Stormwater Management Permit

City of Haverhill

Comprehensive Stormwater Management Bylaw

Proposed Industrial Outdoor Storage Yard

1400 Hilldale Avenue
Haverhill, Massachusetts

CONSTRUCTION PERIOD
POLLUTION PREVENTION PLAN

Prepared for:

Singh Realty Group, LLC
6 Fondi Road
Haverhill, MA 01832

Prepared by:

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1057 East Street
Tewksbury, MA 01876

Submitted To:
City of Haverhill ~ Conservation Commission

Stormwater Management Permit ~ Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
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Construction Period Stormwater Pollution Prevention Plan

Index of Materials

Appendices

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Stormwater Pollution Prevention Plan Certification

I hereby certify, under penalty of law, that this document and all attachments were reviewed by me, and to the best of my knowledge the information submitted is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information including the possibility of fines and imprisonment.

Signed: _____

(must be signed by Company Officer)

Date: _____

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Contractor Certification

I hereby certify, under penalty of law, that I understand the terms and conditions of the National Pollutant Discharge Elimination System (N.P.D.E.S.) that authorizes the stormwater discharges associated with the construction activities for this particular construction site as identified on this part of the certification.

Signed: _____

Representative of: (name of Construction Company)

_____

Date: _____

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Construction / Implementation Checklist

1. Maintain Records of Construction Activities, including:
   - □ Dates when major grading activities occur.
   - □ Dates when construction activities temporarily cease on a portion of the site.
   - □ Dates when construction activities permanently cease on a portion of the site.
   - □ Dates when stabilization measures are initiated on the site.

2. Prepared Inspection Reports summarizing:
   - □ Name of inspector
   - □ Qualifications of inspector
   - □ Measures/areas inspected
   - □ Observed conditions
   - □ Changes necessary to the SWPPP

3. Report Releases of Reportable Quantities of Oil or Hazardous Materials (if they occur):
   - □ Notify National Response Center 800-424-8802 immediately
   - □ Notify permitting authoring in writing within 14 days
   - □ Modify the pollution prevention plan to include:
     - the date of release
     - circumstances leading to the release
     - steps taken to prevent reoccurrence of the release

4. Modify Pollution Prevention Plan as necessary to:
   - □ Comply with the minimum permit requirements when notified by EPA that the plan does not comply.
   - □ Address a change in design, construction operation or maintenance which has an effect on the potential for discharge of pollutants.
   - □ Prevent reoccurrence of reportable quantity releases of a hazardous material or oil.

This project is subject to the NPDES Construction General Permit issued by EPA. The Contractor/Applicant will need to file a Notice of Intent under the EPA NPDES Construction General Permit. Copies of the Notice of Intent and SWPPP under this permit shall be provided to the Haverhill Conservation Commission. The Haverhill Conservation Commission shall be notified prior to filing a Notice of Termination under the EPA permit.

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Site Description

Project Name: Proposed Industrial Outdoor Storage Yard

Project Location: 1400 Hilldale Avenue ~ Haverhill, MA 01832

Latitude & Latitude: 42.8117°, -71.1187°

Applicant Address: Singh Realty Group, LLC
6 Fondi Road
Haverhill, MA 01832

Party Responsible for Implementation of Construction Period S.W.P.P.P. : SITE CONTRACTOR

Approximate Project Area: 497,145 square-feet ± (11.41 Acres)

Total Area of Disturbance: 245,666 square-feet ± (5.64 Acres)

Total Proposed Impervious Area (full site): 4.1 acres ±

Total Area of Wetland Alteration: 1,701 SF±

Total Area of Wetland Restoration: 3,500 SF±

Stormwater Management BMP's Provided:
Deep-Sump Catch Basins, Hydrodynamic separators, Infiltration chambers

Utilities to be Provided:
Public electric

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Sequence of Major Construction Activities

