

## 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.

While erosion is a problem, the most serious threat to the island is from high storm surges and waves. The present beach could be easily overtopped with direct damages to public and private property. The project adds elevation to the existing dune and berm to protect against these 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, or a storm with a 1% probability of this magnitude or greater occurring in a given year.

## 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 nourishment and construction of a sand barrier beneath the boardwalk, 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	29,000 ft*
Volume of initial fill	6,600,000 cy**
Volume of renourishment	1,726,000 cy
Interval of renourishment	every 5 years***
Width of beach berm	110 ft
Height of beach berm	+10 ft NGVD ****
Width of sand barrier	65 ft (25 ft crest)
Height of sand barrier	+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	\$98,535,000 *****
Renourishment costs / cycle	\$12,509,000
Annual costs	\$9,017,000
Annual benefits	\$24,009,000
Benefit to cost ratio	2.7

\* Reflects no fill along 5,000 ft of shoreline for bird area

\*\* 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

## The sand barrier is +15 ft NGVD, located beneath the boardwalk. What does this mean?

The sand barrier located directly beneath the boardwalk has a crest width and upper slope that would extend over half the boardwalk width and come within a foot of its timber deck. The toe of the sand barrier will extend approximately 15 ft seaward of the boardwalk.

The sand barrier geometry has a 25 ft crest width at elevation +15.0 ft NGVD with a 1V:3H landward slope and 1V:5H seaward slope except at boardwalk seaside ramp locations, where it has a 1V:2.5H landward and seaward slope.

## Who would pay for the Long Beach Project?

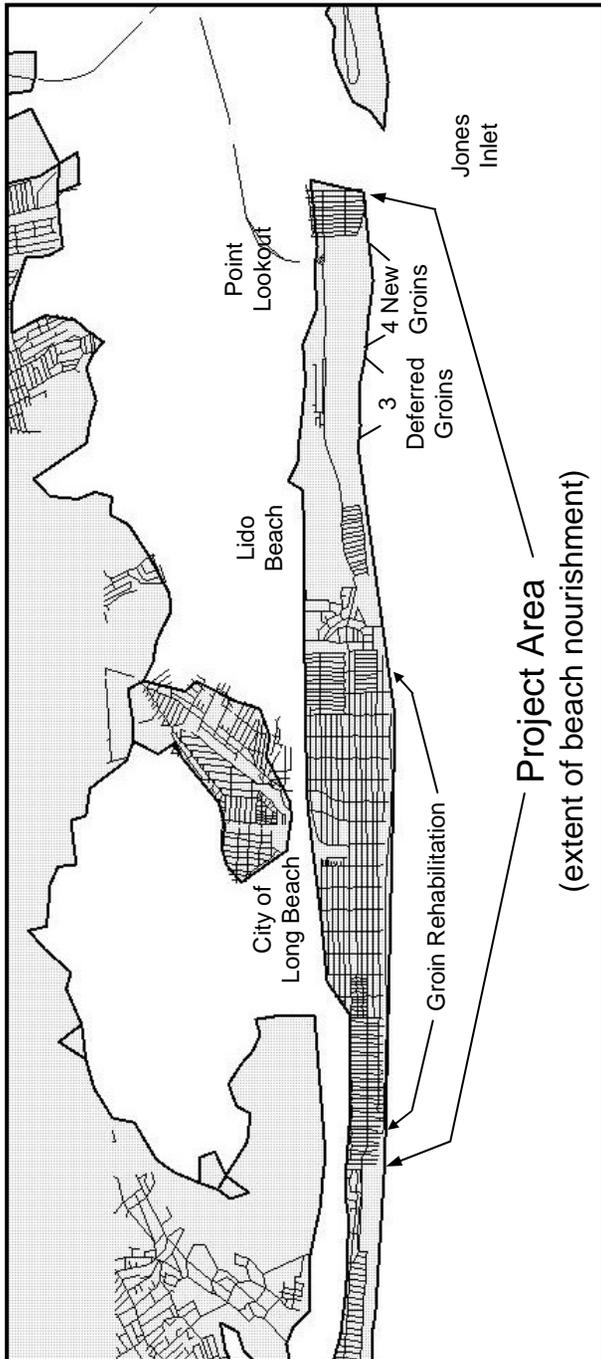
The Long Beach Project would be cost-shared between the U.S. Army Corps of Engineers (USACE), New York State Department of Environmental Conservation (NYSDEC), Nassau County, the Town of Hempstead, and the City of Long Beach.

The cost-sharing for initial construction is approximately:

Federal	65%	\$63,593,000
Non-Federal	35%	\$34,942,000*

**\* The costs for the local governments are based upon the project costs for work undertaken within their municipal boundaries and on their properties. The non-Federal cost is shared 70/30 between the NYSDEC and local municipalities.**

**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 early Fall 2006, which would allow us to proceed with construction in late Fiscal Year 2007. 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?

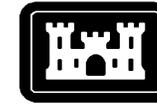
If you have any specific questions regarding the Long Beach Storm Damage Reduction Project, please contact one of the following representatives:

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**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

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