

**Stormwater Pollution Prevention Plan
(SWPPP) for: University of New Hampshire**

EPA NPDES Permit Number NHR041000

Stormwater Pollution Prevention Plan
for
11 Leavitt Lane (Haz Storage 1)

Facility Name: Haz Storage 1

Facility Address: 11 Leavitt Lane, Durham, NH 03824

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager
Dave Bowley
UNH Facilities
603-862-0647
dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician
Glen Tuttle
UNH Facilities
603-862-1387
glen.tuttle@unh.edu

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Section 3: Site Description

The University of New Hampshire Hazardous Waste Storage 1 is located at 11 Leavitt Lane. The facility includes a gated storage yard and an enclosed storage building. The facility is not open to the public.

A map of the facility is included as Attachment 1 of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Waste Petroleum Products	Waste Petroleum Products
2	Chemical storage areas	

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Vehicles will be washed using indoor facilities, and wash water shall be collected and discharged to the treatment system instead of entering the stormwater drainage system;
- Vehicle maintenance and fluid changing will occur in covered facilities;
- Best practices for salt storage, spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.

The following list describes good housekeeping practices followed at this facility:

- The facility shall be swept at least annually, or more as-needed, to minimize sediment and

- associated pollutants from entering the stormwater drainage system;
- Spillage of chemicals or sewage will be promptly cleaned and reported as required;
- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;
- Outdoor storage areas will be regularly swept and kept free of leaking or damaged containers.

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur.* See Section 2.3.7.2 (iv) in the MS4 permit for additional details.

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;
- Outdoor drum and storage tank containment areas are checked for leaks;
- Above ground storage tanks are inspected regularly for signs of corrosion or leaks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.*

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: *The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.*

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a [detention/retention basin, vegetated swale, infiltration basin, etc.]
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

Permit Language: *For storage piles of salt or piles containing salt used for deicing or other purposes (including maintenance of paved surfaces) for which the discharge during precipitation events discharges to the permittee's MS4, any other MS4 or to a Water of the United States, the permittee shall prevent exposure of the storage pile to precipitation by enclosing or covering the storage piles. Such piles shall be enclosed or covered within two (2) years of the permit effective date. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. The permittee is encouraged to store piles in such a manner as not to impact surface water resources, ground water resources, recharge areas, and wells.*

This facility does not store any salt stockpiles.

Section 4.8: Employee Training

Permit Language: *The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.*

Key staff will be regularly trained on stormwater related topics such as: [revise list as necessary] stormwater system maintenance practices, salt storage and handling procedures, spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: *The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
- This SWPPP will be supplemented by on-site documentation describing maintenance procedures and a schedule outlining preventative maintenance of all control measures;
- University of New Hampshire will work to develop backup procedures and practices in case a runoff event occurs while a control measure is offline.

Section 5.0: Inspection and Record Keeping

Section 5.1: Site Inspections

University of New Hampshire will conduct quarterly (Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec) inspections of the facility that will cover all areas exposed to stormwater, and all stormwater control measures. At least one of the inspections during a period when stormwater discharge is occurring. Additional inspections will occur on an as-needed basis if significant activities are exposed to stormwater. The inspections will contain the information included in Attachment 2, an example site inspection form.

If control measures are discovered to need repair or be ineffective, whether as part of a routine inspection or otherwise, University of New Hampshire will repair or replace them as soon as practicable, and preferably before the next storm event.

Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment 1: Facility site map identifying key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.



Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.

Stormwater Pollution Prevention Plan
for
#21 Combined Heat and Power Plant

Facility Name: Combined Heat and Power Plant

Facility Address: 2 Library Way, Durham, NH

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager

Dave Bowley

UNH Facilities

603-862-0647

dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician

Glen Tuttle

UNH Facilities

603-862-1387

glen.tuttle@unh.edu

Director of Energy and Utilities

Matt O'Keefe

UNH Facilities

603-862-1276

matt.okeefe@unh.edu

Section 3: Site Description

The University of New Hampshire Combined Heat & Power Facility is located at 2 Library Way, Durham, NH. The facility includes an operations/maintenance building, boiler room, power plant, high voltage switchgear, emergency generators, a gated equipment yard, and an employee parking area. The facility is not open to the public. This building houses equipment to generate power and steam for University purposes.

A map of the facility is included as Attachment 1 of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Water Treatment	Water treatment chemicals
2	Combustion engines	Diesel oil
3	Parts Cleaning	Waste oil
4	Employee	Motor oil
5	Haz Materials storage	Cleaners/solvents

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Best practices for salt storage, spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.

The following list describes good housekeeping practices followed at this facility:

- Waste oil stored in drums outside are kept closed except when actively in use;
- The facility shall be swept at least annually, or more as-needed, to minimize sediment and associated pollutants from entering the stormwater drainage system;
- Spillage of chemicals or sewage will be promptly cleaned and reported as required;
- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;
- Leaking vehicles needing repair will be stored indoors;
- Outdoor storage areas will be regularly swept and kept free of leaking or damaged containers.

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- Hydraulic equipment is kept in good repair to minimize leaks;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur.* See Section 2.3.7.2 (iv) in the MS4 permit for additional details.

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;
- Outdoor drum and storage tank containment areas are checked for leaks;
- Above ground storage tanks are inspected regularly for signs of corrosion or leaks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.*

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: *The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.*

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a [detention/retention basin, vegetated swale, infiltration basin, etc.]
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

This facility stores no salt stockpiles.

