

CSO Brentwood and Red Bud Ave (12139) Virtual Town Hall

August 20, 2020

Today's Roadmap

- Technology Overview and Ground Rules
- Overview of MSDPC
- Project Overview and Specifics
- FAQs
- Q&A

Notes on our Virtual Town Hall Platform

- Participants are in listen-and-view mode
- There are several ways to engage
 - Type your question using Q/A icon at the bottom of your screen at any time (even before the Q/A portion has begun)
 - Everyone can read all questions posed and you can “Upvote” questions you want answered

MSD Project Clear (MSDPC) Overview & Details

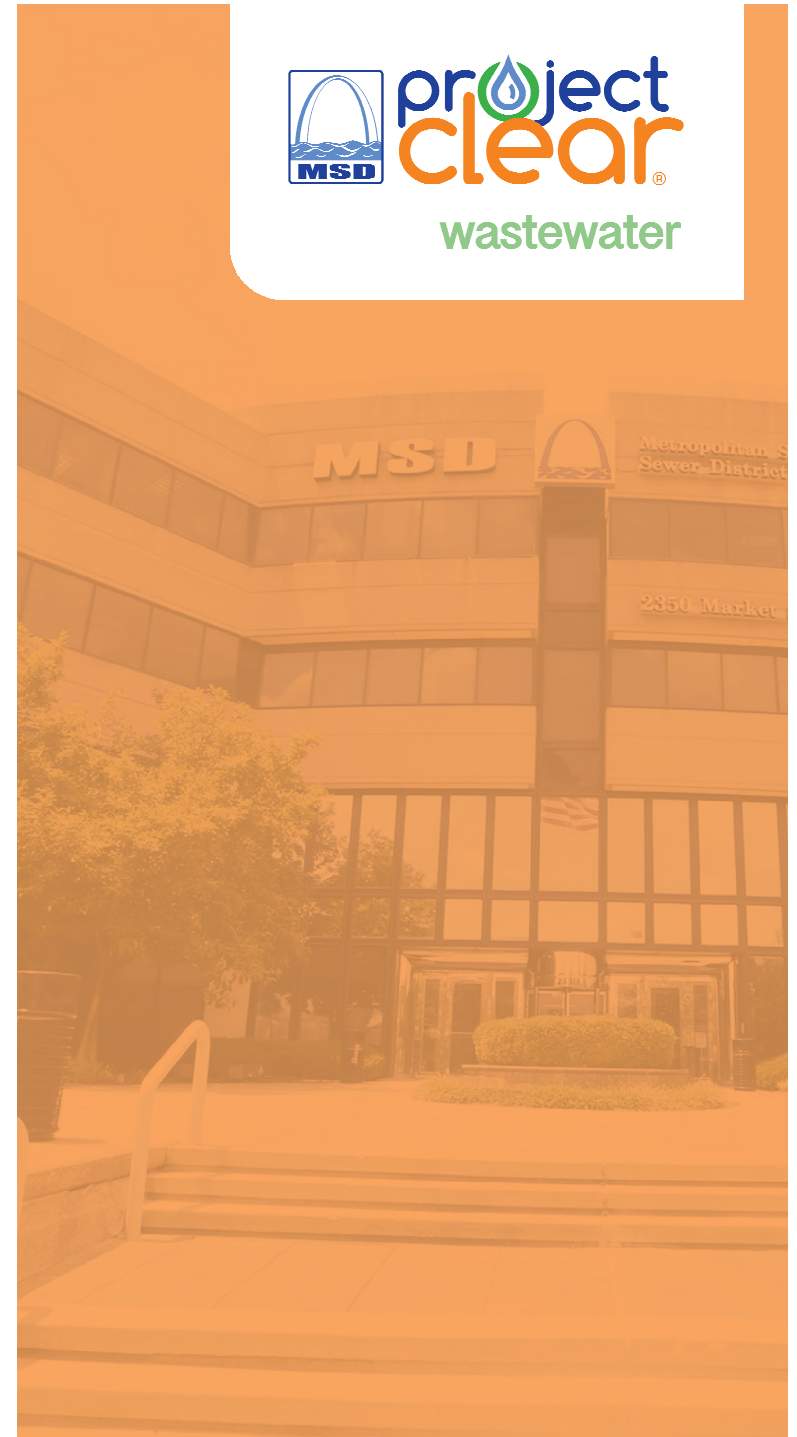
- Government Utility
 - State Constitution
 - Voter Approved Charter in 1954
 - 6 Member Board of Trustees (3 City & 3 County)
- Two utilities: Wastewater & Stormwater
- 520 square mile service area
 - All of St. Louis City
 - 87% of St. Louis County
- ~1,300,000 customers
- 88 municipalities served
- 7 Treatment Plants
- 350+ million gallons per day of wastewater treated
- 4,700+ miles of wastewater sewers
- 1,800+ miles of combined sewers
- 3,000+ miles of stormwater sewers
- 4th largest sewer system in the United States (as measured by miles of sewers handling wastewater)

