRAINS



LATERAL CLEAN-OUTS



FLOW DATA



REHABILITATION IN NEXT PHASE

(Spring 2022)

- Product Approval by Department of Safety and Professional Services for City Plumbing Permit

Excerpt from Policy

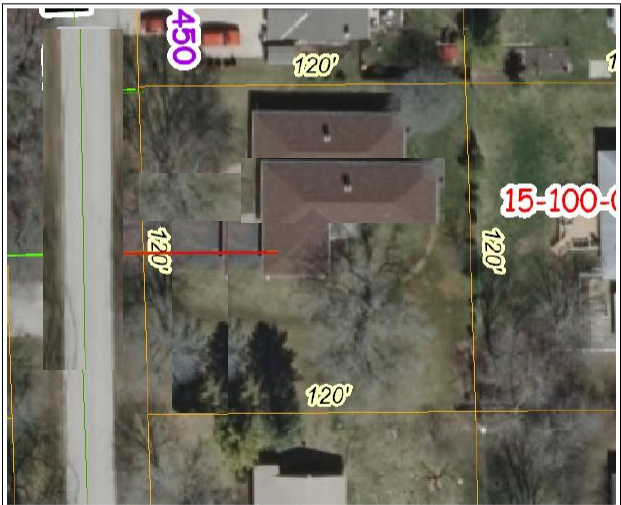
"The City will review the televising reports and develop individual rehabilitation methods to fix each specific lateral. Rehabilitation methods include, but are not limited to: lateral lining, grouting and lateral replacement."

- ✓ Construct Access to Test and Grout Laterals
- ✓ Open Cut Repair Repairs



REHABILITATION IN NEXT PHASE (Spring 2022)

22.9	RMJ	Roots Medium Joint	Flood Grout	Yes
22.9	DAE	Deposits Attached	Pipe Burst	No
22.9	IR	Infit Runner	Spot Repair	No
23.6	MMC	Material Change	Spot Liner	
23.6	MSC	Shape or Size Change	T Liner	
24.2	LRU	Alignment Right Up		
24.5	LRU	Alignment Right Up		
32.4	LD	Alignment Down		
32.4	LD	Alignment Down		
36.4	MSA	Abandoned Survey		
36.4	MGO	General Observation		
63.6	LL	Alignment Left		
72.8	MSA	Abandoned Survey		
72.8	MGO	General Observation		



Ruekert • Mielke



Report Created At: 3/19/2021 4:19 PM



DO I NEED TO PARTICIPATE?

- Mandatory? No – completely voluntary
- Recommended?
- Impacts of foregoing program?
 - Funds anticipated to be allocated to other properties / project areas



COST IMPLICATIONS

- MMSD Funding
 - Allocations based on equalized value of each of the 28 communities
 - City of Mequon's approximate allocation:

Annual allocation approx.	\$250,000
Total allocation available	\$2,110,000
- Est. rehabilitation cost \$740,000 for 200 lots



REHABILITATION IN NEXT PHASE (Planned Spring 2022)

- Product Approval by Department of Safety and Professional Services for City Plumbing Permit

Excerpt from Policy

"The City will review the televising reports and develop individual rehabilitation methods to fix each specific lateral. Rehabilitation methods include, but are not limited to: lateral lining, grouting and lateral replacement."

- ✓ Install New Cleanout(s)
- ✓ Pipebursting with work-pit
- ✓ Perform a relay with excavation



PARTICIPATION REQUIREMENTS

1. Volunteer for Program to Reduce Infiltration and Inflow
 - Read Policy and Sign-up for Sewer Lateral Exam
2. Schedule Clear Water Compliance Inspection
3. Respond to Rehabilitation Recommendation
 - a. Schedule Follow up Site Visit (Optional)
 - b. Return Authorization Letter for contractor to work on private property



PROJECT SCHEDULE

- Continue Clear Water Compliance Inspections
- Advertise Contract, September 2021
- Award Contract, October 2021
- Begin Sewer Lateral Work, Spring 2022

- Open to Volunteers until Contract Work is Substantially Complete



IMPORTANCE OF PROJECT

<https://www.mmsd.com/what-you-can-do/keep-your-basement-dry>



Grouting Video

<https://www.avantigrout.com/link-videos/item/seal-unlined-lateral-connection>



QUESTIONS?

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