

Pollution Control

1. SCOPE

The work shall consist of installing measures or performing work to control erosion and minimize the production of sediment and other pollutants to water and air during construction operations.

2. MATERIALS

All materials furnished shall meet the requirements in the Special Provisions.

3. EROSION AND SEDIMENT CONTROL MEASURES AND WORKS

The Contractor shall obtain a Montana Storm Water Discharge Permit (MPDES) from the Montana Department of Environmental Quality (DEQ) when areas of disturbance exceed 1 acre in size and pose a threat for discharge to State Waters. A permit is required in cases where potential water and sediment discharge can: a) occur across property boundaries, b) flow into public rights-of-way or c) enter channels with defined bank and streambed characteristics. A permit application requires development of a Storm Water Pollution Prevention Plan (SWPPP) and application fee.

Appropriate application of erosion and sediment control measures are specified as follows:

Staging of Earthwork Activities--The excavation and moving of soil materials shall be scheduled so as to minimize the size of areas disturbed and susceptible to erosion.

Seeding--Seedings to protect disturbed areas shall be done as specified on the drawings or in the Special Provisions.

Mulching--Mulching shall be used to provide temporary protection to soil surfaces from erosion.

Diversions--Diversions shall be used to divert water away from work areas, limit contribution of clean water to the site, control flow length and erosive nature of uncontrolled runoff, and/or to collect runoff from work areas for treatment and safe disposition.

Stream Crossings--Properly sized culverts or bridges shall be used where equipment must cross streams.

A 310 permit (Montana Natural Streambed and Land Preservation Act) shall be obtained from the local Conservation District when work results in ground disturbance within the high water mark of the stream.

Sediment Basins--Sediment basins shall be used to settle and filter out sediment from eroding areas in order to protect properties and streams below the construction site.

Sediment Filters--Straw bale filters, straw wattles, coconut rolls or geotextile sediment fences shall be used to trap sediment from areas of limited runoff. Straw bale filters and geotextile sediment fence shall be anchored into the ground a minimum of 6 inches in order to prevent erosion under or around them. Straw wattles and coconut rolls shall be set in the ground a minimum of 3 inches and staked according to manufacturers' guidelines.

Waterways--Waterways shall be used for the safe disposal of runoff from fields, diversions and other structures or measures.

Other--Additional protection measures as specified in the Special Provisions or as required Federal, State, or local government regulations.

4. CHEMICAL POLLUTION

The Contractor shall provide watertight tanks or barrels or construct a sump sealed with plastic sheets to be used to dispose of chemical pollutants (such as drained lubricating or transmission fluids, greases, oils, soaps, asphalt, etc.) produced as a by-product of the project's work. Pollutants shall be disposed of without causing pollution and in accordance with appropriate State and Federal regulations.

Sanitary facilities such as pit toilets, chemical toilets, or septic tanks shall not be placed adjacent to live streams, wells, or springs. They shall be located at a distance sufficient to prevent contamination of any water sources. Facility contents shall be disposed of without causing pollution.

5. AIR POLLUTION

The burning of brush or slash or disposal of other materials shall adhere to State and local regulations.

Fire prevention measures shall be taken to prevent the start or the spreading of fires which result from construction activities. Fire breaks or guards shall be constructed and maintained at locations shown on the drawings or as specified in the Special Provisions.

All public access or haul roads used by the contractor during construction of the project shall be sprinkled or otherwise treated to suppress dust. All dust control methods shall ensure safe construction operations at all times. If chemical dust suppressants are applied, the material shall be a commercially available product specifically designed for dust suppression and the application shall follow manufacturer's requirements and recommendations. A copy of the product data sheet and manufacturer's recommended application procedures shall be provided to

the Technician five working days before the first application.

6. MAINTENANCE, REMOVAL, AND RESTORATION

All pollution control measures and works shall be adequately maintained in a functional condition as long as needed during the construction operation. All temporary measures shall be removed and the site restored to as nearly original conditions as practicable.

7. MEASUREMENT AND PAYMENT (Used only if applicable)

For items of work for which specific unit prices are established, each item will be measured to the nearest unit applicable. Payment for each item will be made at the agreed-to unit price for that item. For items of work for which specific lump sum prices are established, payment will be made at the lump sum price.

Such payment will constitute full compensation for all labor, equipment, tools, and all other items necessary and incidental to the completion of the work.

Compensation for any item of work shown on the drawings or described in the special provisions but not listed on the bid schedule will be considered incidental to and included in the pay items listed on the bid schedule.