

June 2020

STORMWATER POLLUTION PREVENTION PLAN

For

BRIDGEWATER STATE UNIVERSITY

SECTION 5: INSPECTION AND CORRECTIVE ACTION..... 19

5.1 Inspection Personnel and Procedures 19

5.2 Corrective Action..... 19

5.3 Delegation of Authority 19

SECTION 6: TRAINING LOG.....21

SECTION 7: CERTIFICATION AND NOTIFICATION.....22

SWPPP ATTACHMENTS.....23

SECTION 1: POLLUTION PREVENTION TEAM

1.1 Staff

Maintenance Manager

Responsibilities:

Maintenance Manager shall maintain the Stormwater Pollution Prevention Plan (SWPPP) documentation and will conduct and document self-inspections once every 14 days and within 24 hours of a storm event 0.25" or greater.

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Phil Laliberte, Building Maintenance Supervisor

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SECTION 2: SITE DESCRIPTION, POTENTIAL POLLUTANT ASSESSMENT, AND PLANNING

2.1 Site Information

The BSU Operations Center houses the following:

- Electrical, plumbing, HVAC
- Small equipment, signage, and tools
- Grounds operations materials and equipment
- Latex paint, spray paint, and similar products
- Maintenance foreman
- Trade Shop
- Administration
- Transportation
- Recycling
- Environmental Health and Safety
- Central receiving and inventory management
- Vehicle maintenance

This building and associated garage is fully enclosed. These products are properly stored in flammable materials storage cabinets.

Storage of Deicing Materials

Facility: BSU Operations Center

Road salt at BSU are stored in two side by side covered storage areas. The good housekeeping measure used to minimize the exposure resulting for adding to or removing stored materials include sweeping the area regularly or when salt has accumulated on the paved surface.

Storage of Road Deicing Equipment

Facility: BSU Operations Center

BSU utilizes a number of salt spreaders and snow plows on its vehicles to adequately maintain roads. Snow plows are stored in the parking garage in the off season and are housed at the operations center in the winter portion of the property. The equipment is suspended off the ground so that can easily be cleaned, inspected, and maintained, but is protected from the elements. The equipment is covered by a roof, but is open on all sides so that plow trucks and other vehicles can easily attach the devices.

Administrative Buildings

Facility: BSU Operations Center and Boyden Hall

The BSU Administrative offices for campus operations are located at the north portion of the site. This building includes administrative space, office space and materials storage.

Fuel Island

Facility: BSU Operations Center

An island containing two fuel pumps, one for diesel and one for unleaded gasoline is located on the site, and is used on a 24-hour basis for fueling of all BSU vehicles. The fuel pumps are connected to two 5,000 gallon tanks. The island is not covered, Access to these fuel pumps is restricted by key card. The location of the fuel island is such that all users are visible to personnel at all buildings at the Operations Center.

Solid Waste Management

Facility: BSU Operations Center

BSU maintains dumpsters at the east portion of the site. These dumpsters are kept closed when not in use. No inappropriate materials were observed during the facility inspection.

Parking Areas

Facility: BSU Operations Center

There are several designated parking areas at the BSU Operations Center, each of which is an impervious surface. These parking lots are used primarily for visitors to Operations Center BSU-owned cars for daily use by Operations Center employees, and employees' personal vehicles and BSU owned trucks and buses.

2.5 Site Drainage Summary

BSU "Tree Farm"

The area surrounding the BSU Staging Area / Maintenance Yard is comprised mainly of open pervious area. There are several unpaved driveways that loop through the site and grass cover over much of the rest of the site. There are several small outbuildings and concrete pads and the site is surrounded by forested area. There is no structural stormwater system on the site. All stormwater infiltrates or sheet flows off the site.

BSU Operations Center

The area surrounding the BSU Operations Center is comprised mainly of impervious areas including parking lots and building roofs. Surface stormwater runoff drains to catch basins positioned at low points throughout the parking areas. Stormwater from these catch basins is then discharged to a bioretention basin to the south of the site. This basin ultimately discharges to the wetlands southeast of the site.

2.6 Potential Pollutant Sources

BSU "Tree Farm"

Potential sources of sediment to stormwater runoff:

- Material stockpiles
- Clearing and grubbing operations
- Grading and excavation
- Topsoil stripping
- Landscape operations

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Antifreeze/coolant

SECTION 3: STORMWATER CONTROL MEASURES

Section 3 of this document describes the stormwater controls that exist and will be implemented throughout the sites. The operator must install/implement and maintain all stormwater controls in compliance with the campus MS4 and the Campus Standard Operating Procedures Manual.

The stormwater controls shall be designed and installed in accordance with good engineering practices and applicable design specifications. BSU Standard Operating Procedures for Erosion and Sediment control are provided under a separate cover titled, "Erosion and Sediment Control". The options in section 3 listed below are a number of stormwater controls that may be used. Some or All may be used onsite depending on the activity that is going on at the time.

