



# Case Study

## Kewaunee Seawall Repair

### Problem

RaiseRite Concrete Lifting (HMI's Contracting Division) was contacted by a local contractor who was looking for options to repair a failing seawall for a small business along the Lake Michigan shoreline. The issue was that the steel corrugated barrier was deteriorating and soil was washing out underneath the barrier and through holes within the seawall causing the parking lot of this business to settle.

### Summary

RaiseRite was called in to inspect the area. It was determined that 245 feet of seawall was failing. RaiseRite provided an estimate to have Deep Foamjection™ points driven every 3 ft. apart along the failing seawall for a total of 81 points. The estimate was approved and RaiseRite began work soon after.

### Solution

RaiseRite Concrete Lifting used the Deep Foamjection™ process to stabilize the soil to support the barrier and prevent further erosion and loss of soils. Deep Foamjection™ is the process of injecting foam to specified depths to increase the load bearing capacity of the soils. The foam used for this project was crucial because a truly hydro-insensitive foam was needed. HMI Hydrofoam was specifically designed for jobs where water or moisture is present. This 4 lb. per cubic foot foam was designed to set up in the presence of water and to maintain dimensional stability in wet environments. (As shown in the picture to the right- no chemicals are leaching into the water, and the foam is setting up perfectly). The project was completed in 4 days and 4,175 lbs. of HMI 402 HydroFoam was injected. The customer could then immediately continue repairs to the parking lot.



Foam setting up in water.  
No Chemicals leaching into the water.

