

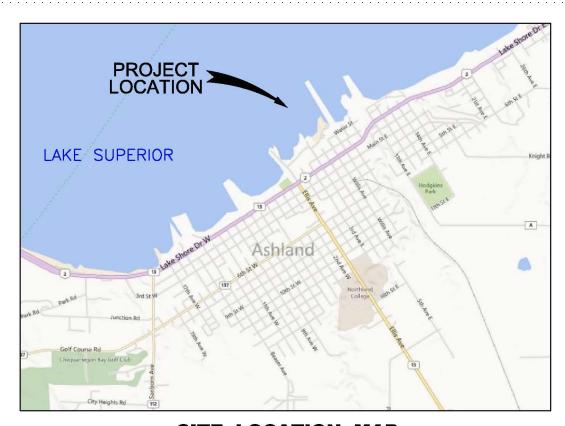
2019 Annual Meeting

Ashland Superfund Site

Brian Hinrichs, Client Team Leader
Foth Infrastructure & Environment



Site Location





SITE LOCATION MAP



Project Team

LATHAM & WATKINS LLP



Baird.





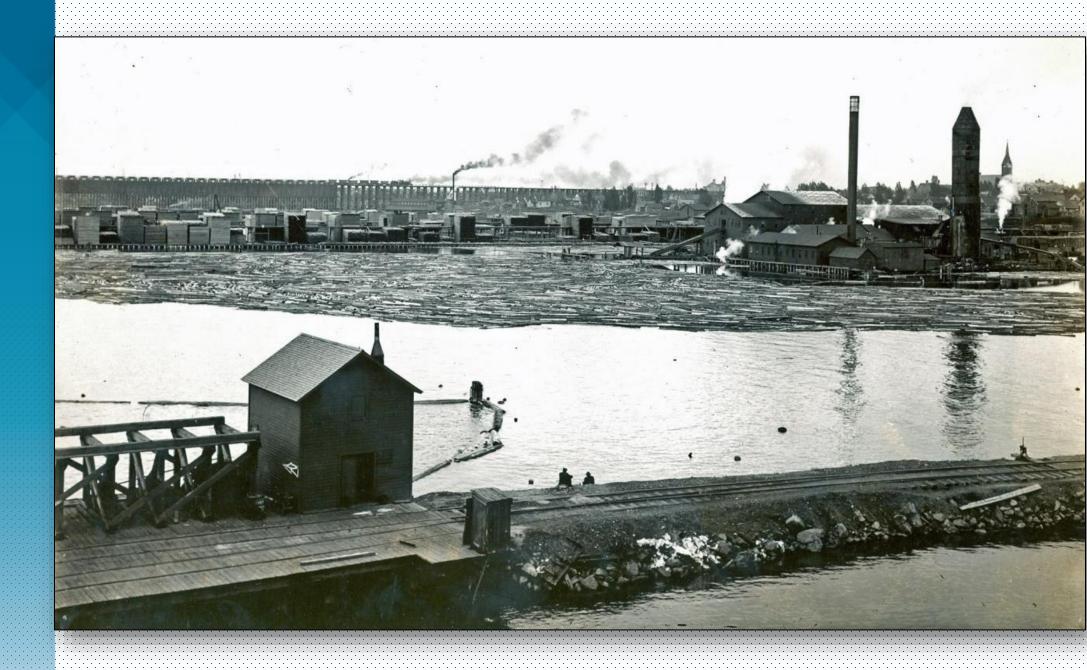




