



**US Army Corps  
of Engineers®**  
New York District

# **OAKWOOD BEACH, Staten Island, New York**

## **Storm Damage Reduction Project**

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### **FACT SHEET**

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**DESCRIPTION:** The project area is located along the south shore of Staten Island, New York City, New York. The subject area is situated between Great Kills Harbor and New Dorp Beach. The problem area is adjacent to the Gateway National Recreation Area, south of Oakwood Creek. The shoreline has eroded over the past 40-50 years, and protective works including a wooden seawall adjacent to a tide gate at the mouth of Oakwood Creek, a stone riprap revetment, and the tide gate have deteriorated. As a result, residents of the Oakwood Beach community and the nearby New York City sewage treatment plant facility are vulnerable to consistent storm damages. Beyond significant flooding during storm events, the area has experienced flooding during normal high tides, depending upon prevailing wind conditions. In addition, this situation poses serious environmental concerns, as freshwater wetlands are in danger of being converted to tidal wetlands.

A study was conducted to evaluate the feasibility of reducing the effects of shoreline erosion and thereby providing protection for the sewage treatment plant and the adjacent community, including public roads, utilities, and related infrastructure. The study also identified potential solutions to the erosion problems in the area.

Several alternative plans were considered to reduce the effects of shoreline erosion and flooding to the Oakwood Beach community, including replacement of a wooden seawall with a steel sheetpile bulkhead, repair and refurbishment of a stone revetment structure, and various levee alignments. The recommended plan consists of a levee, a tide gate over Oakwood Creek, the raising of the access road to the septic tank discharge area, the raising of portions of Mill Road, Tarlton Street, and Dugdale Street, and a wetland mitigation area.

**AUTHORIZATION:** This project is authorized by Section 103 of the River and Harbor Act of 1962, as amended.

**STATUS:** The U.S. Army Corps of Engineers signed a Project Cooperation Agreement with the New York State Department of Environmental Conservation in July 1998. Construction was substantially completed in May 2000. The project was officially turned over to the State of New York for operation and maintenance on October 26, 2000. Monitoring of the wetland mitigation area is continuing.

#### **PROJECT COST:**

|                  |                   |
|------------------|-------------------|
| Federal Cost     | \$1,738,750       |
| Non-Federal Cost | <u>\$ 936,250</u> |
| Total            | \$2,675,000       |

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