Section 4.8: Employee Training

Permit Language: *The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.*

Key staff will be regularly trained on stormwater related topics such as: [revise list as necessary] stormwater system maintenance practices, salt storage and handling procedures, spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: *The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).*

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
- This SWPPP will be supplemented by on-site documentation describing maintenance procedures and a schedule outlining preventative maintenance of all control measures;

- University of New Hampshire will work to develop backup procedures and practices in case a runoff event occurs while a control measure is offline.

Section 5.0: Inspection and Record Keeping

Section 5.1: Site Inspections

University of New Hampshire will conduct quarterly (Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec) inspections of the facility that will cover all areas exposed to stormwater, and all stormwater control measures. At least one of the inspections during a period when stormwater discharge is occurring. Additional inspections will occur on an as-needed basis if significant activities are exposed to stormwater. The inspections will contain the information included in Attachment 2, an example site inspection form.

If control measures are discovered to need repair or be ineffective, whether as part of a routine inspection or otherwise, University of New Hampshire will repair or replace them as soon as practicable, and preferably before the next storm event.

Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.

Stormwater Pollution Prevention Plan
for
#67 Farm Services Machinery Bldg

Facility Name: Farm Services Machinery Bldg

Facility Address: 287 Mast Road, Durham, NH

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager
Dave Bowley
UNH Facilities
603-862-0647
dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician
Glen Tuttle
UNH Facilities
603-862-1387
glen.tuttle@unh.edu

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Section 3: Site Description

The University of New Hampshire Farm Services Machinery Bldg is located at 287 Mast Road, Durham, NH. The facility includes a maintenance building, employee restroom facilities, motor oil and a waste storage area. The facility is not open to the public. It is where farm machinery and supporting equipment and support materials is stored.

A map of the facility is included as Attachment 1 of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Vehicle Maintenance	Waste Oil;
2	Haz Waste Storage	
3	Equipment Fueling	Diesel Fuel

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Vehicle maintenance and fluid changing will occur in covered facilities;
- Best practices for salt storage, spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.

The following list describes good housekeeping practices followed at this facility:

- Waste oil stored in drums outside are kept closed except when actively in use;

- The facility shall be swept at least annually, or more as-needed, to minimize sediment and associated pollutants from entering the stormwater drainage system;
- Used antifreeze is kept in a covered container;
- Spillage of chemicals or sewage will be promptly cleaned and reported as required;
- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;
- Leaking vehicles needing repair will be stored indoors;
- Outdoor storage areas will be regularly swept and kept free of leaking or damaged containers.

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- Hydraulic equipment is kept in good repair to minimize leaks;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur.* See Section 2.3.7.2 (iv) in the MS4 permit for additional details.

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;
- Outdoor drum and storage tank containment areas are checked for leaks;
- Above ground storage tanks are inspected regularly for signs of corrosion or leaks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.*

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: *The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.*

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a [detention/retention basin, vegetated swale, infiltration basin, etc.]
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

Permit Language: *For storage piles of salt or piles containing salt used for deicing or other purposes (including maintenance of paved surfaces) for which the discharge during precipitation events discharges to the permittee's MS4, any other MS4 or to a Water of the United States, the permittee shall prevent exposure of the storage pile to precipitation by enclosing or covering the storage piles. Such piles shall be enclosed or covered within two (2) years of the permit effective date. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. The permittee is encouraged to store piles in such a manner as not to impact surface water resources, ground water resources, recharge areas, and wells.*

This facility stores no salt stockpiles.

Section 4.8: Employee Training

Permit Language: *The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.*

Key staff will be regularly trained on stormwater related topics such as: [revise list as necessary] stormwater system maintenance practices, salt storage and handling procedures, spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: *The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
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Section 5.1: Site Inspections

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Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.

Stormwater Pollution Prevention Plan
for
#69 Holloway Commons

Facility Name: _____ Holloway Commons _____

Facility Address: _____ 75 Main Street, Durham, NH _____

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager
Dave Bowley
UNH Facilities
603-862-0647
dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician
Glen Tuttle
UNH Facilities
603-862-1387
glen.tuttle@unh.edu

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Section 3: Site Description

Holloway Commons is a multi-level dining, catering, meeting space and administrative offices building serving The University of New Hampshire located at 75 Main St, Durham, NH. The facility includes kitchen and food prep facilities, dining and food service areas, meeting rooms, and administration offices. a dumpster/recycling area. The facility is open to the public.

A map of the facility is included as Attachment 1 of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Pot & Dish Washing	Detergents
2	Cooking Oil Storage	Waste cooking oil
3	Trash/Recycling	

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Best practices for spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.

The following list describes good housekeeping practices followed at this facility:

- Waste oil stored in drums outside are kept closed except when actively in use;
- The facility shall be swept at least annually, or more as-needed, to minimize sediment and

- associated pollutants from entering the stormwater drainage system;
- Spillage of chemicals or sewage will be promptly cleaned and reported as required;
- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- Hydraulic equipment is kept in good repair to minimize leaks;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur.* See Section 2.3.7.2 (iv) in the MS4 permit for additional details.

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;
- Outdoor drum and storage tank containment areas are checked for leaks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.*

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: *The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.*

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a [detention/retention basin, vegetated swale, infiltration basin, etc.]
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

Permit Language: For storage piles of salt or piles containing salt used for deicing or other purposes (including maintenance of paved surfaces) for which the discharge during precipitation events discharges to the permittee's MS4, any other MS4 or to a Water of the United States, the permittee shall prevent exposure of the storage pile to precipitation by enclosing or covering the storage piles. Such piles shall be enclosed or covered within two (2) years of the permit effective date. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. The permittee is encouraged to store piles in such a manner as not to impact surface water resources, ground water resources, recharge areas, and wells.

