FORMER ZEPHYR OIL REFINERY GREAT LAKES LEGACY ACT

WETLAND SEDIMENT CLEANUP AND HABITAT RESTORATION

MUSKEGON, MICHIGAN









Funded by the U.S. Environmental Protection Agency Great Lakes National Program Office and the Michigan Department of Environmental Quality

www.epa.gov/muskegon-lake-aoc www.greatlakesmud.org

Contractor:



Engineer:



Subcontractors:





Contractor Project Team





- Infrastructure
 - Haul Roads
 - Process Pads
 - Cofferdam
- Dewatering / Water Treatment
- Shoring
- Excavation
- Stabilization
- Transport & Disposal
- Backfill

- Work Plans
- Permitting
- Air Monitoring
- Soil / Sediment Sampling



- Restoration
- Plantings
- Maintenance



2017 Work Completed

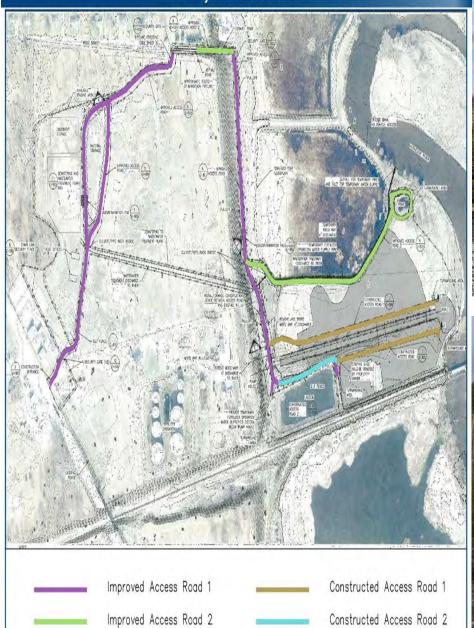
(July – November)

- Preconstruction Submittals
- Local Permits
- Survey
- Base Line Air Monitoring
- Haul Roads
- Process Pads
- Cofferdams



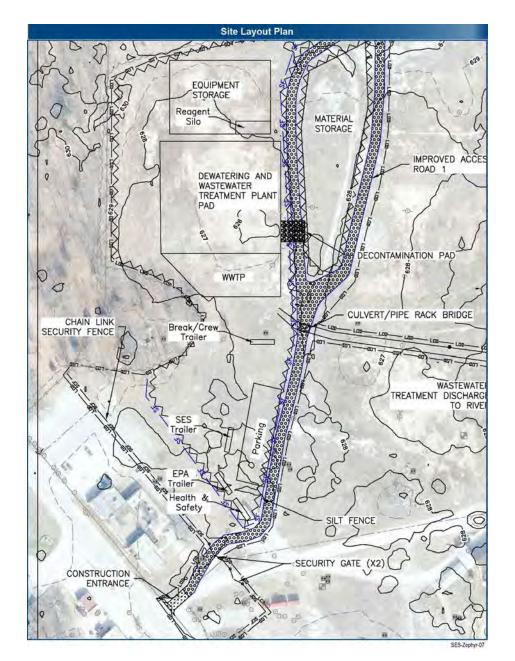


Site Layout – Access Roads













Cofferdam Install

Steel Sheet Pile Segment



Earthen Berm Segment







2018 Work Schedule

(March – October)

- Install Temporary WWTS
- Dewater & Water Treatment
- Install Ditch Shoring
- Excavate Sediments
- Stabilize Sediment
- Load & Transport Sediment
- Backfill
- Restoration





Water Treatment















Steel Sheeting System

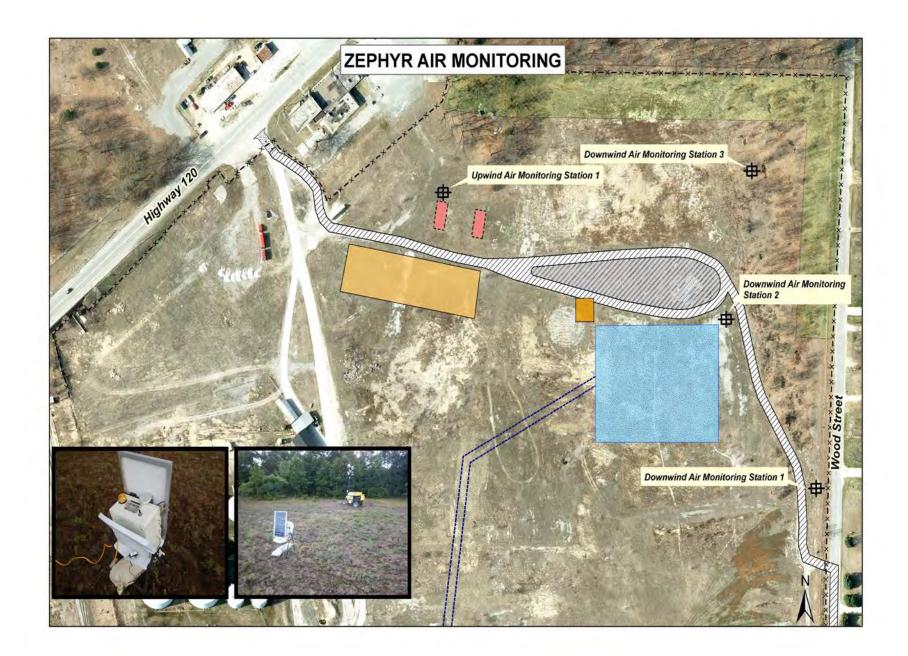












Sediment Excavation









Solidification / Stabilization







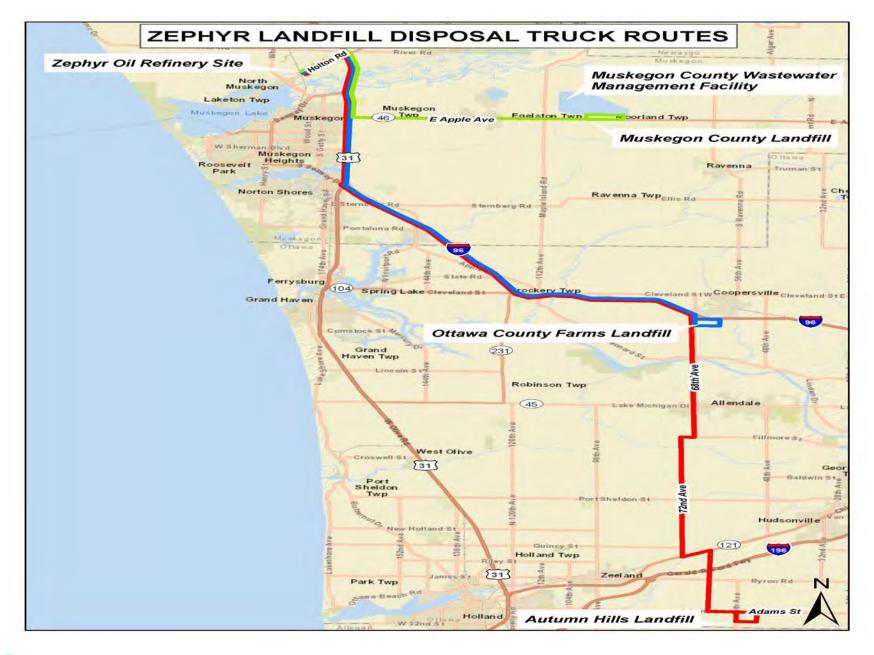


Load and Transport Sediment













Backfill











Restoration













ZEPHYR PROJECT HOTLINE

(231) 221-0299

March 15, 2018



