

## Progress Report for Part IX.A

|          |                             |   |                |
|----------|-----------------------------|---|----------------|
| Permit # | NYR20A529                   | Watershed Name                          | East of Hudson |
| MS4 Name | NYCDEP - East of Hudson BWS | Reporting Period Ending<br>(mm/dd/yyyy) | 09 / 09 / 2016 |

### Watershed Improvement Strategy

Describe the strategy to reduce the discharge of phosphorous to this waterbody. Include new sources that may have been identified and any modifications to the strategy to better address new sources.

DEP's strategy to reduce phosphorus discharge to the East of Hudson waterbodies is to continue its emphasis on responsible maintenance protocol, prompt investigation of illicit discharges and to pursue retrofit opportunities in its watershed. No new sources of phosphorus have been identified. The focus is to improve on existing watershed management activities and to reduce impervious areas by decommissioning existing DEP sites and returning them to their natural states.

### Public Education & Outreach

1. Description of the education program

DEP BWS provides its staff with annual MS4 information via computer-based training, ongoing spills and bulk storage training, as well as training information on watershed protection to local contractors and the general public. Educational literature noted below is available at 4 kiosks throughout the watershed. The annual MS4 report is posted on the DEP's website. DEP's publication, "Pipeline," often features articles on staff or projects in the East of Hudson watershed, focusing on water supply protection and maintenance. The BWS also has a publication, "Tributary," which focuses on issues in the watershed.

2. Who is the target audience and what is the message delivered to each target audience?

The BWS's target audience is its staff and the general public. The message to BWS staff is the protection of water quality - through proper maintenance practices, detecting and eliminating spills & illicit discharges, and promoting/supporting public cleanup events throughout the watershed. The message to the public is to increase awareness of water quality threats (failing sewage disposal systems, litter, fertilizer use, etc.) & appreciation for water resources (fishing clinics, boat rentals, sportsmen's events).

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|--|-----|
| 3. Identify how many educational materials have been developed and distributed                         | 1 3 |
| 4. Identify how many educational materials have been developed and distributed that focus on:          |     |
| a. understanding the Phosphorous issues  | 2 3 |
| b. Septic systems as a source of Phosphorus<br>Non-Traditional MS4 <input checked="" type="checkbox"/> | 1 8 |
| c. Phosphorous concerns with fertilizer use  | 2 9 |
| d. Phosphorous concerns with<br>grass clippings and leaves entering the MS4                            | 2 2 |
| e. Construction sites as a source of Phosphorus  | 1 1 |
| f. Phosphorous concerns with detergent use   | 3 5 |

PERMIT #

5. Education plan and goals for the next 6 months

The next six month's goals are to develop supplemental literature for distribution at public events, boost promotion of the BWS staff's watershed protection efforts in the Department's publication, "Tributary," and to continue the individual interviews of department staff for the annual and interim reports. Staff will also continue its participation in annual events such as Eaglefest, where watershed protection information is distributed to the public. Also, local road cleanup events, the Sportsmen's Expo, fishing clinics and the annual boat auction are opportunities for the staff to distribute information to the public and promote awareness of water quality issues.

**Illicit Discharge Detection and Elimination**

Non-Traditional MS4 (Skip Question 6-6e)

6. Number of On-Site Wastewater Treatment Systems (OWTS) with a design capacity of less than 1000 gpd that are located in sewersheds that drain to the listed waterbody \_\_\_\_\_

a. Number of OWTS inspected in this reporting period \_\_\_\_\_

b. Number of OWTS in need of maintenance or rehabilitation \_\_\_\_\_

c. Number of OWTS where maintenance or rehabilitation has been performed in this reporting period. \_\_\_\_\_

d. State the plan for OWTS that have not been addressed in 6c this reporting period

e Describe the OWTS inspection program: Who is responsible for performing OWTS inspections? (eg: Septage Haulers, DOH, engineer, consultant); What methods are used? Are there trends in systems that need maintenance vs systems that need rehabilitation?