This facility stores no salt stockpiles.

Section 4.8: Employee Training

Permit Language: The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.

Key staff will be regularly trained on stormwater related topics such as: [revise list as necessary] stormwater system maintenance practices, salt storage and handling procedures, spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
- This SWPPP will be supplemented by on-site documentation describing maintenance procedures and a schedule outlining preventative maintenance of all control measures;
- University of New Hampshire will work to develop backup procedures and practices in case a runoff event occurs while a control measure is offline.

Section 5.0: Inspection and Record Keeping

Section 5.1: Site Inspections

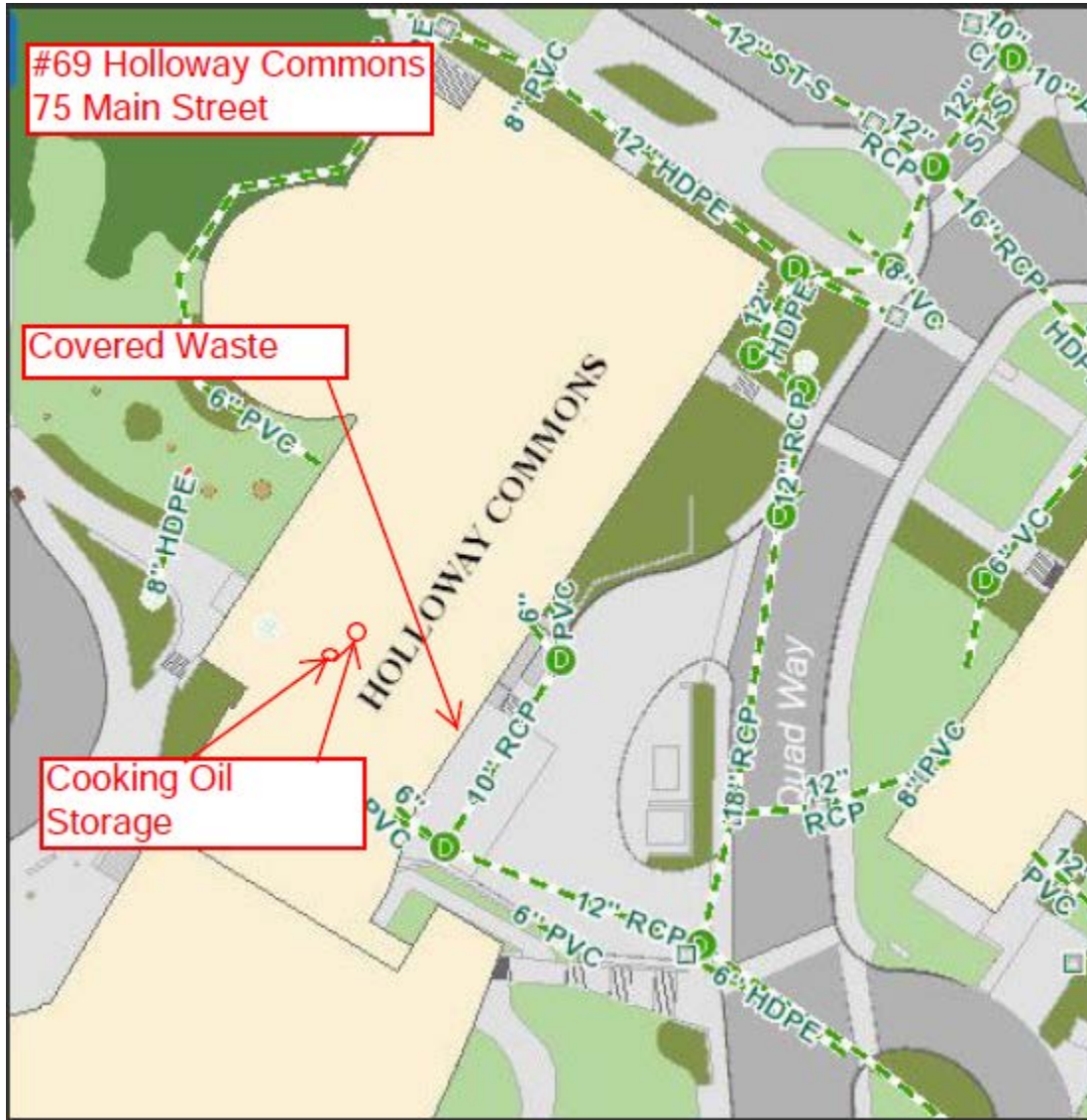
University of New Hampshire will conduct quarterly (Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec) inspections of the facility that will cover all areas exposed to stormwater, and all stormwater control measures. At least one of the inspections during a period when stormwater discharge is occurring. Additional inspections will occur on an as-needed basis if significant activities are exposed to stormwater. The inspections will contain the information included in Attachment 2, an example site inspection form.

If control measures are discovered to need repair or be ineffective, whether as part of a routine inspection or otherwise, University of New Hampshire will repair or replace them as soon as practicable, and preferably before the next storm event.

Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment 1: Facility site map identifying key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.



Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.

Stormwater Pollution Prevention Plan
for
#70 Stillings Dining Hall

Facility Name: Stillings Dining Hall

Facility Address: 20 Ballard Street, Durham, NH

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager
Dave Bowley
UNH Facilities
603-862-0647
dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician
Glen Tuttle
UNH Facilities
603-862-1387
glen.tuttle@unh.edu

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Section 3: Site Description

Stillings Dining Hall provides dining and catering services for the UNH community. There is a storage for 200 gallons of cooking oil on site.