2 UTILITIES
IN one

Brentwood and Red Bud CSO Interceptor (12319)

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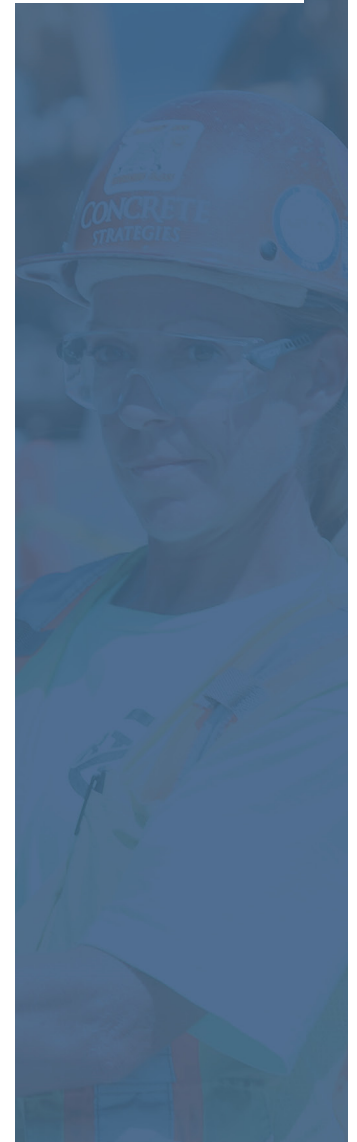
