



CONSIDERATIONS

- Soils
- Area Required
- Slope
- Water Availability
- Aesthetics
- Hydraulic Head
- Environmental Side Effects

DESCRIPTION:

- ▶ Sorbents are materials that are capable of cleaning up spills through the chemical processes of adsorption and absorption. Sorbents adsorb (an attraction to the outer surface of a material) or absorb (taken in by the material like a sponge) only when they come in contact with the sorbent materials.
- ▶ Sorbents include, but are not limited to, the following:
 - ▶ Common materials such as clays, sawdust, straw and fly ash
 - ▶ Polymers - polyurethane and polyolefin
 - ▶ Activated Carbon - powdered or granular
 - ▶ "Universal Sorbent Material" - a silicate glass foam consisting of rounded particles that can absorb the material.

APPLICATION:

- ▶ Sorbents are useful BMPs for facilities with liquid materials onsite.

INSTALLATION/APPLICATION CRITERIA:

- ▶ Personnel should know the properties of the spilled material(s) to know which sorbent is appropriate. To be effective, sorbents must adsorb the material spilled but must not react with the spilled material to form hazardous or toxic substances.
- ▶ Apply immediately to the release area.
- ▶ Application is generally simple: the sorbent is added to the area of release, mixed well, and allowed to adsorb or absorb.
- ▶ Many sorbents are not reusable once they have been used.
- ▶ Proper disposal is required.

LIMITATIONS:

- ▶ Requires a knowledge of the chemical makeup of a spill (to choose the best sorbent).
- ▶ May be an expensive practice for large spills.
- ▶ May create disposal problems and increase disposal costs by creating a solid waste and potentially a hazardous waste.

MAINTENANCE:

- ▶ No information available.



WEBER COUNTY

ENGINEERING DEPARTMENT

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TARGETED POLLUTANTS

- Sediment
- Nutrients
- Heavy Metals
- Toxic Materials
- Oxygen Demanding Substance
- Oil & Grease
- Floatable Materials
- Bacteria & Viruses
- High Impact
- Medium Impact
- Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

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