

CONSTRUCTION SITE POLLUTION PREVENTION (P2)



HAZARD LABELS



COMPRESSED
GASES, N.O.S.
UN 1956
L855-1956



ADHESIVES
UN 1133
L855-1133



GAS OIL
UN 1202
L855-1202



PAINT RELATED
MATERIAL
UN 1263
L855-1263



PETROLEUM
CRUDE OIL
UN 1267
L855-1267



FUEL, AVIATION,
TURBINE ENGINE
UN 1863
L855-1863



OXIDIZING
SOLID, N.O.S.
UN 1479
L855-1479



OXIDIZING
LIQUID, N.O.S.
UN 3139
L855-3139



PESTICIDE, SOLID,
TOXIC, N.O.S.
UN 2588
L855-2588

POLLUTION PREVENTION (P2) BMPs

- Waste Management
 - Trash
 - Concrete Waste
- Vehicle Maintenance & Washing
- Spill Control & Response



GOOD HOUSEKEEPING



- Recycle
- Use common sense
- Prevent contact between rainfall and pollutant sources
- Filter contaminated runoff

SITE POLLUTION PREVENTION

Standard Detail & Specifications

Site Pollution Prevention



Notes:

The Construction Site Pollution Prevention Plan should include the following elements:

1. Material Inventory

Document the storage and use of the following materials:

- a. Concrete
- b. Detergents
- c. Paints (enamel and latex)
- d. Clearing solvents
- e. Pesticides
- f. Wood scraps
- g. Fertilizers
- h. Petroleum based products

2. Good housekeeping practices

- a. Store only enough product required to do the job
- b. All materials shall be stored in a neat, orderly manner in their original labeled containers and covered.
- c. Substances shall not be mixed.
- d. When possible, all of a product shall be used up prior to disposal of the container.
- e. Manufacturers' instructions for disposal shall be strictly adhered to.
- f. The site foreman shall designate someone to inspect all BMPs daily.

3. Waste management practices

- a. All waste materials shall be collected and stored in securely lidded dumpsters in a location that does not drain to a waterbody.
- b. Waste materials shall be salvaged and/or recycled whenever possible.
- c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.

Source: Adapted from USEPA Pub. 840-B-99-007	Symbol:	Detail No. DE-ESC-3.6.1 Sheet 1 of 3 Date: 12/08
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- How it Should Appear on the Sediment and Stormwater Plan

WASTE MANAGEMENT BMPs



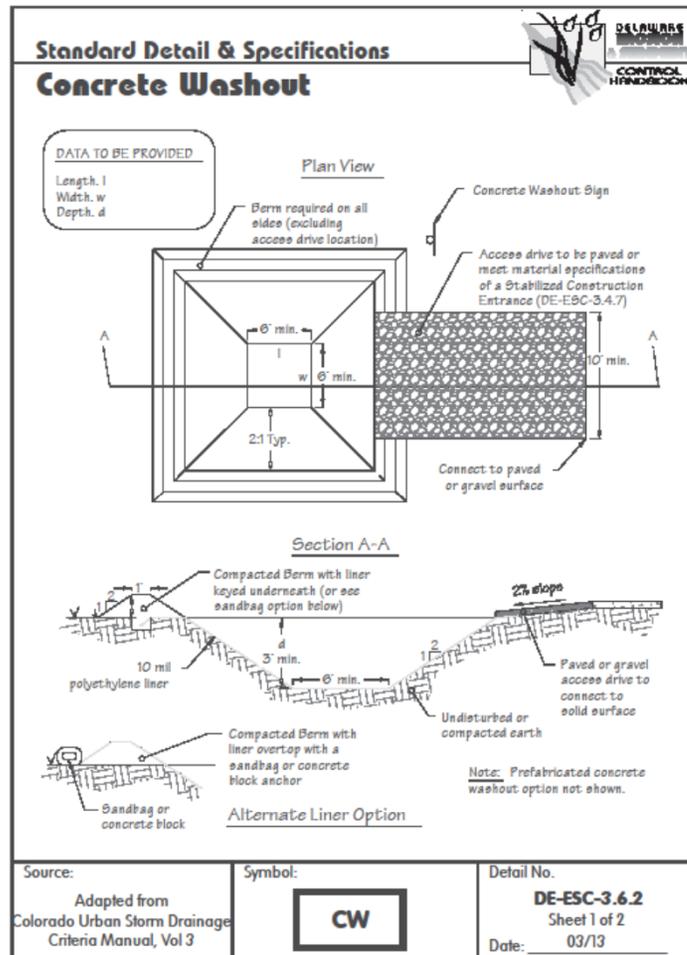
- Properly dispose of all waste materials
- Prohibit littering
- Provide trash containers at lunch spots
- Ensure that containers have watertight lids
- Securely cover all waste stockpiles & storage areas





