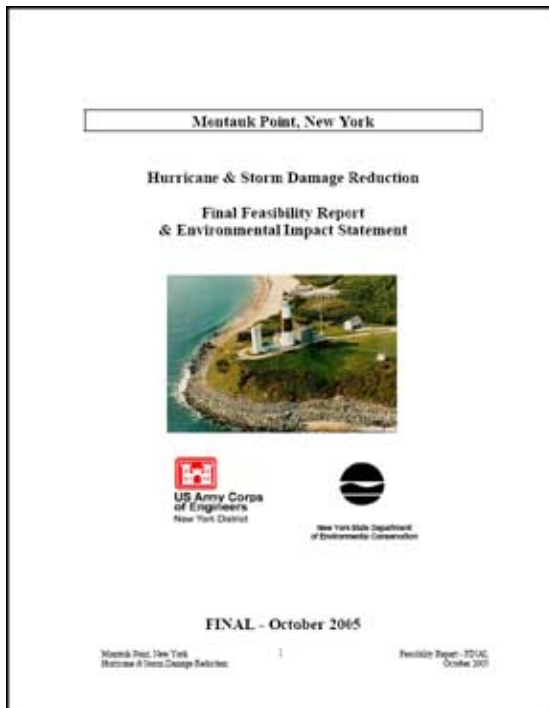


# Montauk Point, New York

## 31 October 2005



**Abstract:** The recommended project is located at Montauk, in the Town of East Hampton, Suffolk County, New York, between the Atlantic Ocean and Block Island Sound at the easternmost end of the south fork of Long Island. The project protects the entire historic Montauk Point Lighthouse Complex situated on a 70-foot high bluff underlain with glacial till. A review of records for the project area indicates approximately 200 feet of bluff face has eroded since the construction of the Lighthouse, which is currently less than 100 feet from the bluff face. In addition, two structures are even closer to the bluff's edge, the World War Two era constructed Fire Control Tower, is less than 50 feet from the edge of the bluff, and the concrete walkway for visitor access is less than 20 feet from the edge of the bluff.

Because the present shore protection measures were not designed to withstand major storms over a substantial duration, i.e. lack of buried toe, inadequate stone size, insufficient overtopping protection, it is expected that the revetment now in place will fail in the foreseeable future. As a result of future projected revetment instability and subsequent bluff erosion, the historic structure, a functioning lighthouse, as well as the associated artifacts within the vicinity, will be in critical danger if a long-term protection plan is not implemented.

The recommended plan is a long term comprehensive revetment project with a 73-year storm design, which consists of the following improvements:

- Stone revetment, 840-feet in length, with a crest width of 40-feet at elevation +25 feet NGVD, and 1V:2H side slopes.
- 12.6-ton quarystone armor units extending from the crest down to embedded toe.
- Three layers of 4-5 ton armor units are used atop the splash apron.
- The bottom of the armor stone layer in the toe would be located at a depth of 12-feet below the existing bottom.
- A heavily embedded toe is incorporated to protect against breaking waves, provide long-term stone stability, and prevent scour at the toe of the structure.

The total first cost for construction of the recommended plan \$14,252,000. Because the usage of the protected area is recreation, cost sharing for construction will be 50 percent Federal and 50 percent non-Federal. The estimated total Federal first cost of construction is \$7,126,000 and the estimated total non-Federal first cost of construction is \$7,126,000. All costs for operation, maintenance, repair, rehabilitation, and replacement of the recommended project are the responsibility of the non-Federal sponsor. The recommended plan is the national economic development plan. The estimated average annual cost of the recommended plan is \$889,000, average annual benefits are \$1,697,000, and average annual net benefits are \$808,000. The project's benefit-to-cost ratio is 1.9 to 1.0.

**Report Documentation:** Pertinent documentation on the project, the results of the CWRB, and subsequent Washington Level Review Actions are linked below.

- [CWRB Briefing Agenda](#)
- [Project Summary](#)
- [CWRB Briefing Slides](#)
- [CWRB Lessons Learned](#)
- [CWRB Meeting Record](#)
- [Comment Letters](#)
- [Documentation of Review Findings](#)
- [Signed Chief of Engineers Report](#)
- [ASA \(CW\) Memo to OMB](#)
- [OMB Clearance](#)
- [Congressional Notification](#)
- Signed Record of Decision
- Authorization
  - [Section 1001 \(36\) WRDA 2007](#)
  - Full WRDA Text

**Additional Information:**

[North Atlantic Division](#)

[New York District](#)

[Montauk Point, New York, Project Information](#)