



# OMID-Only Projects Status and Planning

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*GLWA Capital Planning Committee*

*February 20, 2019*

*10:00 a.m. – 12:00 p.m.*



# Agenda

- 💧 Future Full Scale Rehabilitation Projects
- 💧 Interim Projects, Past and Present
- 💧 Questions



# Future Full-Scale Rehabilitation Projects

## Two Large Rehabilitation Projects in FY2020 – FY2024 CIP

### 1. Northeast Sewage Pumping Station (NESPS) Electrical System Improvements and Pump Replacement Project (232003)

- Goal to rehabilitate the electrical and pumping systems of the station
- Identified in the CIP as starting this fiscal year with completion in FY2023
- OMIDDD has initiated the study phase, expected completion of this phase April 2019
- Phased approach planned for construction. Will mitigate risk at each phase
  - ✓ First Phase: Replacement of the electrical system. This includes a new building to house a new electrical system as the existing system must remain operational during construction.
  - ✓ Subsequent Phases: Replacement of pumps, one at a time, to provide necessary pumping capacity. As each pump is replaced the efficiency and reliability of the station will be improved.
  - ✓ OMID anticipates all phases of the project to be complete by June of 2022

# Future Full-Scale Rehabilitation Projects

## Two Large Rehabilitation Projects in FY2020 – FY2024 CIP (continued)

### 2. North Interceptor East Arm Pipe Rehabilitation Project (222003)

- ✓ Inspection in 2015 identified the need for a variety of work to be completed in the first seven miles downstream of the NESPS
- ✓ The first 100 feet was rehabilitated immediately
- ✓ The remaining rehabilitation work is planned to be undertaken in two phases.
  - a) First phase - next 1,500 feet
    - Design already initiated by OMIDDD
    - Bids expected in September 2019
    - Completion expected in September of 2021
  - b) Remainder of the seven miles
    - Start of construction anticipated in October of 2019
    - Completion expected in October of 2022

# Interim Projects - Past and Present

## Four Interim or Sub-Projects

### 1. Hydrogen Sulfide Related Rehabilitation of the Gate House

- Rehabilitation of a structure immediately downstream of the NESPS
- Completed

### 2. Hydrogen Sulfide Rehabilitation of the First 100 Feet of the NIEA

- Sewer inspection in 2015
- First 100 feet of the NIEA had experienced significant corrosion due to hydrogen sulfide exposure and warranted immediate repair
- Rehabilitation accomplished by installing a liner
- The condition of the remaining pipe was determined to be such that it could reasonably be accomplished within the work scope of the larger NIEA rehabilitation project without significant risk

# Interim Projects - Past and Present

## Four Interim or Sub-Projects (continued)

### 3. *Pump Station Heating, Ventilation, and Air condition System Replacement Project and Odor/Corrosion Control Project*

- Air quality improvement project to address the ongoing hydrogen sulfide corrosion
- H<sub>2</sub>S affects various elements of the NESPS and the pipe downstream in the NIEA
- Precursor to the larger rehabilitation project as it will provide improved air quality which ensures that the new equipment that will be installed in the larger projects will not prematurely degrade due to a corrosive atmosphere.
- OMIDDD is currently in the design phase
- Expected to receive bids for construction in April 2019
- Construction is anticipated to be complete in September of 2020

# Interim Projects - Past and Present

## Four Interim or Sub-Projects (continued)

### 3. *Pump Station Electrical Contingency Plan*

- Station's electrical system is approaching the end of its useful life
- Multiple pumps exist for capacity and redundancy
- Station has two sources of power and an emergency generator
- Despite pumping and power source redundancy, the station's electrical system is key to operations
- OMIDDD is currently developing an emergency contingency plan to address any disruption in operations due to an electrical system failure
- Contingency plan expected to be in place by April 2019
- A firm contingency plan in place for this key component mitigates risk prior to completion of the larger pump station rehabilitation project

Questions,  
Comments,  
Discussion





**GLWA**

*Great Lakes Water Authority*

**Have a Great Day!**