7. Number of Illicit Discharges detected within sewershed of listed waterbody in this reporting period. 13

a. Number reported in 7 that have been eliminated 13

b. List of Illicit Discharge locations that have not been eliminated in this reporting period and the target date for elimination

| Location             | Target Date (mmddyyyy) |
|----------------------|------------------------|
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Location

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**Construction Site Stormwater Runoff Control**

Non-Traditional MS4 (Skip Question 8)

8. Number of SWPPPs reviewed and approved during this reporting period
9. Number of active construction sites within sewersheds of impaired waterbody during this reporting period:
- a. Number of sites reported in 9 that are between 5000 sqft and 1 acre
- b. Number of sites inspected in this reporting period
- c. Number of sites in need of corrective action
- d. Number of sites where corrective action was completed in this reporting period
- e. Discuss inspections. Discuss trends that may have been observed in this reporting period. State reasoning for not inspecting all active construction sites. (if applicable)

Active construction sites are inspected weekly and NYSDEC inspection protocol is followed.

10. Construction Site Stormwater Runoff Control plan and goals for the next 6 months

Continue site inspections per NYSDEC requirements.

**Post Construction Stormwater Management**

11. Number of Stormwater Management Practices (SMPs) located in sewersheds that drain to the listed waterbody
- a. Number reported in 11 that have been inspected in this reporting period
- b. Number of SMPs in need of maintenance or rehabilitation
- c. Number of SMPs where maintenance or rehabilitation has been performed in this reporting period.
- d. Number of SMPs where phosphorous pollutant problems have been identified.
- e. Number reported in 11d where the pollutant problem has been addressed.

f. Who is responsible for performing SMP inspections?

DEP Regulatory and Operations staff perform SMP inspections.

PERMIT # NYR20A529

- g. Is the criteria in Ch 5, 6, and 10 of the NYS Stormwater Management Design Manual being applied? (If no, please describe deviations) Y N

- h. State procedures to identify sites with post construction controls that are not functioning as designed (ie, rill erosion, pollutant bypass)?

Sites which are not functioning properly are directed to field operations staff to correct. However, DEP has not experienced any major problems with practices to date.

12. Describe the retrofit program. Include the funding sources and design description of retrofits. Identify all retrofits that have been constructed and maintained during this reporting period.

DEP's retrofit program goal is to reduce phosphorus loading by 10 kg/yr by March 2018. These retrofits must be implemented in the Croton Watershed portion of the EoH watershed. Funding for the retrofits is secured through the City's Capital & Expense Budget. In 2010, vegetated swales were constructed along roads that are in the Croton Falls Reservoir watershed. A stormwater improvement project in the Town of Carmel's Sycamore Park included bioretention basins & porous pavement, & was completed in 2012. Hydrodynamic separators were installed in 2010 at Shafts 9 & 10 to handle road and parking lot runoff.

13. Post-Construction Stormwater Management plan and goals for the next 6 months

Pond inspections are scheduled for fall/early winter. Outfall inspections are also scheduled for this time period.  
DEP is also renewing its 3-year contract for maintenance.

**Municipal Operations Pollution Prevention/Good Housekeeping**

Non-Traditional MS4 (Skip Question 14)

14. Number of catch basin and manhole sumps within sewersheds discharging to listed waterbody \_\_\_\_\_
- a. Number reported in 14 that have been inspected in this reporting period \_\_\_\_\_
- b. Number reported in 14a cleaned in this reporting period \_\_\_\_\_
15. Number of conveyance system outfalls within sewersheds discharging to listed waterbody 9 4 6
- a. Number reported in 15 that have been inspected in this reporting period. 0
- b. Number reported in 15a maintained in this reporting period. 0
- c. Number reported in 15a repaired in this reporting period. 0
16. Amount by weight in pounds of turf fertilizer containing phosphorous that was applied on municipally owned lands in this reporting period. 0
17. Describe turf management practices implemented during this reporting period. Include strategies implemented to introduce native plants to reduce fertilization and mowing

Turf is mowed at the various DEP sites, but fertilizer is not used. Native plants and trees are planted in the stormwater practices and elsewhere in the watershed to stabilize shoreline and replace vegetation that has been damaged by storms or natural attrition.

**MS4 Semi Annual Report Form Certification**Semi Annual Report form for period ending 

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 (MMDDYYYY)Name of MS4 

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**Certification Statement** - MS4 Official (Principal Executive Officer or Ranking Elected Official) or a Duly Authorized Representative of the MS4 Official

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing of violations."

This form must be signed by either a principal executive officer or ranking elected official, or duly authorized representative of that person as described in GP-0-15-003 Part VI.J.

First Name

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Last Name

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Title (Clearly print title of individual signing report)

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Send completed form and any attachments to the DEC Central Office at:

MS4 Permit Coordinator  
Division of Water  
4th Floor  
625 Broadway  
Albany, New York 12233-3505