

ENVIRONMENTAL MANAGEMENT BULLETIN

used oil, fuels, spills, containers, solvent and antifreeze

Prepared by the Directorate of Public Works Environmental Branch 12 Dec, 2007

PURPOSE: This document is intended to provide information concerning the handling/storage/disposal of used oil and fuels contaminated with water. Used oil is any oil that has been refined from crude oil or synthetic oils which have been used for lubrication, cutting oil, heat transfer, hydraulic power or insulation in electric transformers which have been contaminated by physical or chemical impurities. Specific requirements are contained in the Missouri Hazardous Waste Management Regulations. Used oil on Fort Leonard Wood will ultimately be offered for recycling. Specific questions may be addressed to the DPW Environmental Branch at 596-0882.

USED OIL

STORAGE CONTAINER

- Container must be, at a minimum, 55-gallon bung type steel drum. Use of another container must be approved by DPW Environmental Branch.
- Container must be stenciled "USED OIL" in letters at least 1 1/2 inches high.
- Container must be placed on hardstand; i.e. concrete or asphalt. Container must be kept closed except when adding oil.
- Container must have secondary containment; i.e. sandbags placed around the container or a concrete structure or metal pan capable of containing 110% of container capacity in the event of a rupture.
- Containment structure must be maintained in accordance with guidance given below.
- Oil tanks will be pumped by the DPW contractor. Pumping can be accomplished by scheduled service, or by contacting the DPW Service Order Desk at 596-0333.
- Used oil collected on Fort Leonard Wood will ultimately be offered for recycling.

SPILLS

- A copy of the Spill Prevention and Response Plan (SPRP) must be kept on hand at each facility that handles or stores POL products.
- A spill containment kit must be kept at each facility that handles or stores POL products. Kit will include, at a minimum, a 55-gallon steel or poly drum, absorbent materials, broom, and a dustpan. Kit will be stenciled "Spill Kit" and will be placed in a designated area in which all building occupants are familiar with location. Enclosed is a list of spill kits available through supply. (Encl 1)
- Any spill must be reported immediately in accordance with the SPRP (Dial 911) and proper containment measures employed by facility occupants. If using a cellular phone dial 573-596-7175.

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- ALL spills will be cleaned up by facility occupants if manpower and equipment are available as required by AR 200-1. If resources are unavailable, the DPW contractor may be notified for spill cleanup by contacting the DPW Service Order Desk at 596-0333.

DISPOSAL

- Floor sweep: Cleanup materials from POL spills exceeding 10 pounds will be treated at the Soil Reclamation Building (BLDG 2267). Floor sweep cleanup materials less than 10 pounds must be placed in a double plastic bag and placed into a dumpster.
- Soil: Any quantity of soil material contaminated from POL spills must be treated at the Soil Reclamation Building.
- Other cleanup materials such as absorbent pads and socks will be placed in a double plastic bag (no free flowing liquid permitted) and placed into a dumpster or turned into DRMO following the DPW Hazardous Waste Turn-in Procedures.
- Prior to disposal of POL contaminated soil into the Soil Reclamation Building, a special waste disposal form must be obtained from the DPW Environmental Branch. Please contact the DPW Base Maintenance Contractor 596-7733 (BLDG 2212) prior to placing contaminated soil in BLDG 2267.
- Oil filters must be punctured, inverted and “hot drained” for a period of at least 24 hours before disposal. After this period, oil filters must be placed in a dumpster specifically designated for oil filter recycling if available. If this service is not available double bag the pre-drained filters in plastic bags and discard in the regular solid waste dumpster.
- Hydraulic fluid, brake fluid and transmission fluid may be mixed with used oil. No other fluids or lube grease should be placed in used oil containers. No absorbent material, oil filters or shop rags should be disposed of in used oil containers. Doing so renders the used oil non-recyclable, requiring disposal as a hazardous waste.
- Soiled rags must be placed in a metal container stenciled “DIRTY RAGS”. All liquid must be removed from rags. The lid must be kept closed except when adding rags.
- Soiled rags must be taken to the Post Laundry to be exchanged for clean rags, or turned in as a Hazardous Waste.

