

Chapter 26: [Stormwater](#)

Category 9 BMPs – Outdoor Material Storage and Handling

Product ID: [348](#) | Revision ID: 2556 | Date published: 19 April 2023 | Date effective: 19 April 2023

URL: <https://www-group.slac.stanford.edu/esh/eshmanual/references/stormBMP09OutdoorMaterialStorage.pdf>

Category 9 *best management practices (BMPs)* prevent stormwater runoff from materials that are handled and stored outdoors, such as chemicals, construction and aggregate materials, radiological shielding materials, metal stock, and staged equipment. (For activities to which these and other BMP categories apply, see [Stormwater: Best Management Practices Index](#).)

Best Management Practices

- 9.1 During the wet season, store the material in one of these ways:
 - Store on a paved surface with a roof or covering so no direct rainfall contacts them, with appropriate berms or mounding, or store on pallets, to prevent run-on of stormwater.
 - Where a roof is not feasible, store material on a paved area that is designed to minimize water pooling (1.5 percent slope). Prevent runoff and run-on with berms or curbs. Material known to pollute stormwater must be stored in areas with blind sumps where water can be tested and documented before release.
 - As a temporary measure, place material on a paved surface and cover with tarps or plastic sheeting, secured with weights or ropes. Use sandbags and/or wattles to create temporary berms or place material on pallets to prevent run-on of stormwater through the material. Move the material to permanent storage as soon as possible.
- 9.2 Maintain outdoor storage containers and covers in good condition. Inspect them periodically for signs of deterioration and remedy as needed.
- 9.3 Implement good housekeeping practices in outdoor storage areas. Such practices include keeping the area clean by sweeping and removing debris and staying organized by placing small items in containers and avoiding indefinite storage of unused items.
- 9.4 In the event of any spill or release, refer to [Chapter 16, “Spills”](#).
- 9.5 Provide required training for personnel who handle hazardous materials and generate hazardous waste. (See [Chapter 17, “Hazardous Waste”](#) and [Chapter 40, “Chemical Lifecycle Management”](#).)
- 9.6 Protect any material that could release particles through sloughing or corrosion or be mobilized by rain or wind from rain, wind dispersal, run-on and runoff using the BMPs outlined above or at least equally effective other measures.

References

[SLAC Environment, Safety, and Health Manual](#) (SLAC-I-720-0A29Z-001)

- [Chapter 26, “Stormwater”](#)
 - [Stormwater: Best Management Practices Index](#) (SLAC-I-750-0A16V-001)
 - [Stormwater: Construction Requirements](#) (SLAC-I-750-0A16S-009)
- [Chapter 11, “Excavation Safety”](#)
- [Chapter 16, “Spills”](#)
- [Chapter 17, “Hazardous Waste”](#)
- [Chapter 40, “Chemical Lifecycle Management”](#)

Other SLAC Documents

- [Water Resources](#)