A map of the facility is included as Attachment 1 of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Trash/Recycling Collection	
2	Cooking oil	Waste cooking oil

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: *The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.*

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Best practices for salt storage, spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: *The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.*

The following list describes good housekeeping practices followed at this facility:

- Waste oil stored in drums outside are kept closed except when actively in use;
- The facility shall be swept at least annually, or more as-needed, to minimize sediment and associated pollutants from entering the stormwater drainage system;
- Used antifreeze is kept in a covered container;
- Spillage of chemicals or sewage will be promptly cleaned and reported as required;

- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;
- Leaking vehicles needing repair will be stored indoors;
- Outdoor storage areas will be regularly swept and kept free of leaking or damaged containers.

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- Hydraulic equipment is kept in good repair to minimize leaks;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. See Section 2.3.7.2 (iv) in the MS4 permit for additional details.*

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;
- Outdoor drum and storage tank containment areas are checked for leaks;
- Above ground storage tanks are inspected regularly for signs of corrosion or leaks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.*

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: *The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are*

potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a [detention/retention basin, vegetated swale, infiltration basin, etc.]
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

This facility stores no salt stockpiles.

Section 4.8: Employee Training

Permit Language: The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.

Key staff will be regularly trained on stormwater related topics such as: spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
- This SWPPP will be supplemented by on-site documentation describing maintenance procedures and a schedule outlining preventative maintenance of all control measures;
- University of New Hampshire will work to develop backup procedures and practices in case a runoff event occurs while a control measure is offline.

Section 5.0: Inspection and Record Keeping

Section 5.1: Site Inspections

University of New Hampshire will conduct quarterly (Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec) inspections of

the facility that will cover all areas exposed to stormwater, and all stormwater control measures. At least one of the inspections during a period when stormwater discharge is occurring. Additional inspections will occur on an as-needed basis if significant activities are exposed to stormwater. The inspections will contain the information included in Attachment 2, an example site inspection form.

If control measures are discovered to need repair or be ineffective, whether as part of a routine inspection or otherwise, University of New Hampshire will repair or replace them as soon as practicable, and preferably before the next storm event.

Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.

Stormwater Pollution Prevention Plan
for
Water Treatment Plant

Facility Name: UNH Water Treatment Plant

Facility Address: 42 Waterworks Rd, Durham, NH 03824

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager
Dave Bowley
UNH Facilities
603-862-0647
dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician
Glen Tuttle
UNH Facilities
603-862-1387
glen.tuttle@unh.edu

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Section 3: Site Description

The UNH Water Treatment Plant (WTP) has been designed and constructed to supply drinking water to the University in Durham, NH and to portions of the Town of Durham, NH. The WTP is located at 42 Waterworks Road on the southeast side of the UNH campus. The WTP consists of one main building (the Water Treatment Plant building), three treatment lagoons, and the Oyster River Raw Water Pumping Station. The facility is not open to the public.

A map of the facility is included as *Attachment: WTP-MS4* of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Chemical storage	Water Treatment Chemicals

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Best practices for salt storage, spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.

The following list describes good housekeeping practices followed at this facility:

- The facility shall be swept at least annually, or more as-needed, to minimize sediment and associated pollutants from entering the stormwater drainage system;

- Spillage of chemicals or sewage will be promptly cleaned and reported as required;
- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;
- Leaking vehicles needing repair will be stored indoors;
- Outdoor storage areas will be regularly swept and kept free of leaking or damaged containers.

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- Hydraulic equipment is kept in good repair to minimize leaks;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur.* See Section 2.3.7.2 (iv) in the MS4 permit for additional details.

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;
- Outdoor drum and storage tank containment areas are checked for leaks;
- Above ground storage tanks are inspected regularly for signs of corrosion or leaks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.*

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: *The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.*

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a detention/retention basin, vegetated swale, infiltration basin, etc.
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

N/A

Section 4.8: Employee Training

Permit Language: *The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.*

Key staff will be regularly trained on stormwater related topics such as: stormwater system maintenance practices, spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: *The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).*

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
- This SWPPP will be supplemented by on-site documentation describing maintenance procedures and a schedule outlining preventative maintenance of all control measures;
- University of New Hampshire will work to develop backup procedures and practices in case a runoff event occurs while a control measure is offline.

Section 5.0: Inspection and Record Keeping

Section 5.1: Site Inspections

University of New Hampshire will conduct quarterly (Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec) inspections of the facility that will cover all areas exposed to stormwater, and all stormwater control measures. At least one of the inspections during a period when stormwater discharge is occurring. Additional inspections will occur on an as-needed basis if significant activities are exposed to stormwater. The inspections will contain the information included in Attachment 2, an example site inspection form.

If control measures are discovered to need repair or be ineffective, whether as part of a routine inspection or otherwise, University of New Hampshire will repair or replace them as soon as practicable, and preferably before the next storm event.

Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment WTP-MS4: Facility site map identifying key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.



Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.

Stormwater Pollution Prevention Plan
for
#98 Philbrook Hall

Facility Name: Philbrook Hall

Facility Address: 29 McDaniel Drive, Durham, NH

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager
Dave Bowley
UNH Facilities
603-862-0647
dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician
Glen Tuttle
UNH Facilities
603-862-1387
glen.tuttle@unh.edu

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Section 3: Site Description

Philbrook Hall is a dining facility located on the University of New Hampshire Durham campus. The facility includes a dining room and kitchen support services and (2) 200 gal cooking oil storage vessels. a designated dumpster area. The facility is open to the public, and is where citizens of University of New Hampshire dine.