3.1 Minimize or Prevent Exposure

To the extent practicable, materials and activities shall be located inside or protected with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff, without a significant enlargement of impervious surface area. Materials do not need to be enclosed or covered if stormwater runoff from affected areas will not be discharged directly or indirectly to surface waters or to the MS4 or if discharges are authorized under another NPDES permit.

3.2 Good Housekeeping

All exposed areas that are potential sources of pollutants shall be kept clean using measures such as sweeping at regular intervals. Trash containers shall be closed when not in use. Storage areas shall be well swept and free of leaking or damaged containers. Leaking vehicles in need of repair shall be stored indoors.

Specific Good Housekeeping Controls

Housekeeping Control # 1

- BMP Description: Street Sweeping.
- Schedule: Refer to the Street Sweeping plan in the Operations and Maintenance Manual
- Inspection Schedule: The areas adjacent to the site should be inspected daily to determine if street sweeping is required.
- Responsible Staff: Shared responsibility between BSU and Town of Bridgewater. BSU Responsible staff is Maintenance Manager and Site Maintenance Team

3.3 Preventative Maintenance

All equipment and systems shall be regularly inspected, tested, maintained, and repaired to avoid situations that may result in leaks, spills, and other releases of pollutants in stormwater to receiving waters. Inspections shall occur at a minimum of once per quarter.

3.4 Erosion and Sediment Control

Structural and non-structural control measures shall be used at the site to stabilize and contain runoff from exposed areas and to minimize or eliminate onsite erosion and sedimentation. Efforts to achieve this may include the use of flow velocity dissipation devices at discharge locations within outfall channels where necessary to reduce erosion.

Erosion and Sediment Control # 1

- BMP Description: Perimeter Controls
- Inspection Schedule: Once every 14 days and within 24 hours of a storm event
0.25" or greater.
- Maintenance: Ensure that all stormwater controls remain in effective condition.
Remove any sediment before it has accumulated to one-half of the above-ground height of any perimeter control.
- Responsible Staff: Maintenance Manager and Site Maintenance Team
Member(s).

Erosion and Sediment Control # 2

- BMP Description: Check Dam
- Inspection Schedule: Once every 14 days and within 24 hours of a storm event
0.25" or greater.
- Maintenance: Ensure that all stormwater controls remain in effective condition.
- Responsible Staff: Maintenance Manager and Site Maintenance Team
Member(s).

Erosion and Sediment Control # 3

- BMP Description: Sediment Trap
- Inspection Schedule: Once every 14 days and within 24 hours of a storm event
0.25" or greater.
- Maintenance: Ensure that all stormwater controls remain in effective condition.
- Responsible Staff: Maintenance Manager and Site Maintenance Team
Member(s).

Erosion and Sediment Control # 4

- BMP Description: Rip Rap
- Inspection Schedule: Once every 14 days and within 24 hours of a storm event
0.25" or greater.
- Maintenance: Ensure that all stormwater controls remain in effective condition.
- Responsible Staff: Maintenance Manager and Site Maintenance Team
Member(s).

3.5 Management of Runoff

Stormwater runoff from the site shall be managed in order to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, containing runoff in such areas, or reuse, infiltration or treatment of stormwater to reduce the discharge of pollutants

3.6 Stockpiles and Salt Storage Piles

Stockpiles and salt storage pile shall be enclosed or covered to prevent exposure to precipitation. Piles shall be enclosed or covered within two (2) years of the permit effective date. Appropriate measures shall be implemented to minimize exposure resulting from adding to or removing materials from the pile. Piles shall be stored in such a manner as to not impact surface water resources, ground water resources, recharge areas and wells.

Specific Stockpile Controls

Stockpile Control # 1

- BMP Description: Perimeter Protection
- Installation Schedule: Immediately after stockpile is established.
- Inspection Schedule: Once every 14 days and within 24 hours of a storm event 0.25" or greater.
- Maintenance: Ensure that all stormwater controls remain in effective condition. Remove any sediment before it has accumulated to one-half of the above-ground height of any perimeter control.
- Responsible Staff: Maintenance Manager and Site Maintenance Team Member(s).

Stockpile Control # 2x BMP Description:

3.7 Employee Training

Training shall be provided regularly for employees who work in areas where materials or activities are exposed to stormwater or who are responsible for activities identified in this document including all members of the Pollution Prevention team. Training shall cover both specific components and scope of this document and the control measures required as described earlier in this section. The date, title and duration of the training, a list of attendees and subject covered during the training shall be documented.

3.8 Maintenance of Control Measures

All control measures required by this permit shall be maintained in effective operating condition. Documentation shall be kept onsite that describes procedures and a regular schedule for preventative maintenance of all control measures and discussions of back-up practices in place should a runoff event occur while a control measure is off-line. Nonstructural control measures shall also be diligently maintained.

SECTION 4: POLLUTION PREVENTION STANDARDS

4.1 Spill Prevention and Response

Refer to the Spill Prevention Control and Countermeasure (SPCC) Plan dated November 2007 prepared by TRC Environmental Corporation (see Appendix) that is currently in place for BSU.

