




BMP Selection & Design Job Aid

Vertical Tracking

Construction stormwater Best Management Practice must be installed, maintained, and removed in accordance with TxDOT plans and specifications, manufacturer specifications, and the Construction General Permit (TXR150000).

	<p>DESCRIPTION</p> <p>Vertical tracking is a temporary soil stabilization technique for bare, uncompacted soil on a slope which uses tracked machinery to create depressions parallel to slope contours on the face of sloped surfaces.</p>
<p>APPLICATION</p> <p>Vertical tracking is required on projects where soil disturbing activities on slopes are planned as a temporary erosion control practice. Vertical tracking temporarily stabilizes the soil by:</p> <ul style="list-style-type: none"> • Reducing runoff velocity • Compacting soil on slopes • Increasing rainfall infiltration • Providing sediment trapping • Helping the establishment of vegetation <div style="display: flex; justify-content: space-around;"> <div data-bbox="99 892 654 1125"> <p style="text-align: center;"><u>Advantages</u></p> <ul style="list-style-type: none"> • Cost effective • Reduces erosion due to wind and water • Temporarily stabilizes soil </div> <div data-bbox="654 892 1524 1125"> <p style="text-align: center;"><u>Disadvantages</u></p> <ul style="list-style-type: none"> • Effectiveness is only temporary • Tracking can be washed away by heavy rain • Usage limited by the soil type • May be required to have other sediment and soil stabilizing controls </div> </div>	
<p>DESIGN CRITERIA</p> <ol style="list-style-type: none"> 1. Equipment with track undercarriage capable of producing linear soil impressions should have the following measurements: <ul style="list-style-type: none"> • Minimum Length: 12" • Width: 2" to 4" • Depth: 1/2" to 2" 2. Depths of the bare, uncompacted soil and slope of the surface should be considered. 3. Continuous linear track impressions should occur where the minimum 12" length impressions are perpendicular to the slope or direction of water flow. 4. There should be no more than 12" between track impressions. 5. Entire face of sloped area should have vertical tracking. 6. Number of passes on the surface should be limited to avoid compaction of the soil. 7. Indicate on the plans where vertical tracking will be required. 8. Track impressions must be perpendicular to the direction of runoff. 9. Vertical tracking must be used as a temporary erosion control measure for all project the disturb soil on any slope, unless otherwise approved. 	
<p>REFERENCES</p> <p>TxDOT Temporary Erosion, Sediment and Water Pollution Control Measures: Fence & Vertical Tracking: EC (1) – 16 TxDOT Temporary Erosion, Sedimentation, and Environmental Controls: Item 506 (Sections 4.4.10)</p>	