

## Truck or Rail Loading and Unloading of Liquid or Solid Material

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This activity applies to the loading and unloading of liquid and solid materials by truck or rail and the transfer of those materials into tanks, containers or other storage areas. Leaks and spills while transferring liquid or solid materials can potentially contribute toxic organic compounds, particulates, oil and grease, nutrients, metals, and harmful pH to stormwater runoff.

### **MINIMUM REQUIREMENTS**

**The following BMPs, or equivalent measures, methods, or practices, are required if you are engaged in loading and unloading of liquid or solid materials:**

- 1** Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations, and when making and breaking connections. Several drip pans should be stored in a covered location near the liquid transfer area so that they are always available, yet protected from precipitation when not in use. Drip pans can be made specifically for railroad tracks. Drip pans must be cleaned periodically, and drip-collected materials must be disposed of properly.  
 See BMP Info Sheet 2 in Chapter 5 for information on disposal options.
- 2** Sweep loading/unloading areas as needed to remove debris. Clean up any material that is spilled during transfer operations immediately. Never wash spilled material or debris to the storm drains or the street.
- 3** To minimize the risk of spills or leaks, ensure employees are trained in and follow proper loading and unloading procedures.
- 4** Store and maintain appropriate spill cleanup materials in a location known to all. Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
- 5** Check equipment for leaks on a regular basis and repair if needed

-  6 Conduct loading and unloading operations under cover if possible.

**ADDITIONAL BMPs**

**The following BMPs are optional unless the above minimum required BMPs do not provide adequate source control:**

-  1 Pave areas where liquids are transferred to and from tanker trucks. Use Portland cement concrete for fuels such as gasoline that react with asphalt.
-  2 Install a curb or dike, or slope the area to prevent stormwater from running on to the loading/unloading area and washing away spilled material.

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For more information or assistance in implementing these best management practices, contact the King County Department of Natural Resources and Parks Water and Land Resources Division at 206-296-1900.

Reader Note: The above requirements are the minimum required BMPs. If these BMPs fail to prevent discharges to the storm drainage system, you will be asked to take additional measures to correct the continued pollution discharges.