STANDARD AND SPECIFICATIONS
FOR
EARTH DIKE

For drainage areas larger than 10 acres, refer to the Standard and Specifications for Diversion on page 5B.1.

Stabilization

Stabilization of the dike shall be completed within 7 days of installation in accordance with the standard and specifications for seed and straw mulch or straw mulch only if not in seeding season and flow channel shall be stabilized as per the following criteria:

<table>
<thead>
<tr>
<th>Type of Treatment</th>
<th>Channel Grade A (&lt;5 Ac.)</th>
<th>Flow Channel B (5-10 Ac.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.5-3.0% Seed &amp; Straw Mulch</td>
<td>Seed &amp; Straw Mulch</td>
</tr>
<tr>
<td>2</td>
<td>3.1-5.0% Seed &amp; Straw Mulch</td>
<td>Seed and cover with RECP, sod, or lined with plastic or 2 in. stone</td>
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<tr>
<td>3</td>
<td>5.1-8.0% Seed and cover with RECP, Sod, or line with plastic or 2 in. stone</td>
<td>Line with 4-8 in. stone or, Recycled Concrete Equivalent or geotextile</td>
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<tr>
<td>4</td>
<td>8.1-20% Line with 4-8 in. stone or Recycled Concrete Equivalent or geotextile</td>
<td>Site Specific Engineering Design</td>
</tr>
</tbody>
</table>

1 In highly erodible soils, as defined by the local approving agency, refer to the next higher slope grade for type of stabilization.
2 Recycled Concrete Equivalent shall be concrete broken into the required size, and shall contain no steel reinforcement.

Outlet

Earth dikes shall have an outlet that functions with a minimum of erosion.

Runoff shall be conveyed to a sediment trapping device until the drainage area above the dike is adequately stabilized.

The on-site location may need to be adjusted to meet field conditions in order to utilize the most suitable outlet.
Figure 5A.1
Earth Dike

**Construction Specifications**

1. **All dikes shall be compacted by earth-moving equipment.**
2. **All dikes shall have positive drainage to an outlet.**
3. **Top width may be wider and side slopes be flatter if desired to facilitate crossing by construction traffic.**
4. **Field location should be adjusted as needed to utilize a stabilized safe outlet.**
5. **Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.**
6. **Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch if not in seeding season, (B) flow channel as per the chart on the previous page.**

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**Earth Dike**

Adapted from details provided by USDA - NRCS, New York State Department of Transportation, New York State Department of Environmental Conservation, New York State Soil & Water Conservation Committee