Tech Doc – ESC Handbook

P2 Practice – Concrete Washout



- Installed with a stabilized construction entrance to access the washout area
- Detail has options of how to secure the poly lining using concrete blocks, berm, or sand bags
- Concrete is classified as inert once it is dry; can be buried on site

CONCRETE WASHOUT

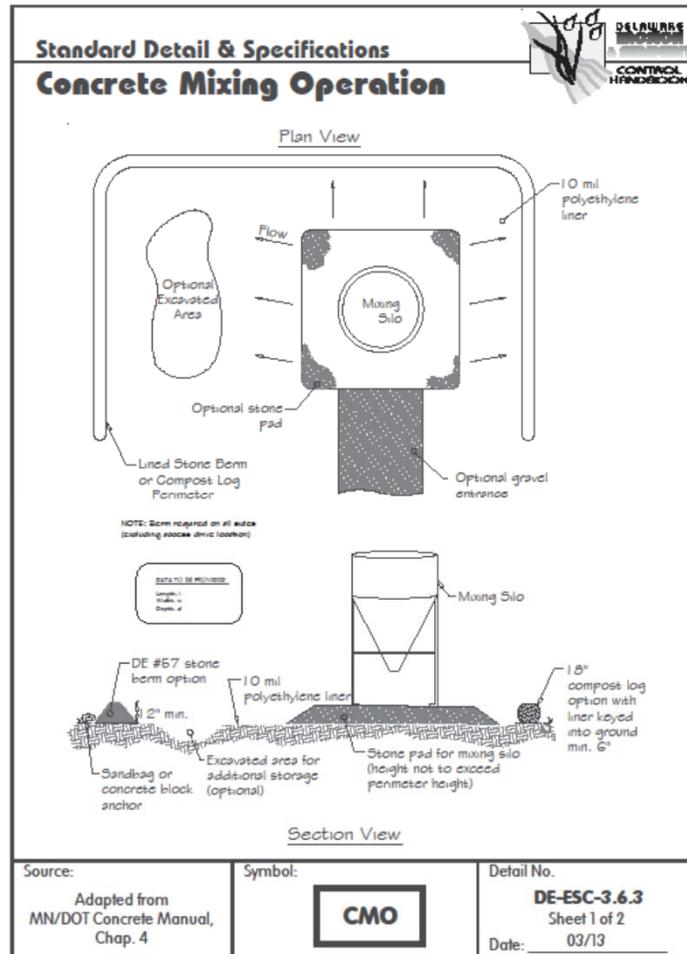
- New Delaware specification requires poly-lined disposal areas
- Only water from rinsing the chute, excess concrete should be hauled off
- Allow to harden, then dispose of the concrete properly
- EPA requires sign



Never washout concrete into any stormwater conveyance system.

Tech Doc – ESC Handbook

P2 Practice – Concrete Mixing Operation



- Designated and protected area to capture concrete slurry
- Bermed on 3 sides and poly-lined
- Mixing area has to provide ample access for the transport vehicles
- Must provide a paved or gravel access to the mixing operation

ON-SITE CONCRETE MIXING OPERATIONS

- Never place the plant near any type of drainage or stormwater conveyance
- This is a violation



VEHICLE MAINTENANCE & WASHING BMPs

- Establish vehicle maintenance and wash areas
- All maintenance areas should be at least 50 feet from drainage courses
- Recycle or infiltrate wash
- Create an impervious berm around maintenance and wash areas
- Inspect equipment and vehicles for leaks daily



EQUIPMENT MAINTENANCE AND SPILL PREVENTION



- Use drip pans or absorbent pads
- Create impervious berm around maintenance and wash areas
- Inspect equipment and vehicles for leaks daily