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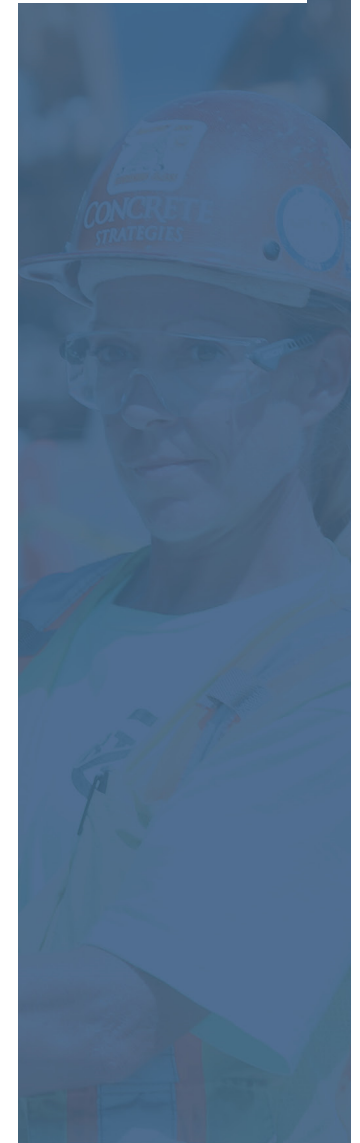
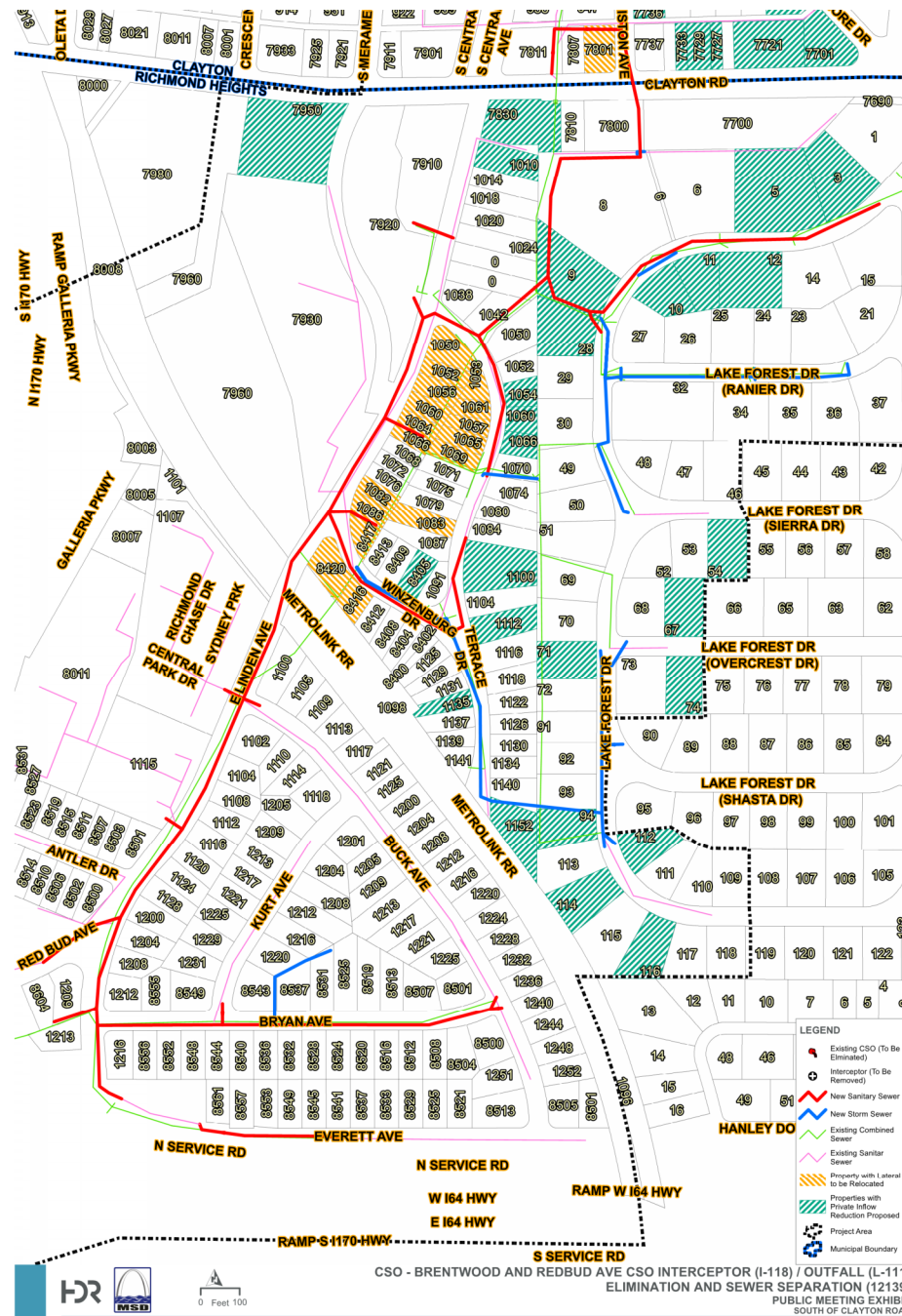
Project Overview



