

## What is the Long Beach Project?

The Long Beach Project is a storm damage reduction project, which has been designed to provide protection against wave attack and inundation for homes and businesses along 6.8 miles of oceanfront, including Point Lookout, Lido Beach, and the City of Long Beach.

This area has been subject to major flooding during storms, causing damage to structures along the barrier island. Over the years, continued erosion has resulted in a reduction in the height and width of the beachfront, which has increased the potential for storm damages.

## What is the purpose of the Long Beach Project?

The project has been developed to reduce storm damages to the highly developed communities that are susceptible to wave attack and flooding during major storms and hurricanes. The recommended project has been developed to provide protection against a 100-year storm event.

## When was the Long Beach Project developed?

In 1986, the U.S. Army Corps of Engineers was requested by New York State to investigate the feasibility of a storm damage reduction project for Long Beach. In 1995, a Feasibility Study and Environmental Impact Statement were completed. This study recommended federal participation in a storm damage reduction project. Recently, the project has been updated to consider changed shoreline conditions. This brochure describes the updated plan.

## What does the Long Beach Project include?

The Long Beach Project includes beach and dune nourishment, in addition to the rehabilitation of existing groins and the construction of new groins. The project would use a dredge to pump sand from an offshore borrow area and place it on the beach. The project would be maintained for 50 years through periodic sand placement on the beach.

The Project details are provided below

Beach fill length	34,000 ft
Volume of initial fill	7,120,900 cy*
Volume of renourishment	1,746,200 cy
Interval of renourishment	every 5 years**

Width of beach berm	110 ft
Height of beach berm	+10 ft NGVD ***

Width of dune crest	25 ft
Height of dune crest	+15 ft NGVD ***

Existing groins rehabilitated	18 groins
* Includes rehab and 100 ft extension of terminal groin at Jones Inlet	
New groins constructed	7 new groins (3 deferred)

Initial construction cost	\$92,852,600 ****
Renourishment costs / cycle	\$12,685,400

Annual costs*****	\$9,302,900
Annual benefits*****	\$25,072,300
Benefit to cost ratio*****	2.7

\* cubic yards of sand

\*\* estimate: the actual renourishment cycle and volume is based upon need

\*\*\* National Geodetic Vertical Datum, which in this area is approximately 2.25 ft MLW

\*\*\*\* Does not include cost of deferred groins

\*\*\*\*\* Approximate: based upon the 2004 Draft LRR

## The dune is +15 ft NGVD. What does this mean?

The dune would be constructed to a top elevation of +15 ft NGVD, which is a height of 5 feet above the improved beach elevation.

The 5-ft dune is an essential part of the storm damage reduction project and is the primary element for providing protection against inundation and wave attack.

For reference, the height of the boardwalk in Long Beach is at elevation +17 ft NGVD. This means that the dune would be 2 feet lower than the elevation of the boardwalk.

## Who would pay for the Long Beach Project?

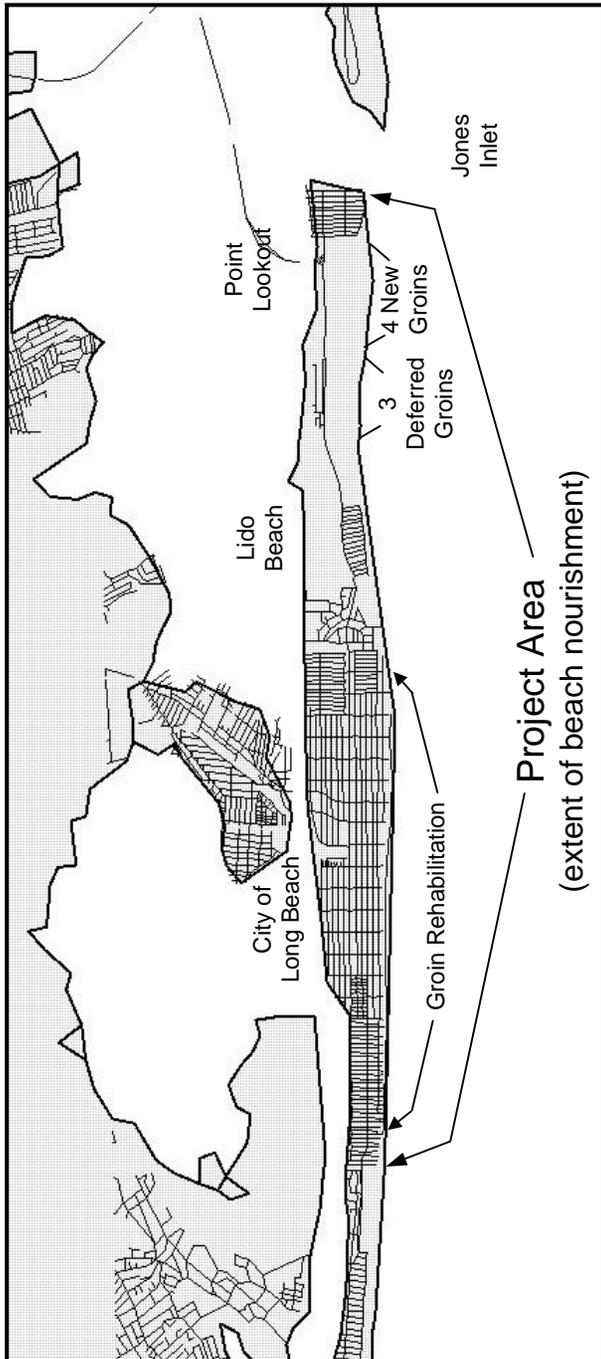
The Long Beach Project would be cost-shared between the U.S. Army Corps of Engineers (USACE), New York State Department of Environmental Conservation (NYSDEC), Nassau County, the Town of Hempstead, and the City of Long Beach.

The cost-sharing for initial construction is approximately:

USACE	65%	\$60,354,200
NYSDEC	24.5%	\$22,748,900
Long Beach	10.5%*	\$ 5,971,100
Hempstead	10.5%*	\$ 3,755,900
Nassau	10.5%*	\$ 22,500

**\* The costs for the local governments are based upon the project costs for work undertaken within their municipal boundaries and on their properties.**

**These estimates will be updated before construction to reflect current conditions**



## What is the schedule for the Long Beach Project?

With the support of the NYSDEC and the local governments, the project design can be finalized in 2005, which would allow us to proceed with budgeting for the project and develop construction bid documents to begin construction in 2006. This schedule is dependent upon timely receipt of Federal, State, and local government funds.

## How do I get more information on the Long Beach Project?

If you have any specific questions regarding the Long Beach Storm Damage Reduction Project, please contact one of the following representatives:

Mr. Anthony Ciorra  
 U.S. Army Corps of Engineers  
 26 Federal Plaza  
 New York, NY 10278-0090  
 212-264-1038  
[anthony.ciorra@usace.army.mil](mailto:anthony.ciorra@usace.army.mil)

Mr. Roman Rakoczy  
 New York State  
 Dept. of Environmental Conservation  
 625 Broadway  
 Albany, NY 12233  
 518-402-8139  
[rgrakocz@gw.dec.state.ny.us](mailto:rgrakocz@gw.dec.state.ny.us)

**Visit the project website for more information:**

<http://www.nan.usace.army.mil/business/prjlinks/coastal/longbeac/index.htm>



# LONG BEACH ISLAND STORM DAMAGE REDUCTION PROJECT

Atlantic Coast of Long Island  
 Jones Inlet to Rockaway Inlet

## PROJECT INFORMATION

U.S. Army Corps of Engineers

and

New York State Department of  
 Environmental Conservation

September 2004