Welcome to the Hastings Wastewater Treatment Plant Facility Plan Open House

You are muted and your video is disabled upon entry.

Please utilize the chat (between the 'participants' and 'share screen' buttons) to send in comments and questions throughout the meeting. Questions will be answered after the presentation during the Q & A session.

If you experience any technical difficulties, please call or text 651.302.2908 or email comment@hastingswwtp.com

The open house will begin at 6 p.m.
MCES Hastings Wastewater Treatment Plant Facility Plan Open House

Wendy Wulff, Metropolitan Council Member & Environment Committee Vice Chair, Host
Tim O’Donnell, Project Citizen Liaison, Facilitator

Presenters
Rene Heflin, Manager, Wastewater Plant Engineering
Seth Chmelik, Principal Engineer, Project Manager Renewal Project
Heidi Hutter, Principal Engineer, Project Manager Wastewater Treatment Plant
Chad Davison, Principal Engineer, Project Manager Collection System and Roadway Improvements

Open House
December 15, 2021
Open House Objective:
Share information about the Hastings Wastewater Treatment Plant Facility Plan
Open House Agenda

Presentation 30 Min

- Introduction to MCES and the Hastings WWTP
- Relocation Drivers
  - Growth
  - Potential Permit
  - Condition Assessment
- Renewal Project
- New WWTP Site
- Haul Routes
- Outfall Easements
- Lift Station and Conveyance
- Decommissioning Existing WWTP Site
- Program Summary and Next Steps
- How to Engage

Q/A

Rene Heflin
Seth Chmelik
Heidi Hutter
Chad Davison
We serve ~50% of Minnesota’s population

**WHO WE SERVE**
- 7-county Twin Cities Metro Area
- 111 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)
Hastings WWTP Service Area

Long Term Service Area
10M gallons/day long-term planned capacity*
29,000 residents served (in 2040)
*MCES 2040 Water Resources Policy Plan – Post 2040

Existing Service Area
2.3M gallons/day plant capacity
23,000 residents served
Hastings WWTP Overview

- 1952 Constructed
- 1970 MCES Acquired
- 1985 Last Expansion
- Existing Site
  - Major Renewal Challenging
  - Non-Compatibl...
Project Need

The plant needs to expand to serve population growth in the service area.

Additional wastewater treatment is needed to meet future environmental regulations.

Existing facilities that are near end of service life need to be renewed.

The Hastings Wastewater Treatment Plant is projected to exceed its existing capacity of 2.34 million gallons per day of wastewater in 2050 due to growth within the service area.

The MPCA’s 2014 Nutrient Reduction Strategy calls for 45% reduction in nitrogen loads to the Mississippi River by 2040.

A 2020 condition assessment documented need for major investment in the existing facility.
Hastings WWTP
Condition Assessment & Renewal Project

Condition Assessment - $26M to Renew through 2040*

*Does not include cost to expand beyond existing 2.3 MGD capacity.
*Does not include administration, engineering, contingency, or inflation.
*Status quo renewal.

Renewal Project Scope

• Plant Outfall
• Aeration Tanks
• Mechanical HVAC
• Security for new plant site

Objectives/Goals

• Maintain reliability
• Preserve assets
• Improve operational flexibility, efficiency and safety
• Protect environment, health, safety and welfare of customers

Schedule

2020 Design
2024 Construction

$2.5 Million
Renewal Project – Outfall Repair

- The plant outfall is located north of the plant Near 1st Street.
- Repair work will include:
  - Replacement of the outfall pipe,
  - Repair of manhole structure,
  - Replacement of rip-rap over the outfall
- Construction and flow bypass will require the temporary use of the north lane of 1st Street.
- Traffic control will allow for two-way vehicular access on the south lane of 1st Street for the duration of this work.
Projected Growth in the Service Area

- **Existing Plant Capacity**: 2.34 MGD
- **Historical Flow Data**
- **Method 1**: 0.013 mgd/yr, 67 gpd/cap
- **Method 2**: 0.025 mgd/yr, 1.6%/year
- **Sewered Population Projection**: City of Hastings, 277 cap/yr
Minnesota Nutrient Reduction Strategy

• 45% Reduction in Nitrogen Loads to the Mississippi by 2040

• Load Reductions at Wastewater Treatment Plants will be necessary

• Hastings area is prioritized by the MPCA for future nutrient reduction

• Plant expansion at the current Hastings WWTP would be required
  – Expansion is challenging and limited.
  – Derating capacity is not an option for MCES.
WWTP Proposed Haul Route

- Estimated 3 to 4 truck trips per day, hauling sludge to the Metro WWTP for processing
- We propose crossing County Road 54/Ravenna Trail. No turn lanes are planned at this time.
Lift Station Preliminary Layout

Similar size and configuration of lift station expected.
Forcemain Alignment

- Tyler Street full reconstruction
- Met Council will fund the repair or replacement of any City utilities impacted by the forcemain installation
- Opportunity for a cooperative construction project. We would need to negotiate an agreement for any improvements the City would want included
Gravity Alignment
Treated Water Discharge Alignment
Discharge Alignment Existing Easements
Decommissioning Plan

• Concept to be used as a starting point for our intergovernmental agreement negotiations.

• South half of property shows removal of structures to bottom of footings.

• North half shows partial removal to 6 feet below ground elevation.
Program Summary & Next Steps

Facility Plan Schedule

- Facility Plan Development: Nov. 2020
- Open House: Dec. 15, 2021
- Public Hearing: Jan. 5, 2022
- Final Facility Plan: Mar. 2022

Project Schedule

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- Wastewater Treatment Plant and Outfall
- Lift Station and Conveyance System Schedule
- Decommission Existing Facilities

Map:
- Existing Plant
- Lift Station
- Effluent Discharge to River
- Metropolitan Council Property
- Forcemain Alignment
- Gravity Alignment
- Future Plant Site
How to participate in Q&A:

**Computer, Smartphone and Tablet Users:**

- Use the "Chat" box to type in questions and comments
- Select the reactions button to use the raise hand function to be unmuted and speak aloud
- Email your question or comment to comment@hastingswwtp.com

**Phone Users:**

- Call or text (651) 302 - 2908
Stay Informed

Share questions and comments

Email: comment@hastingswwtp.com

Call the Project Hotline: (651) 302 - 2908

Learn more about the project and review materials related to the January 5th Public Hearing

MetroCouncil.org/HastingsWWTPProject
Thank you for joining us for this open house!