

## 2.6.5 Concrete Washout

**Operation or Site Condition:** Concrete supplier and concrete materials workers will need a place to wash equipment and dispose of excess material.

**Instruction:** Concrete Supplier X and Brick Mason X you are required to wash your equipment and excess material in this BMP. Do not wash your chassis on the street. Practice BMP 2.5.1 if mud sticks to your tires. This BMP provides a adequate location to clean equipment including washing your chassis and will prevent mud from sticking to your tires.

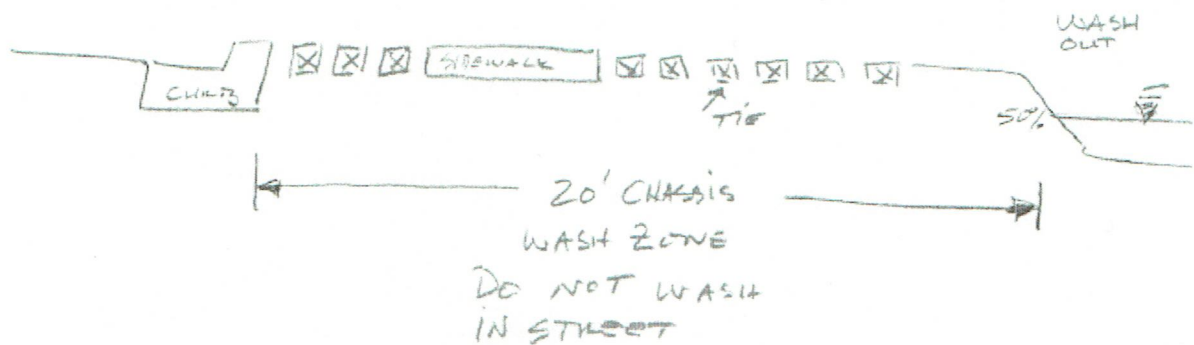
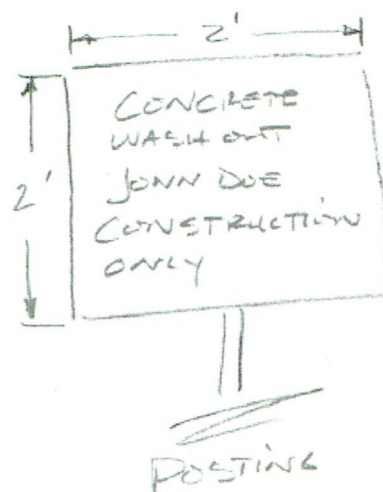
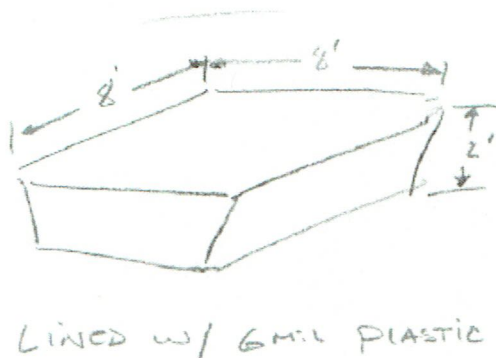
**Schedule:** Prior to concrete pours

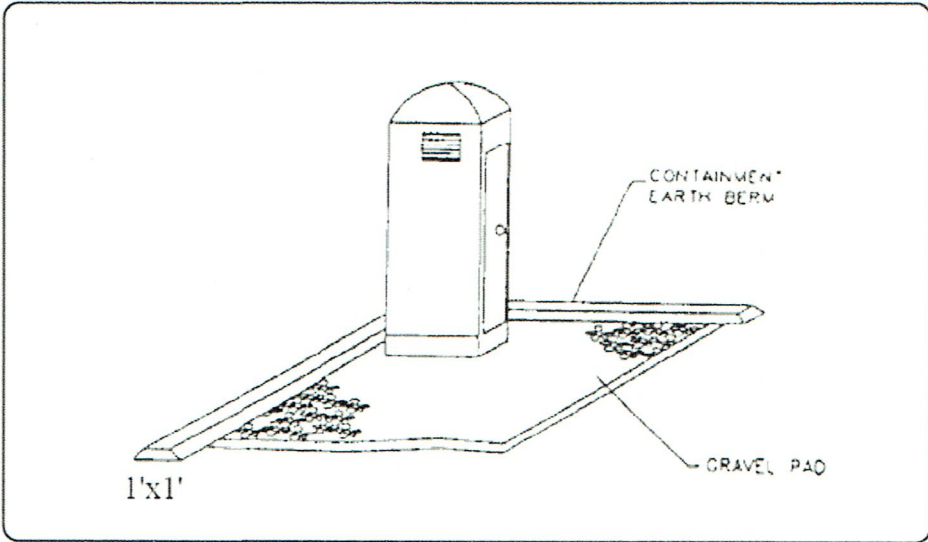
**Maintenance:** Replace when 50% full

**Maintenance Personnel:** Project Manager

**Applicable Trades:** Footing/Foundation, Flat Workers, Brick Masons, Painters and Interior Finishers

**Detail:**





**DESCRIPTION:**

Temporary on-site sanitary facilities for construction personnel.

**APPLICATION:**

- ▶ All sites with no permanent sanitary facilities or where permanent facility is too far from activities.

**INSTALLATION/APPLICATION CRITERIA:**

- ▶ Locate portable toilets in convenient locations throughout the site.
- ▶ Prepare level, gravel surface and provide clear access to the toilets for servicing and for on-site personnel.
- ▶ Construct earth berm perimeter (See Earth Berm Barrier Information Sheet), control for spill/protection leak.

