2016 Bond Rate Guidelines for the Calculation of Land Reclamation Bonds on Coal Mining Operations

MRAB Meeting
April 25, 2016
## Bond Rates for 2016 effective April 5

<table>
<thead>
<tr>
<th>Unit Operation</th>
<th>Unit Measure</th>
<th>Unit Costs ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobilization/Demobilization</td>
<td>Job</td>
<td>4% of direct costs or $40,000, whichever is less</td>
</tr>
<tr>
<td>Grading (&lt; 500-foot push)</td>
<td>Cubic Yard</td>
<td>0.90</td>
</tr>
<tr>
<td>Grading (≥ 500-foot push/haul)</td>
<td>Cubic Yard</td>
<td>1.50</td>
</tr>
<tr>
<td>Selective Grading</td>
<td>Acre</td>
<td>1,700.00</td>
</tr>
<tr>
<td>Revegetation</td>
<td>Acre</td>
<td>1,900.00</td>
</tr>
<tr>
<td>Tree Planting</td>
<td>Tree</td>
<td>0.75</td>
</tr>
<tr>
<td>Ditch Excavation</td>
<td>Cubic Yard</td>
<td>6.25</td>
</tr>
<tr>
<td>Jute Matting</td>
<td>Square Yard</td>
<td>3.80</td>
</tr>
<tr>
<td>High Velocity Erosion Control</td>
<td>Square Yard</td>
<td>3.80</td>
</tr>
<tr>
<td>AASHTO No. 1</td>
<td>Ton</td>
<td>29.00</td>
</tr>
<tr>
<td>AASHTO No. 57</td>
<td>Ton</td>
<td>33.00</td>
</tr>
<tr>
<td>R3 Rock Lining</td>
<td>Square Yard</td>
<td>38.00</td>
</tr>
<tr>
<td>R4 Rock Lining</td>
<td>Square Yard</td>
<td>27.00</td>
</tr>
<tr>
<td>R5 Rock Lining</td>
<td>Square Yard</td>
<td>27.00</td>
</tr>
<tr>
<td>Geotextile/Filter Fabric</td>
<td>Square Yard</td>
<td>2.50</td>
</tr>
<tr>
<td>PVC Lining 1</td>
<td>Square Yard</td>
<td>12.00</td>
</tr>
<tr>
<td>Subsurface Drain</td>
<td>Lineal Foot</td>
<td>20.00</td>
</tr>
</tbody>
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<tr>
<th>Unit Operation</th>
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<th>Unit Costs ($)</th>
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<tbody>
<tr>
<td>Erosion and Sedimentation Control (Temporary Installation)</td>
<td>Job</td>
<td>Lump sum (5% of direct costs for site)</td>
</tr>
<tr>
<td>Pond Removal Active Phase$^2$</td>
<td>Pond</td>
<td>3,800.00</td>
</tr>
<tr>
<td>Stage 3 Maintenance Bond Non-Cropland Areas (Land Uses Where Crop Yields Are Not Required)</td>
<td>Acre</td>
<td>100.00</td>
</tr>
<tr>
<td>Stage 3 Maintenance Bond Cropland (Not Row Crops) Pastureland Or Land Occasional Cut For Hay (Excludes Seed Cost)</td>
<td>Acre</td>
<td>500.00</td>
</tr>
<tr>
<td>Stage 3 Maintenance Bond Cropland Area-Row Crops (includes seed cost)</td>
<td>Acre</td>
<td>800.00</td>
</tr>
</tbody>
</table>

**Notes:**
- $^2$ Stage 3 Maintenance Bond Cropland (Not Row Crops) Pastureland Or Land Occasional Cut For Hay (Excludes Seed Cost)
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<thead>
<tr>
<th>Unit Operation</th>
<th>Unit Measure</th>
<th>Unit Costs ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage 3 Mobilization</td>
<td>Job</td>
<td>2,500.00</td>
</tr>
<tr>
<td>Pond Removal-Stage 3</td>
<td>Cubic Yards (Embankment Volume)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plus Top Soiling &amp; Revegetation Cost</td>
<td></td>
</tr>
<tr>
<td>Ditch Removal-Stage 3</td>
<td>Lineal Foot</td>
<td>0.75</td>
</tr>
<tr>
<td>Equipment Tire Removal and Disposal</td>
<td>Tire</td>
<td>300.00</td>
</tr>
<tr>
<td>Structure Demolition</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
