



US Army Corps  
of Engineers®

## HARBOR INFRASTRUCTURE INVENTORIES Fairport Harbor, OH



**Harbor Location:** Fairport Harbor is located at the mouth of the Grand River on the southern shore of Lake Erie in the city of Fairport, OH, approximately 30 miles east of Cleveland, OH.

**Authority:** River & Harbor Acts of 1825, 1896, 1905, 1919, 1927, 1930, 1935, 1937 and 1946.

**Project Description:** Originally authorized by the River and Harbor Act of 1825, Fairport Harbor is a deep draft commercial harbor. Protective structures consist of east and west laid up stone breakwaters totaling over 2.2 miles in length and east and west Piers with a combined length of 1,079'.

**Traffic:** 1,977,938 tons (5-Year average, 2005-2009).

**Transportation Importance:** Major regional receiving port on the Great Lakes for commodities including limestone, aggregates, ores, and minerals.

### Congressional Interest:

- Representative Steven LaTourette R-OH-14
- Senator Rob Portman R-OH
- Senator Sherrod Brown D-OH

**Current Condition Assessment:** **D**



**Date of Site Visit:** 17 June 2010.

**Summary of Impact:** Prevailing waves come from the west to northeast direction. Failure of either breakwater would cause increased sedimentation of the mouth of the Grand River and heavy wave action propagating up the Grand River. This would lead directly to flooding and damage to all facilities located along the river and would limit operations. Additionally, failure of the West Breakwater would cause erosion of Headlands Dunes State Nature preserve and deposition of eroded sediments into the navigation channels. The Coast Guard stated that the extension of the East breakwater is in an advanced state of decay and provides little protection under northeast winds. The East Breakwater does provide some protection for the station and craft, and failure would cause damage and limit the ability of the Coast Guard Station to carry out their mission.

**Examples of Protected Infrastructure:**



- 1 Headlands Beach State Park
- 2 U.S. Coast Guard Search and Rescue Station Fairport Harbor
- 3 R.W. Sidley, Inc.
- 4 Morton International, Inc.
- 5 Carmeuse Lime
- 6 Osborn Concrete and Stone
- 7 Grand River Marine Co. – Grand River
- 8 Grand River Marine Co. – Fairport
- 9 Osborn Concrete and Stone – Fairport Dock
- 10 Fairport Port Authority Boat Launch Ramp
- 11 Fairport Harbor Lakefront Park

**1. Headlands Beach State Park:** 1 mile long natural sand beach, largest in the state. Home to many plant species typically found only along the Atlantic Coast. Ends at West Breakwater. Headlands Dunes State Nature Preserve is located adjacent to the breakwater.



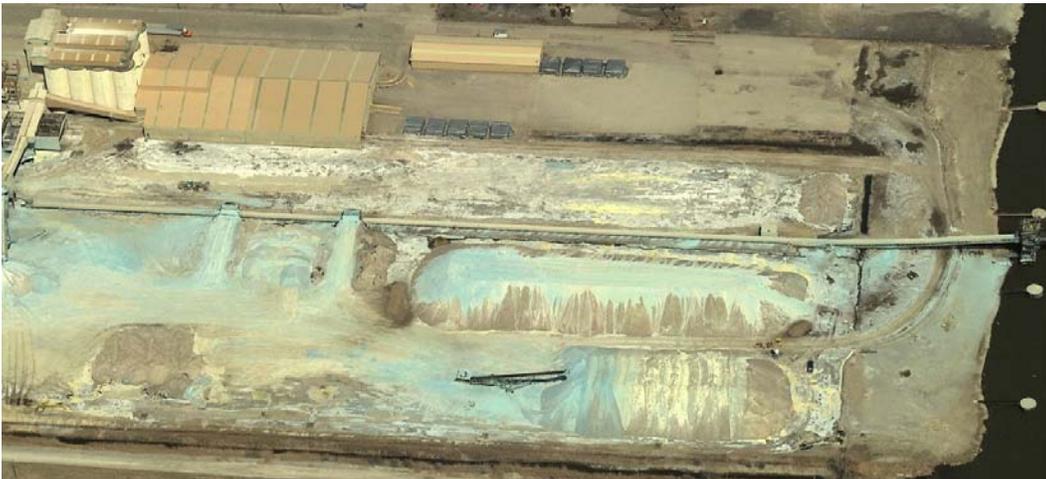
**2. U.S. Coast Guard Search and Rescue Station Fairport Harbor:** Coast Guard Station with area of responsibility extending from Moss Point to Geneva, OH. 2 search and rescue vessels (47' and 25' in length). 2 story station and a detached boat house. Contact states that the eastern section of the East Breakwater is submerged and no longer serves to protect the harbor. The remainder of the East Breakwater and the West Breakwater are functioning well. Breakwater failure and inundation would cause damage to coast guard structures, and would eliminate harbor's use as a harbor of refuge.