1. Install erosion controls as shown on the Site Plans.
2. Install construction fencing, as necessary.
3. Install crushed stoned apron at the proposed construction entrances.
4. Cut and remove all necessary trees and stump the site.
5. General site grading shall be completed, including the installation of the retaining walls.
6. Install infiltration chambers and proposed drainage.
7. Utilities shall be installed.
8. Curb cuts shall be constructed.
9. Finalize site grading.
10. Loam and seed proposed grassed areas.
11. Install bituminous concrete pavement.
12. Site lighting, landscaping, and signage shall be installed.
13. Ensure full germination of all seeded areas. Repair any necessary areas.
14. Remove any sediment from all drainage structures.
15. Complete top course paving and striping.
16. Remove temporary erosion controls after entire site has been properly stabilized.

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Implementation and Maintenance of Erosion and Sediment Controls

Temporary Stabilization

Stockpiles of soil materials will be surrounded sediment filtermitt. Areas of the site that have been stripped of topsoil and are not part of the active construction area for at least 14 days shall be temporarily stabilized with 4,000 pounds per acre of straw mulch.

Permanent Stabilization

Disturbed portions of the site where construction activities permanently cease shall be stabilized with permanent seed, hydroseed, or sod no later than 14 days after the last construction activity.

Stormwater Management

Stormwater Management BMPs shall be inspected weekly during construction. Any accumulated sediment shall be removed and disposed of according to City of Haverhill regulations. During construction, sediment filtermitt shall be used to the extent practicable to direct stormwater towards pervious areas on-site rather than directly towards Stormwater Management BMPs.

Other Controls

Waste Disposal

Waste Materials: All waste materials including trash and construction debris shall be collected and stored in securely lidded metal dumpsters. Trash and/or construction debris shall not be allowed to remain exposed for any period of time. Metal dumpsters shall be emptied a minimum of once per week or more often as necessary. No construction waste materials shall be buried onsite. All personnel will be instructed regarding the proper procedure for waste disposal. It shall be the responsibility of the general contractor to ensure that these procedures are followed.

Hazardous Waste: All hazardous waste will be disposed of in the manner specified by local and/or State regulation or by the manufacturer. Site personnel will be instructed in these practices and the general contractor shall be responsible for seeing that these procedures are followed.

Sanitary Waste: All sanitary waste will be collected from the portable units as necessary by a licensed sanitary waste management contractor.

Offsite Vehicle Tracking

Dump trucks hauling material to and from the construction site shall be covered by a tarpaulin. Crushed-stone aprons shall be constructed at construction site entrances to reduce offsite vehicle tracking.

Dust Control

Dust control is important for controlling air quality on and off site during various phases of construction. Sprinkle irrigation using tanker trucks is effective to control dust from gravel/dirt haul roads and during earth-moving/grading phases of site preparation. On exposed soils where vehicular traffic is not expected and/or completed, vegetative cover and/or mulching can be used to stabilize soils. Stone graded out over exposed areas where vegetation cannot be established can be effective along high traffic areas.

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Maintenance / Inspection Procedures

The following maintenance and inspection procedures shall be followed so as to ensure proper erosion and sediment control throughout construction.

