



US Army Corps  
of Engineers ®

**PROJECT INFORMATION SHEET**  
**February 2011**

**PROJECT:** Thunder Bay Reef Restoration, Alpena, Michigan - (C)

**DESCRIPTION:** The proposed project is located in Thunder Bay on the western shore of Lake Huron adjacent to the City of Alpena, Alpena County, MI. Cement kiln dust waste (CKD), a by-product of cement production, was historically stockpiled on the adjacent shoreline and disposed of on the bottomlands of Lake Huron beginning in the 1950s. It is estimated that the CKD pile has altered approximately 80 acres of shoreline and lake bottom including areas of reef. Removal of the submerged CKD is not an option because the material appears to have partially hardened into a contiguous mass, the removal costs are prohibitive, and there is concern about resuspension of some of the material. The plan for restoration is to add cobble/rubble material on top of and/or adjacent to the impacted area to duplicate natural reef conditions.

**CONGRESSIONAL INTEREST:** Benishek (MI-1); Senator Levin (MI), Senator Stabenow (MI)

**LOCATION MAP & PICTURE:**



**NON-FEDERAL PROJECT SPONSOR:** Michigan Department of Environmental Quality (potential)

**PROJECT AUTHORITY:** Estuary Restoration Act of 2000, Title I of PL 106-457 of the Estuaries and Clean Waters Act of 2000

**FUNDING:**

	<u>Total</u>	<u>Federal</u>	<u>Non-Federal</u>
Current Working Estimate:	\$ 967,480	\$ 517,000	\$ 450,480
Funds Allocated prior to FY11:	\$ 50,000	\$ 50,000	\$ 0
FY11 Energy and Water Allocation:	\$	\$	\$
FY11 GLRI Allocation:	\$	\$	\$
FY12 Budget:	\$	\$	\$
Funds required to complete (>FY12):	\$ 918,000	\$ 467,000	\$ 451,000

**STAGE:** Feasibility

**STATUS:** The project is currently just beginning for the Corps, but non-Federal interests have well developed plans. With funding, project construction could begin in 2011. The non-Federal sponsor has funding in place, and the Corps is now drafting the cooperative agreement. The design is 75% complete and will likely proceed to contracting within the next few months.

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