



ARDSLEY FLOOD DAMAGE REDUCTION PROJECT



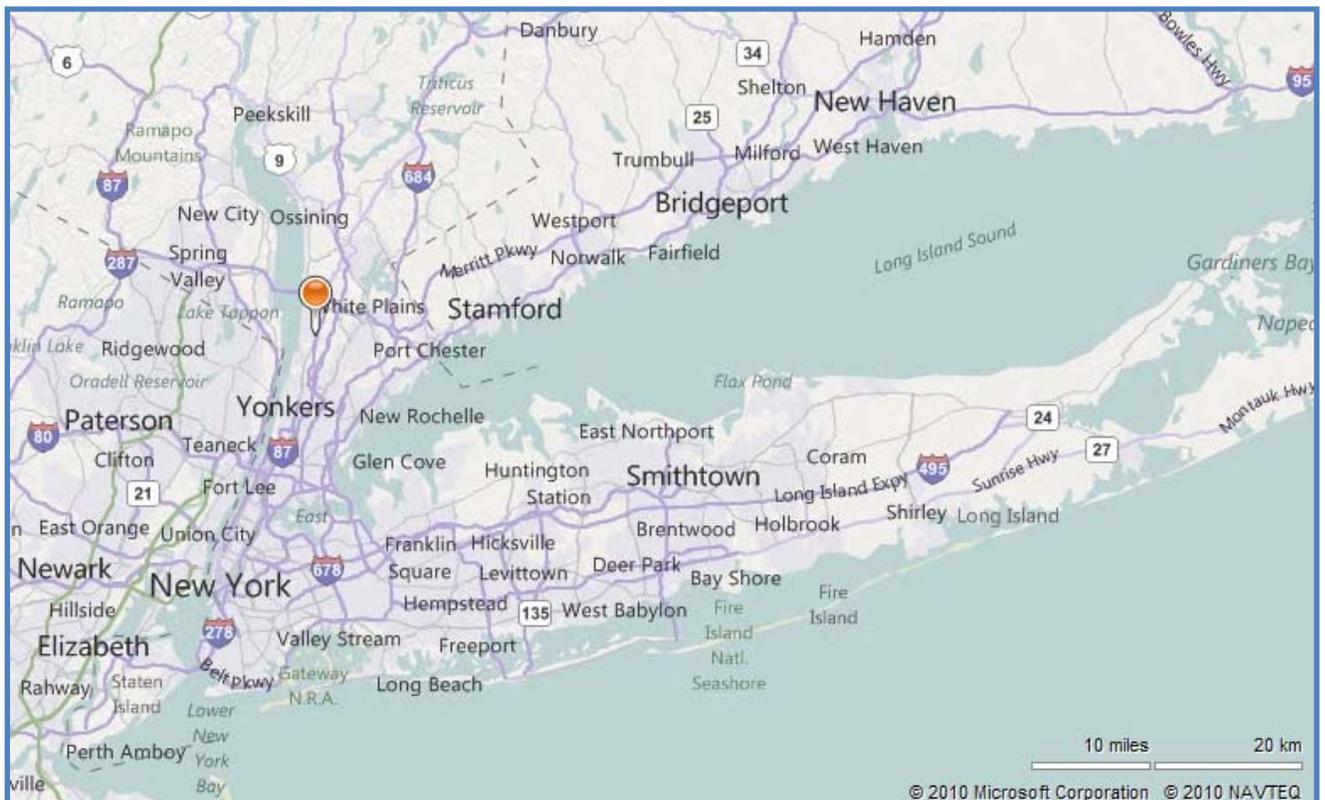
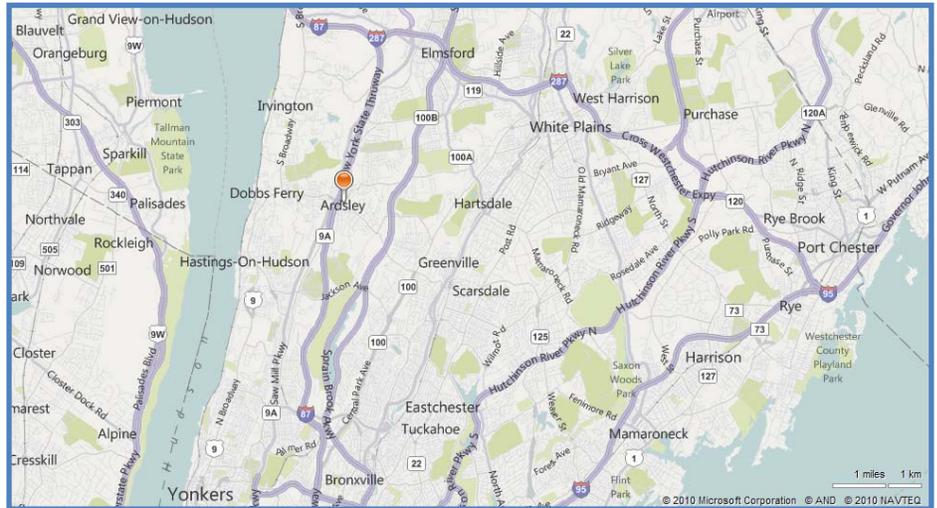
Department of
Environmental Conservation

