

## **McDanolds Brook Flood Control Project**

The McDanolds Brook Flood Control Project at Veterans Memorial Park in the City of Passaic is designed to alleviate long term effects of repeated flooding in the 50-acre park, which include significant damage to public open space, safety concerns, and environmental issues in McDanolds Brook and Hughes Lake. The project will involve the widening and realignment of portions of the existing McDanolds Brook channel, dredging and improvements to Hughes Lake, the planting of over 200 native trees, removal of three damaged pedestrian bridges and construction of two new bridges (one pedestrian and one vehicular), and other park restoration efforts. The adverse environmental impacts associated with the channel reconfiguration and dredging activities are temporary and will be counteracted by the planting of over 200 native trees, the restoration of Hughes Lake, the stabilization of the McDanolds Brook and the reduction of the frequency/intensity of flooding.

The following is a description of the McDonald's Brook project by phase:

- Phase 1 (Glenside Ave to Hughes Lakes): The first phase, which concerns the upstream inflow to Hughes Lake, will consist of significant dredging and stream wall reconstruction as part of bank stabilizations, as well as a slight flow realignment to straighten the stream, thereby mitigating future bank erosion and protecting the integrity of Hughes Lake. Construction scheduled to be completed by Spring 2017.
- Phase II: focused solely upon the conditions at Hughes Lake. Specifically, this phase begins by dredging the lake to an appropriate depth, considering its average inflow and desired future use. Once the Lake has been adequately deepened, the City will then erect a dock from which park goers may rent and launch paddleboats, rowboats, and canoes, all of which will now have the ability to be effectively used in Hughes Lake. As the banks of the Lake consist of armored walls and have thus escaped the ravages of repetitive flooding, bank stabilization to protect the Lake will not be necessary. Construction scheduled to be completed by Spring 2017.
- Phase III (Passaic Ave to Railroad Bridge) & Phase IV (Railroad Bridge to Main Ave): The third and fourth final phase of work will improve the outflow conditions downstream of Hughes Lake which will consist of significant dredging and stream wall reconstruction as part of bank stabilizations, as well as a slight flow realignment to straighten the stream, thereby mitigating future bank erosion. Construction scheduled to start by Spring 2017 and completed by Spring 2018.

The following are the other funding sources for this project:

CDBG-DR (Disaster Recovery):	\$2,040,000.00
NJDEP Dredging Grant:	\$100,000.00
Passaic County Open Space 2015:	\$550,000.00
Green Acres Matching Grant 2015:	<u>\$1,100,000.00</u>
Grant Totals:	<b>\$3,790,000.00</b>

## **Compliance with Flood Hazard Area Control Act Rules (N.J.A.C. 7:13, last revised January 24, 2013:**

Pursuant to N.J.A.C. 7:13 an Environmental Report for the proposed flood control project within Veteran's Memorial Park in the City of Passaic was performed and required for the issuance of a Freshwater Wetland Individual permit due to the extensive channel modifications within the McDanolds Brook.