

**NEW YORK CITY**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**BUREAU OF WATER SUPPLY**

Semi-Annual Report

East of Hudson Nonpoint Source  
Pollution Control Program

**July 2013**

*Prepared in accordance with Section 4.9 of the New York City Filtration  
Avoidance Determination, July 2007*

This report discusses the status of the components of the East of Hudson Nonpoint  
Source Pollution Control Program for the first half of 2013.

Prepared by the New York City Department of Environmental Protection

## **1.0 Introduction**

The East of Hudson (EOH) Nonpoint Source Pollution Control Program seeks to address nonpoint pollutant sources in the four EOH Catskill/Delaware watersheds (West Branch, Croton Falls, Cross River, and Boyd Corners). The program supplements DEP's existing regulatory efforts and nonpoint source management initiatives.

## **2.0 Wastewater-Related Nonpoint Source Pollution Management Programs**

### **2.1 Wastewater Infrastructure Mapping and Inspection Program**

To locate and characterize the sanitary infrastructure in the four basins, DEP funded a program to video inspect and digitally map the sanitary infrastructure. DEP completed the program in 2011, and no additional work is necessary.

### **2.2 Septic Program East of Hudson**

DEP provides ongoing support to Westchester County and Putnam Counties in their efforts to reduce the potential impacts of improperly functioning or maintained subsurface sewage treatment systems (SSTSS). During the reporting period, DEP continued to assist Westchester County Health Department staff to complete their comprehensive Septic System Management Program database. The database includes information on new septic applications, septic repairs/remediation, and pump out data, as well as contractor licensing information.

Westchester County and Putnam County continue to implement the septic requirements of the NYSDEC MS4 General Permit (GP-0-10-002) that became effective in May 2011. As required by the MS4 permit, the Counties have programs for inspection and repair approval of septic systems. Putnam County also continues to implement the maintenance component for septic systems repaired under their septic repair program.

## **3.0 Stormwater-Related Nonpoint Source Pollution Management Programs**

### **3.1 Stormwater Retrofit and Remediation**

#### **3.1.1 Stormwater Retrofit Projects**

Hemlock Dam Road and Magnetic Mine Road are unpaved roads in the Town of Carmel that drain toward Croton Falls Reservoir. DEP completed all project work for the reconstruction of both Hemlock Dam Road and Magnetic Mine Road in 2010.

#### **3.1.2 Stormwater Remediation Projects**

##### **Remediation Projects on City-Owned Property:**

##### Maple Ave, Town of Bedford, Westchester County:

The project designs plan and stormwater pollution prevention plan are complete. This project will be bid with the Drewville Road project.

##### Michael Brook, Town of Carmel, Putnam County:

Since the Construction Notice to Proceed was issued in September 2012, approximately half of the work has been completed. Habitat restrictions for trout required that work be suspended, preventing completion of the project. Work in 2013 has been delayed due to higher than normal stream volumes in the spring.

##### Drewville Road, Town of Carmel, Putnam County:

Due to changes in design at the request of the Town, the project is not yet approved. During the reporting period, the Town requested renderings of the retrofit with vegetative screening that would minimize visual impact. DEP chose evergreens to provide screening of the retrofit year round. Upon

seeing the renderings, the Town requested that evergreens not be used but rather that DEP use deciduous trees that are typical to the area. DEP edited the designs and resubmitted the designs to the Town. The Town Planning Board agreed to move the project to the Environmental Control Board in May 2013. DEP anticipates receipt of the SWPPP approval in the second half of 2013. This will be bid with the Maple Avenue project.

**Remediation Projects on Privately-Owned Property:**

Sycamore Park, Long Pond Road/Crane Road Town of Carmel, Putnam County:

Construction began in September 2012. DEP has completed the construction work on the culvert, bioretention system, and parking lot. Final project closeout is anticipated in the next reporting period.

Nemarest Club, Town of Kent, Putnam County:

Construction began in September 2012 and is now complete. Work on site included construction of the temporary road, diversion and piping of streamflow, tree removal, and utility protection.

**3.1.3 Stormwater Remediation Small Projects**

The Small Stormwater Remediation Projects Program involved the identification and remediation of smaller erosion sites in the four EOH Catskill/Delaware watersheds. The program was completed in 2009. The sites are now maintained under the Facility Inspection and Maintenance Program.

**3.2 Facility Inspection and Maintenance**

The Facility Inspection and Maintenance Program was developed to ensure that previously constructed stormwater remediation facilities continue to function as designed. New facilities continue to be brought on line and are added to the routine inspection program. Maintenance during the first year of a facility's life is completed under the warranty in the facility's construction contract and under DEP's maintenance contract thereafter. Inspection and maintenance follow procedures identified in the Operation and Maintenance Guidelines contained in the maintenance contract.

**3.3 Stormwater Infrastructure Mapping and Inspection Program**

DEP completed the mapping and video inspection program in 2009.

**3.4 Stormwater Infrastructure Capacity Evaluation**

DEP completed the Stormwater Infrastructure Capacity Evaluation in 2010.

**3.5 Stormwater Prioritization Assessment - DEP Properties**

DEP completed the prioritization report in March 2009.

**3.6 Funding Program - Croton Falls/Cross River**

The majority of watershed communities in Putnam, Westchester, and Dutchess Counties worked to establish the EOH Watershed Corporation (EOHWC). The mission of the EOHWC is to implement a regional retrofit program in the EOH watershed. In 2012, final agreement was reached with the EOHWC on the contract that will allow the transfer to the EOHWC of both the \$4.5 million provided under the Croton Falls/Cross River Stormwater Retrofit Program as well as additional funding. Since then, DEP has worked with the EOHWC to ensure that various administrative submittals were completed to allow for contract registration. In December 2012,

EOHWC filed an application with the IRS to be a 501(c)(3). During the reporting period, the EOHWC applied for and received the necessary registration with the NYS Charities Bureau. Following receipt of the registration, DEP issued the Advice of Award for the contract to the EOHWC.