



**US Army Corps
of Engineers**®
Detroit District

HARBOR INFRASTRUCTURE INVENTORIES

Manistique Harbor, Michigan



Harbor Location: Manistique Harbor is located on the north shore of Lake Michigan, and approximately 90 miles west of Saint Ignace, MI.

Authority: River & Harbor Acts of 3 Mar 1905, 2 Mar 1907, 17 May 1950.

Project Description: Manistique Harbor is a deep draft commercial harbor with nearly 3,000 feet of breakwater and pier structures and approximately 4,000 feet of maintained channel.

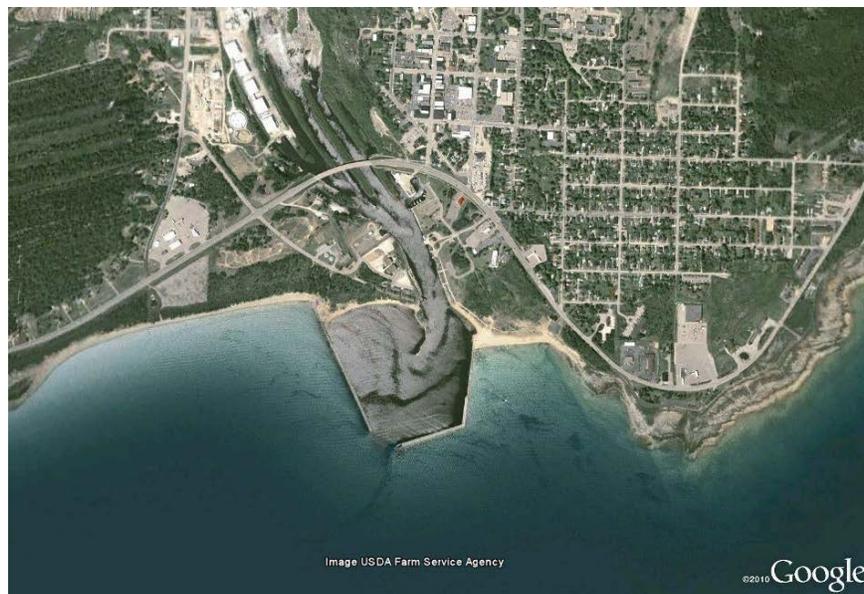
Traffic: 1,047 tons (5-Year average, 2006-2010)

Transportation Importance: This project serves as an important Harbor of Refuge and supports charter fishing and recreational navigation interests. The harbor further supports two commercial fishing companies and a tug-barge company providing gasoline, diesel and home heating fuels to Beaver Island. The harbor generates revenue locally and regionally from both commercial and public marine infrastructure located within the navigational channel. The harbor is the only vessel launching facility within an eighty mile radius on the northern Lake Michigan/Upper Peninsula shoreline capable of launching law enforcement and search and rescue vessels.

Congressional Interest:

- Representative Dan Benishek R-MI-1
- Senator Carl Levin D-MI
- Senator Debbie Stabenow D-MI