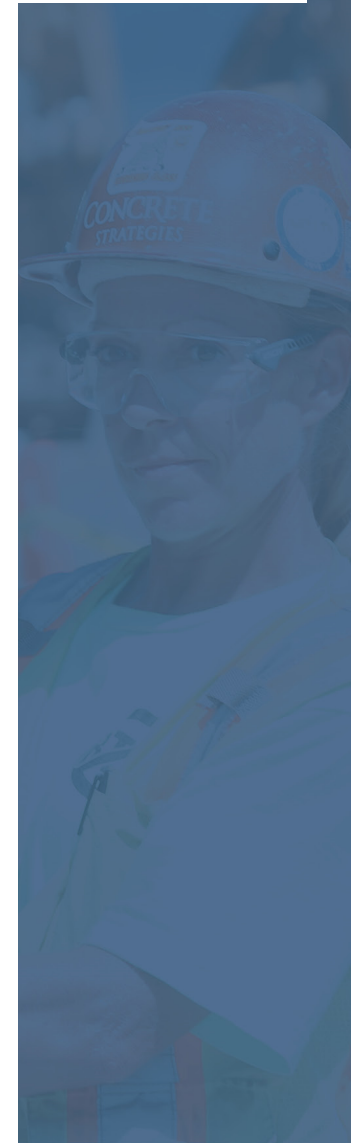
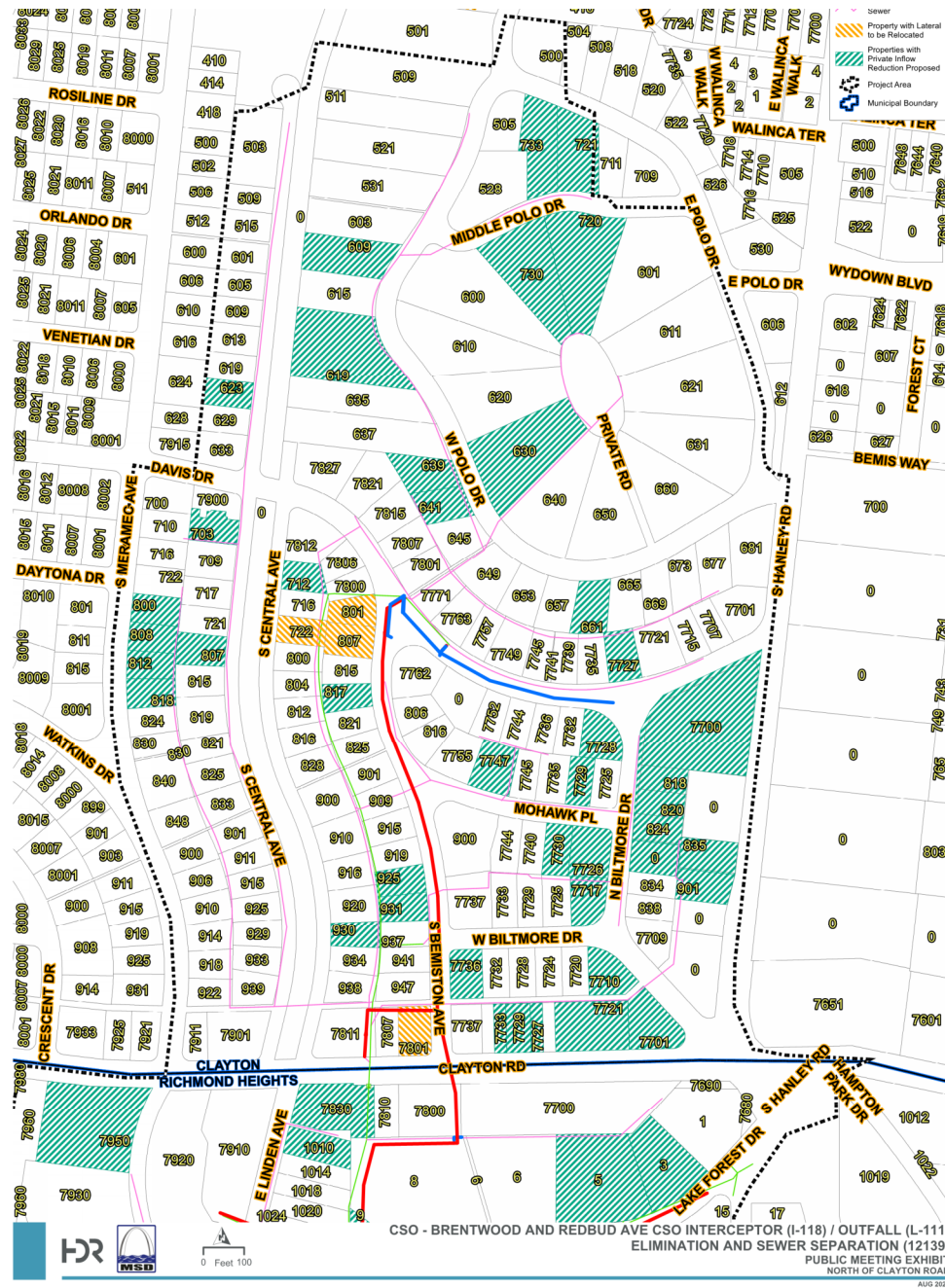
- Origin of Project
 - Combined sewer system
 - Undersized sewer pipes
 - Part of MSD Consent Decree and LTCP
- Project Goal
 - Eliminate CSO through separation of sewers
 - Separate pipes for designated flows
 - Removal of interceptor / CSO
 - Removal of inflow sources from 65 properties
- Project Planning Phase
- Benefits
 - Increased sewer pipe sizes
 - Fewer backups
 - Reduced treatment costs
 - Improved water quality by preventing CSO from entering creek