1. The siltation controls shall be installed prior to conducting any land-disturbing activities.
2. All erosion control measures shall be inspected once per week and following any storm event of 0.5 inches or greater.
3. Should dewatering activities be required, pumped groundwater shall be directed to a dewatering sump prior to discharge to any wetland resource area or stormwater management area.
4. All measures will be maintained in good working order and shall be repaired as necessary throughout construction. If a repair is necessary, it will be initiated within 24 hours of observation.
5. Sediment shall be removed from the erosion controls when it has accumulated to a depth of approximately 6 inches.
6. Any catch basins located immediately downstream from the construction site shall be inspected once per week and following any storm event of 0.5 inches or greater. Any significant sediment accumulation within these catch basins shall be removed within 24 hours of observation.
7. All seeded areas shall be inspected periodically to insure proper germination and adequate coverage and shall be reseeded as necessary. Any washouts shall be promptly repaired, reseeded and mulched.
8. Provide and maintain dumpsters for trash removal. Trash and construction debris shall be picked up daily.
9. The Contractor shall direct surface runoff to unpaved, pervious areas on the site to the maximum extent possible, utilizing temporary sediment filtermitt as required preventing erosion and sedimentation of offsite areas.
10. During construction and installation of the Stormwater Management BMPs, care should be taken to minimize any sediment intrusion into these systems. Any significant sediment accumulation within these systems shall be removed within 24 hours of observation.
11. The Contractor shall make every effort to minimize the amount of impervious pavement area tributary to the drainage system and Stormwater Management BMPs until the site has been stabilized. The Contractor shall continue to direct surface runoff to unpaved areas as noted above.
12. A maintenance inspection report will be made after each inspection during construction. A copy of the report form to be completed by the inspector is attached. These reports shall be compiled and kept on site during construction. They shall be retained by the contractor for a period of 3 years.

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Non-Stormwater Discharges

It is expected that the following non-stormwater discharges may occur from the site during the construction period.

1. Firefighting activities
2. Water from water line flushings
3. Landscape irrigation
4. Potable water sources
5. Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
6. Uncontaminated groundwater (from dewatering excavation).

All of the above non-stormwater discharges will be directed to the pervious areas on site.

No other illicit discharges shall be permitted to discharge on site at any time. Suspected illicit discharges shall be reported to the Site Contractor immediately.

Inventory for Pollution Prevention Plan

The materials or substances listed below are expected to be present onsite during construction:

- Asphalt
- Gravel and various sized stones
- Polyethylene piping (drainage)
- Infiltration Chambers
- Petroleum Based Products
- Fertilizer

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Spill Prevention

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

Good Housekeeping

The following good housekeeping practices shall be followed onsite during construction:

- An effort will be made to store only enough product as required
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers
- Product will be kept in their original containers with the original manufacturer's label
- Substances will not be mixed with one another except as required by the manufacturer
- Whenever possible, all of a product will be used up before disposing of the container
- Materials shall be disposed of as recommended by the manufacturer.
- The site superintendent will inspect daily to ensure proper use and disposal of materials onsite

Hazardous Materials

The following practices shall be used to reduce the risks associated with hazardous materials:

- Products will be kept in original containers unless they are not resealable
- Original labels and material safety data will be retained
- If surplus product must be disposed of, manufacturer's or local and State recommended methods for proper disposal must be followed.

Product Specific Practices

The following product specific practices will be followed onsite:

Petroleum Products

All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

Fertilizers

Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be working into the soil to limit exposure to stormwater runoff. Fertilizer shall be stored in a covered shed to prevent exposure the rain and stormwater runoff. The contents of any partially used bags of fertilizer shall be stored in sealable plastic bins to avoid spills.

Proposed Industrial Outdoor Storage Yard
1400 Hilldale Avenue
Haverhill, Massachusetts
Construction Period Pollution Prevention Plan

Spill Prevention (continued)

Paints

All containers of paint shall be tightly sealed and stored when not in use. Excess paint shall not be discharged to the stormwater drainage system but will be properly disposed of according to the manufacturer's instructions and/or State and local regulations.

Concrete Trucks

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site.

Spill Control Practices

In addition to the good housekeeping and material management practices previously discussed, the following practices will be followed for spill prevention and cleanup;

- Manufacturer's recommended methods of spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include, but are not limited to: brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of size.
- The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up if another spill occurs. A description of the spill, what caused it, and the cleanup measures will also be included.
- The site superintendent responsible for the day-to-day operations will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area and in the office trailer onsite.

Emergency Contact Information

MassDEP's Emergency Response:	(888) 304-1133
Local Fire Department:	911
Local Board of Health:	(978) 374-2325
Local Conservation Department:	(978) 374-2334