

Fairfax County 2024 MS4 Program Plan and Annual Report

Appendix P5

Roadways SOP's - Material Storage

VSMP Permit Number VA0088587
9-30-2024



Department of Public Works and Environmental Services
POLICIES AND PROCEDURES

Memorandum No.: MSMD18-07

SUBJECT: Outdoor Material Storage Procedure

Effective: 3/27/2018

Revised: 6/18/2019

Approval: 

I. Purpose

This County-wide standard operating procedure (SOP) has been developed to establish consistent stormwater pollution prevention practices for the proper storage of raw materials that are stored outdoors, such as rock salt, aggregates, soil, asphalt material, and organic wastes, to prevent the pollution of stormwater runoff which can impact nearby waterbodies, contaminate soil, or leach into groundwater.

This SOP will satisfy the following MS4 permit section:

“IB2c: Roadways. Streets, roads, and parking lots maintained by the permittee shall continue to be operated and maintained in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities.

- 1) *No later than 12-months after the effective date of this state permit, the permittee shall develop and maintain an accurate list of permittee maintained roads, streets and parking lots that include the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs*
- 2) *No later than 36-months after the effective date of this state permit, the permittee shall develop and implement written protocols for permittee maintained road, street, and parking lot maintenance, equipment maintenance and material storage designed to minimize pollutant discharge.*
- 3) *Materials utilized for deicing and sanding activities shall remain covered from precipitation until application.*
- 4) *The permittee shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorous to parking lots, roadways, and sidewalks or other paved surfaces.”*

II. Minimum Requirements:

Storage:

1. Store materials indoors or under cover.
2. Salt and other deicers must be stored indoors or under a roof or cover and on an impervious surface. Deicer storage should be bermed, walled, or surrounded by secondary containment whenever possible.
3. Outside storage areas must be covered with a roof or waterproof covering.
 - a. After each use, ensure that the material is fully contained within roof or waterproof covering (e.g., sweep material back into bulk storage bay).

- b. Material storage areas (e.g., stock piles) must have a tarp or other cover on the top and all exposed sides when not in use.
 - c. If stockpiles are too large to be covered or contained, erosion and sediment control measures must be placed at the perimeter of the site and/or at any catch basins to prevent erosion of stockpiled materials.
4. If liquid materials are stored outdoors, the materials must be stored in clean, sturdy leak tight containers that are designed to be stored outside (e.g., drums).
- a. Store liquid materials in secondary containment where possible, in secure areas and away from traffic.
 - b. Liquid waste materials must be stored in secondary containment.
 - c. Store containers in a location where they will not be accidentally damaged by equipment or vehicles.

Spill Response:

1. In the event of a spill refer to the Spill Prevention & Response Procedure.
 - a. Large spills of hazardous materials (including oil and gas) should be reported by calling 911 immediately!
2. Have spill cleanup materials readily available in a known and convenient location.

Signage Required:

1. Install and maintain markings on all stormwater inlets located on high priority municipal facilities, as defined at Part I.F of Fairfax County's Municipal Separate Storm Sewer System Permit (MS4), and on County properties with greater than 2-acres of impervious surface. Storm drain markings should indicate that the marked inlet discharges to the storm network or surface water.

Employee Training:

1. Train employees on proper storage practices for each type of material stored at the facility.
2. Train employees and contractors on proper spill containment and cleanup procedures.
3. Conduct "refresher" courses on biennial basis as required by the County's MS4 permit.

III. Routine Maintenance:

1. Keep storage area clean and dry.
 - a. Inspect storage areas for cleanliness, sweep, and remove debris or trash.
2. Ensure stockpiles have proper coverage and material/debris is not eroding.
3. Repair and replace perimeter controls, containment structures, and covers as needed to keep them properly functioning.
4. Clean up leaks or drips from the ground surface using dry cleanup methods such as the use of absorbents.
5. Maintain temporary-type Best Management Practices (BMPs) such as silt fences, straw "wattles," check dams, etc. Remove built-up debris or sediment as necessary.
 - a. Replace defunct or damaged materials.

IV. VPDES Permitted Facilities

Stormwater discharges associated with industrial activity that are authorized by a Virginia Pollutant Discharge Elimination System (VPDES) Industrial Stormwater Permit are authorized to discharge through the MS4. Those County facilities that hold a VPDES Industrial Stormwater Permit shall follow the conditions established under that permit, including development and implementation of a

Stormwater Pollution Prevention Plan (SWPPP). When possible, VPDES Industrial Stormwater Permit holders and the Stormwater Planning Division shall review appropriate SOPs, BMPs, and guidelines for inclusion in the facility's SWPPP with final approval by the site's director.

Significant updates or changes to this SOP will be distributed to representatives from all applicable County agencies for approval. For any questions, please contact

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