

## **SECTION 845**

### **EQUIPMENT OPERATION AND PREVENTION OF EROSION AND SILTATION**

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#### **845.01 STORM WATER AND SURFACE RUNOFF MANAGEMENT**

The Contractor is responsible for the control of all storm water, surface runoff and drainage management throughout the project for the duration of the contract. This includes the collection, channeling, containment, settling, discharge and any other mitigative measures required to effectively control runoff and prevent problems of erosion or siltation of adjacent or downstream areas. (See Section 815.07 Control and Treatment of Silted Water).

#### **845.02 TEMPORARY TRAVEL ROUTES**

Linear travel along the right of way by vehicles and equipment shall be restricted to one track or travel route, particularly during the early stages of opening access along the route, unless otherwise accepted by the Owner's Representative. The route shall be maintained by the Contractor free of standing water. Surface drainage will not be permitted to run along the travel route which can generate extensive mud and silt, and adversely affect materials to be excavated such as grubbing, unsuitable material, and other materials. Surface drainage shall be channelled off the route at frequent intervals. Where drainage courses are encountered, and frequent crossings are required, temporary culverts or bridges shall be installed to permit passage of equipment and vehicles in the dry, without causing erosion and siltation. At certain locations fording may be permitted by the Owner's Representative. (See Section 815.03 Fording of Watercourses).

#### **845.03 EROSION & SILT CONTROL MEASURES**

##### **845.03.01 GENERAL PROTECTION MEASURES**

The Contractor shall minimize terrain disturbance and erosion resulting from its activities. The Contractor shall, as part of its work, implement erosion and silt control measures where its activities result in a blockage of natural drainage, the diversion of natural

drainage, or the exposure of soil or subsoil to potential erosion. Particular measures which may be required include:

- a) using an erosion control blanket.
- b) using an appropriate hydraulic mulch.
- c) spreading hay over exposed soils.
- d) spreading a thin layer of brush or slash over disturbed areas.
- e) the installation of baffles or sediment traps at appropriate intervals within the area of disturbance.
- f) the installation of drainage collectors across the disturbed area to channel drainage into vegetated areas.
- g) the re-routing of disturbed drainage courses back into the natural course.
- h) the stabilization of exposed soils at drainage locations with appropriate riprap.
- i) where so directed by the Owner's Representative, to construct check dams to confine mud or slurry at such locations as un-sodded ditch lines, catch-basins and culvert inlets.
- j) the pumping of silted water to settling or designated vegetated areas.
- k) the installation of sedimentation basins of adequate size at run-off locations from exposed areas to contain heavy silt and mud as directed by the Owner's Representative.

#### **845.04      LIMITATION OF OPERATION**

During periods of heavy rain or significant runoff, where in the opinion of the Owner's Representative, previously completed or ongoing work on the project gives rise to excessive siltation, erosion, or any potential to impact watercourses or adjacent land, the Contractor will be required to suspend operations and undertake mitigative measures immediately to address the issues. Work shall not resume until such time as the issues are properly mitigated and are no longer causing concern.

The Department will not accept any claims relating to delays or costs resulting from addressing excessive siltation, erosion or other environmental issues, however the Department will consider extending the Contract Time for such reasonable time as the Owner may decide in consultation with the Contractor.