Narrabri Mine Community Consultative Committee Meeting #46

Date: Wednesday 11th September 2019
Time: 5:00pm
Location: Narrabri Mine Office

Present: Russell Stewart (RS)
          Peter Webb (PW)
          Mark Foster (MF)
          Geoff Hunter (GH)
          James Steiger (JS)
          Gerald Linde (GL) – Narrabri Coal - Mine Manager
          David Ellwood (DE) – Narrabri Coal – Director Stage 3 Project
          Brent Baker (BB) – Narrabri Coal - Environmental Superintendent

Apologies: Steve Bow (SB) – Narrabri Coal – General Manager

1. DECLARATION OF PECUNIARY OR OTHER INTERESTS
   Nil

2. PREVIOUS MINUTES
   RS Moved that previous minutes are accepted as an accurate record.
   Moved: GH    Seconded: DE

2.1 BUSINESS ARISING FROM PREVIOUS MINUTES

2.1.1 Format of environmental monitoring report presented in June meeting was different. JS requested that format be kept the same to make it easy for comparison against historical versions.

   BB advised that Environmental Monitoring Report presented in current meeting has been changed back to historical format.

2.1.2 New Members for CCC

   • RS placed ad in Narrabri Courier. Only 2 Expressions of Interest received. RS advised CCC of names of applicants.
     CCC members do not object to the applicants. RS will submit nominations to the Department of Planning for approval.

   • Discussion around non-attendance at meetings, and RS to send a letter to CCC member if 3 meetings missed in a row. RS requested BB to keep track of CCC meeting attendance and alert RS if three meetings in a row missed.

2.1.3 Cement substance around borehole on Exploration Lease

   • RS confirmed that he notified complainant personally.
3. GENERAL BUSINESS

3.1 Stage 3 Project Update (delivered by DE)

- Social Impact Assessment (SIA) undertaken by CDM Smith consultants. Had hoped to have CDM Smith at this meeting, unfortunately couldn’t accommodate with the change in date of CCC meeting, and wished to submit an apology to the CCC.

Work to date on SIA has included first Community Engagement trip, which were face-to-face meeting with Narrabri Chamber of Commerce, Shire Councils, RFS etc. Purpose was to obtain feedback from these groups. Some of key issues came back;
  - benefits of mining need to be distributed locally (e.g. infrastructure, employment, sponsorship)
  - use of water by mine needs to be communicated better to the community
  - increased traffic on Kamilaroi Highway
  - Company needs to do more around communicating aspects of the operation and community involvement.

DE explained this is not all of the issues raised, and that the outcomes of the engagement with these groups will be fed into SIA.

- Community Survey was undertaken. Online survey on Whitehaven website. Advertisement placed in local newspaper. Survey now closed. Purpose was to get understanding of community concerns which can be used to target SIA. DE stated that survey was only completed last week, and he has some high-level results to share, however full details would be provided in the SIA.
  - 81 respondents. 50% were from outside region (i.e. Gunnedah & Narrabri Shire Council regions).
  - Of 50% local respondents- approximately 65% said they would be negatively impacted, and 22% would be positively impacted, by extension of life of mine.
  - MF wanted to make note that discussions with various community members revealed concerns around increased traffic. DE advised that the mine was not expanding, only life of mine, and therefore an increase in traffic is unlikely.

- Upcoming Engagement:
  - will be contacting interested landholders around mine in coming months
  - meetings held with Local Aboriginal groups
  - CDM Smith will attend next CCC meeting.

Questions?

GH wanted to know why Community Survey was released without notifying CCC members, that part of the role of the CCC members is to feed details (like the survey) back into the community. General agreement by CCC members and NCO. RS suggested this be captured in a motion.

**MOTION:** CCC are provided notice by NCO prior to any consultation with the community.

Moved: GH  Seconded: JS

Discussions around clarification of what CCC expects. DE agreed to provide an Engagement Strategy so that CCC are aware of key community interactions going forward. CCC agreed that they don’t require notification prior to individual correspondence with landholders.

- Stage 3 Fact Sheet (draft) shared with CCC members. DE discussed key changes;
  - Maintaining existing production approval of 11million tonnes. General discussion around this change.
  - GH queried ‘Extension of existing surface infrastructure’. DE clarified that this relates to surface infrastructure related to gas drainage, mine ventilation, access tracks and power line. DE explained current planned
locations of ventilation infrastructure. GH outlined his view on major impacts would be around vent fans (eg. noise) and dust.