PROJECT MAP - South portion



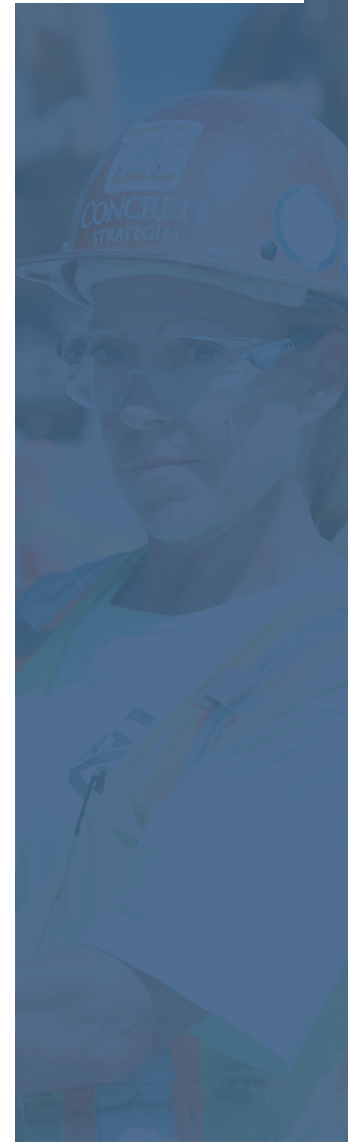
PROJECT MAP – North Portion



Project Facts



- Sanitary Sewers:
 - 9,200 feet of sanitary sewer
 - Depth ranges from about 10 to 30 feet
 - 6" to 30" Diameter
- Storm Sewers:
 - 4,200 feet of storm sewer
 - Depth ranges from about 5 to 15 feet
 - 12" to 21" Diameter
- Sanitary Lateral Relocations
 - Approximately 21 properties
- Private Inflow Reduction (PIR)
 - Approximately 65 properties
- Elimination of interceptor



How the Project will be built

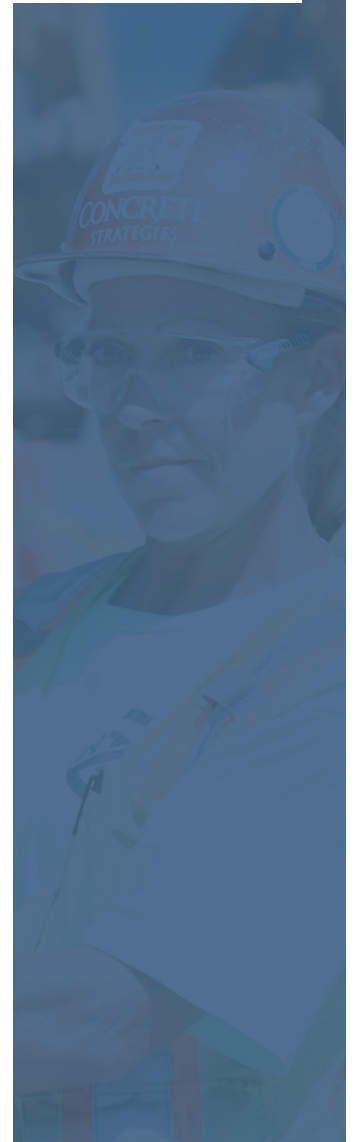


- Construction Method
 - Open-cut for majority of project
 - Tunneling locations
 - Along E. Linden under Metro
 - Under Clayton Road
 - Alley north of Clayton Road near Bemiston
 - On Winzenburg under existing sewer
- Equipment anticipated
 - Back-hoe used for majority of open-cut installation
 - Tunnel boring machine for tunneling locations



