

Stormwater Management

BEST MANAGEMENT PRACTICES



Vehicle and Equipment Fueling

Transfer and storage of bulk petroleum products (i.e. gasoline, diesel fuel, and motor oil) have the potential to pollute stormwater run-off. Implementation of BMPs is required to prevent or reduce petroleum pollutants from entering the stormwater drainage system. Both administrative controls, such as employee training and inspections, and structural controls, such as an automatic shut-off device and secondary containment, are necessary for an effective pollution prevention program.

BMP Implementation

Primary Option: Off-site Fueling

Utilize off-site commercial fueling facilities whenever feasible.

Secondary Option: On-Site Fueling

Vehicle fueling should be conducted only in designated areas specifically designed to contain spills and prevent contact with stormwater.

- Avoid positioning upstream or adjacent storm drainage features.
- Utilize impervious surfaces and containment designed to prevent stormwater run-on/off.
- Ensure spill kits are available (immediately clean up and properly dispose of used absorbent materials).
- Equip dispensing nozzles with automatic shut-off controls.
- Utilize drip pans if remote or mobile fueling is required.

Secondary containment must be provided for aboveground storage tanks if the facility's aggregate shell capacity of containers 55 gallons or greater exceeds 1,320 gallons.

- Containment required to be 110% of largest tank capacity.
- Containment required to have locking drain valve.
- Record containment inspections and uncontaminated rain water discharges.
- Develop Spill Prevention, Control, and Countermeasures (SPCC) Plan required per Federal/State regulations.

Periodic inspections should be performed of petroleum handling equipment and other structural controls. Train employees (document) on proper fueling and spill response responsibilities. Report all spills in accordance with the Hawaii Department of Health's (HDOH) Spill Reporting and Emergency Response requirements and document response actions.

EPA Website for SPCC Guidance
<http://www.epa.gov/oem/content/spcc/>

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 Stormwater Management Program (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.

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