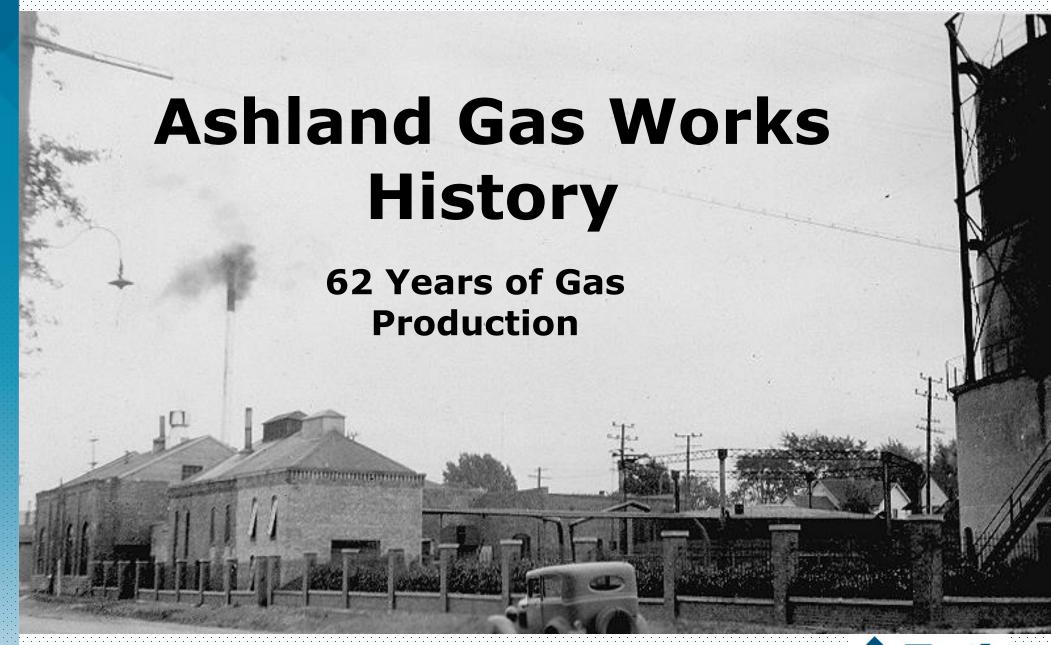












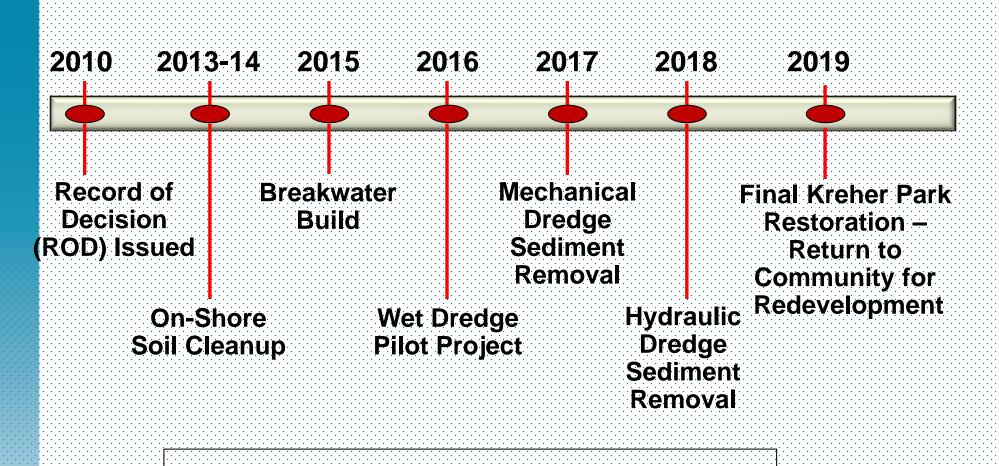


Superfund Project

- Superfund Program started 1980
- Ashland Superfund Record of Decision (ROD) issued September, 2010.
- The ROD explained which cleanup alternatives to be used at the site.