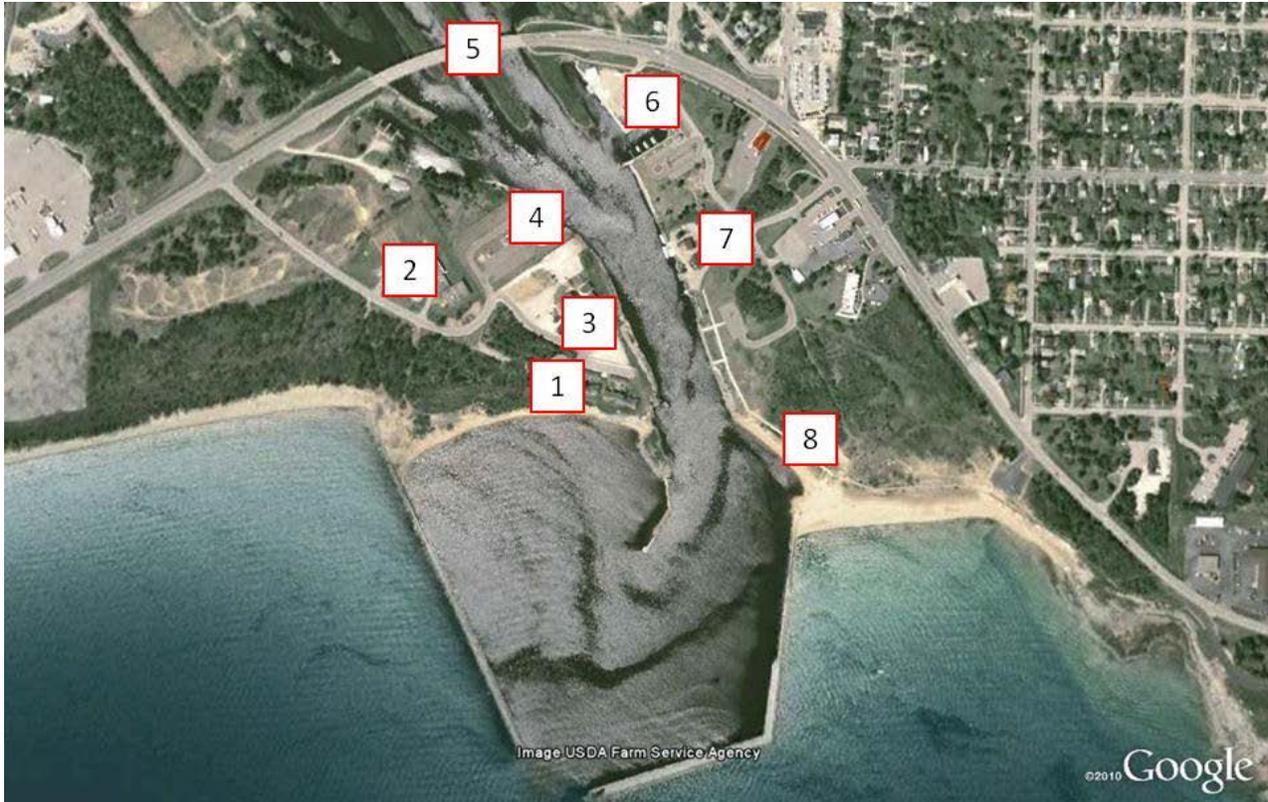
Current Condition Assessment: B



Date of Site Visit: 14 September 2010

Summary of Impact: Prevailing winds come from a westerly direction. The harbor has a history of storm events large enough to overtop the federal breakwaters in the spring and fall. However, even under these conditions the breakwater serves well to slow the momentum of the waves, and significantly reduce the impact on the shoreline. Within the harbor, major structures are also protected from shore erosion with steel sheet pile and rubble mound armament. The municipal harbor also has its own breakwater structure. The majority of the infrastructure is a significant distance from the harbor on a moderately rising gradient, which makes assessing the potential impact difficult. The major area of impact would be the private marinas, condominiums, a small restaurant and store front building, and possibly the city wastewater treatment plant.

Examples of Protected Infrastructure:



1. Residential Buildings: Residential structures located on the north shore of the harbor consist of three condominium complexes.



2. Wastewater Treatment Plant: This facility is protected both by the harbor breakwaters and mature trees between the facility and the waterline. The facility is approximately 30 years old, and is the only treatment facility for Manistique.



3. Waterfront Business: These structures house a restaurant and other various store fronts. The buildings are all 10 to 15 years old. Protection comes from the federal breakwater as well as the distance from the shoreline.



4. Boat Launch: This boat launch facility also has a parking area, picnic area, and restroom facility.



5. Highway Bridge: This bridge is part of the highway US-2 crossing the Manistique River. It is constructed of concrete pilings and steel.



6. Manistique Municipal Marina: The marina is owned and operated by the City of Manistique. There are several seasonal and transient slips, as well as a pier for broadside docking. Facilities include electricity, city water, gas, pump out station, and restrooms and showers. Docks are of a wooden pile construction. Official operating season is from Memorial Day Weekend thru Labor Day, and is unofficially open mid-May to mid-October. The marina also has additional breakwater structures for added protection.



