

## SOURCE CONTROL BMPs

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### AIRCRAFT, GROUND VEHICLE, AND EQUIPMENT FUELING

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**DESCRIPTION:**

Prevent fuel spills and leaks, and reduce their impacts to stormwater.

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**TARGETED ACTIVITIES:**

Aircraft Fueling, Ground Vehicle Fueling, Equipment Fueling

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**APPROACH:**

- \* Design fueling areas to prevent the runoff of stormwater and the runoff of spills by employing the following approaches:
    - Cover the fueling area if possible.
    - Use a perimeter drain or slope the fueling area to a dead-end sump.
    - Pave the fueling area with concrete rather than asphalt.
  - \* If a dead-end sump is not used to collect spills, install an appropriately sized oil/water separator.
  - \* Install and maintain vapor recovery systems where appropriate.
  - \* Discourage "topping-off" of fuel tanks.
  - \* Employ secondary containment where feasible when transferring fuel from a tank truck to a fuel tank.
  - \* Use absorbent materials and spot cleaning for small spills; do not hose down areas.
  - \* Observe all Federal, State, and local requirements regarding underground and above ground storage tanks.
  - \* Avoid mobile fueling of mobile equipment if feasible; fuel mobile equipment at designated fueling areas.
  - \* Develop and maintain a Spill Prevention Control and Countermeasure (SPCC) Plan as required by Federal regulations.
  - \* Provide enhanced spill response training to appropriate personnel to address larger spills.
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**REQUIREMENTS:**

- \* Capital and O&M Costs:
    - The cost of retrofitting existing fueling areas to minimize stormwater contamination can be high. Practical design concepts such as incorporating extruded curb along the upstream side of facilities to prevent runoff of stormwater can be of modest cost.
  - \* Maintenance:
    - Clean oil/water separators at appropriate intervals.
    - Stock adequate supplies of cleanup materials at potential spill points.
    - Inspect fueling areas and storage tanks regularly.
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**LIMITATIONS:**

Properly sized and installed oil/water separators must be regularly maintained to be effective.

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