Project Timeline



Project Cost

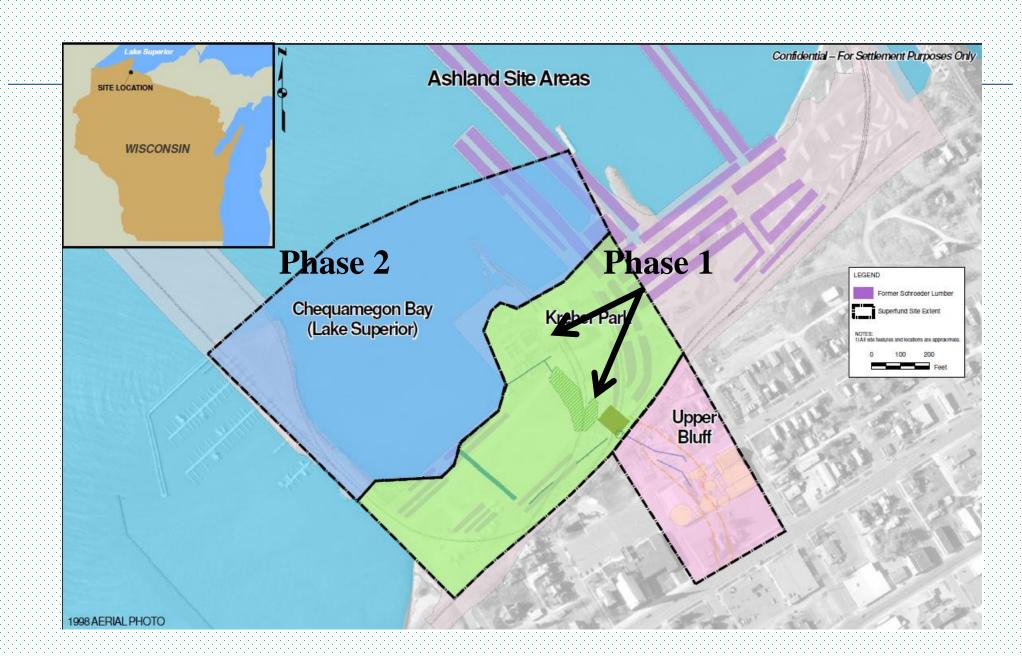


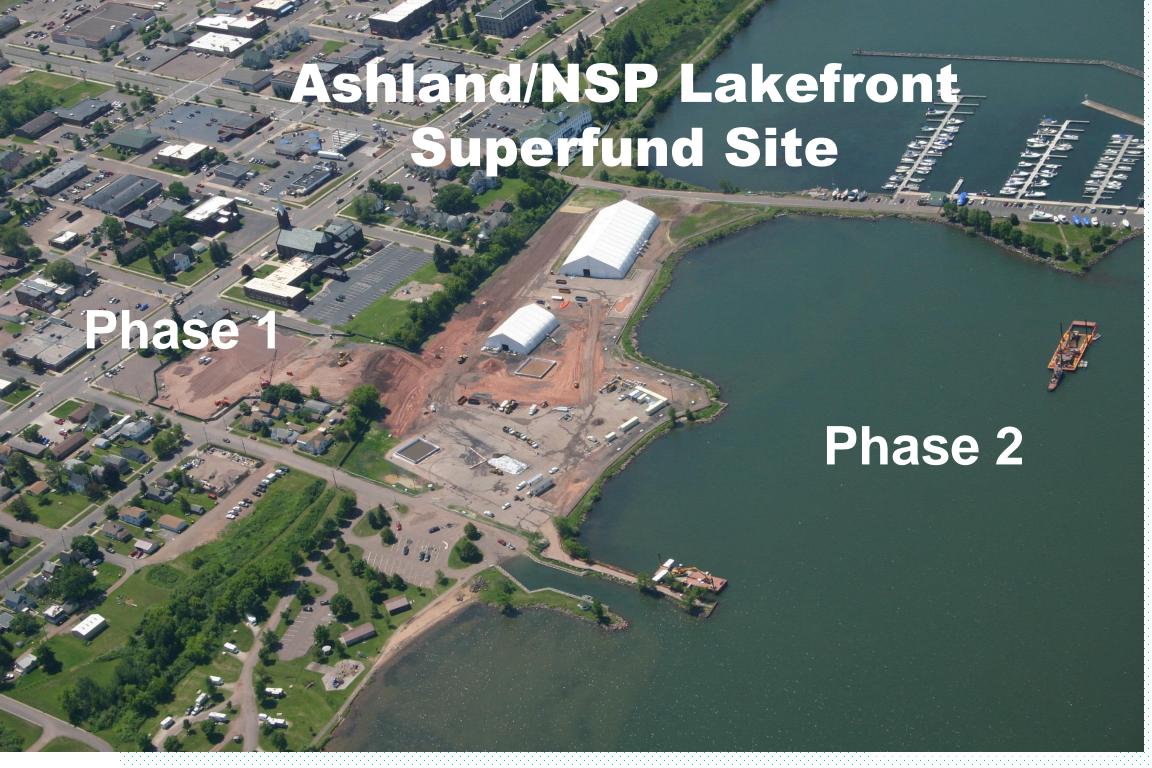
Summary of Work

- Design/Build Project
 - Building Demolitions, Slurry Wall,
 - Bulkhead Wall,
 - Soil Excavation, Soil Treatment
 - Groundwater Extraction
 - Water Treatment Plant
 - Contaminated Sediment Cleanup