3.2 Exploration Licence 6243 Suspension (delivered by DE)

- Resources Regulator (RR) suspended exploration activities by letter in August. DE advised we are still authorised to undertake rehabilitation works under the suspension. DE discussed reasons for Suspension, main reason being constructing tracks in locations not approved by plans. DE outlined circumstances around leading up to constructing the tracks.
- DE discussed timeframe; RR inspection on 17 June, RR correspondence received by Narrabri Coal Operations (NCO) on 24 July outlining allegations of breaches. Following this NCO met with RR regarding the allegations. Following the meeting NCO received official Suspension Notice from RR. NCO is now undertaking various works to demonstrate to the RR that Suspension can be lifted.
- JS thinks that CCC should have been notified during the June meeting of this issue. DE outlined that the initial visit on 17 June of the RR was an Audit, and that at the time of the CCC 26 June meeting NCO had not received any official correspondence from the RR about the breaches.
- DE outlined steps that NCO are working through in order to demonstrate to RR that suspension can be lifted, including Independent Audit and completion of any actions arising from the Audit. NCO also advised that all areas in Exploration Lease are being rehabilitated in coming months.

3.3 Stage 3 Property Acquisitions

- GH discussed contracts for Stage 3 landholder acquisitions. GH heard it has been a slow process. DE stated that NCO are actually making great efforts in this space, and that currently we are in compliance with contract clauses around timing.

3.4 Bow Hills

- JS heard that Bow Hills was used as a good ambassador for the mine around negotiations for properties etc. JS wants it on record that he still wishes the mine wasn’t in its current location and whilst he has a good relationship with mine, he doesn’t want Bow Hills to be portrayed as a ‘happy neighbour’.

3.5 Santos

- RS heard in Coal Seam Gas CCC that Santos has mentioned that Whitehaven Coal will be able to use some of their excess salt. DE said it is the first time he has heard of this, it’s not happening at NCO, but will follow up.

4. OVERVIEW OF NARRABRI COAL ACTIVITIES

4.1 Operations and Safety Progress Report

Presented by GL

Mine Progress Report (August 2019)

| Coal produced (t): | Aug 2019 | 411,925 |
| Coal Railed (t): | Aug 2019 | 588,796 |
|                  | FY-to-date | 1,184,052 |
|                  | FY-to-date | 1,369,974 |
Average workforce numbers (Aug 2019):

<table>
<thead>
<tr>
<th>NCO</th>
<th>Waged – 123</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Salary – 123</td>
</tr>
<tr>
<td></td>
<td>Total – 246</td>
</tr>
<tr>
<td>Contractors</td>
<td>Total – 211</td>
</tr>
</tbody>
</table>

Safety Update (FY to 31st Aug):

- Lost Time Injury (LTI): 1
- Days LTI Free: 38
- Total Recordable Injuries: 1
- Planned Task Observations: 2,228
- Take 5 Assessments: 31,952
- Work Hours (May-18): 227,846

- GL said that focus remains on recruiting ‘cleanskin’ underground inexperienced mine workers from local community. NCO is now transitioning those cleanskins from contractors over to Whitehaven employees. Target is to increase Waged numbers up. JS asked why such a large % of contractors, and that these contractors won’t buy houses etc in local communities due to job stability. GL outlined that this is exactly what NCO are doing with cleanskins, and there are some certain projects that are more practical for contractors. GL states that most contracts are still pretty stable (generally 2-3 years), and that other conditions Whitehaven places on the primary underground contractors for any inexperienced mine worker that the contractor wants to employ must be ‘local’ (reside within 100km of mine). DE/GL mentions that majority of recruitment is done on-site at the mine.

4.2 Environmental Monitoring Report (delivered by BB)

See Appendix A

- GH questions dust spikes on PM10 results. Discussion around dust storms.
- Noise monitoring results from June presented in report and discussed. BB advised that another round of monitoring was undertaken early September but NCO do not have report at time of CCC meeting.
- Groundwater levels. DE outlined metering is applied to box-cut dewatering and other groundwater pumping, and is all licensed.
- Subsidence: DE discussed closing out subsidence monitoring lines on older LW panels.
- Rehabilitation: BB mentioned significant progress NCO has made on rehabilitation.
- Pest control: BB mentioned recent pig trapping and Mother of Millions weed spraying.
- EPA- BB discussed Penalty Infringement Notice (PIN) was issued to NCO on 14th June, in relation to alleged dust pollution from coal stockpiles on 05th January. Whitehaven lodged an appeal to the PIN on 10th July. Appeal unsuccessful. Fine of $15,000 paid on 07th August.
- EPA- BB discussed Clean-Up Notice regarding Narrabri Landfill. NCO are continuing negotiations with Narrabri Shire Council and EPA regarding resolution of this matter.
5. **NEW BUSINESS**
   - GH reminded that NCO were going to provide CCC with updates in each meeting on water licence usage. BB said this would be presented going forward.
   - DE/GL discussed restructure of Whitehaven corporate ‘community and landholder’ team, and NCO will make this clearer to CCC members in next meeting, particularly around how agricultural properties will be managed.

