## EF01 – Risk Assessment (Example)

**Activity/task/operation:** Asphalt Production  
**Location/area:** Coating Plant  
**Assessed by:** Manager

<table>
<thead>
<tr>
<th>Environmental aspect/impact</th>
<th>Current control measures</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td><strong>P</strong></td>
<td><strong>S</strong></td>
<td><strong>P x S x LBM</strong></td>
</tr>
<tr>
<td>Dust</td>
<td>Dust suppression</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Noise</td>
<td>Site perimeter bund; Noise suppression on mobile plant engines; White noise reversing alarms; Fixed plant enclosed</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Vibration</td>
<td>None required, little or no appreciable vibration caused by plant operation</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**P = Probability**  
1. Insignificant risk of impact occurring  
2. Low risk – improbable  
3. Moderate risk – likely to happen  
4. High risk – certain to happen

**S = Severity**  
1. Very minor  
2. Limited environmental impact/insignificant  
3. Moderate environmental impact; may be reportable  
4. Major – potentially major environmental impact

**LBM = Legal Breach Multiplier**  
1. No environmental legislation relevant to this issue  
2. Potential for environmental legislation breach if control measures fail
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<tr>
<td>Gaseous emissions</td>
<td>Bag house regularly checked and maintained; Daily stack emission visual inspections</td>
<td>P = 1  S = 2  P x S x LBM = 6</td>
<td>P = 1  S = 2  P x S x LBM = 4</td>
<td>P = 1  S = 3  P x S x LBM = 6</td>
</tr>
<tr>
<td>Traffic</td>
<td>Operating hours restricted mainly to daytime working; Speed limit of 20mph for quarry traffic out-of-hours working (19:00-06:00)</td>
<td>P = 2  S = 2  P x S x LBM = 4</td>
<td>P = 1  S = 3  P x S x LBM = 6</td>
<td>P = 1  S = 3  P x S x LBM = 6</td>
</tr>
<tr>
<td>Visual impact</td>
<td>Site perimeter bund; Trees planted to side with neighbouring properties</td>
<td>P = 1  S = 2  P x S x LBM = 2</td>
<td>P = 1  S = 1  P x S x LBM = 1</td>
<td>P = 1  S = 2  P x S x LBM = 2</td>
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<td><strong>Site tidiness</strong></td>
<td>Daily inspections; Weekly schedule housekeeping regime</td>
<td>P</td>
<td>S</td>
<td>P x S x LBM</td>
</tr>
<tr>
<td><strong>Vegetation management</strong></td>
<td>Landscaping contractor maintains to planned schedule</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td><strong>Fuel and chemical storage</strong></td>
<td>Bunded tanks with &gt;110% capacity; Filling couplings and dispensing pipework stored within bund; Daily inspections</td>
<td>2</td>
<td>2</td>
<td>8</td>
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<td>Water and liquid waste management</td>
<td>Water catchment into lagoon with oil separator</td>
<td>2 2 4 1 2 2 1 3 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solid waste management</td>
<td>Waste types segregated into separate skips; Waste asphalt tipped in recycling area for reprocessing</td>
<td>2 1 4 1 1 2 1 1 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biodiversity and ecological maintenance</td>
<td>Plant enclosed and doors to be kept closed to prevent local wildlife from nesting; Bird boxes at boundary provide alternative habitat</td>
<td>1 2 2 1 2 4 1 1 1</td>
<td></td>
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