



Reduce the disruption of sediment transport to Plum Island Beach.

Before restoring the jetties to the original 1880 design, a hydraulic, sedimentologic, and morphodynamic study of the Merrimack River, with a geomorphic or morphodynamic investigation of the Merrimack tidal inlet including studies aimed at constructing models of sediment transport and channel hydraulics which will lead to a better designed jetty.

Consideration must be given to alterations of the Merrimack Jetty system, possibly installing T-head groins and other combinations of breakwaters and jetty spurs to reduce the disruption of sediment transport to Plum Island Beach.

Erosion is a simple math equation, more sand leaving the area than arriving, the length of the jetties are causing N.E. storm currents to accelerate erosion @ Center Island.