Welcome to the Interceptor Chemical Odor and Corrosion Control Public Information Meeting

You are muted and your video is disabled upon entry.

Please utilize the QA (lower right corner of the screen) to type in comments or questions throughout the session. Questions will be answered after the presentation during the Q & A session.

Use the raise hand function to be unmuted to verbally ask a question.

Callers use *6 to raise hand to be unmuted to ask a question.

The meeting will begin at 6 p.m.
MCES Interceptor Chemical Odor and Corrosion Control Public Information Meeting

Tim O'Donnell, Senior Information Coordinator
Lisa Wolfert, Principal Environmental Scientist
Bob Johnson, Project Manager

Public Information Meeting
4/08/2021
Welcome to the Interceptor Chemical Odor and Corrosion Control Public Information Meeting

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If you experience any technical difficulties, please call or text 612.394.6037 or email info@mcesodorcontrol.org.

The meeting will begin at 6 p.m.
Meet the presenters of the
Interceptor Chemical Odor Control Project
Public Information Meeting

Tim O’Donnell
Lisa Wolfert
Bob Johnson
Public Information Meeting Purpose

• Provide information and answer any questions about the proposed Interceptor Chemical Odor and Corrosion Control project.
• Describe process to procure a design-build contract and an ongoing operation and maintenance contract.
• Contract will include all new non-proprietary equipment, double-wall heat traced tanks and piping
  o Improve overall system functionality
  o Competitive proposal market
• Show locations of each site and equipment
Public Hearing

April 21, 2021
Hearing starts at 6 p.m.
Comments from public following presentation

• A Public Hearing is legally required for design-build contracts and MCES has determined it is in our best interest to choose a design-build contract for this work.

• All comments and questions received will be documented and presented to the Metropolitan Council as it determines whether to approve and proceed with the project.
Public Notices & Schedule

Legal Notice
3/21/2021

Postcard Notice
3/24/2021

Public Information Meetings
4/7/2021
4/8/2021

Public Hearing
4/21/2021

Environment Committee Review
6/22/2021

Council Contract Authorized
7/01/2021

Construction Begin
3/01/2022

Construction End
7/01/2022

Operations Start
8/01/2022

* - Date Estimated
Service Area and Facilities
Wastewater Treatment Plant Locations

We serve ~50% of Minnesota’s population

WHO WE SERVE
7- county Twin Cities Metro Area
110 communities
3,000 square miles
2,700,000+ people

OUR FACILITIES
9 wastewater treatment plants
640 miles of interceptors
61 lift stations (pumping stations)
250 million gallons per day (average)
Terms & Definitions

• **Wastewater Sewer System**: A system of underground pipes that carries wastewater (or sewage) away from buildings. Cities operate their own local wastewater sewer systems within a community. MCES operates the regional wastewater sewer system that carries wastewater from city systems to our treatment plants, similar to how a freeway system carries regional traffic.

• **Interceptor Sewers**: A system of underground pipes that carries wastewater (or sewage) from local community wastewater sewer systems to regional treatment plants.

• **Lift Station**: Pump station that assists the movement of wastewater in the interceptor system by gravity or pressure.

• **Meter Station**: Station that records the flowrate of wastewater in the interceptor system. Can be located at a Lift Station or an independent station or vault.

• **Calcium Nitrate**: Naturally occurring compound that reduces hydrogen sulfide odors and minimizes corrosion in the interceptor system

• **Carbon Air Filtration**: Air filtration system installed at some interceptor system vent locations.
Procurement Need

MCES proposes entering into two contracts with a single Contractor to support chemical odor and corrosion control within the regional interceptor sewer system.

The proposed contracts include:

1. A design-build contract to provide engineering and construction services for the initial replacement of 16 odor and corrosion control systems currently located within the interceptor sewer system.

2. A contract for operations and maintenance of odor and corrosion control systems. This contract will be for 10 years with two potential 5-year renewals.

The contracts will replace an existing arrangement with a vendor providing similar services.
What is Interceptor Odor Control?