4.2 Fueling and Maintenance of Equipment or Vehicles

Minor vehicle and equipment emergency maintenance can be performed onsite away from drainage structures. Major vehicle and equipment maintenance must be performed offsite. Equipment/vehicle storage areas and any onsite fuel tanks will be inspected weekly and after storm events. Equipment and vehicles will be inspected for leaks, equipment damage, and other service problems on each day of use. Any leaks will be repaired immediately, or the equipment/vehicle will be removed from the site.

Minor vehicle and equipment emergency maintenance shall occur when a vehicle cannot be safely removed from the site. The vehicle should be repaired so it can be taken off-site so that the rest of the maintenance can occur.

Major vehicle maintenance onsite is prohibited. Re-fueling or maintenance of vehicles within 25 feet of a drainage structure shall be prohibited. Drip pans, drip cloths, or absorbent pads should be used when replacing spent fluids. The fluids should be collected and stored prior to being disposed of offsite.

Specific Pollution Prevention Practice #1

- BMP Description: Spill Kit.
- Installation Schedule: Keep onsite
- Responsible Staff: Maintenance Manager and Site Maintenance Team Member.

Specific Pollution Prevention Practice #2

- BMP Description: Drip Pans, Drip Cloths, Absorbent Pads.
- Installation Schedule: Keep onsite
- Responsible Staff: Maintenance Manager and Site Maintenance Team Member.

Specific Pollution Prevention Practices

Pollution Prevention Practice # 1

- BMP Description: Designated vehicle/equipment washing areas
- Inspection Schedule: Once every 14days and within 24 hours of a storm event
0.25" or greater.
- Responsible Staff: Maintenance Manager and Site Maintenance Team Member

Pollution Prevention Practice # 2

- BMP Description: Spill k. nl wit:u6() Td()T(M)-3.2 (P)-3.6 1.74 0.7888wit (P)-3.6 nl wiraw ba
x Inspection Schedule:
0.9 (e)-4.d(14)-4 0.004 Tw s 5@ Tc 0 Tw614.8 lte

- BMP Description: Litter/debris pick-up.
- Installation Schedule: Start of construction.
- Maintenance and Inspection: Daily.
- Responsible Staff: Maintenance Manager and Site Maintenance Team Member(s).

4.5 Washing of Applicators and Containers used for Paint, Concrete, or Other Materials

Washing of applicators and containers used for paint, concrete, or other materials shall follow the following good housekeeping BMPs:

- An effective means of eliminating the discharge of water from the washout and cleanout of stucco, paint, concrete, form release oils, curing compounds, and other construction materials.
- All washwater must be directed into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.
- Washout and cleanout wastes should be handled as follows:
 - Do not dump liquid wastes into storm sewers.
 - Dispose of liquid wastes in accordance with applicable requirements.
 - Remove and dispose of hardened concrete waste consistent with the handling of other construction wastes.
- Locate any washout or cleanout activities as far away as possible from surface waters and stormwater inlets or conveyances, and to the extent practicable, designate areas to be used for these activities and conduct such activities only in these areas.

Pollution Prevention Practice # 1

- BMP Description: Designated applicator and container washing areas.
- Maintenance and Inspection: Daily.
- Responsible Staff: Maintenance Manager and Site Maintenance Team Member(s).

SECTION 5: INSPECTION AND CORRECTIVE ACTION

5.1 Inspection Personnel and Procedures

Personnel Responsible for Inspections

Maintenance Manager
Patricia Delaney

Inspection Schedule

Specific Inspection Frequency

The contractor shall inspect and maintain erosion control measures, and remove sediment therefrom, Once every 14 days and within 24 hours of a storm event 0.25" or greater.

Rain Gauge Location:

Name: Bridgewater, Massachusetts, USA*

Station name: BRIDGEWATER

Site ID: 19-0840

Latitude: 41.9836°

Longitude: -70.9655°

Elevation: 40 ft

Inspection Report Forms

Copies of inspection reports are in Attachment C.

5.2 Corrective Action

Personnel Responsible for Corrective Actions

Contact Person, Maintenance Manager Company

Contact Person, Site Maintenance Team Member

Corrective Action Forms

A copy of the Corrective Action Form is in Attachment D.

5.3 Delegation of Authority

Duly Authorized Representative(s) or Position(s):

Maintenance Manager

Patricia Delaney

Assistant Director, EH&S Officer

508-531-2751

pdelaney@bridgew.edu

SECTION 7: CERTIFICATION AND NOTIFICATION

Operator

Attachment A – Site Maps

Attachment B – Inspection Form

Attachment C – Corrective Action Form

Attachment E – Grading and Stabilization Activities Log

Date Grading Activity Initiated	Description of Grading Activity	Description of Stabilization Measure and Loc.5 (i)5 345.42ri45.(i)-1 (n).5 (p)2.756Tw 15in34 (a)2.B g0481.00 -0 Tw 15 -015 48.42
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Attachment F –

Stormwater Pollution Prevention Training Log

Project Name:

Project Location:

Instructor's Name(s):

Instructor's Title(s):

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: (check as appropriate)

**Sediment and Erosion
Controls**