A map of the facility is included as Attachment 1 of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Cooking oil	Waste cooking oil

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Best practices for salt storage, spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.

The following list describes good housekeeping practices followed at this facility:

- Waste oil stored in drums outside are kept closed except when actively in use;
- The facility shall be swept at least annually, or more as-needed, to minimize sediment and associated pollutants from entering the stormwater drainage system;
- Spillage of chemicals or sewage will be promptly cleaned and reported as required;

- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;
- Outdoor storage areas will be regularly swept and kept free of leaking or damaged containers.

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- Hydraulic equipment is kept in good repair to minimize leaks;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur.* See Section 2.3.7.2 (iv) in the MS4 permit for additional details.

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;
- Outdoor drum and storage tank containment areas are checked for leaks;
- Above ground storage tanks are inspected regularly for signs of corrosion or leaks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.*

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: *The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to*

reduce the discharge of pollutants.

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a [detention/retention basin, vegetated swale, infiltration basin, etc.]
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

This facility stores no salt stockpiles.

Section 4.8: Employee Training

Permit Language: *The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.*

Key staff will be regularly trained on stormwater related topics such as: [revise list as necessary] stormwater system maintenance practices, salt storage and handling procedures, spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: *The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).*

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
- This SWPPP will be supplemented by on-site documentation describing maintenance procedures and a schedule outlining preventative maintenance of all control measures;
- University of New Hampshire will work to develop backup procedures and practices in case a runoff event occurs while a control measure is offline.

Section 5.0: Inspection and Record Keeping

Section 5.1: Site Inspections

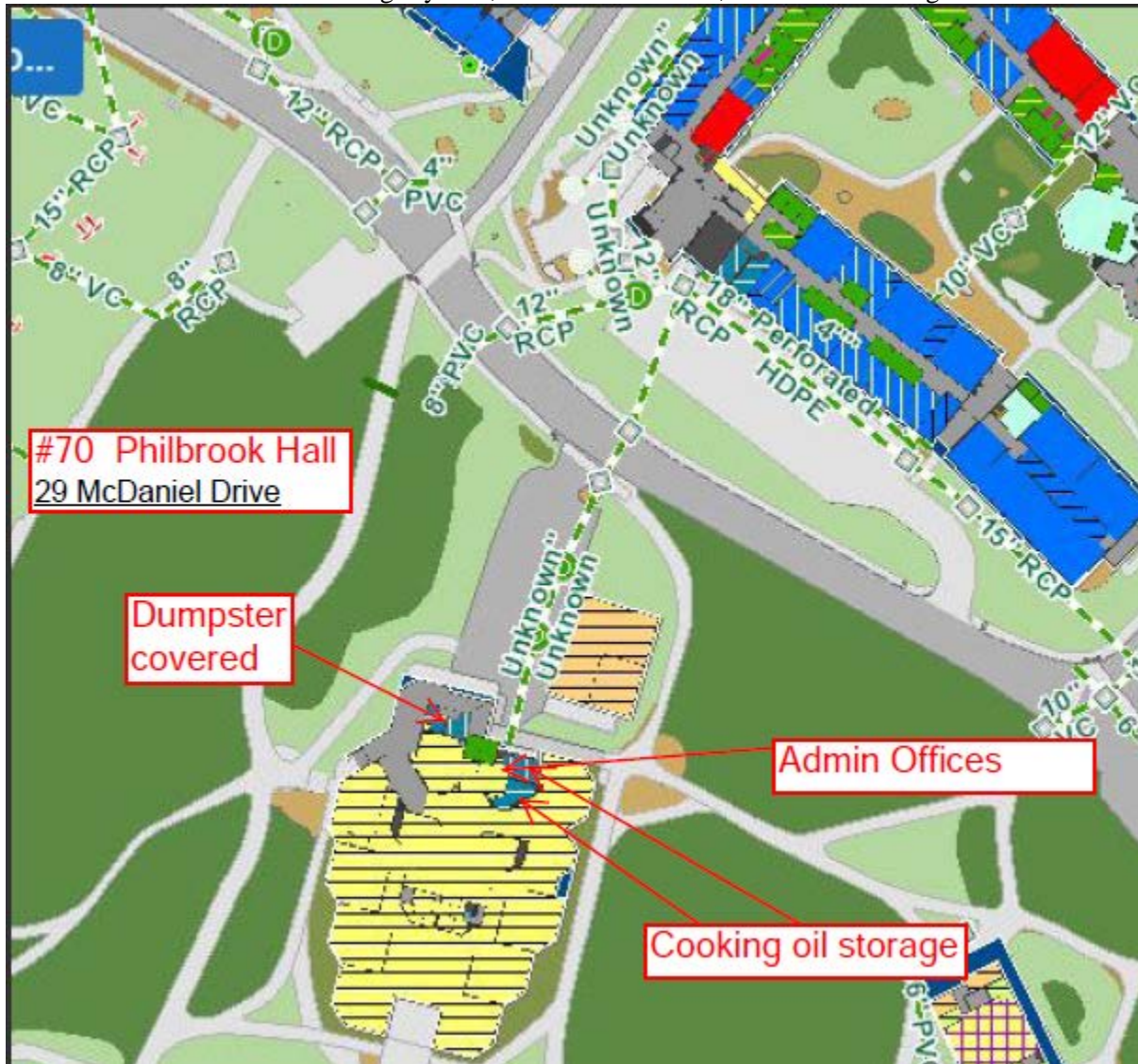
University of New Hampshire will conduct quarterly (Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec) inspections of the facility that will cover all areas exposed to stormwater, and all stormwater control measures. At least one of the inspections during a period when stormwater discharge is occurring. Additional inspections will occur on an as-needed basis if significant activities are exposed to stormwater. The inspections will contain the information included in Attachment 2, an example site inspection form.