• Majority of odor is produced in sewer system by bacteria
• Hydrogen sulfide is a byproduct and the predominant odorant
• Hydrogen sulfide can move from liquid to vapor (air) phase
• Multiple ways and technologies to prevent odors from escaping, no one-size-fits-all
Odor Control – Vapor/Liquid Phase

- Vapor phase – Odorous air pulled from sewer and passed through media bed
- Liquid phase is preventative measure
- Liquid phase – chemical injection
- Both odor control systems are located strategically and used together
Existing Interceptor Chemical Odor Control

- 16 Chemical Feed Sites to address odor issues downstream
- Primarily at wastewater pumping stations (also known as lift stations) and meter stations
- Liquid calcium nitrate injected into wastewater flow
- Calcium nitrate is a natural compound that reduces hydrogen sulfide odors and minimizes corrosion
- Liquid stored on site (interior or exterior) and can be above ground or below
Typical Lift Station Chemical Odor Control

Exterior at wastewater pump station

Interior at wastewater pump station
Typical Meter Station Chemical Odor Control

Exterior at wastewater meter station

Interior at wastewater meter station
Site Activities with Interceptor Odor Control

• On-site minor construction at each site, likely between March 2022 – July 2022

• New contract includes exterior storage tanks and piping have heating elements to prevent freezing in cold weather (double-wall, insulated, heat traced)

• Staff on-site for startup and to optimize chemical dosing

• Routinely check and maintain the sites as needed, weekly at each site

• Calcium nitrate storage tanks are filled monthly, depending on usage
## Odor Control Locations

<table>
<thead>
<tr>
<th>Site</th>
<th>Location</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-24</td>
<td>4340 Highland Rd., Minnetrista</td>
<td>Existing</td>
</tr>
<tr>
<td>L-27</td>
<td>402 Hiawatha Ave., Hopkins</td>
<td>Existing</td>
</tr>
<tr>
<td>L-38</td>
<td>6270 Westedge Blvd., Mound</td>
<td>Existing</td>
</tr>
<tr>
<td>L-42</td>
<td>2440 Porter Ave., Anoka</td>
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<td>896 Old Crystal Bay Rd. S., Orono</td>
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<td>Planning</td>
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<td>L-68</td>
<td>498 Maine St. S., Bayport</td>
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<td>L-70</td>
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<td>Existing</td>
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<tr>
<td>L-71</td>
<td>600 4th St. E., Chaska</td>
<td>Existing</td>
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<tr>
<td>Roseville</td>
<td>Cottontail Park, Roseville</td>
<td>Existing</td>
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<tr>
<td>M-132</td>
<td>France Ave. S. and Lake St. W., St. Louis Park</td>
<td>Existing</td>
</tr>
<tr>
<td>M-224</td>
<td>Cul-de-sac on 83rd Ave. N. near Highway 169, Brooklyn Park</td>
<td>Planning</td>
</tr>
<tr>
<td>M-232</td>
<td>9850 Jefferson Highway N., Brooklyn Park</td>
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## April 8\textsuperscript{th} Meeting - Odor Control Locations

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Lift Station 38

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Lift Station 60

1598 Stoneridge Cir., Long Lake
Lift Station 63

1280 Poplar Ave., Maple Plain
Lift Station 66

6220 125th St. W., Savage

- Odor control in planning
Lift Station 70

9615 Highway 5, Laketown Township
Lift Station 71

600 4th St. E., Chaska
Next Steps

Public Hearing
4/21/2021

Council Contract Authorized
* 7/01/2021

Construction Begin
* 3/01/2022

Construction End
* 7/01/2022

Environment Committee Review
* 6/22/2021

Operations Start
8/01/2022

* - Date Estimated
How to Ask Questions

Computer, Smartphone and Tablet Users:

Use the QA box to type in questions and comments.

Use the raise hand function to be unmuted and speak aloud.

Email your question or comment to info@mcesodorcontrol.org.

Phone Users:

Use *6 to raise hand.
Stay Informed

Share questions and comments

Email: info@mcesodorcontrol.org
Call the Public Comment Line: (651) 286-8462
MetroCouncil.org/sewerconstruction/odorcontrol
Thank you for participating in our Public Information Meeting
BACKUP SITE SLIDES
Lift Station 42

2440 Porter Ave., Anoka
Lift Station 67

1480 South Ferry Rd., Anoka
Lift Station 68

498 Maine St. S., Bayport
Roseville Site

Cottontail Park, Roseville
Meter 132

France Ave. S. and Lake St. W., St. Louis Park
Meter 224

Cul-de-sac on 83rd Ave. N. near Highway 169, Brooklyn Park

- Odor control in planning
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