

Michigan Municipal League - Statewide Estimate of Damages from Shoreline Erosion & High Waters

Community	Damages & Repairs Needed	Cost Estimate	Resolutions
City of Alpena	City has spent city funds on shoreline repairs and infrastructure & preventative measures as of September 2019.	\$12,000	
City of Eaton Rapids	Replacement of local ballfield restrooms, concession stands & storage buildings (2018). Accumulated cost of additional municipal staff time. Damage to the downtown park by flooding, construction of seawalls. Upgrades to mitigate future flooding of ballfields including the installation of larger pumps.	\$1,310,000	
City of Grand Haven	Currently handling the overflow of stormwater drains that our now overflowing into the city streets and causing flooding.	\$3,580,000	
City of Grosse Pointe	Most of the Grosse Pointes muni marinas have had to build up their docks at a significant expense.	\$167,000	
City of Grosse Pointe Farms	Damage to Marina Pier platforms.	40,000	
City of Grosse Pointe Park	Eroded stormwater outlet at Lake St. Clair & marina pier platform replacement.	130,000	
City of Grosse Pointe Shores	Repairs needed for sinkhole on Lakeshore Drive, damages to sanitary pipe, and the purchase of sandbags.	85,000	
City of Grosse Pointe Woods	Damage to Marina Pier platforms and purchase of sandbags.	66,000	
City of Holland	Damage to lift station, board walks, seawalls and boat launches. Significant flooding to Windmill Island Gardens, limited access available. Several roads underwater.	\$976,000	
City of Ludington	Intersection underwater, limited access to homes. Damage to Maritime Museum. Ludington Youth Sailing School Facility is inaccessible due to high water. Repairs needed for boat launch.	3,653,000	
City of Manistee	Insurance proceeds have cover a majority due to the meteotsunami - barametric pressure deal, lost 350ft of their riverwalk to erosion \$750k-\$1 million estimate in damages for 2020, breakwall is damaged to the extent of closure.	3,540,000	Yes
City of Muskegon	Damage along Lakeshore Trail - portion of the trail collapsed due to erosion, Beach Street - work done to stabilize the shoreline. City is working on an engineering study to address long-term repairs for the shoreline.	\$10,760,000	
City of North Muskegon	Parking lot removal and replacement, sidewalk removal and replacement , boardwalk redeck, turf restoration, irrigation, and miscellaneous site feature repairs.	\$259,900	
City of Norton Shores	Replacement of 35 ft Mona Lake steel sheeting, dredging sand from channel, walkway replecement, sinkhole repairs along seawall of Lake Harbor Drive, need to move the sanitary sewer along Lake Michigan. Rental of auxillary pump for sanitary sewer lift, replacement of auxillary turnout near Lake Michigan.	\$272,000	Yes
City of Ontonagon	Rebuilding the East Pier Path and repairs to adjacent property. Repairs and bank stabilization to erosion at Marina Park and Island boardwalks. Stabilizations of two histroical building foundations. Repairs to inudated sanitary sewers. Repais to storm water drains and lift on Zinc St. Repairs to river bank erosion along River Road .	\$1,185,000	

City of Petoskey	Engineering study for restoration of Arrowhead Shores, sewer main relocation at Bayfront Park, repairs and installment to the floating doc system.	\$4,535,000	
City of Port Huron	Coast Guard/Army Corps have funds they are using to cover some costs. Port Huron has incurred about \$150,000 in damages.	150,000	
City of Sault St. Marie	Repairs to electric utilities and fuel lines. Installment of modified shoreline protections and boardwalk	\$727,707	
City of South Haven	Significant damages to coastal & riverbank, harbor wave proagations, beach erosion and maintenance, marinas and stormwater infrastructure and utility infrastructure. Flooding and contamination to water filtration plan located on shoreline.	\$16,000,000	
City of St. Clair Shores	Plugs / Pumps / Equipment / Sandbagging / Erosion / Repairs to storm system.	\$230,000	
Rogers City	Anticipating repairs to non-motorized trail, parking lot, well house, storm water is mixing with the lake water. Ther are limited contractors available. Anticipating 1ft-18 inches of new water in the coming months. Lake water flooding in the wastewater treatement plant.		Yes
Saugatuck Township	Severe erosion along Lakeshore Drive.		Yes
Spring Lake Township	Culvert failure on the Yonker drain, hardening of sanitary sewer structures that will be submerged in the spring of 2020	\$270,000	
Tawas City	Damage to Tawas Point State Park in East Tawas, multiple instances of damage to Tawas City's waterfront parks and coastal flooding of residential properties along Lake Huron – the latter of which prompted Iosco County Emergency Management Coordinator Ed Rohn to help acquire more than 48,000 sandbags recently from the U.S. Army Corps of Engineers, to be used by impacted residents.	\$3,540,000	Yes
Traverse City		\$997,500	
Village of Elk Rapids	Nov.19 - Board of Trustees approved \$20,000 in infrastructure repairs - to “double-seal” the harbor’s electrical pedestals (now underwater), and to order rip-rap for a waterfront corner where erosion could wash out a street.	\$20,000	Yes
Village of Lexington	Temporary fix needed to stabilize the land to keep our water intake structure from falling into Lake Huron.	\$15,000	Yes
Village of Pentwater	Pentwater has a causeway to a bridge that is washed out & closed, sunken sidewalks, two storm drains have collapsed, damage to municipal docks and Yatch Club.	\$660,000	Yes
City of Frankfort	Damages to the Mineral Springs Park playground area and parking lot. Replacement of the sphalt parking area, concrete sidewalk. Construction for dock extentions, eletrical upgrade and site lighting for the Frankfort Marina Project and 200 ft of armoured stone rip-rap along portion of critical due.	\$10,098,000	
Village of Spring Lake	Mill Point Park Parking Lot Improvements, Jackson Street Dock Repairs, Grand River Greenway Repairs (From Mill Pt. Park Boardwalk to Park St.), Alden Street Repairs.	\$432,000	
Total \$ of Repairs		\$63,711,107	8