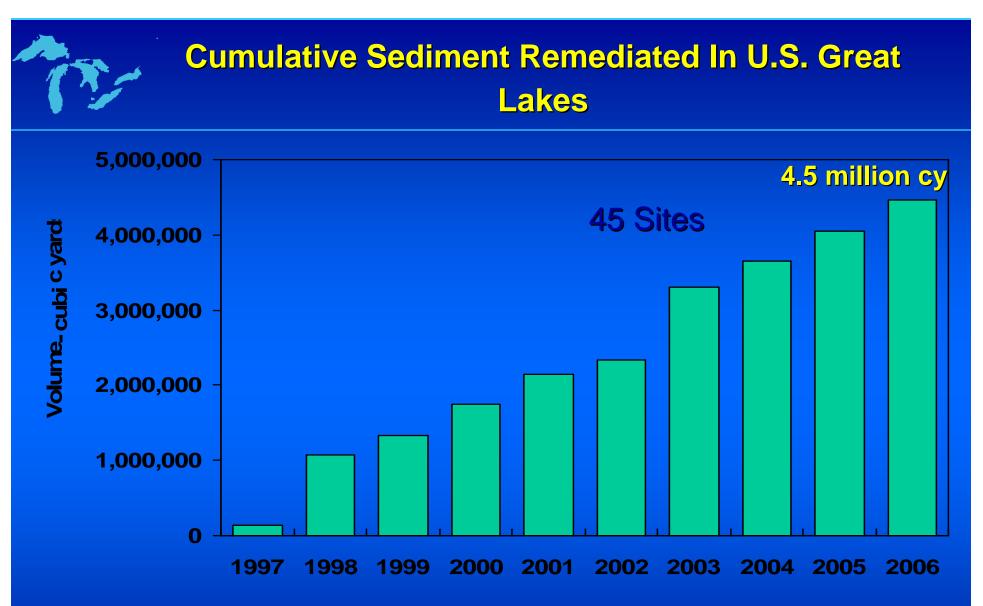
Great Lakes Legacy Act

Marc Tuchman U.S. EPA Great Lakes National Program Office



Great Lakes National Program Office





Recent Estimates provided by Great Lakes States:

- •~ 75 Sites to be remediated
- •~46,000,000 cubic yards



Great Lakes Legacy Act...a new "tool" in the Great Lakes sediment remediation toolbox

⇒Goal: Accelerate the pace of sediment remediation at Areas of Concern (AOCs)

Use partnerships as an innovative approach to conducting sediment remediation

⇒ Program administered by the U.S. Environmental Protection Agency Great Lakes National Program Office « (GLNPO)

GLLA Authorization and Appropriation

- The Great Lakes Legacy Act yearly authorization (FY2004 through FY2008):
 - \$50M contaminated sediment "projects"
 - \$3M research/development of innovative technologies
 - \$1M public information contaminated sediment remediation

\$10 M appropriated in FY2004 \$22 M in FY2005 \$29 M in FY2006 \$30 M in FY2007 \$35 M in FY2008 \$35 M in FY2009 (proposed)



GLLA Project Types

Must be in U.S. Areas of Concern (AOCs) and: 1) Implement a plan to remediate contaminated sediment (highest priority) 2) Monitor or evaluate contaminated sediment **Prevent further or renewed sediment** contamination

Cost-Sharing

Non-Federal Cost Share Must be at Least 35% of Total Project Costs, and:

- May include in-kind services contributed by a non-federal sponsor,
- May include monies and in-kind services under an administrative order on consent or judicial consent decree,
- May NOT include any funds pursuant to a unilateral administrative order or court order.



Projects Completed ✓ Black Lagoon - Trenton MI ✓ Hog Island Inlet & Newton Creek - Superior WI ✓ Ruddiman Creek & Pond – Muskegon MI ✓ St. Marys River – Tannery Bay – Sault Ste Marie MI Projects underway ⇒Ashtabula River - Ashtabula OH

GLLA Non-Remediation Projects

Projects Completed

- Trenton Channel- Riverview Detroit River MI (RI/FS)
- St. Louis River Superior WI (assessment)

Projects underway

- Grand Calumet River Hammond IN (RD)
- Kinnickinnic River Milwaukee WI (FS/RD)
- Buffalo River Buffalo NY (RI/FS)
- Division Street Outfall Muskegon, MI (FS)



GLLA Implementation Rule

Guidelines for Selection and Funding of Projects (May 1, 2006)

Purpose of rule is to "outline the process for identification, evaluation, and selection of projects for funding under the GLLA."