**3. R.W. Sidley, Inc.:** Privately owned stone shipping company dealing with aggregates, building supplies and concrete.



**4. Morton International, Inc.:** Privately owned industry involved with salt mining and shipping, employing 150. Around 1 million tons of salt mined annually, shipped via lake ship, rail and truck. Lake shipping accounts for about 500,000 tons per year, destined for other great lake ports in the U.S. and Canada. Onsite ship loading capacity is approximately 1,000 tons per hour. Breakwater failure would result in increased wave action and shoaling within the channel and would limit shipping operations.



**5. Carmeuse Lime:** Privately owned company involved in lime shipping.



**6. Osborn Concrete and Stone:** Privately owned industry involved with limestone transport, employing 50. Stone shipped in via lake ship from Ohio, Michigan and Canada. Facility handles around 2 million tons of stone per year, all of it shipped out via truck for the local market. Additionally, the facility ships out golf course sand via the lake. Onsite storage capacity is 2 million tons. Estimated annual activity is \$30 million. Breakwater failure would result in increased wave action and shoaling of the channel and would limit shipping operations.



**7. Grand River Marine Co. – Grand River:** Privately owned marina with 29 floating wood and steel slips able to accommodate vessels up to 40' and a 189 vessel dry rack capacity. Seasonal rates range from \$875 to \$2,000. Electric and water available at all slips. Other amenities include pumpout, fuel (gas only), showers, restrooms, a mechanic and a 35 ton travel lift. Structures include a main building and 2 rack buildings. Marina is dependent on breakwaters to maintain a calm harbor for operations.



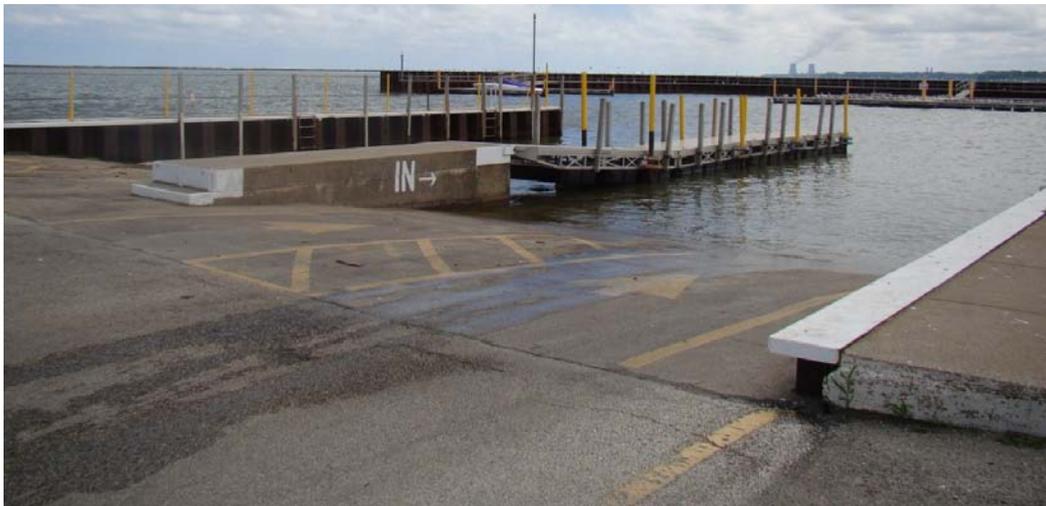
**8. Grand River Marine Co. – Fairport:** Privately owned marina with 189 fixed and floating wood, steel and aluminum slips able to accommodate vessels up to 50'. Seasonal rates range from \$850 to \$2,520. Electric and water available at all slips. Other amenities include pumpout, showers, restrooms, a picnic area and a 25 ton travel lift. Marina is dependent on breakwaters to maintain a calm harbor for operations.



**9. Osborn Concrete & Stone - Fairport Dock:** Additional dock and storage facility for Osborn Concrete & Stone.



**10. Fairport Port Authority Boat Launch Ramp:** Port Authority operated launch ramp facility with two inbound and two outbound ramps plus a jet ski ramp. \$10 single vessel charge, \$15 for a double vessel. Transient dockage available as well. Launch and dockage are dependent upon breakwaters for operation. Breakwater failure would cause increased wave action leading to damage to facilities.