If control measures are discovered to need repair or be ineffective, whether as part of a routine inspection or otherwise, University of New Hampshire will repair or replace them as soon as practicable, and preferably before the next storm event.

Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment 1: Facility site map identifying key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.



Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.

Stormwater Pollution Prevention Plan
for
#114 Leavitt Center Transportation Center

Facility Name: _____ Leavitt Center Transportation Center

Facility Address: _____ 213 Main Street , Durham, NH _____

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager
Dave Bowley
UNH Facilities
603-862-0647
dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician
Glen Tuttle
UNH Facilities
603-862-1387
glen.tuttle@unh.edu

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Section 3: Site Description

The University of New Hampshire Transportation Garage is located at 213 Main Street, Durham, NH. The facility includes a maintenance building, and an employee parking facility. The facility is not open to the public. The purpose of this building is to support repair and maintenance services for University vehicles.

A map of the facility is included as Attachment 1 of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Vehicle Maintenance & Repair	Waste oil
2	Vehicle Parts cleaning	Waste Oil
3	Vehicle Washing	Detergents
4	Waste Oil Storage	Waste Oil

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: *The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.*

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Vehicles will be washed using indoor facilities, and wash water shall be collected and discharged to the treatment system instead of entering the stormwater drainage system;
- Vehicle maintenance and fluid changing will occur in covered facilities;
- Best practices for salt storage, spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: *The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store*

leaking vehicles needing repair indoors.

The following list describes good housekeeping practices followed at this facility:

- Waste oil stored in drums outside are kept closed except when actively in use;
- The facility shall be swept at least annually, or more as-needed, to minimize sediment and associated pollutants from entering the stormwater drainage system;
- Used antifreeze is kept in a covered container;
- Spillage of chemicals or sewage will be promptly cleaned and reported as required;
- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;
- Leaking vehicles needing repair will be stored indoors;
- Outdoor storage areas will be regularly swept and kept free of leaking or damaged containers.

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- Hydraulic equipment is kept in good repair to minimize leaks;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur.* See Section 2.3.7.2 (iv) in the MS4 permit for additional details.

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;
- Outdoor drum and storage tank containment areas are checked for leaks;
- Above ground storage tanks are inspected regularly for signs of corrosion or leaks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a [detention/retention basin, vegetated swale, infiltration basin, etc.]
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

Permit Language: For storage piles of salt or piles containing salt used for deicing or other purposes (including maintenance of paved surfaces) for which the discharge during precipitation events discharges to the permittee's MS4, any other MS4 or to a Water of the United States, the permittee shall prevent exposure of the storage pile to precipitation by enclosing or covering the storage piles. Such piles shall be enclosed or covered within two (2) years of the permit effective date. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. The permittee is encouraged to store piles in such a manner as not to impact surface water resources, ground water resources, recharge areas, and wells.

This facility stores no salt stockpiles.

Section 4.8: Employee Training

Permit Language: The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.

Key staff will be regularly trained on stormwater related topics such as: [revise list as necessary] stormwater system maintenance practices, salt storage and handling procedures, spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: *The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).*

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
- This SWPPP will be supplemented by on-site documentation describing maintenance procedures and a schedule outlining preventative maintenance of all control measures;
- University of New Hampshire will work to develop backup procedures and practices in case a runoff event occurs while a control measure is offline.

Section 5.0: Inspection and Record Keeping

Section 5.1: Site Inspections

University of New Hampshire will conduct quarterly (Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec) inspections of the facility that will cover all areas exposed to stormwater, and all stormwater control measures. At least one of the inspections during a period when stormwater discharge is occurring. Additional inspections will occur on an as-needed basis if significant activities are exposed to stormwater. The inspections will contain the information included in Attachment 2, an example site inspection form.

If control measures are discovered to need repair or be ineffective, whether as part of a routine inspection or otherwise, University of New Hampshire will repair or replace them as soon as practicable, and preferably before the next storm event.

Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment 1: Facility site map identifying key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.



Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.

Stormwater Pollution Prevention Plan
for
#288 DPW Grounds and Roads

Facility Name: #288 DPW Grounds and Roads

Facility Address: 25 Waterworks Road, Durham, NH 03824

Section 1: Stormwater Pollution Prevention Plan Overview

This Stormwater Pollution Prevention Plan (SWPP) does the following:

- Identifies the SWPPP team, by name and title
- Describes the facility, with information on location and activities, a site map, and a description of the stormwater drainage system;
- Identifies potential stormwater contaminants;
- Describes stormwater management control and best management practices (BMPs) needed to reduce pollutants in stormwater discharges; and
- Describes the facility's monitoring plan;

Section 2: Stormwater Management Program Team

Stormwater Program Coordinator:

Utilities Systems Manager
Dave Bowley
UNH Facilities
603-862-0647
dave.bowley@unh.edu

SWMP Team:

Utility Distribution Technician
Glen Tuttle
UNH Facilities
603-862-1387
glen.tuttle@unh.edu

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Section 3: Site Description

The University of New Hampshire Public Works Facility (Grounds & Roads) is located at 25 Waterworks Rd., Durham, NH. The facility includes an operations/maintenance building, a salt barn, a gated equipment yard, an employee parking facility, administration offices, a covered vehicle wash stall and a staging yard for landscaping equipment.