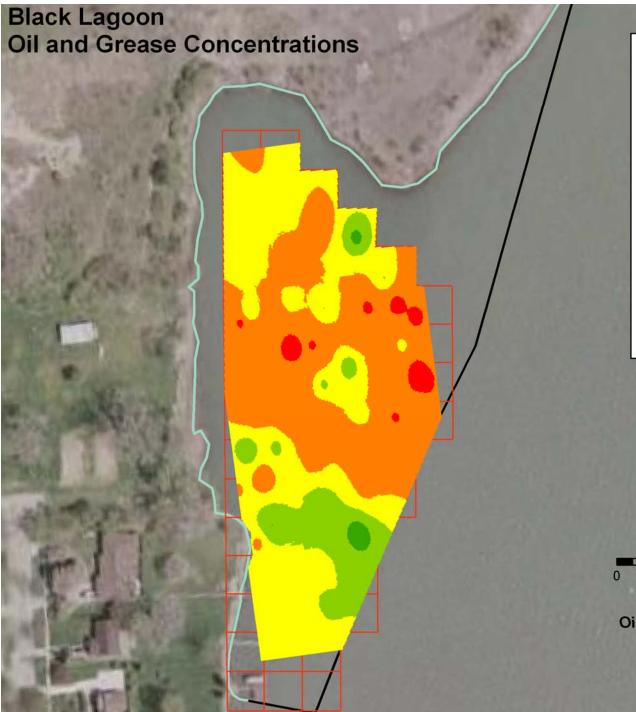
GLLA Implementation Rule

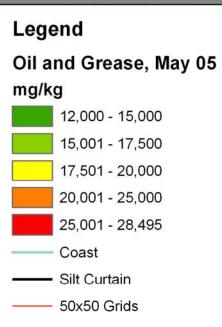
Key components: Transparency Standardized Selection Criteria Nexus with Regulatory Programs GLLA will not fund ROD/Settlement Agreement GLLA can fund betterment (e.g., Tannery **Bay**)

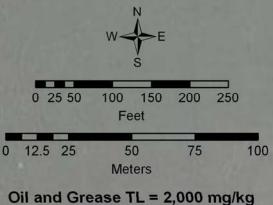


Volume:	116,000 cubic yards
Cost :	\$8,700,000
Partner:	MI Dept. of Environmental Quality (35% cost)
Disposal:	Pointe Mouillee CDF