• **EMERGENCY SPILLS (24 hr.)**

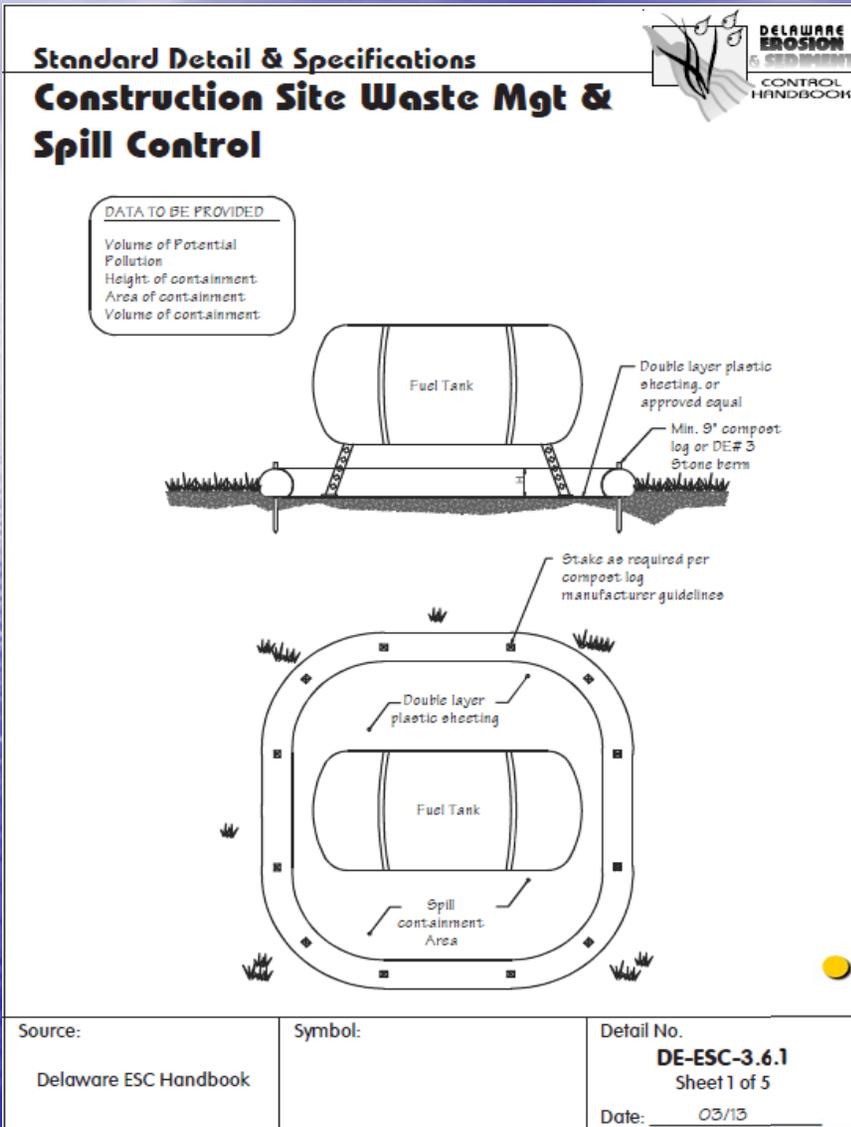
1-800-662-8802

SPILL CONTROL

- Potential spill areas are required to have containment or controls
- EPA requires that the drums be labeled
- Tank Containment BMPs must have enough capacity to hold the full amount in the tank
- Report on equipment in need of preventive maintenance that includes: tanks, valves, pumps, and pipes that could be potential sources of a spill



SPILL CONTROL



- P2 Practices – Fuel Containment
- For single-walled fuel containers, there must be secondary containment installed
- A poly-lined berm area filled with stone that must contain the same volume as the fuel tank
- **EMERGENCY SPILLS (24 hr.)**

1-800-662-8802

SPILL CONTROL



SPILL RESPONSE

- Always be prepared for a spill emergency
- Have an emergency spill plan readily available
- Identify individuals responsible for carrying out the plan
- Have emergency spill phone number posted



24-Hour DNREC Hotline: 1-800-662-8802

CONSTRUCTION SITE P2

- Encourage Recycling
- Prevent littering
- Waste containers w/ lids
- Concrete Management
- No leaking equipment
- Proper vehicle washing
- Appropriate containment
- Spill response kit

