

Hudson Valley Community College Stormwater Management Plan

The New York State Department of Environmental Conservation (DEC) has issued a permit to Hudson Valley Community College that allows us to discharge storm water on campus property to the municipal storm water system. Under the terms of the permit, the College is required to develop and implement a storm water management program. This program is designed to reduce the discharge of pollutants to the storm water system to the maximum extent practical to protect water quality.

As per the terms of our permit, the College has implemented six stormwater control measures. Progress in each element must be demonstrated on an annual basis through completion of measurable goals. The DEC monitors compliance through our annual report due to the DEC by June 1 of each year of the permit, starting in 2004.

The elements of the program are:

1. Education & Outreach
2. Campus Involvement & Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post-Construction Storm Water Management
6. Pollution Prevention & Good Housekeeping

Education & Outreach

The College conducts ongoing campus education and outreach program to make all students, faculty, staff and visitors using our facilities aware of storm water issues and precautions they may take to avoid polluting storm water.

The steps in implementing education and outreach are:

1. Information brochure: the intent of the brochure is to introduce campus constituents to the basic principles of storm water management, with specific guidelines on what the campus community can do to contribute to storm water management.

The brochure is disseminated by placing in campus buildings, providing as a handout at all training classes and storm water educational events, and including this information in other special event on campus.

2. Internet: A stormwater management webpage specific to HVCC has been developed and posted on the campus website. This provides more in-depth analysis of the issues surrounding storm water with specific reference to HVCC control measures and information about construction projects on campus.

All announcements regarding stormwater issues where public participation and comment are requested (such as the annual report and construction project SWPPPs) will be posted to this page.

3. Training and Outreach: formal training is conducted during new employee safety orientation training which includes the following topics:
 - a. What is stormwater and impact on natural waters
 - b. Common pollutants and their sources
 - c. Corrective action measures
 - d. Review procedures for reporting storm water problems on campus
 - e. Where to go for more information
4. Additional formal training program is provided to staff who work in departments where their activities directly affect stormwater: Grounds, Maintenance, Automotive and any other departments that have bulk petroleum storage. Staff in these departments received annual classroom training on oil spill prevention and control measures and stormwater management.
5. Records of formal training will be kept the College Banner training database.

Campus Community Involvement & Participation

Participation of key individuals on campus is critical to the successful implementation of the program. Participation is fostered through the following means:

1. The Physical Plant work order system and main phone number serves as the “stormwater hotline” The campus is instructed to call Physical Plant or place a work order if they see an area needing stormwater management controls.

The Director of Physical Plant has responsibility for the construction, maintenance and operation of all campus buildings and therefore can initiate and direct storm water management practices and improvements in a number of critical areas such as construction and renovation projects, grounds management, and campus master planning. The Director is well established and respected within the campus community and the Physical Plant Department is established as a resource for students, staff and faculty on facility related issues; therefore the campus community is accustomed to this line of communication.

2. The College has designated the Director of Environmental Health and Safety (EHS) as the primary storm water contact person. The Director has the authority and ability to recommend appropriate storm water initiatives and practices and oversees the Colleges Stormwater Management Program. All training is coordinated by the EHS Director as well as other projects that involve students in

storm water management. The EHS Director and Physical Plant Director work in close coordination on all stormwater management elements.

Illicit Discharge Detection and Elimination

1. The College has designated the Director of Environmental Health & Safety as the Stormwater Management Officer. A “Policy to Prohibit Discharges, Activities and Connections to the Separate Stormwater Sewer System” has been developed and adopted by the College. The Policy is posted on the website: <https://www.hvcc.edu/ehs/environmental/stormwaterreports/illicit-policy.pdf>
2. At the start of the College’s Stormwater Management Program in 2004, the Physical Plant department undertook a review of the existing building drainage system to check all connections for sanitary, roof, sink and floor drains. Suspect areas were investigated further. As a result of this review, potential problems were identified and corrected in 2005. Physical Plant continues a program to review and identify any illicit connections. For further information go to: <https://www.hvcc.edu/ehs/environmental/stormwater.html#system>

Construction Site Runoff Control

1. Soil and erosion control from construction activity is managed through policies and procedures developed by the college and incorporated by reference into contractor specifications. In addition, all construction projects that will disturb one or more acres of land must have in place a Stormwater Pollution Prevention Plan (SWPPP), specific to that construction project. The SWPPP must meet the requirements of the college’s Separate Storm Sewer System (MS4) Phase II Permit and the stormwater management requirements of the National Pollutant Discharge Elimination System regulations, administered by New York State through the State Pollutant Discharge Elimination System regulations.
2. The college has developed a “General Contractor Policy, Stormwater Management and Erosion & Sediment Control”
<https://www.hvcc.edu/ehs/environmental/stormwaterreports/contractor-spec.pdf>
This Policy establishes procedures for the implementation of erosion and sedimentation controls on all projects conducted at Hudson Valley Community College in accordance with the College’s Permit and the stormwater management requirements of the National Pollutant Discharge Elimination System (NPDES) regulations.

This includes the development of a SWPPP for any project disturbing more than one acre of land and subsequent third party inspections during the project to ensure compliance. All SWPPPs are posted on the HVCC stormwater webpage for comment by the campus community:

<https://www.hvcc.edu/ehs/environmental/stormwater.html#construction>

Post Construction Storm Water Management

Projects performed under a SPDES Construction General Permit, are required to include post-construction BMPs as part of the SWPPP. Post-construction BMPs are those that control pollutants in storm water after construction is complete and before “final stabilization.” Final stabilization means all soil disturbing activities have been completed and a uniform perennial vegetative cover has been established, or equivalent permanent stabilization measures (such as use of mulch, rip rap, gabions, or geotextiles) have been employed with a density of 80% of the previously existing background cover for unpaved areas and areas not covered by permanent structures

1. Unlike traditional MS4s, HVCC, as a non-traditional MS4, has direct control over planning, design, construction and post construction operation of post construction BMPs. The HVCC Construction Project Manager works with contracted architects and engineers to ensure that each project includes appropriate post construction controls. The Director of Physical Plant is then responsible for ensuring that such controls are inspected and maintained according to the design specifications. For a current list of stormwater controls maintained see the Physical Plant electronic files, “Inspections”, “Stormwater”.
2. Conceptual planning and design development of future post-construction storm water BMPs is coordinated by the HVCC Construction Project Manager and will incorporate concepts from the NYS Stormwater Design Manual and other sources.

Pollution Prevention & Good Housekeeping

HVCC has reviewed all campus operations that may impact stormwater quality and where necessary, has developed and implemented an operation and maintenance program in the form of department best management practices (BMPs) to reduce and prevent the discharge of pollutants to the stormwater system.

1. The HVCC departments included in the Operations and Maintenance BMPs are: Maintenance, Grounds, Automotive and the food service facilities. BMPs for each department, which include their stormwater BMPs can be viewed at: <https://www.hvcc.edu/ehs/environmental/bmp/index.html> Staff in all departments were trained on BMPs when first established. BMPs are updated as needed and reviewed with staff when there are changes or new employees.
2. The Director of Physical Plant keeps operational practices tracked on the work order system. Annual PM work orders are issued for street and parking lot sweeping, inspection of storm control systems, oil water separators and inspection of catch basins are tracked on this system.