Multi-Year - Two Phases





Phase 1 Source Control



Soil Excavation and Treatment







Phase 2 Breakwater

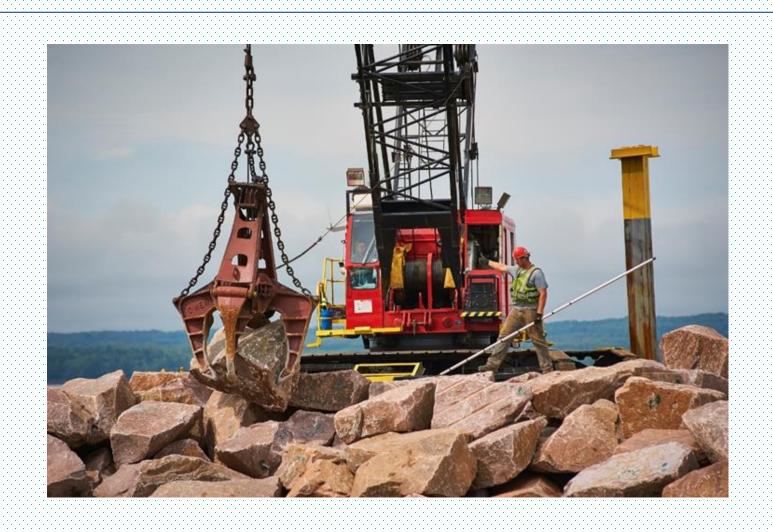
Primary Purpose

- Wave Barrier for 2016 Pilot Project
- Full-Scale Sediment Remedy Benefits
- Community Benefits



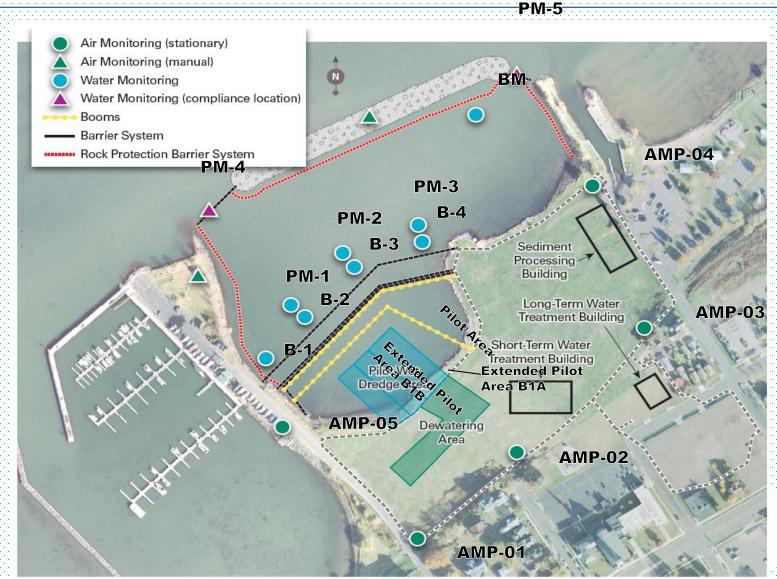


Breakwater Construction





Phase 2 Pilot Project



Envirocon

Pilot Project Work

- 40,000 square foot Pilot Study Dredge Area
- 8,000 cubic yards Removed
- 520 Truckloads to Sub-Title D Landfill
- 4 million gallons Water Treated



Pilot Project Successful! Move to Full Scale Phase 2 Dredging



Extensive Monitoring











Water Quality Results

- Over 10,000 samples analyzed
- >99.9% meet water quality standards





Enhanced Technologies

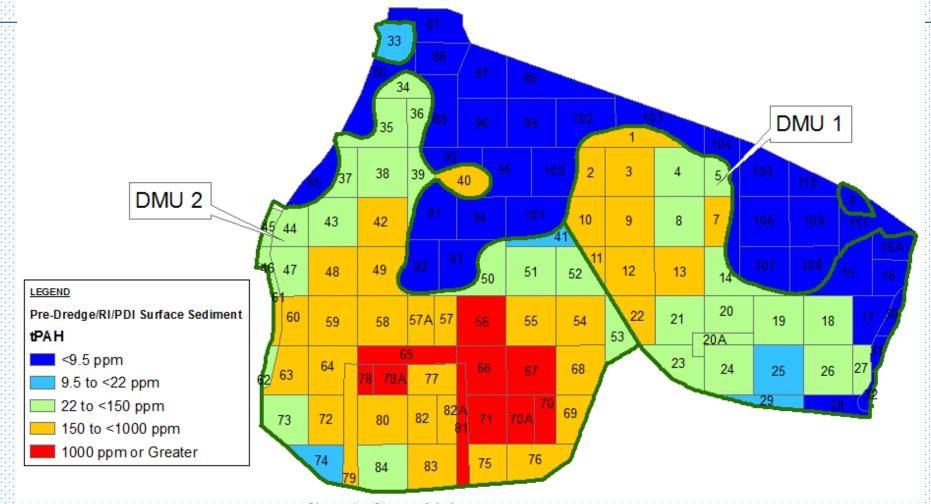


Multiple Barrier Curtain
System
to contain work area
impacts and protect Lake
Superior

