

EC-14 WIND EROSION CONTROL

Refer to: ITD Standard Specifications, Sections 205 and 212.



BMP Objectives

- Perimeter Control
- Slope Protection
- Borrow and Stockpiles
- Drainage Areas
- Sediment Trapping
- Stream protection
- Temporary Stabilizing
- Permanent Stabilizing

Definition and Purpose

Dust or wind erosion control consists of applying water, soil binders, dust palliatives, or other soil stabilization BMPs as necessary to prevent or alleviate dust nuisance and to comply with NPDES permitting requirements as well as any state and local regulations or ordinances. Covering stockpiles or exposed soil areas with blankets, mats, plastic covers, or mulches is an alternative to applying water, soil stabilizers, or dust palliatives.

Appropriate Applications

This practice is implemented on all exposed soils subject to wind erosion. Materials or topsoil stockpiles may also require some form of protection from wind, especially in open, arid, or semi-arid regions of the state.

Limitations

Effectiveness depends on soil, temperature, humidity and wind velocity. Soil binders are to be used where specified in the contract plans or as directed by the engineer. The Contractor may determine when and where to apply dust palliatives in order to comply with applicable regulations or ordinances.

Design Parameters

- Water shall be applied by means of pressure-type distributors or pipelines equipped with a spray system or hoses and nozzles that will ensure even distribution.
- All distribution equipment shall be equipped with a positive means of shutoff.
- Unless water is applied by means of pipelines, at least one mobile unit should be available at all times to apply water or dust palliative to the project.
- If reclaimed waste water is used, the sources and discharge must meet IDEQ requirements. Non-potable water shall not be conveyed in tanks or drain pipes that will be used to convey potable water, and there shall be no connection between potable and

non-potable supplies. Non-potable tanks, pipes, and other conveyances shall be marked “NON-POTABLE WATER - DO NOT DRINK.”

- Materials applied as temporary soil binders will also provide wind erosion control benefits.
- Application of dust palliatives are subject to sample collection and testing for compliance with applicable regulations of the Idaho Administrative Code.

Qualified Products List Criteria

See EC-8 (Soil Binders).

Maintenance and Inspection

Conduct inspections as required by the NPDES permit or contract specifications.