A map of the facility is included as Attachment 1 of this SWPPP. The map identifies key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.

Table 3-1 includes a list of activities that occur at the facility and the potential pollutants that may be associated with each activity.

Activity #	Description	Potential Pollutants
1	Waste Petroleum Products	Waste Petroleum Products
2	Chemical storage areas	Diesel Fuel
3	Sand/Salt	Salt

Section 4: Implementation

This section describes practices that are in place or that will be implemented to control pollutants that have the potential to contaminate stormwater. The following sub-sections describe the relevant management practices that will be implemented as identified in Section 2.3.7.2 (iv) in the MS4 permit. Unless otherwise stated, all measures will be implemented to be consistent with the schedule required in the MS4 permit, or no later than the end of year 5 of the permit if not otherwise described.

Section 4.1: Minimize or Prevent Exposure

Permit Language: *The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of impervious surface area is not recommended). 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.*

The site-specific practices will be implemented to minimize or prevent exposure of pollutants to stormwater runoff:

- Vehicles will be washed using indoor facilities, and wash water shall be collected and discharged to the treatment system instead of entering the stormwater drainage system;
- Vehicle maintenance and fluid changing will occur in covered facilities;
- Best practices for salt storage, spill prevention/response, runoff management, and other key topics will be discussed later in this document.

Section 4.2: Good Housekeeping

Permit Language: *The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.*

The following list describes good housekeeping practices followed at this facility:

- Waste oil stored in drums outside are kept closed except when actively in use;
- The facility shall be swept at least annually, or more as-needed, to minimize sediment and associated pollutants from entering the stormwater drainage system;
- Used antifreeze is kept in a covered container;
- Spillage of chemicals or sewage will be promptly cleaned and reported as required;
- Drip pans are used when changing fluids, and spigots/funnels are used to minimize drips/leaks;
- All substances requiring secondary containment will be handled as such;
- Leaking vehicles needing repair will be stored indoors;
- Outdoor storage areas will be regularly swept and kept free of leaking or damaged containers.

Section 4.3: Preventative Maintenance

Permit Language: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems 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 once per quarter.

The following is a list of preventative maintenance procedures practiced at this facility:

- Drainage swales are kept clear;
- Hydraulic equipment is kept in good repair to minimize leaks;
- All materials, waste storage areas, drains, tanks, and cans are properly labeled.

Section 4.4: Spill Prevention and Response

Permit Language: *The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur.* See Section 2.3.7.2 (iv) in the MS4 permit for additional details.

The following is a list of spill prevention and response procedures practiced at this facility:

- This facility has a written spill prevention and response policy that is consistent with the MS4 requirements described in Section 2.3.7.2 (iv);
- Spills will be contained as close to the source as possible with a dike of absorbent materials from the emergency spill kit, and a cover or dike will protect any catch basins or other stormwater intake structures;
- The assigned spill response team leader will be advised immediately of all hazardous or regulated material spills, regardless of quantity;
- All spills will be evaluated to determine the necessary response;
- Staff are aware of spill prevention and response procedures;
- Spill response equipment is located at potential spill areas;
- Qualified personnel observe delivery transfers to and from fuel tanks;

Section 4.5: Erosion and Sediment Control

Permit Language: *The permittee shall use structural and non-structural control measures at the facility 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 and within outfall channels where necessary to reduce erosion.*

There are no potential areas for erosion on this site.

Section 4.6: Management of Runoff

Permit Language: *The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.*

The following management practices for runoff are used at this facility:

- Drainage outfalls discharge to riprap pads
- Runoff from the site goes to a vegetated swale
- Impervious areas are uncurbed where practical to encourage sheet flow runoff to vegetated areas

Section 4.7: Salt Storage Piles

Permit Language: *For storage piles of salt or piles containing salt used for deicing or other purposes (including maintenance of paved surfaces) for which the discharge during precipitation events discharges to the permittee's MS4, any other MS4 or to a Water of the United States, the permittee shall prevent exposure of the storage pile to precipitation by enclosing or covering the storage piles. Such piles shall be enclosed or covered within two (2) years of the permit effective date. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. The permittee is encouraged to store piles in such a manner as not to impact surface water resources, ground water resources, recharge areas, and wells.*

This facility stores and loads/unloads salt in a covered facility to minimize the runoff exposure to any salt stockpiles.

Section 4.8: Employee Training

Permit Language: *The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.*

Key staff will be regularly trained on stormwater related topics such as: stormwater system maintenance practices, salt storage and handling procedures, spill response and cleanup procedures, and other key topics. Please refer to University of New Hampshire's Stormwater Management Plan (SWMP) for additional details on employee training.

University of New Hampshire will retain records on employee training including:

- The training date, title, and duration;
- Municipal attendee list;
- Subjects covered during training.

Section 4.9: Maintenance of Control Measures

Permit Language: *The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation 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 (e.g., spill response supplies available, personnel trained).*

The following is a list of stormwater control measure maintenance procedures practiced at this facility:

- All control measures required by this permit will be maintained in effective operating condition;
- This SWPPP will be supplemented by on-site documentation describing maintenance procedures and a schedule outlining preventative maintenance of all control measures;
- University of New Hampshire will work to develop backup procedures and practices in case a runoff event occurs while a control measure is offline.