Vapor Phase Odor Control System



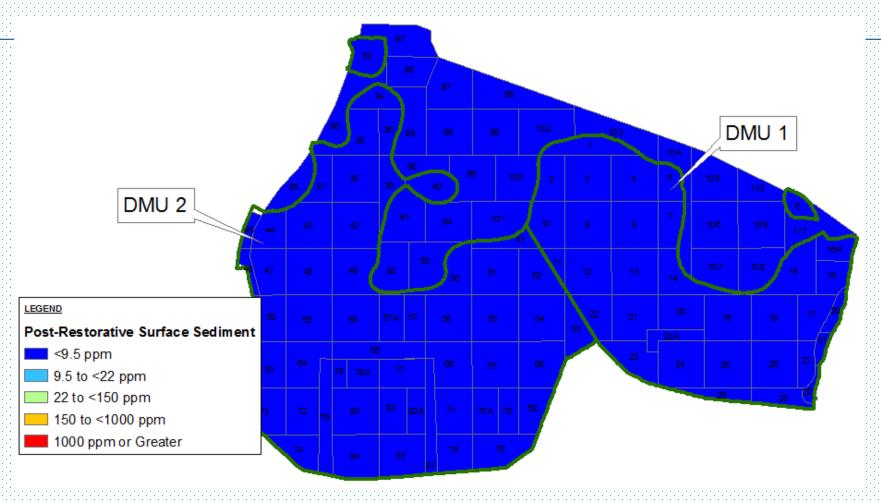
Sediment Pre-Project



SWAC = 409 ppm



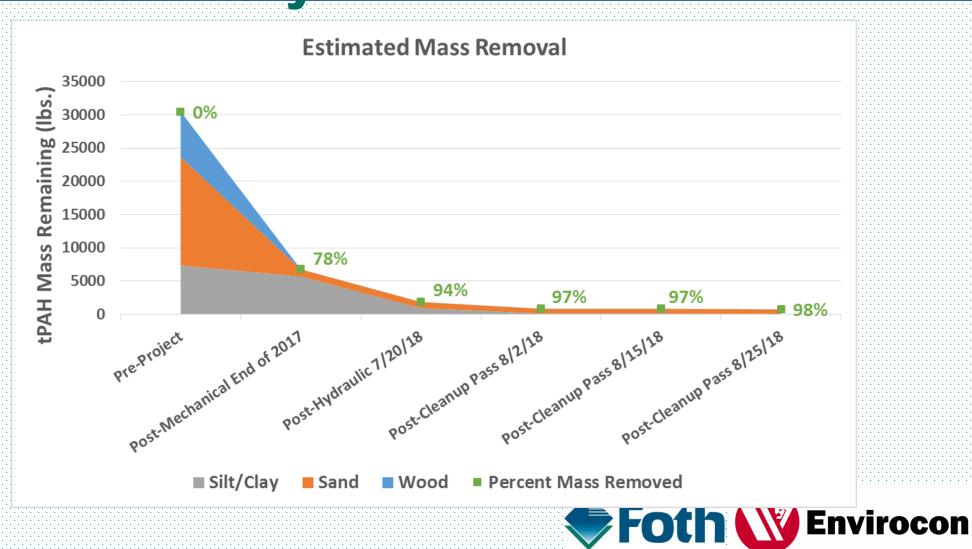
Sediment Post Dredging



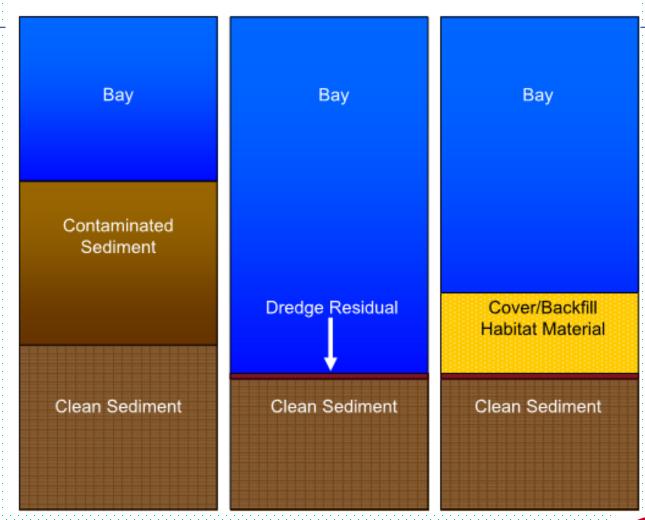
Meeting SWAC Performance Standard



tPAH Mass Removal Summary



Restorative Layer





Ashland Kreher Park

- draft conceptual plan





