

**MISCELLANEOUS PRACTICES**

**MSC**

**TEMPORARY CONCRETE WASHOUT FACILITY**

Code 954

**MSC**



Credit: IUM Technical Review Committee

**DEFINITION**

A device used to manage liquid and solid wastes from concrete usage on construction sites.

**PURPOSE**

To control concrete wastes to prevent both on-site and off-site pollution.

**CONDITIONS WHERE PRACTICE APPLIES**

On any construction site where concrete is used.

**CRITERIA**

The following steps shall be taken to effectively control concrete wastes.

1. Perform washout of concrete mixer trucks in designated areas only.
2. Each facility shall have appropriate signage to inform concrete equipment operators of the proper washout locations.
3. Each facility shall be located in an area protected from possible damage from construction traffic and have a stabilized access to prevent tracking onto streets.
4. Washout facilities shall be located on level ground and a minimum of 50 ft. from storm drain inlets and all open drainage facilities. For smaller sites where the distance criteria may not be practical, washout facilities shall be

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**CRITERIA (continued)**

located as far from drainage facilities as possible and additional inspections shall be conducted to ensure no illicit discharges have occurred.

5. Temporary concrete washout facilities shall be supplied in sufficient quantity and size to manage all liquid and solid wastes generated by washout operations.
6. Washout water from low volume facilities shall be allowed to evaporate and not be discharged into the environment.
7. Washout water from high volume facilities shall be removed with a vacuum truck and taken back to the batch plant. Washout water shall not be discharged into the environment.
8. Solidified concrete waste from washout facilities shall be considered Clean Construction or Demolition Debris (CCDD) as per the Illinois Environmental Protection Act (415 ILCS 5) and disposed of in accordance to the Act.
9. Each facility shall be inspected daily to ensure the container is not leaking or nearing two-thirds capacity of either solids, liquids or a combination of both.

Prefabricated Concrete Washout Facilities

1. Prefabricated facilities can be any water tight unit designed to contain concrete slurry and solids.
2. Prefabricated facilities shall be of sufficient volume and quantity to contain all the liquids and concrete waste generated by washout operations.

Temporary Concrete Washout Facilities "Above Grade"

1. Above grade washout facilities shall be constructed with a minimum length and minimum width of 3m (10ft) but of sufficient volume and quantity to contain all the liquids and concrete waste generated by washout operations.
2. The walls of the above grade facilities may be constructed of straw bales, barrier walls or earthen berms. If straw bales are used, they shall be entrenched 3" into the earth, butted tightly end to end and staked in place using 2"x2"x4' wooden stakes. If barrier walls are used, they shall be butted tightly end to end.
3. The facility shall be lined with a 30-mil polyethylene liner and secured using sand bags, 6" wire staples, or other

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(continued)

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**CRITERIA (continued)**

anchors. The plastic lining material shall be free of holes and tears and must be impermeable.

Temporary Concrete Washout Facilities "Below Grade"

1. Below grade washout facilities shall be constructed with a minimum length and minimum width of 3m (10ft) but of sufficient volume and quantity to contain all the liquids and concrete waste generated by washout operations.
2. The soil base shall be prepared free of rocks or debris that may cause tears or holes in the plastic lining material.
3. The facility shall be lined with a 30-mil polyethylene liner and secured using sand bags, 6" wire staples or other anchors. The plastic lining material shall be free of holes and tears and must be impermeable.

Removal of Temporary Washout Facilities

1. When temporary concrete washout facilities are no longer required for the work, the facilities shall be removed from the site of the work.
2. Holes, depressions or other ground disturbances caused by removal of the temporary concrete washout facilities shall be restored to the satisfaction of the engineer.

**OPERATION & MAINTENANCE**

1. Temporary concrete washout facilities shall be maintained to provide adequate holding capacity with a minimum freeboard of 100mm (4 in) for above grade facilities and 300mm (12 in) for below grade facilities. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete or slurry and returning the facilities to a functional condition.
2. Existing facilities must be cleaned, or new facilities must be constructed and ready for use once the washout is two-thirds full.
3. Temporary concrete washout facilities shall be inspected for damage (e.g. tears in plastic liner, missing sand bags, etc.). Damaged facilities shall be repaired promptly.