**LIMITATIONS:**

No limitations.

**MAINTENANCE:**

- ▶ Portable toilets should be maintained in good working order by licensed service with daily observation for leak detection.
- ▶ Regular waste collection should be arranged with licensed service.
- ▶ All waste should be deposited in sanitary sewer system for treatment with appropriate agency approval.

**OBJECTIVES**

- Housekeeping Practices
- Contain Waste
- Minimize Disturbed Areas
- Stabilize Disturbed Areas
- Protect Slopes/Channels
- Control Site Perimeter
- Control Internal Erosion



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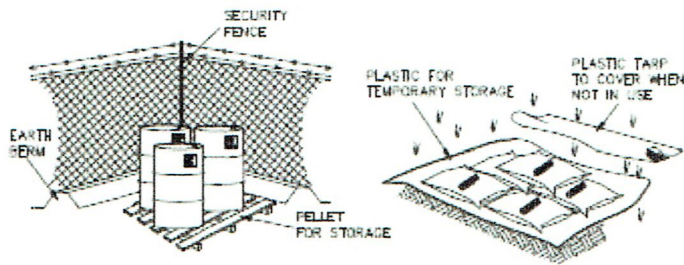
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**TARGETED POLLUTANTS**

- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Waste
  
- High Impact
- Medium Impact
- Low or Unknown Impact

**IMPLEMENTATION REQUIREMENTS**

- Capital Costs
- O&M Costs
- Maintenance
- Training
  
- High
- Medium
- Low



- ▶ CONTROLLED STORAGE LOCATION
- ▶ BERMED PERIMETER IMPOUNDMENT
- ▶ STORAGE OFF GROUND
- ▶ COVER WHEN NOT IN USE

## DESCRIPTION:

Controlled storage of on-site materials.

## APPLICATION:

- ▶ Storage of hazardous, toxic, and all chemical substances.
- ▶ Any construction site with outside storage of materials.

## INSTALLATION/APPLICATION CRITERIA:

- ▶ Designate a secured area with limited access as the storage location. Ensure no waterways or drainage paths are nearby.
- ▶ Construct compacted earthen berm (See Earth Berm Barrier Information Sheet), or similar perimeter containment around storage location for impoundment in the case of spills.
- ▶ Ensure all on-site personnel utilize designated storage area. Do not store excessive amounts of material that will not be utilized on site.
- ▶ For active use of materials away from the storage area ensure materials are not set directly on the ground and are covered when not in use. Protect storm drainage during use.

## LIMITATIONS:

- ▶ Does not prevent contamination due to mishandling of products.
- ▶ Spill Prevention and Response Plan still required.
- ▶ Only effective if materials are actively stored in controlled location.

## MAINTENANCE:

- ▶ Inspect daily and repair any damage to perimeter impoundment or security fencing.
- ▶ Check materials are being correctly stored (i.e. standing upright, in labeled containers, tightly capped) and that no materials are being stored away from the designated location.

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## TARGETED POLLUTANTS

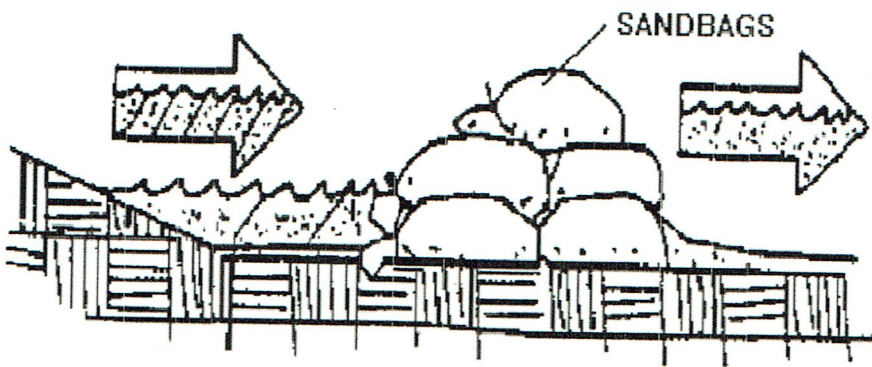
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## DESCRIPTION:

Stacking sand bags along a level contour creates a barrier which detains sediment laden water, ponding water upstream of the barrier and promoting sedimentation.

## APPLICATION:

- ▶ Along the perimeter of the site.
- ▶ May be used in drainage areas up to 5 acres.
- ▶ Along streams and channels
- ▶ Across swales with small catchments.
- ▶ Around temporary spoil areas.
- ▶ Below the toe of a cleared slope.

## INSTALLATION/APPLICATION CRITERIA:

- ▶ Install along a level contour.
- ▶ Base of sand bag barrier should be at least 48 inches wide.
- ▶ Height of sand bag barrier should be at least 18 inches high.
- ▶ 4 inch PVC pipe may be installed between the top layers of sand bags to drain large flood flows.
- ▶ Provide area behind barrier for runoff to pond and sediment to settle.
- ▶ Place below the toe of a slope.

## LIMITATIONS:

- ▶ Sand bags are more expensive than other barriers, but also more durable.
- ▶ Burlap should not be used.

## MAINTENANCE:

- ▶ Inspect after each rain.
- ▶ Reshape or replace damaged sand bags immediately.
- ▶ Replace sediment when it reaches six inches in depth.

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