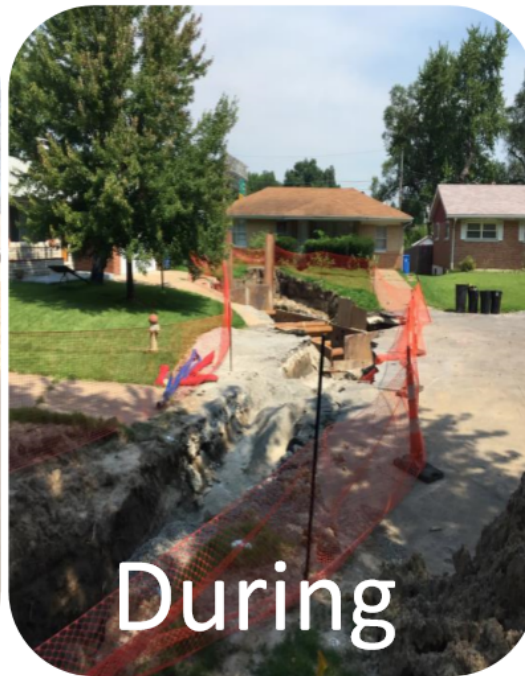
What can residents expect?

- Easements for access to private property
- Construction noise during normal business hours
- Road and lane closures with temporary traffic impacts
 - Work along E. Linden, Bryan, Terrace, Winzenburg, Everett, Lake Forest area, Bemiston and Davis
 - Access for emergency vehicles
- Temporary access issues to residential / commercial properties



What will it look like when it's done?

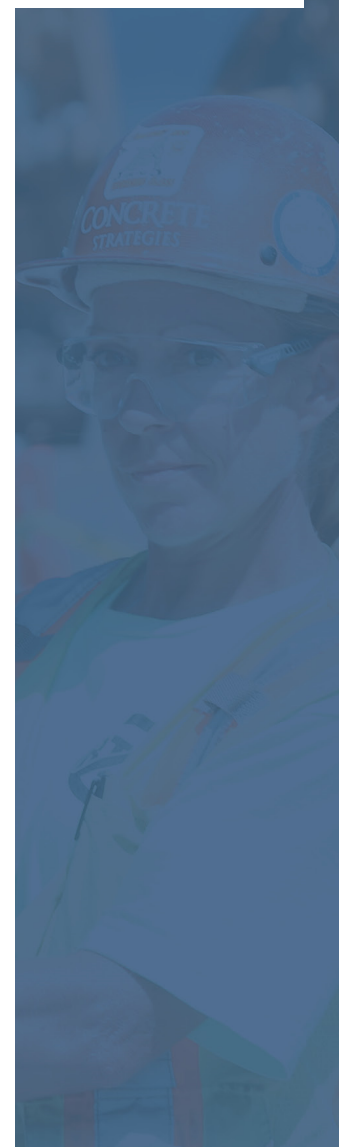
- Trenches backfilled soon after pipe is installed
- Roadway restoration
- Sidewalk restoration
- Private property restoration per Easement / PIR agreement



Tentative Construction Schedule

- Easement Acquisition – October 2020 to February 2022
- PIR Property Negotiations – August 2020 to about December 2020
- Estimated Construction start date – Middle of 2023
- Estimated Construction duration – Approximately 2 years

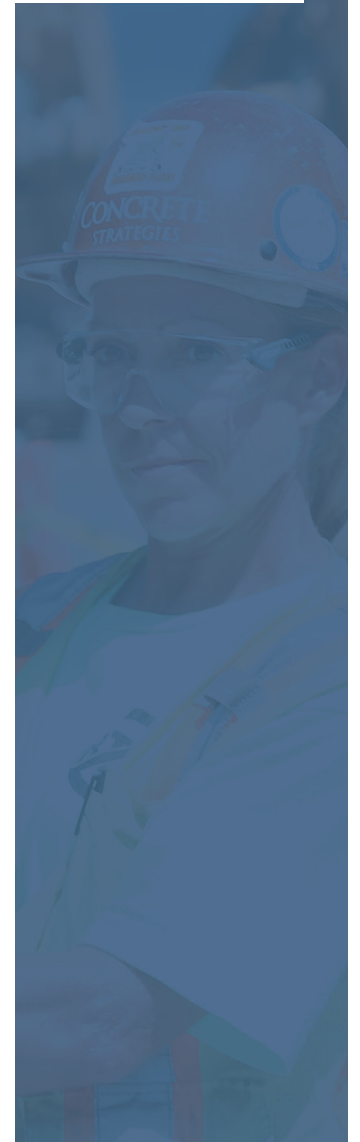
*Anticipated construction start date is subject to change. MSD will notify residents before construction begins.



