Clean Air Summit

Hunter Valley Coal Actions

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Regional Director North, NSW EPA
### Major Sources (PM10)

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>KATESTONE</th>
<th>PRPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel generated dust</td>
<td>39%</td>
<td>47%</td>
</tr>
<tr>
<td>Wind erosion (overburden)</td>
<td>27%</td>
<td>9%</td>
</tr>
<tr>
<td>Bulldozers</td>
<td>8%</td>
<td>11%</td>
</tr>
<tr>
<td>Blasting</td>
<td>6%</td>
<td>2%</td>
</tr>
<tr>
<td>Trucks (loading / dumping overburden)</td>
<td>5%</td>
<td>16%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>85%</strong></td>
<td><strong>85%</strong></td>
</tr>
</tbody>
</table>
PRP 1 – Wheel Generated Dust

• Mines identified level of dust control achievable.

• EPA expects all mines to continue to achieve this level of dust control.

• Any failure to achieve this level of control may be regarded by the EPA as a failure to comply with licence conditions that require proper and efficient operation.
PRP 2 – Adverse Weather

ATTACHMENT 1

13 October 2013 5 – 6pm

- Yangola: No action
- Buronga: Modified
- Maxwellbrook: No action
- Liddell: Modified
- Walloon: Modified
- Integra: No action
- Mt Ardell: No action
- Wambo: No action
- MTW: No action
- RMS: Close down

Legend:
- Very good: score 92-100
- Good: score 65-91
- Fair: score 51-64
- Poor: score 31-50
- Very poor: score 11-30

According to the National Environment Protection Measures (Wetlands) (AWM) variation 21, action is required on the map for WAM and MTW. The categorised levels:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Very Good</th>
<th>Good</th>
<th>Fair</th>
<th>Poor</th>
<th>Very Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td>O2 (g/l)</td>
<td>&gt;9</td>
<td>6.5-9</td>
<td>4.5-6</td>
<td>3.5-4.5</td>
<td>&lt;3.5</td>
</tr>
<tr>
<td>pH</td>
<td>&gt;8</td>
<td>7.5-8</td>
<td>7.0-7.5</td>
<td>6.5-7</td>
<td>&lt;6.5</td>
</tr>
<tr>
<td>TSS (mg/l)</td>
<td>&lt;20</td>
<td>15-20</td>
<td>10-15</td>
<td>5-10</td>
<td>&gt;15</td>
</tr>
<tr>
<td>TDS (mg/l)</td>
<td>&lt;500</td>
<td>450-500</td>
<td>350-450</td>
<td>250-350</td>
<td>&gt;250</td>
</tr>
<tr>
<td>Temperature</td>
<td>&gt;19°C</td>
<td>17-19</td>
<td>15-17</td>
<td>13-15</td>
<td>&lt;13</td>
</tr>
</tbody>
</table>
PRP 3 – Industry Investigation
Objectives:

1. to quantify disturbed areas that are exposed to wind erosion; and
2. identify areas that can be stabilised to minimise dust.
TOXIC SKY: Mine blast goes wrong

By JOANNE McCARTHY  Feb, 20, 2014, 10:30 p.m.

FALLOUT: The sky above Mount Arthur Mine near Muswellbrook turns a bright orange due to the toxic fumes.
Dust Buster

- EPA’s regulatory inspections
  - Unannounced surveillance
  - Aerial inspections
- Applies to all open cut coal mines in NSW
Diesel emissions at coal mines
Diesel emissions from locomotives
EPA Compliance Audit
Coal Train Loading and Unloading Facilities
Coal loss from rail transport
Coal loaders
Coal shipping
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