Operated and Maintained by: *The Village of Ardsley*

Region 3 Counties: Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

PROJECT LOCATION

The project is located on the Saw Mill River in the Village of Ardsley, Westchester County, New York. The project begins at the Saw Mill River Parkway and continues to a point 1,250 feet above the Ashford Avenue Bridge.



PROJECT DESCRIPTION

The project has been divided into three reaches, Downstream, Middle, and Upstream.

- The Downstream Reach consists of an improved 20 foot wide riprapped trapezoidal channel with 1:2 side slopes between the Elm Street Bridge and the Saw Mill River Parkway Bridge. The Conrail Bridge was removed.
- The Middle Reach from the New York State Thruway to the Ashford Avenue viaduct consists of non-structural flood relief for three structures. Generally, the improvements consist of providing permanent and temporary closures for three brick or masonry type structures.
- The Upstream Reach improvements consist of a 1,160 foot length of wall on the left bank from the Ashford Avenue viaduct that ties into high ground adjacent to the New York City blowoff tunnel headwall.
 - The wall averages 14 feet in height along the channel, and 16 feet tapering to one foot in height perpendicular to the channel at the upstream closure.
 - Within this reach from the Ashford Avenue viaduct to the upstream limits of the project, the channel will be relocated and reconstructed to a ten-foot wide bottomed, 1:2 ½ side sloped, trapezoidal channel.
 - The channel consists of a new concrete 20 foot wide flume from immediately above the viaduct for a distance of 280 feet upstream.
 - The remainder of the channel is a 10 foot wide trapezoidal earthen section stabilized with riprap.
 - At Old Ashford Avenue the bridge was not removed or raised. Its left abutment was capped to the elevation of the channel and continues to the concrete channel section.
 - The blowoff channel was extended and modified to tie in with the relocated channel.

PROJECT AUTHORIZATION

The Flood Control Project in the Saw Mill River Basin at Ardsley, New York was authorized by Congress in the Flood Control Act of 1965, Section 201, and endorsed by the New York State Department of Environmental Conservation in 1982.

PROTECTION PROVIDED

The authorized project is designed to provide protection to the area against a stream discharge of 1850 c.f.s., which has an approximate 0.6 percent exceedance frequency for existing conditions. This flow is 54 percent greater than the flood of September 1975, the estimated largest known flood. The design discharge is also 57 percent of the Standard Project Flood and has a frequency of occurrence of approximately once in 167 years.

CONSTRUCTION

Construction plans and specifications for the project were issued on August 4th 1987. Bids were received on September 9th 1987 and the contract was awarded to ECCO III Enterprises, Inc., 870 Nepperhan Avenue, Yonkers, NY 10703. The project was completed on November 28th, 1989.

ARDSLEY - GENERAL PLAN



ARDSLEY – BIRD’S EYE VIEW



ARDSLEY - GENERAL PLAN AND AERIAL MAP OVERLAY