FAQs



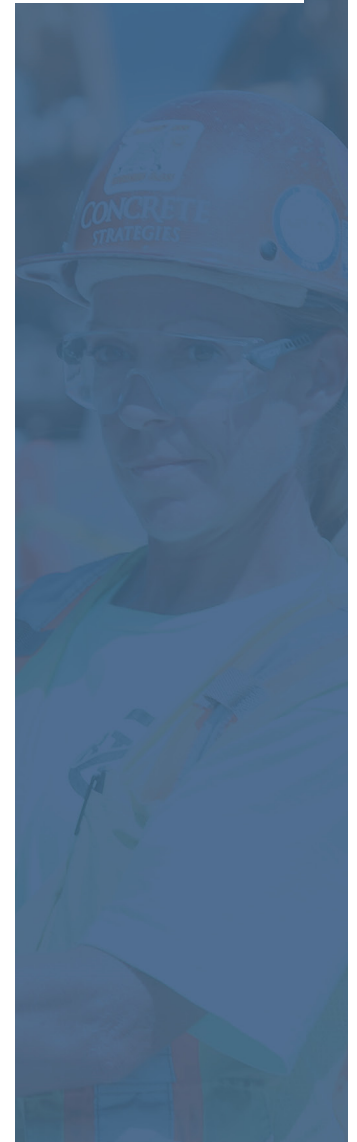
- **Q1: Why is MSD doing this project?**
 - A1: The Consent Decree with EPA requires the removal of the combined sewer overflow located at the downstream end of this project. It's removal will have a positive impact on Black Creek's water quality, reduce /alleviate basement backups and have a positive impact to drainage with a dedicated storm sewer.
- **Q2: Were other options looked at?**
 - A2: Yes, an adit, a smaller tunnel, connecting the combined flow to the Deer Creek Tunnel was considered. However, this option was not cost effective as Jeff mentioned earlier.



FAQs



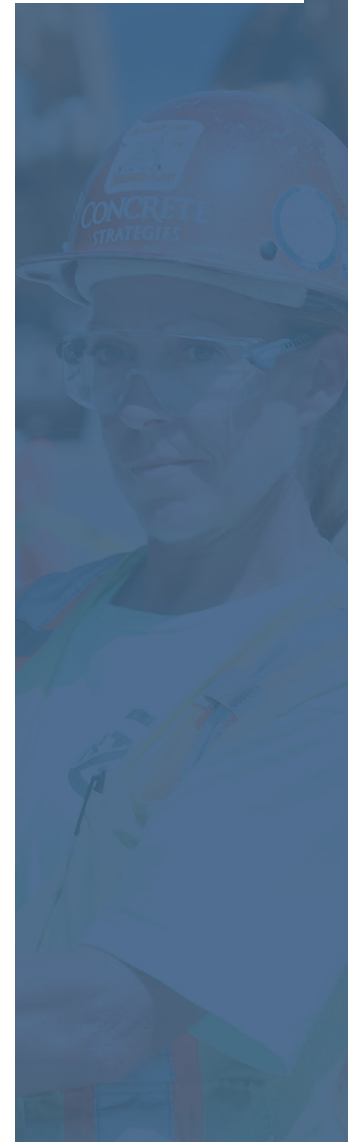
- **Q3: MSD is currently in the area constructing a storm sewer project near Winzenburg and Terrace Drive. Why is MSD going to be back in this area again?**
- A3: Yes, there is currently a storm sewer project being constructed in the area to mitigate storm water concerns. The storm water project had to move forward to alleviate significant basement backups and yard flooding. We did coordinate the two projects to try and minimize impacts where possible; however, some properties will be impacted again with this separation project slated for construction in 2023.
- **Q4: Which streets will be effected on what dates, and during what hours?**
- A4: Construction for this project is anticipated to start in middle of 2023. MSD will select a Contractor to complete the construction. The Contractor will be required to submit a detailed traffic control plan to MSD for approval prior to construction. Working hours for the Contractor are typically from 8 am to 5 pm.



FAQs



- **Q5: Will residents have access issues to their property?**
- A5: During the construction period the Contractor will notify you prior to performing work on your property or street. In most cases, at the end of the day the Contractor will leave the area drivable with gravel backfill or a street plate across the trench.
- **Q6: Will trees be removed as a part of this project?**
- A6: Trees may need to be removed to construct parts of this project. Property owners with trees that will need to be removed that are not located in already existing easements will be compensated for the removal through the easement acquisition process.



Questions?

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