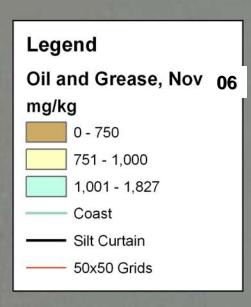


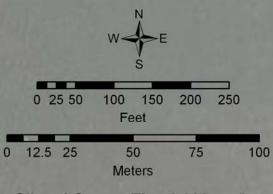


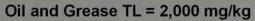


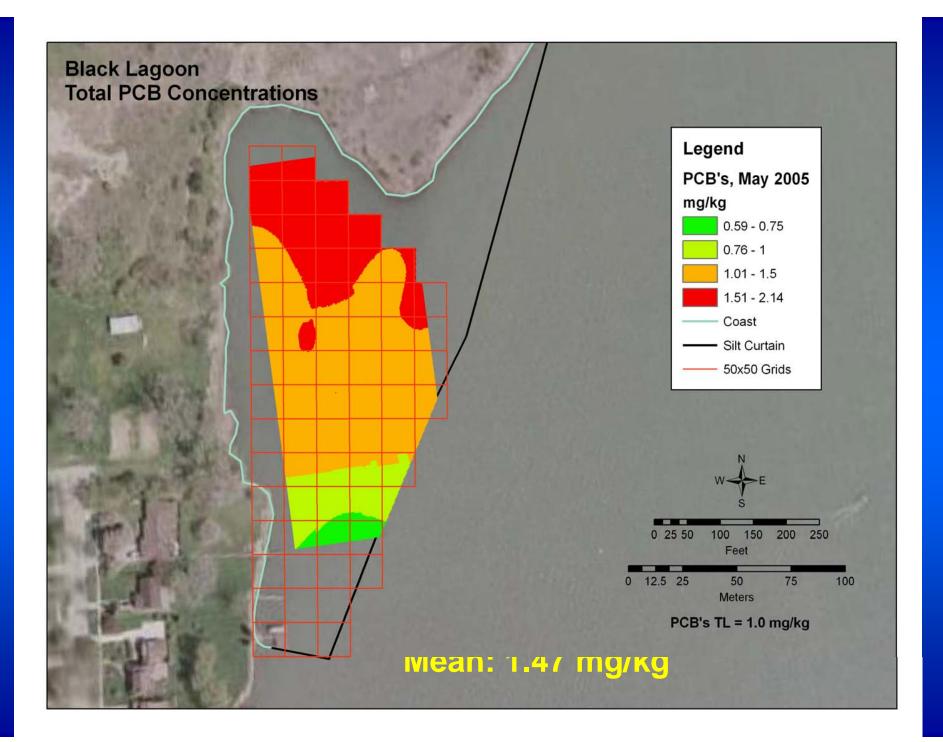


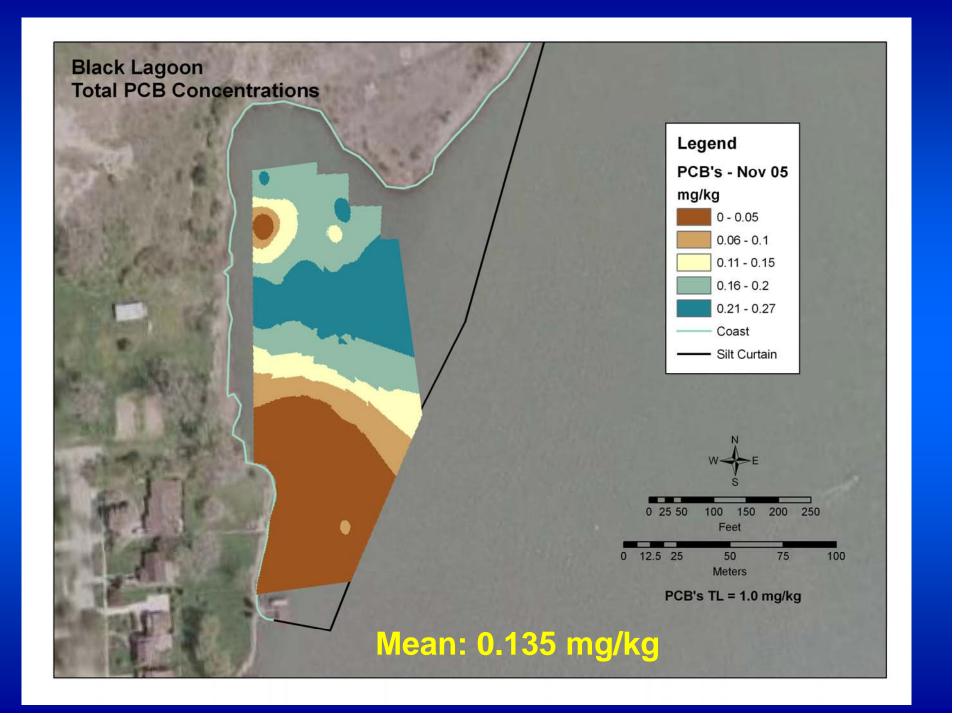
Black Lagoon Oil and Grease Concentrations