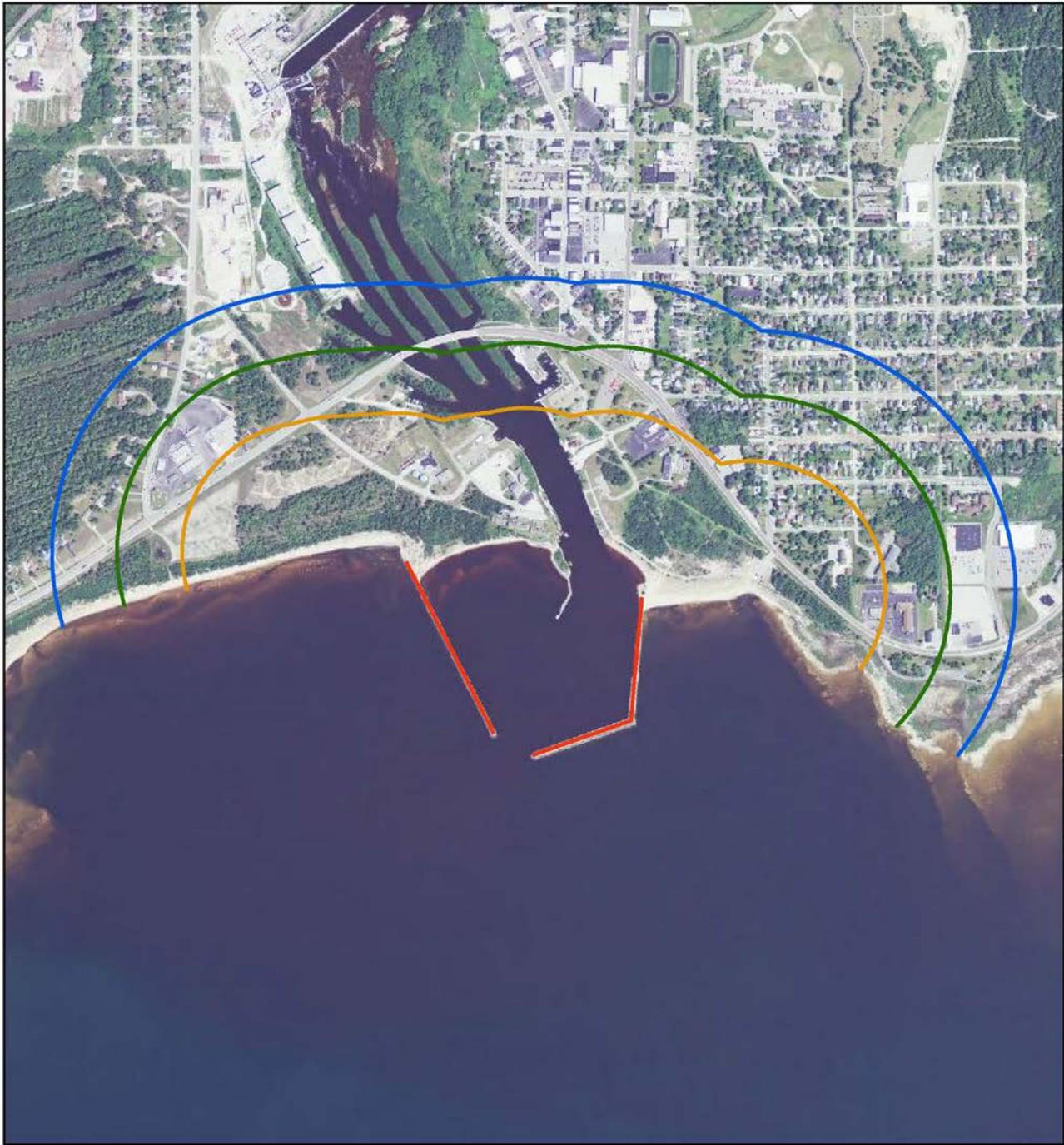
7. Municipal Park: A city owned park, consisting of an open festival area, walkways, picnic tables, restrooms, fishing pier, and a playground.



8. Recreational Path: A paved bike and walking path lie behind the breakwater, although the elevation is sufficient to protect against most storms and wave action.

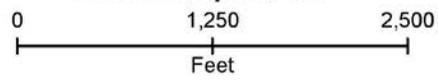


Potential Impact Area: The following graphic displays property parcels that could be impacted within various zones defined by different setbacks from the shoreline behind existing Federal coastal structures. Values are based on real property tax assessments from these parcels, and don't reflect any detailed coastal zone damage assessments. Figures simply reflect property values at various setbacks.



-  Federal Structure
-  Shoreline_1000_ft_buffer
-  Shoreline_1500_ft_buffer
-  Shoreline_2000_ft_buffer

MANISTIQUE HARBOR Manistique, MI



Imagery Source- NAIP 2012

