

Stormwater Management System

Operation & Maintenance Plan

During Construction

The Contractor shall be responsible for inspection and maintenance during construction.

At all times, siltation fabric fencing, stakes and straw bales/wattles, sufficient to construct a sedimentation control barrier a minimum of 50 feet long, shall be stockpiled on the site in order to repair established barriers which may be damaged or breached.

An inspection of all erosion control and stormwater management systems shall be conducted by the Contractor at least once a week and during all rain storms until the completion of construction. In case of any noted breach or failure, the Contractor shall immediately make appropriate repairs to any erosion control system and notify the engineer of any problems involving stormwater management systems.

A rain storm shall be defined as any of the following:

- A storm in which rain is predicted to last for twelve consecutive hours or more.
- A storm for which a flash flood watch or warning is issued.
- A single storm predicted to have a cumulative rainfall of greater than one-half inch.
- A storm not meeting the previous three thresholds but which would mark a third consecutive day of measurable rainfall.

The Contractor shall also inspect the erosion control and stormwater management systems at times of significant increase in surface water runoff due to rapid thawing when the risk of failure of erosion control measures is elevated.

In such instances as remedial action is necessary, the Contractor shall repair any and all significant deficiencies in erosion control systems within two days.

The South Hadley Department of Public Works shall be notified of any significant failure of stormwater management systems or erosion and sediment control measures, and shall be notified of any release of pollutants to a water body (stream, brook, pond, etc.).

The Contractor shall remove the sediment from behind the fence of the sedimentation control barrier when the accumulated sediment has reached one-half of the original installed height of the barrier.

This project requires a NPDES General Permit for Stormwater Discharges from Construction Activities. Contractor and Owner are responsible for finalizing a Stormwater Pollution Prevention Plan (SWPPP) and filing for the NPDES permit prior to the start of construction. All clearing, grading, drainage, construction, and development shall be conducted in strict accordance with the SWPPP.

Post-Construction

Stormwater Management System Owner:

Town of South Hadley
116 Main St., #109
South Hadley, MA 01075
(413) 538-5017

Party Responsible for Operation & Maintenance:

Friends of South Hadley Dog Park via Town of South Hadley
116 Main St., #109
South Hadley, MA 01075
(413) 538-5017

Inspection & Maintenance Schedule:

1) Driveway and Parking Lot Sweeping

Asphalt and concrete area sweeping shall take place annually during the spring cleanup.

2) Stone Apron

The stone apron shall be inspected annually for sediment buildup and evidence of bypassing. Apron shall be cleaned by removing and replacing stone and removing any sediment. Stone may be washed and re-used.

Sediment shall be removed and disposed of in accordance with local, state and federal guidelines and regulations. Inspections shall identify any damage or signs of erosion within and adjacent to diaphragm, which shall be repaired immediately. It is recommended that sediment removal be performed after the completion of the spring snow melt.

3) Rain Gardens

The rain gardens shall be inspected at least four times per year for sediment accumulation and signs of damage or erosion. Sediment shall be removed any time it has accumulated more than ½". At a minimum, sediment shall be removed annually preferably during spring cleanup. At that time, sediment and the previous year's mulch shall be removed and new mulch installed. Failure of the system to drain (ponding 48 hours after the end of the storm) shall result in inspection and cleaning. Sediments shall be removed and disposed of in accordance with local, state and federal guidelines and regulations. Inspections shall identify any damage or signs of erosion within basins, which shall be repaired immediately.

4) Yard drain outlet structures

Yard drains should be inspected four times per year and cleaned annually or more often if required. Any obstructions, oil and sediments should be removed and disposed of in accordance with local, state and federal guidelines and regulations. In the case of an oil or bulk pollutant release, the system must be cleaned immediately following the spill and the proper authorities notified.

5) *Subsurface Detention Basin & Outlet Control Structure*

Long-term performance of the subsurface detention basin is largely dependent on the performance of the upstream pre-treatment devices, including the rain gardens. Those devices shall be maintained in accordance with the respective sections of this O&M Plan.

The subsurface detention basin shall be inspected and maintained in accordance with the Manufacturer's recommendations; but no less than quarterly the first year and twice per year thereafter. In addition, one annual inspection should be conducted during or soon after a significant rainfall (2"+) to ensure that the basin is function as intended. Should accumulated sediments be observed in the infiltration area, the sediments shall be removed and disposed of properly.

The outlet control structure shall be inspected after large storms to ensure no debris is prohibiting flow through the outlet orifices in the riser pipe. All materials removed from the outlet control structure shall be removed and disposed of in accordance with local, state and federal guidelines and regulations.

6) *Spill Response/Dog Waste Policy*

In the event of a spill of oil, automotive fluids or other chemicals within the parking lot or other parts of the site, the Town shall be responsible for taking measures to contain and abate the spill and prevent the discharge of hazardous substances or oil to stormwater, stormwater facilities or off-site. If the spill affects the stone diaphragm or the rain garden, these facilities shall be cleaned immediately following the spill.

The Town in conjunction with the Friends of the Dog Park shall prepare and implement a dog waste policy to ensure that waste is picked up and is disposed of appropriately. The Friends will monitor all areas of the site regularly for dog waste to ensure that users comply with the policy. As part of the required annual stormwater maintenance report, the Friends will provide a brief report of the dog waste policy during the year. Town of S. Hadley will complete an agreement with the Friends of S. Hadley Dog Park with regard to disposal of dog waste and maintenance of the dog park.