**Environmental Management Practices**

**Activity:** Vehicle and Equipment Maintenance

**EMP No. O-11**

**Description:**
Prevent the discharge of pollutants from vehicle and equipment maintenance activities

**Targeted Activities:**
- Vehicle Maintenance
- Equipment Maintenance
- Vehicle and Equipment Painting/Stripping

**Development EMPs:**
Design new facilities to
- Provide covered maintenance areas
- Minimize run-on of stormwater into maintenance area
- Provide oil/water separators on floor drains
- Maintain oil/water separators as discussed in EMP O-6
- Connect floor drains to sanitary sewer or dead end sump
- Provide adequate space for storage of chemicals and waste products
- Provide secondary containment areas in use and in storage
- Protect storage area from high traffic areas
- Provide paint booths to contain overspray and treat air emissions as required
- Provide separate steam cleaning/high pressure wash booth
  - Connect to oil/water separator and sanitary sewer

**Potential Pollutants:**
- Oils and Grease
- Petroleum Hydrocarbons
- Coolants
- Solvents

**Target Environmental Media:**
- Surface Water
- Air
- Soil

**US Regulatory Requirements & Guidance:**
- 40 CFR 50-99 Clean Air Act Regulations
- 40 CFR 110.3 Discharge of Oil
- 40 CFR 112 Oil Pollution Prevention (SPCC/OPA Plans)
- 40 CFR 117.3 Determination of Reportable Quantities for a Hazardous Substance
- 40 CFR 122-124 NPDES Regulations for Storm Water Discharges
- 40 CFR 264-265 Preparedness, Prevention and Contingency (PPC) Plan
- 40 CFR 401 Effluent Limitation Guidelines
- 49 CFR 171-173, 175, and 177 Department of Transportation (DOT) Regulations
- State and Local Regulations as appropriate to the Port
Environmental Management Practices

EMP No. O-11

Operational EMPs:
- Move maintenance activities indoors, or provide cover over work area
- Keep equipment clean and perform maintenance in suitable areas; eliminate excessive amounts of external oil and grease buildup
- Use non-chlorinated solvents and cleaning agents
- Provide runoff controls that prevent discharge to storm sewers
- Use designated washing and steam cleaning/degreasing areas to clean equipment
  - These areas should be equipped with runoff controls that prevent discharge to storm sewers.
- Use drip pans under activities
- Use absorbent pads at potential problem areas
- Adequately collect and remove absorbent pads from area after use and dispose of it in an appropriate manner.
- Drain and crush oil filters (and oil containers) before recycling or disposal
  - Store crushed oil filters and empty lubricant containers in a leakproof container/receptacle
- Clean any catch basins that receive runoff from a maintenance area regularly
- Block storm drainage inlets (i.e., drain plug or blocker mat) and use a vacuum truck to collect wastes
- Label storm drain inlets “Storm Drain No Dumping”
- Do not hose down work areas to the storm drain, or use concrete cleaning products unless the storm drain inlet is blocked and washwater is collected and properly disposed of through a permitted connection to an approved treatment facility.
- Use mops, dry sweeping compounds, or contract professional cleaning services
- Store mechanical parts and equipment that may yield even small quantities of contaminants (i.e., oil and grease) under cover
- Drain all fluids and remove batteries from salvage vehicles and equipment
- Recycle or properly dispose of the following: greases, oils, antifreeze, brake fluid, cleaning solutions, hydraulic fluids, batteries, transmission fluids, and filters
- Use biodegradable products and substitute materials with less hazardous properties where feasible.
- Install and maintain catch basin filter inserts that assist in the removal of oil and grease, sediments and floatables
- Clean up spills as they occur
- Keep parts washer lids closed to reduce air emissions
- Properly label and store wastes as described in EMP O-5

Considerations:
- Provide employee training in chemical and waste handling and disposal and spill response
- Provide adequate supplies of appropriate spill response material
- Conduct routine inspections on maintenance activities and chemical/waste storage and handling
- Conduct routine maintenance on secondary containment structures, oil/water separators; paint booths; and steam cleaning/pressure wash booths