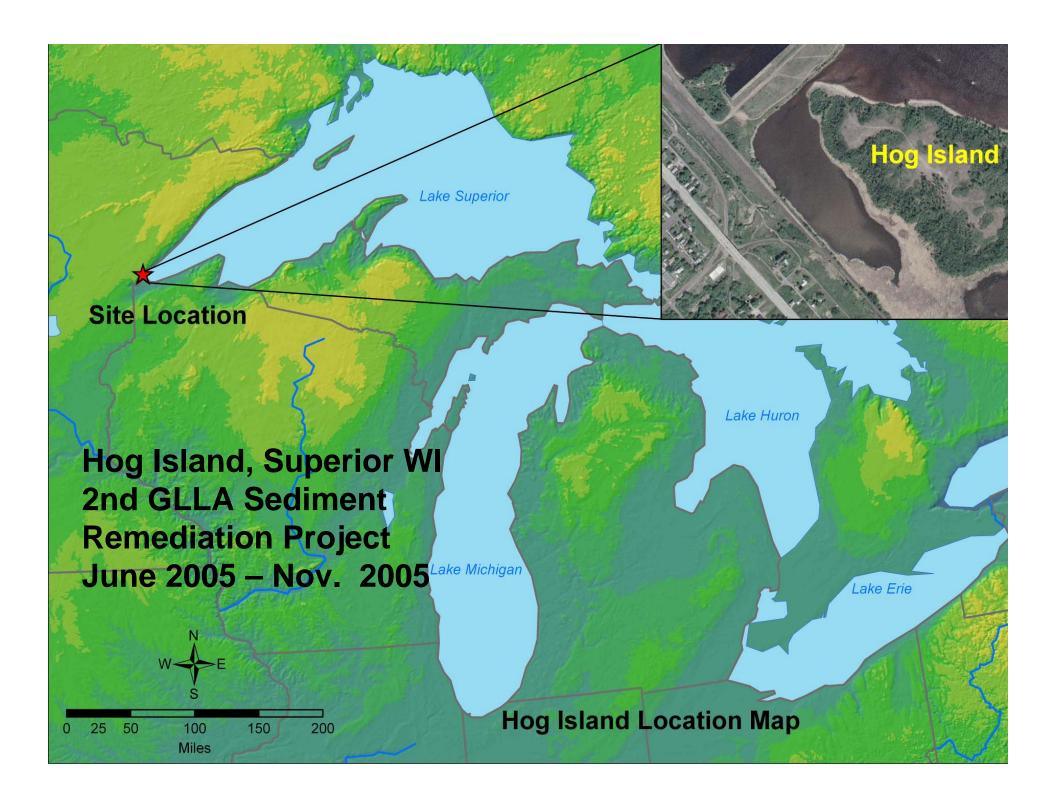












•46,000 cubic yards of petroleumcontaminated sediment removed from Newton Creek and Hog Island Inlet to Moccasin Mike Landfill

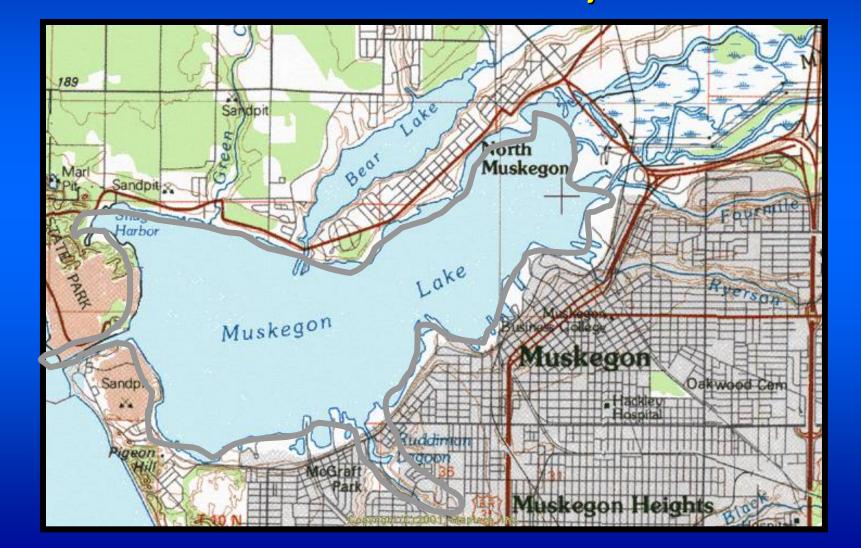
Hog Island - Superior WI

- \$5.3 million
 - NFS-WDNR (35%)
- Removed 500 lb of PAHs and 7,000 lb of Lead
 Site is an important and rare coastal habitat

