

# 2009 STORMWATER MANAGEMENT ANNUAL REPORT

Permit Number: MAR004027; MADEP # W040327

Bridgewater State College

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In compliance with Part II, F, Reporting, of the National Pollutant Discharge Elimination System (NPDES) permit for Storm Water Discharges, Bridgewater State College is required to report annually on its compliance with the permit.

## Assessment/Summary of BMP's

### BMP 1-1 Public Education – Education Materials

Giving faculty and staff information about Storm water Management is a certain way to reduce the amount of pollutants into the storm water system.

An email sent in BSC's daily Community Announcement to all faculty and staff members entitled "Guide to Understanding Storm Water". The educational material that was used is a brochure published by the EPA. Another distribution will be completed in the fall for new and returning faculty and staff members to discuss storm water management.

### BMP 2-2 Public Participation – Storm drain Stenciling

Clearly marking the locations of storm drains will raise awareness on storm water issues.

All storm drains on campus have been stenciled with "no dumping drains to river." The drains will be reviewed to see if the stencils have come off and will be repainted where required. A review all of markings will take place this summer areas that have worn away will be re-stenciled.

### BMP 4-3 Construction Site Runoff Control

Developing a construction site erosion and runoff plan, complete with erosion plans will reduce the amount of sediments and pollutants that enter the storm water system.

The college is presently constructing an addition and renovation to the Marshall Conant Science Building. This construction activity is currently scheduled to be completed by mid August 2012.

The site is surrounded by a temporary chain link fence and all trees to be protected hay bales and marked with brightly colored ribbon. BSC will be protecting natural features of the surrounding area.

Topsoil stripped from the immediate construction area will not be stockpiled on site. In certain short term instances where material must be kept on site the slop of the stockpile will be roughened by equipment tracking and will not exceed 2:1 to prevent erosion.

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To minimize erosion from storm water flowing onto the site silt fences are installed along the perimeter of exposed soils. There is no storm water expected to flow through the site as it is depressed from the surrounding areas. Existing storm drain will be protected from sediment by hay bales.

A NPDES General Permit No MAG070341; Dewater at Conant Science Building, Bridgewater State College has been obtained. The permit allows Bridgewater State College, thru the Division of Capital and Asset Management to discharge into the Town River, a Class B water body as designated by the Massachusetts Department of Environmental Protection. The facility is complying with all of the applicable requirements of the DGP such as effluent monitoring, narrative water quality standards, record keeping and reporting requirements. The DPG and authorization to discharge under it expires on September 30, 2013, unless otherwise provided for in Part 6.2 of the DGP.

Inlets are protected with the installation of silt fences or straw bales around the inlet as specified. Erosion control measures are established at the beginning of the construction and maintained during the entire period of construction. All land-disturbing activities are to be planned and conducted so as to minimize off-site sedimentation damage.

Permanent seeding will be applied immediately after the final design grades are achieved on the site after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated will be removed and hauled off-site for disposal. Construction debris, trash and temporary BMPs (including silt fences, material storage areas, and sanitary toilets) will also be removed and any areas disturbed during removal will be seeded immediately.

#### BMP 5-4 Post Construction Runoff Control

Develop a policy on post construction runoff. It is the responsibility of the MS4 to require that any program which includes projects less than one acre if the project is part of a larger common plan of development which disturbs greater than one acre.

A post construction runoff control plan has been developed by BSC and the contractor. Prefabricated infiltration chambers will capture clean roof runoff, and gradually infiltrate it into the ground water through a bed of sand below and around the chambers. The infiltration system will be inspected weekly and after major storm events during construction. The area will be checked for signs of erosion seepage, and structural damage. Erosion, seepage and structural damage will be repaired immediately. Following completion of site construction and final stabilization, maintenance and inspection responsibilities will be taken over by BSC personnel.

#### BMP 6-5 Municipal Good Housekeeping – Yearly lot Sweeping

Yearly parking lot sweeping goal occurs yearly thereby preventing pollutant runoff from sand throwing during the winter months.

Yearly parking lot sweeping does occur at BSC.

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BMP 6-6 Municipal Good Housekeeping – Used Motor Oil Recycled  
Used Motor Oil Recycled.

The motor oil is sent thru Clean Harbors to accomplish this goal.

MP 6-7 Municipal Good Housekeeping – Catch Basins Cleaned on a Yearly Basis  
Catch Basins Cleaned on a yearly basis.

This goal has been met and prevents and/or pollutant runoff from this MS4.

BMP 6-8 Municipal Good Housekeeping – Training Employees  
Training Employees in the proper spill clean up.

Training housekeeping and maintenance staff in proper spill cleanup will reduce the effects of any spill to a storm water system; this is discussed on a yearly basis with all current and new employees.

Training is conducted with contractors on site where the construction activities area taking place. The employee training consisted of bi-weekly tailgate. SWPPP items and concerns are discussed with all sub-contractors and all site personnel at weekly meetings and addressed thoroughly with site contractor at pre-construction meetings.

BMP 6-9 Municipal Good Housekeeping - Spill Response & Prevention  
Spill Response & Prevention

The Spill prevention and counters measures plan the SPCC will be reviewed by TRC Environmental Corporation; due to changes at the facility. The employees will review and be trained on the SPCC Plan.

### Activities for next reporting cycle

Bridgewater State College is in compliance with the permit conditions due to the fact that the BMP's are being completed and in a timely manner when they are required. The BMP's are appropriate for Bridgewater State College which is a MS4. The efforts towards achieving the defined measurable goals are occurring and no changes are necessary.

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During the next reporting cycle Bridgewater State College will once again incorporate public education and outreach into its storm water management program. The college will send out education materials to all of the college community in regards to storm water management. The material will assist in the knowledge so to reduce the pollutants in storm water runoff. A written policy and procedure will be developed for each individual construction project on erosion and sediment control, along with a policy for post construction run off that would affect stormwater. All of the municipal good housekeeping issues will again be completed in the next reporting cycle. Identification and mapping of storm water outfall will occur during the next reporting period. A creation and implementation of an Illicit Discharge Detection and Elimination Program will also occur during the next reporting cycle. There will be no changes in any identified BMP or measurable goals in the next reporting cycle.