Section 5.0: Inspection and Record Keeping

Section 5.1: Site Inspections

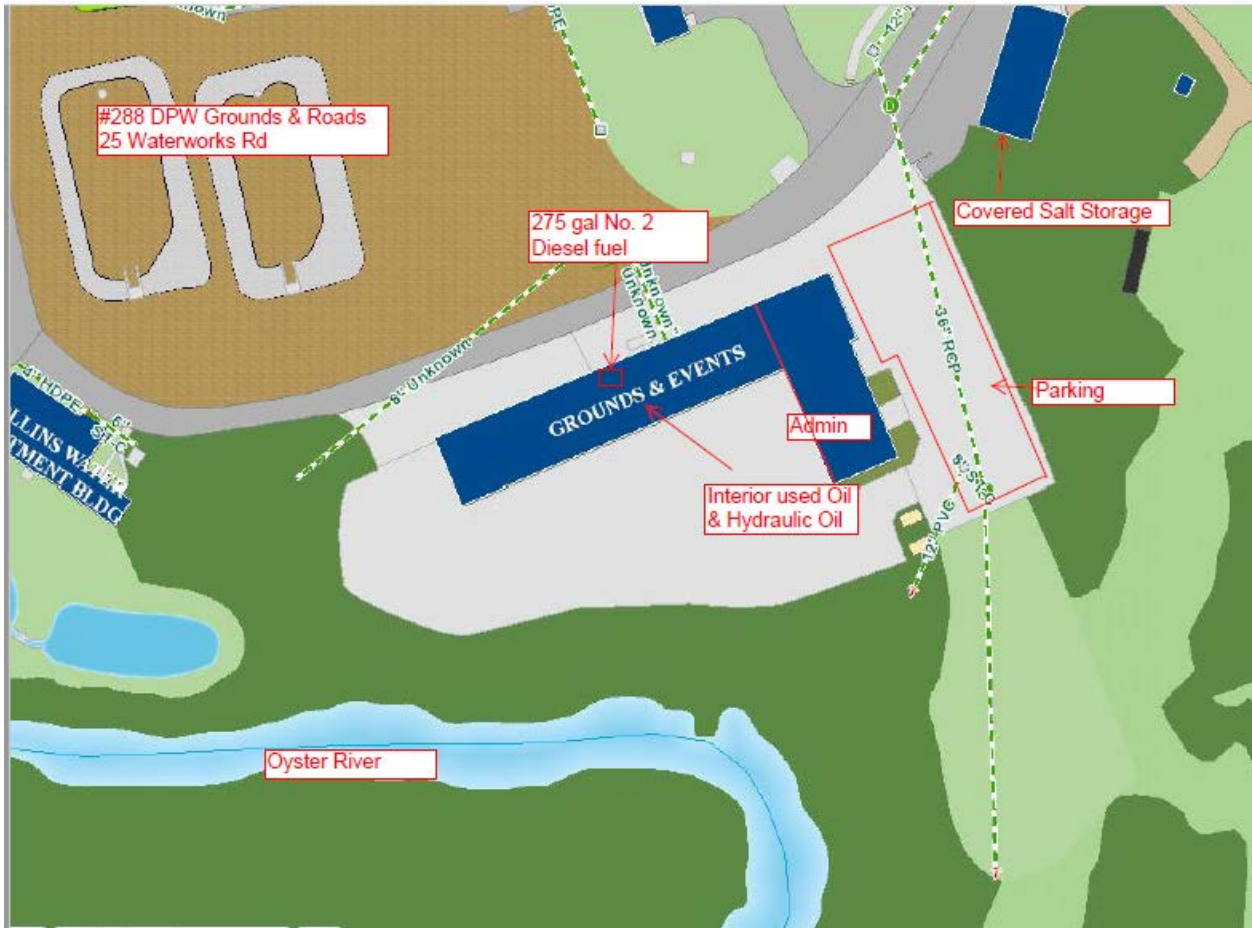
University of New Hampshire will conduct quarterly (Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec) inspections of the facility that will cover all areas exposed to stormwater, and all stormwater control measures. At least one of the inspections during a period when stormwater discharge is occurring. Additional inspections will occur on an as-needed basis if significant activities are exposed to stormwater. The inspections will contain the information included in Attachment 2, an example site inspection form.

If control measures are discovered to need repair or be ineffective, whether as part of a routine inspection or otherwise, University of New Hampshire will repair or replace them as soon as practicable, and preferably before the next storm event.

Section 5.2: Record Keeping

University of New Hampshire will maintain records of all maintenance, inspection, training, and other activities required by Section 2.3.7.2 of the MS4 permit. Records will be maintained for at least five (5) years, as required by Section 4.2.1 of the MS4 Permit.

Attachment 1: Facility site map identifying key buildings and sites, the location of all known floor drains that tie into the stormwater drainage system, stormwater outfalls, and their receiving waters.



Attachment 2: Example Facility Site Inspection Form

Facility Name: _____

Facility Address: _____

Inspection Date: _____ Inspection Time: _____

Inspector(s): _____

Weather: _____

Stormwater Discharge Description (circle one): None Light Moderate Heavy

Stormwater discharge notes, if any: _____

Have any previously unidentified discharges been identified as part of this inspection? Yes / No

If yes, describe: _____

Are any control measures in need of maintenance or repair? Yes / No

If yes, describe: _____

Did you identify any failed control measures that need replacement as part of this inspection? Yes / No

If yes, describe: _____

Are any changes to the SWPPP needed based on this inspection? Yes / No

If yes, describe: _____

Please scan and save a copy of this inspection file and keep the hard copy on-site at least five (5) years after the inspection date.