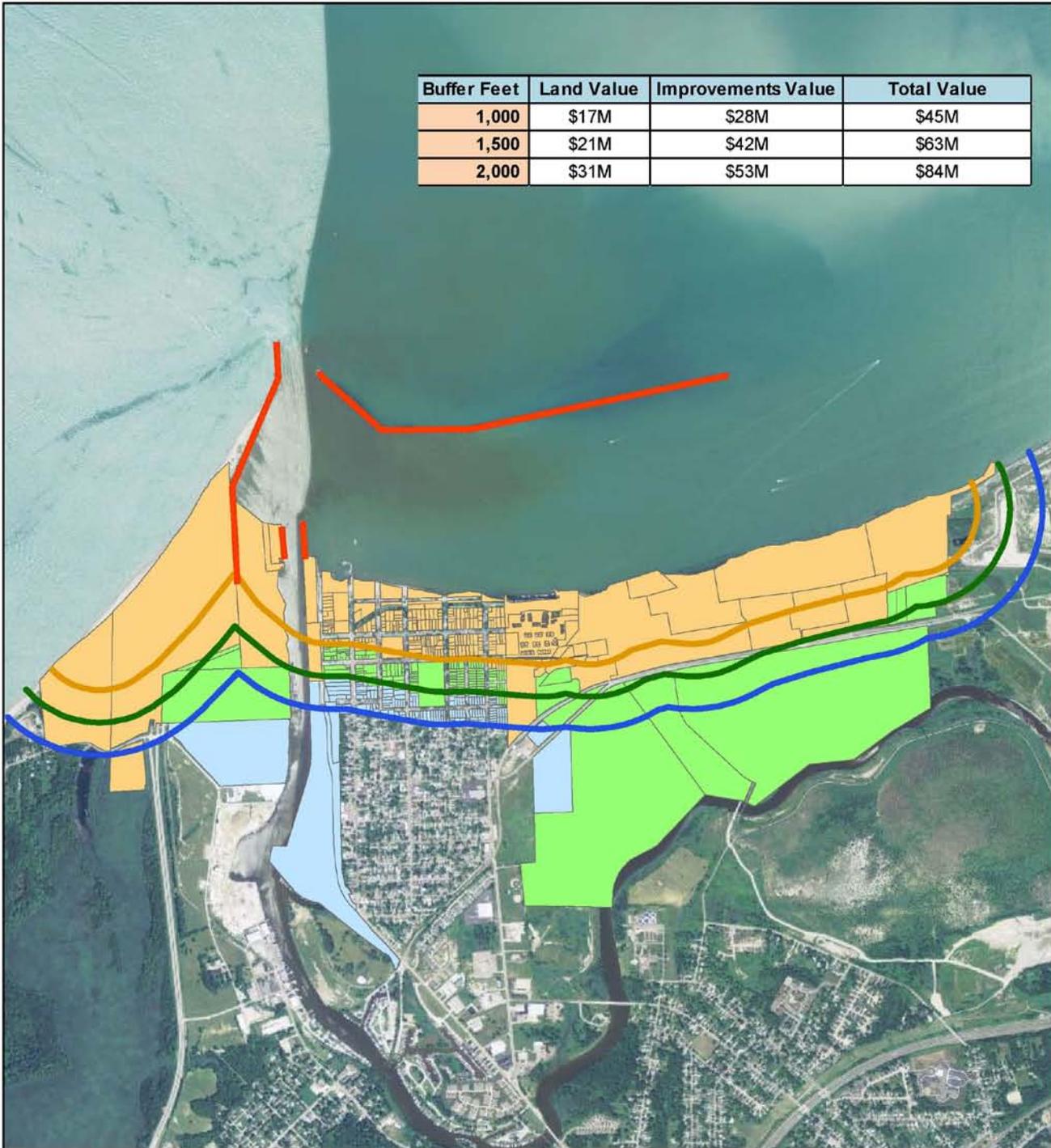


**11. Fairport Harbor Lakefront Park:** 21 acre lakefront park with beach, kayaking, canoeing, sailing, boating, camps and special beach programs/festivals. Park receives protection from west to northwest winds from breakwaters; however the extension of the eastern breakwater has become mostly submerged and provides little protection from north east-east winds.



**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.

Buffer Feet	Land Value	Improvements Value	Total Value
1,000	\$17M	\$28M	\$45M
1,500	\$21M	\$42M	\$63M
2,000	\$31M	\$53M	\$84M



- Federal Structure
- Shoreline\_1000\_ft\_buffer
- Shoreline\_1500\_ft\_buffer
- Shoreline\_2000\_ft\_buffer
- Parcels\_1000\_ft\_buffer
- Parcels\_1500\_ft\_buffer
- Parcels\_2000\_ft\_buffer

## FAIRPORT HARBOR

### Fairport OH

