



# Rhode Island Department of Environmental Management

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## FOR IMMEDIATE RELEASE:

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## DEM ADVISES IDENTIFYING POTENTIAL SNOW DISPOSAL SITES TO PREVENT CONTAMINATION OF WATER SUPPLIES THIS WINTER

PROVIDENCE, RI – With the region’s temperature cooling and snowfall likely in the coming weeks, the Rhode Island Department of Environmental Management (DEM) is reminding businesses, households, community groups, and state and local government agencies to begin preparations for snow disposal. DEM has developed [guidelines](#) to assist organizations with selecting and preparing snow collection sites to minimize impacts on the environment and public health.

Snow collected from roads, parking lots, bridges, and sidewalks may contain harmful contaminants such as road salt, sand, pollutants, and litter that can compromise water supplies. To minimize the risks, DEM advises organizations to:

- Locate snow collection sites near or on permeable (porous) surfaces in upland areas away from water resources and wells. This will allow snowmelt to filter into the soil, leaving behind sand and debris. The latter should be removed as soon as possible, but no later than springtime.
- Prepare and maintain snow collection sites to maximize their effectiveness. Installing a silt fence or sediment barriers on the down-sloping side of the site, maintaining a vegetative buffer between the site and adjacent water bodies, and clearing away debris before and after using the area for snow disposal are effective preparation techniques.
- Under normal winter conditions, store and dispose of snow only in upland areas and not in or near waterbodies or wetlands. DEM’s [Snow Disposal Policy](#) includes guidance on emergency disposal of snow under extraordinary circumstances when upland snow storage options are exhausted.



For more information, contact Jennifer Stout in DEM's Office of Water Resources via email at [Jennifer.Stout@dem.ri.gov](mailto:Jennifer.Stout@dem.ri.gov) or at (401) 222-4700, X2777726.

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**RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF WATER RESOURCES**  
**SUBJECT: Snow Disposal Policy**



Assistant Director for Water Resources: \_\_\_\_\_

*Alicia M. Good*

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DATE 1/25/11

**APPLICABILITY & PURPOSE:**

To provide guidelines to all government agencies and private businesses regarding snow disposal site selection, site preparation and maintenance, and emergency snow disposal options that are acceptable to the Department of Environmental Management - Office of Water Resources. This policy is only for the disposal of snow and ice which is not visibly contaminated with material other than salt and sand from road clearance.

**INTRODUCTION:**

Finding a place to dispose of collected snow poses a challenge to municipalities and businesses as they clear roads, parking lots, bridges, and sidewalks. While we are all aware of the threats to public safety caused by snow, collected snow that is contaminated with road salt, sand, litter, and automotive pollutants such as oil also threatens public health and the environment.

As snow melts, road salt, sand, litter, and other pollutants are transported into surface water or through the soil where they may eventually reach the groundwater. Road salt and other pollutants can contaminate water supplies and are toxic to aquatic life at certain levels. Sand washed into water bodies can create sand bars or fill in wetlands and ponds, impacting aquatic life, causing flooding, and affecting our use of these resources. There are several steps that communities, government agencies, and private businesses can take to minimize the impacts of snow disposal on public health and the environment.

The purpose of these guidelines is to help municipalities and businesses select, prepare, and maintain appropriate snow disposal sites before the snow begins to accumulate throughout the winter.

**RECOMMENDED GUIDELINES:**

Disposal should consider site selection, site preparation and maintenance, and emergency snow disposal locations and procedures.

**1. a. Site Selection**

The key to selecting effective snow disposal sites is to locate them adjacent to or on pervious surfaces in upland areas away from water resources and wells. At these locations, the snow meltwater can filter in to the soil, leaving behind sand and debris which should be removed as soon as possible but no later than the springtime.

When selecting a site for snow disposal, adhere to the following guidelines:

- \* Avoid dumping snow into any water body, including rivers, reservoirs, ponds, lakes, wetlands, bays or the ocean. In addition to water quality impacts and flooding, snow disposed of in open water can cause navigational hazards when it freezes.

