# Failure Modes and Effects Analysis (FMEA) Worksheet

<table>
<thead>
<tr>
<th>Mine Area/Component</th>
<th>ID</th>
<th>Failure Mode</th>
<th>Effects</th>
<th>Project Stage</th>
<th>Likelihood</th>
<th>Consequences</th>
<th>Level of Confidence</th>
<th>Mitigation/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ARD Control</strong></td>
<td>A1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open Pit A11</td>
<td></td>
<td>pit walls generate acidity</td>
<td>increased acidity at treatment plant</td>
<td>PC</td>
<td>E</td>
<td>L</td>
<td>N</td>
<td>L</td>
</tr>
<tr>
<td>Tailing Storage Facility A12.1</td>
<td></td>
<td>inadequate blending of non-acid and acid forming tailings</td>
<td>increased acidity at treatment plant</td>
<td>O,PC</td>
<td>E</td>
<td>L</td>
<td>M</td>
<td>M</td>
</tr>
<tr>
<td>Mine Rock Pile A12.2</td>
<td></td>
<td>inadequate cover material stockpiling</td>
<td>increased infiltration &amp; acidity &amp; delayed infiltration reduction</td>
<td>PC</td>
<td>H</td>
<td>L</td>
<td>M</td>
<td>M</td>
</tr>
<tr>
<td>A13</td>
<td></td>
<td>inadequate segregation of reactive material</td>
<td>contaminated discharge in unexpected areas</td>
<td>O,PC</td>
<td>L</td>
<td>M</td>
<td>H</td>
<td>H</td>
</tr>
</tbody>
</table>

**Notes:**

- **Project Stage:**
  - PC = Post Closure
  - O = Operations

- **Likelihood:**
  - N = Not Likely
  - L = Low
  - M = Moderate
  - H = High
  - E = Expected

- **Consequences:**
  - N = Negligible
  - L = Low
  - M = Moderate
  - H = High
  - E = Extreme

- **Level of Confidence:**
  - H = High
  - M = Moderate
  - L = Low
  - E = Expected

Robertson GeoConsultants Inc.