GASOLINE

(CONTAMINATED WITH WATER OR OTHER MATERIAL)

- Gasoline contaminated with water or other material must be managed as a Hazardous Waste and turned in following the DPW Hazardous Waste Turn-in Procedures.
- All spills must be handled in the same manner as stated above in the used oil spill requirements.

DIESEL FUEL

(CONTAMINATED WITH WATER ONLY)

STORAGE CONTAINER

- Diesel fuel contaminated with water will be stored in a container stenciled “BOILER FUEL”.
- Container must be placed on hardstand. Container must be kept closed except when adding diesel fuel.

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- Containers must have secondary containment.
 - Only diesel fuel may be added to this container.
 - Diesel fuel collected on Fort Leonard Wood will be used as a boiler fuel, saving energy costs.
 - Container will be pumped by the DPW contractor. Pumping can be accomplished by notifying the DPW Service Order Desk at 596-0333.
 - Container must be stored in a well ventilated area.
 - All spills must be handled in the same manner as stated above in the used oil spill requirements.
 - If fuel is contaminated with anything other than water, it must be managed as a Hazardous Waste.
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REQUIREMENTS FOR MAINTAINING SECONDARY CONTAINMENT ON STORAGE CONTAINER/TANK

- All secondary containment structures must be maintained in order to prevent collection of rainwater.
- If secondary containment structures are provided with a rainwater drain valve, rainwater should be drained after each measurable rain, if any collection of rainwater occurs.
- Drain valve must remain secured (locked) in the closed position at all times unless draining rainwater from containment structure.
- Drain valve must be manned during draining of rainwater.
- Only rainwater will be drained from containment structure. Should an oily sheen be visible on the water, drain valve should not be opened. Sheen must be removed from water by use of absorbent blankets before draining or rainwater can be pumped. Pumping can be accomplished by calling the DPW Service Order Desk at 596-0333.

SOLVENT

- All solvent users will recycle their solvent to ensure Army policy to reduce hazardous waste is met. These standards are outlined in AR 200-1, Chapter 5.
- Solvent tank users that procure off-site vendor service for recycling solvent will coordinate with the DPW Environmental Branch and contract through Directorate of Contracting (DOC) with an EPA permitted or State authorized solvent recycling company
- All solvent tank users must follow guidelines for safe use of solvent tanks, reference memorandum IMNW-LNW-PWEE, subject: Environmental Management Procedures for Solvent Tanks.
- Parts washer lids must be kept closed except when in use.
- All spills must be reported in the same manner as stated above in the used oil spill requirements.

ANTIFREEZE

- Used antifreeze will be stored in a container stenciled "Recyclable Antifreeze".
- Container must be placed on hardstand. Container must be kept closed except when adding antifreeze.
- Only antifreeze may be added to container.

- Used antifreeze collected on Fort Leonard Wood should be recycled by the DOL Maintenance Facility. Arrangements for recycling used antifreeze can be accomplished by calling 596-0892.

SPILL KITS

ITEM

NSN 4235-01-

Loose absorbent, 1 cu-ft, (4 per box)	423-1466
Loose absorbent, 2 cu-ft, (3 per case)	423-0711
Pad, 18x18x3-in, (30 per box)	423-1463
Socks, 2-in x 10-ft (20 per box)	423-1467
Socks, 4-in x 8-ft 10-in x 10-ft	423-1465
Boom with clamps, 10-in x 10-ft	423-2787
Spill response kit, water resistant nylon tote bag	432-7909
Spill response kit, 25-gal drum with seven 18x18x3-in pads, one 4-in x 8-ft sock, two 4-in x 4-ft socks, one 3/4-cu ft bag, two Tyvek suits, pair nitrile gloves, one pair safety goggles and tree disposal bags	432-7912
Spill response kit 55-gal drum with fifteen 18x18x3-in pads, one 4-in x 8-ft sock, two 4-in x 4-ft socks, three 3/4-cu ft bags, three Tyvek suits, three pair nitrile gloves, three pair safety goggles and five disposal bags	432-7912
Spill response kit, 55-gal drum with ten 18x18x3-in pads, five 2 x 10-ft socks, 423-7221 five 3/4-cu ft bags, two quarts of emulsifier, two pair nitrile gloves, one folding shovel, one 3 1/2-gal bucket, two Tyvek suits, two pair safety goggles, one scoop, five disposal bags	423-7221

(Encl 1)