- ✳ Do not dump snow within a Wellhead Protection Area (WHPA) of a public water supply well or within 200 feet of a private well, where road salt may contaminate water supplies.
- ✳ Avoid dumping snow in sanitary landfills and gravel pits. Snow meltwater will create more contaminated leachate in landfills posing a greater risk to groundwater. In gravel pits, there is little opportunity for pollutants to be filtered out of the meltwater, because groundwater is close to the land surface.
- ✳ Avoid disposing of snow on top of storm drain catch basins or in stormwater drainage swales or ditches. Snow combined with sand and debris may block a storm drainage system, causing localized flooding. In addition, a high volume of sand, sediment, and litter released from melting snow also may be quickly transported through the drainage system into surface water.

#### **1. b. Site Selection Procedures**

It is important that the municipal Department of Public Works or Highway Department, and other appropriate municipal offices work together to select appropriate snow disposal sites. The following steps should be taken:

- ✳ Estimate how much snow disposal capacity is needed for the season so that an adequate number of disposal sites can be selected and prepared.
- ✳ Identify sites that could potentially be used for snow disposal such as municipal open space (e.g., parking lots or parks).
- ✳ Sites located in upland locations that are not likely to impact sensitive environmental resources should be selected first; and
- ✳ If more storage space is needed, prioritize the sites with the least environmental impact (using the site selection criteria and the online Environmental Resource Map as a guide).

#### **1. c. Environmental Resource Map**

An interactive map containing a wide variety of GIS data layers of interest to local planning or zoning board members, consultants or anyone else needing a general mapping of soils, wetlands, land use patterns, regulatory overlay districts and other environmental information can be accessed via the internet at the following address:

<http://www.dem.ri.gov/maps/index.htm>

This interactive map can be used to identify publicly owned open spaces and approximate locations of sensitive environmental resources (locations should be field verified where possible).

#### **2. Site Preparation and Maintenance**

In addition to carefully selecting disposal sites before the winter begins, it is important to prepare and maintain these sites to maximize their effectiveness. The following maintenance measures should be undertaken for all snow disposal sites:

- ✳ A silt fence or equivalent barrier should be placed securely on the downgradient side of the snow disposal site;
- ✳ To filter pollutants out of the meltwater, a 50-foot vegetative buffer strip should be maintained during the growth season between the disposal site and adjacent water bodies;

- ✱ Debris should be cleared from the site prior to using the site for snow disposal; and
- ✱ Debris should be cleared from the site and properly disposed of at the end of the snow season.

### **3. Emergency Snow Disposal**

Under normal winter conditions, storage and disposal of snow should be done exclusively in upland areas, not in or adjacent to waterbodies or wetlands. However, under extraordinary conditions when upland snow storage options are exhausted, it may be necessary to dispose of snow near or in certain water bodies. The following guidance does not constitute a Clean Water Act permit for such disposal. However, in an emergency situation, DEM is unlikely to pursue an enforcement action for snow disposal by governmental entities into or near certain waters if conducted in accordance with the conditions identified below.

As mentioned earlier, it is important to estimate the amount of snow disposal capacity you will need so that an adequate number of upland disposal sites can be selected and prepared. If despite your planning, designated upland disposal sites have been exhausted, snow may be disposed of at other locations that meet the criteria in Section 1.

Under extraordinary conditions, when all upland snow disposal options are exhausted, disposal of snow that is not obviously contaminated with road salt, sand, and other pollutants may be allowed near (within 50 feet of) or in certain waterbodies under certain conditions. In these dire situations, notify the DEM – Office of Water Resources, RIPDES Program at 222-4700 (or 222-3070 after normal business hours) before disposing of snow in a waterbody. If upland disposal is not available, and snow needs to be removed/relocated for safety reasons, then as a last resort waterways may be used in accordance with the following conditions:

- ✱ Dispose of snow in open water with adequate flow and mixing to prevent ice dams from forming;
- ✱ Do not dispose of snow in coastal or freshwater wetlands, eelgrass beds, vegetated shallows, vernal pools, shellfish beds, mudflats, outstanding resource waters, drinking water reservoirs and their tributaries, Well Head Protection Areas (WHPAs), or other areas designated by the state as being environmentally sensitive;
- ✱ In coastal communities, preference should be given to disposal in salt water if it is available;
- ✱ Do not dispose of snow where trucks may cause shoreline damage or streambank damage or erosion; and
- ✱ Consult with appropriate municipal officials to ensure that snow disposal in water complies with local ordinances and bylaws.

#### **FOR MORE INFORMATION**

If you need additional information, contact the RIPDES Program at the DEM Office of Water Resources located at 235 Promenade Street Providence, RI; Tel. (401) 222-4700 Fax. (401) 222-3564.