S446 BMPs for Well, Utility, Directional and Geotechnical Drilling

Description of Pollutant Sources: This activity applies to drilling water wells and utilities, environmental protection and monitoring wells, and geotechnical borings that use machinery in the drilling. It does not apply to the use of devices such as hand augers, or for large structural drilling such as drilled shafts.

Drilling activities can expose soil and contaminated soil. These activities may cause the discharge of stormwater contaminated with sediments and other contaminates. This risk increases when drilling in areas with contaminated soils.

Pollutant Control Approach: Reduce sediment runoff from drilling operations.

Applicable Operational BMPs:

- When drilling in areas of known or suspected soil contamination, test and characterize soil cuttings and
 accumulated sediment to determine proper management and disposal methods. If applicable, generator
 knowledge may be used to characterize the soil cuttings and accumulated sediment.
- · Obtain permits for drilling activities, and for clearing and grading the access routes and the work site.
- Protect environmentally sensitive areas (streams, wetlands, floodplains, floodways, erosion hazards, and landslide hazards) within the area of influence of the work site.
- Mitigate potential impacts to surrounding areas and/or the drainage system.
- For horizontal directional drilling, take measures to capture and contain drilling fluids and slurry.
- Equip the driller to quickly respond to unusual conditions that may arise.
- Locate and prepare access roadways to minimize the amount of excavation and the potential for erosion.
- Contain accumulated uncontaminated water and sediment on site and pump into a storage tank or direct through a geotextile filtration system (or equivalent system) before discharging to the surrounding ground surface. Contaminants may include, but are not limited to, hydraulic fluids, contaminants in the soil and/or groundwater, polymers, and other drilling fluid additives.
- Keep all sediment-laden water out of storm drains and surface waters. If sediment-laden water does escape
 from the immediate drilling location, block flow to any nearby waterways or catch basins using fabric, inlet
 protections, sand bags, erosion fences, or other similar methods. Immediately notify Ecology and the local
 jurisdiction if sediment-laden water impacts the storm sewer system or surface waters.
- Divert any concentrated flows of water into the site using sandbags or check dams up-slope from the site.

- Dispose of soil cuttings and accumulated sediment appropriately. If cuttings or other soils disturbed in the
 drilling process are to be temporarily stockpiled on site, they must be covered and surrounded by a berm or
 filter device. See S429 BMPs for Storage or Transfer (Outside) of Solid Raw Materials, Byproducts, or
 Finished Products.
- Stabilize exposed soils at the end of the job, using mulch or other erosion control measures. See <u>S425</u>
 BMPs for Soil Erosion and Sediment Control at Industrial Sites.
- Contain spent drilling slurry on site and allow it to dewater, or haul to an appropriate, approved disposal site.
- Restore disturbed areas with mulch (see <u>BMP C121: Mulching</u>) and seeding or hydroseeding (see <u>BMP C120: Temporary and Permanent Seeding</u>).

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