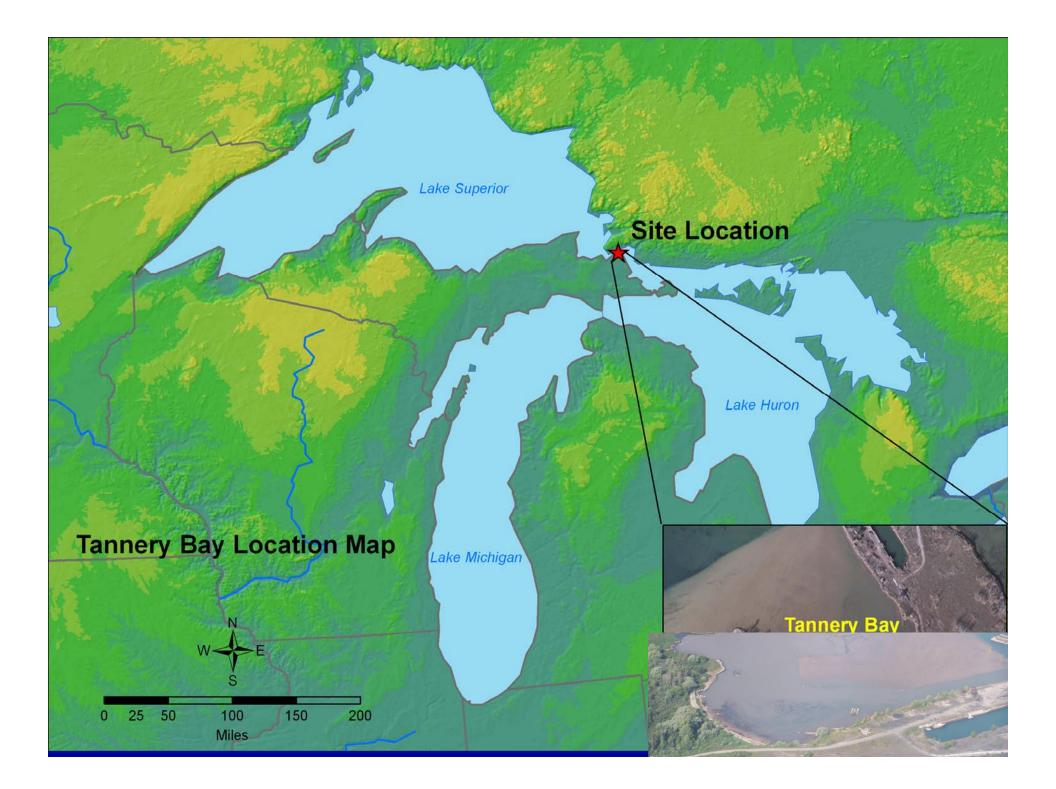
Restoration Blueprint complete and community has begun implementing the plan



Ruddiman Creek and Pond Muskegon Lake AOC 3rd GLLA Remediation Project



Ruddiman Creek and Pond Muskegon Lake Area of Concern (AOC) • Total cost: \$14.2 M Non federal partner: MI DEQ (35% CMI) • 90,000+ cubic yards removed Several mechanical dredging strategies used

