

# Pumping Station 7 Force Main

## Emergency Repair Update

Commission Meeting  
May 27, 2021





# April 5<sup>th</sup> – Leak Discovered in Median of Beltline







## April 16<sup>th</sup>:

- Excavation in median of Beltline
- Is leak location visible?
  - Answer: No
- Which force main is leaking?
  - Seepage above 1948 force main
  - Dry around 1963 force main
- Hunch:
  - 1948 force main is leaking



## April 21<sup>st</sup>:

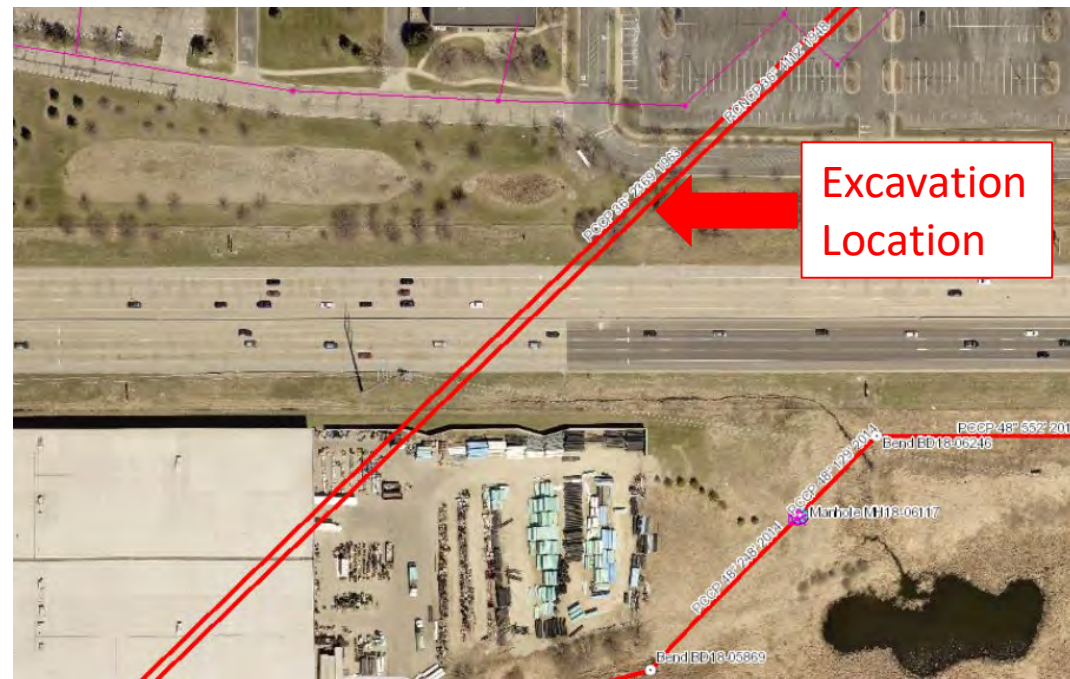
- Ground Penetrating Radar analysis of Beltline
- Nothing of concern was found





## April 28<sup>th</sup>:

- Pipe excavated on north side of Beltline
- To determine pipe size for repair parts and clamp
- Also access point for internal inspection and lining







**May 14<sup>th</sup>:**

- **Repair clamp arrives**





## May 19<sup>th</sup>:

- Draining process begins
- 3 days to complete





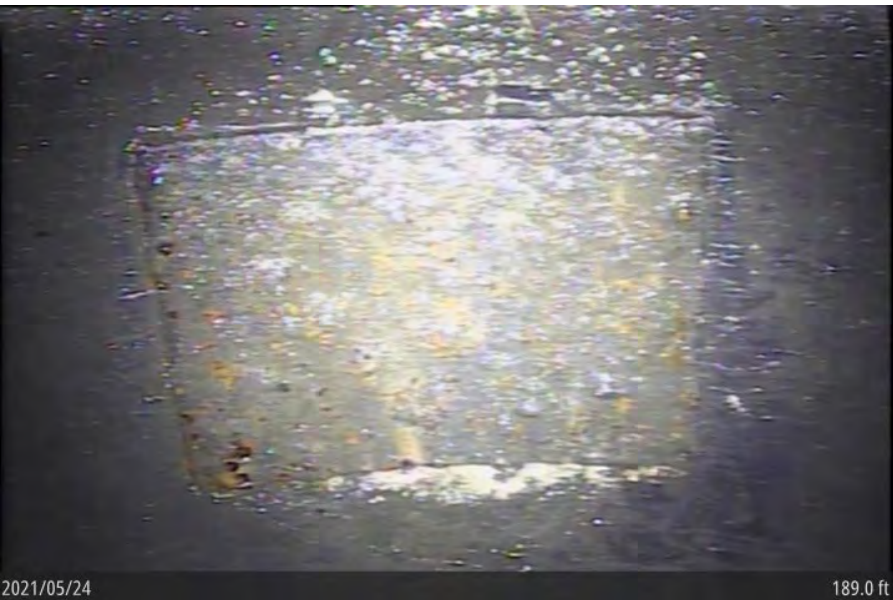






## May 24<sup>th</sup>:

- Internal inspection
- Cracked pipe 182' from entry point
- Location: Median of the Beltline
- Confirms: 1948 force main was leaking



2021/05/24

189.0 ft



2021/05/24

175.5 ft





## May 25<sup>th</sup>:

- Repair clamp installed
- Remains this way until liner arrives



## Summary & Next Steps:

- Confident 1948 force main was leaking
- Line across entire Beltline right-of-way
- 346' of internal liner required
- 4-6 weeks to receive materials (liner and resin)
- Order closure pipe and clamps for both sides also
- Approximately \$50,000 spent to date
- Total cost estimate: ~\$300K

## Special thanks to:

- Capitol Underground
- Visu-Sewer
- MMSD personnel