

# Storm Water BEST MANAGEMENT PRACTICES



## Material Delivery and Handling

Responsible management of material delivery and handling can significantly reduce pollution to storm water runoff. Bulk and containerized products (such as bottles, cans, and drums) must be handled properly in all stages of delivery, use and storage. Proper delivery and handling practices reduce the likelihood of accidental spills or releases of hazardous materials during storm events. Proper practices will also improve health and safety conditions at the facility.

### BMP Implementation

Material delivery and handling should take place only in designated areas situated near warehouse entrances and staging/storage areas and distant from site drainage inlets and watercourses. The best locations for deliveries are where risks of accidents are reduced and any releases can be contained.

- Maintain accurate and up-to-date records of materials delivered and stored on-site.
- Minimize on-site inventory and handling of hazardous materials.
- Stage containers on pallets, under cover, and, when possible, in secondary containment.

Employees with emergency spill cleanup training should be present during unloading of dangerous materials or liquid chemicals. Appropriate spill response procedures should be developed and posted. Additionally:

- Keep a spill kit appropriate for the received materials readily available, stocked, and ready for use (re-stock after each use).
- Clean up spills immediately using absorbent material or containment booms for liquid spills. Immediately sweep up and properly dispose of used absorbent materials.
- Always use dry methods to clean spills (sweeping) and never hose down the spill area.

Periodic inspections should be performed to verify that the conditions of containers, stockpiles, secondary containment devices, and other structural controls are acceptable. Train employees (document) on proper material delivery, handling and spill response requirements. Report all spills in accordance with the Hawaii Department of Health's (HDOH) Spill Reporting and Emergency Response requirements and document response actions.

HDOH Spill Reporting and Emergency Response website:  
<http://hawaii.gov/health/environmental/hazard/spill.html>

*The State Department of Transportation, Harbors Division has developed the Storm Water Management Plan (SWMP) in compliance with the National Pollutant Discharge Elimination System (NPDES) and the State of Hawaii Municipal Separate Storm Sewer System (MS4) General Permit requirements.*

*The SWMP is administered by the Environmental Section under the Engineering Branch.*

*Phone: 808-587-1962*

*Website:*  
<http://hidot.hawaii.gov/harbors/library/storm-water-management/>