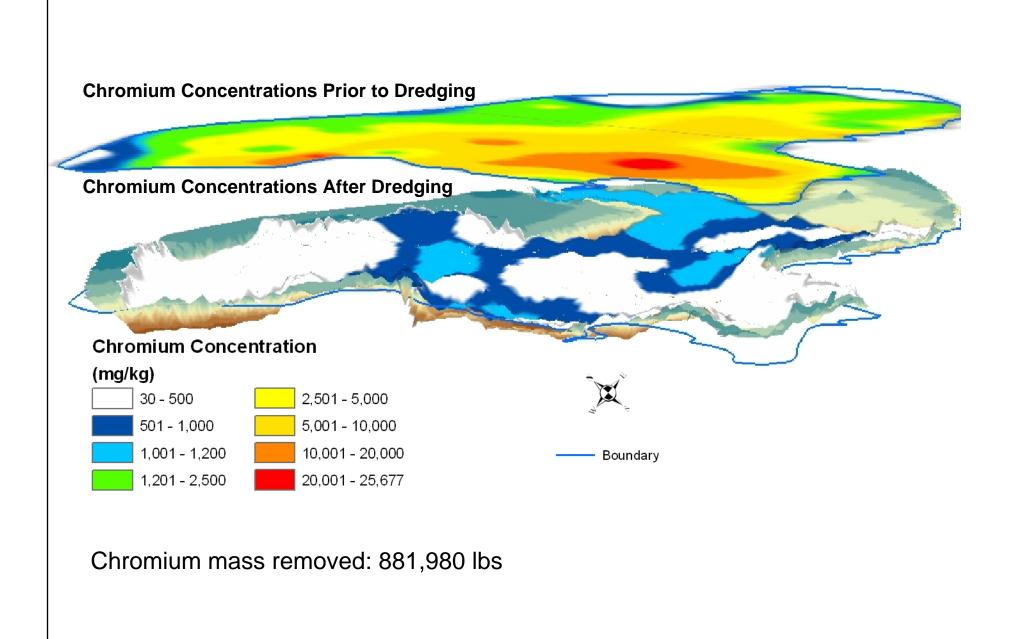


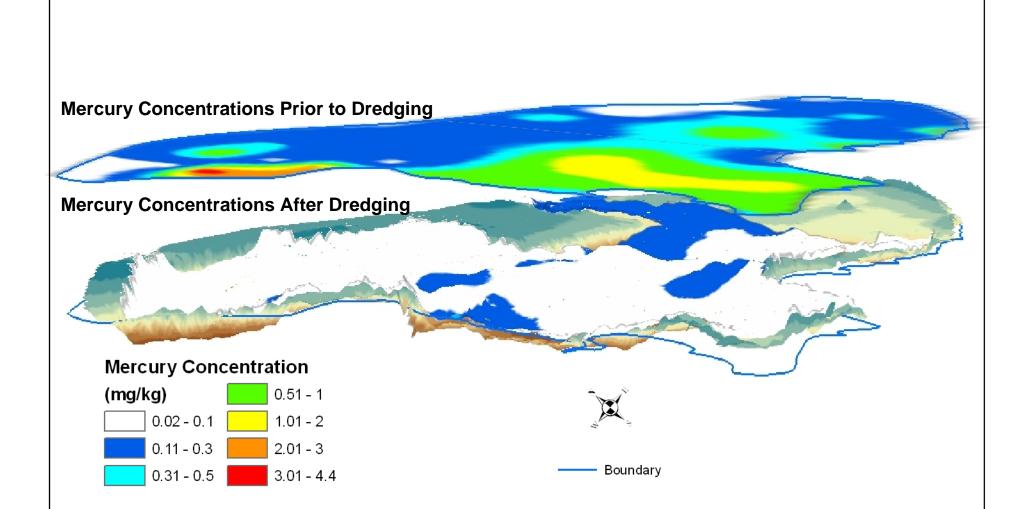
Tannery Bay, Sault Ste. Marie, MI

Total cost: \$8M •GLLA (60%) •Phelps Dodge Corp. •Michigan DEQ (\$600,000 - CMI funds) •Category 3: Betterment



44,000 cubic yards1,000,000 lb Chromium70 lb Mercury





Mercury mass removed: 72 lbs

GLLA Program Successes

- New mechanism to remediate contaminated sites
- GLLA cost sharing has created new partnerships and strong collaborations that result in better projects
- GLLA has funded \$54 M in cleanup projects and leveraged \$44 M in non-federal funding
- 820,000 cubic yards remediated
- R2R Remediation to Restoration is underway