6. **NEXT MEETING**

Next CCC meeting scheduled for Wednesday 04\(^{th}\) December at 5pm.

__Meeting Close: 6:30pm__
Narrabri Mine Community Consultative Committee Meeting #46

Environmental Monitoring Report: June – September 2019

Deposited Dust Monitoring

<table>
<thead>
<tr>
<th>Month</th>
<th>ND1 Turrabaa</th>
<th>ND2 Claremont</th>
<th>ND3 Bow Hills</th>
<th>ND4a New Matoppo</th>
<th>ND5 Claremont</th>
<th>ND6 Willrah</th>
<th>ND7 Claremont</th>
<th>ND8 Claremont</th>
<th>ND11 Oakleigh</th>
<th>ND12 Merriman</th>
<th>ND13 Darjeelang</th>
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<tbody>
<tr>
<td>Jan-19</td>
<td>2.9</td>
<td>2.2</td>
<td>2.9</td>
<td>3.6</td>
<td>2.7</td>
<td>3.6</td>
<td>1.2</td>
<td>3.4</td>
<td>5.3</td>
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<td>2.2</td>
</tr>
<tr>
<td>Feb-19</td>
<td>4.9</td>
<td>1.6</td>
<td>2</td>
<td>13.7</td>
<td>13.3</td>
<td>4.4</td>
<td>3.1</td>
<td>3.8</td>
<td>2.4</td>
<td>2.2</td>
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<tr>
<td>Mar-19</td>
<td>2.4</td>
<td>2.5</td>
<td>1.9</td>
<td>1.7</td>
<td>2.8</td>
<td>2.6</td>
<td>1.6</td>
<td>1.6</td>
<td>1.7</td>
<td>1.8</td>
<td>2</td>
</tr>
<tr>
<td>Apr-19</td>
<td>3.9</td>
<td>1.3</td>
<td>2.1</td>
<td>2.3</td>
<td>3.2</td>
<td>1.6</td>
<td>1.4</td>
<td>2.2</td>
<td>1.9</td>
<td>2.8</td>
<td>2</td>
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<tr>
<td>May-19</td>
<td>0.9</td>
<td>0.8</td>
<td>1.3</td>
<td>6.1</td>
<td>3.2</td>
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<td>1.4</td>
<td>1.2</td>
<td>1.1</td>
<td>0.9</td>
<td>1.1</td>
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<tr>
<td>Jun-19</td>
<td>2.4</td>
<td>1.1</td>
<td>1.4</td>
<td>1.1</td>
<td>4.6</td>
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<td>1.5</td>
<td>1.1</td>
<td>0.9</td>
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<tr>
<td>Jul-19</td>
<td>2.6</td>
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<td>1.5</td>
<td>0.9</td>
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<td>3.4</td>
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<td>Aug-19</td>
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<td>2.8</td>
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<td>1.7</td>
<td>1.3</td>
<td>1.9</td>
<td>0.7</td>
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</tbody>
</table>

Recent deposited dust levels are within the compliance limit of 4 g/m²/mth.

High Volume Air Sampling (PM10)

PM10 measurements taken to 24th of August 2019 for the “Claremont” High Volume Air Sampler (HVAS) are returning a running annual average of 16.97 µg/m³, which is well below the annual average limit of 30 µg/m³.
PM10 measurements taken to 24th of August 2019 for the “Turrabaa” High Volume Air Sampler are returning a running annual average of 18.94 µg/m³, which is also well below the annual average limit of 30 µg/m³.

*PM10 levels have remained compliant since the last meeting. The higher peaks of PM10 concentration correspond to dust storm events on the 15th of December 2018 and 12th of February 2019.

Noise Monitoring

Attended noise monitoring was undertaken between Monday the 3rd June to Thursday 06th June 2019 in accordance with Environmental Protection Licence and Project Approval. Narrabri Mine was found to be in compliance with the relevant noise criteria during all time periods where standard weather conditions were present. Results from the monitoring are detailed over the page.
<table>
<thead>
<tr>
<th>EPL ID</th>
<th>Location</th>
<th>Date</th>
<th>Narrabri Mine Contribution dBA</th>
<th>Noise Criteria</th>
<th>Measurement Periods</th>
<th>Weather Compliant</th>
<th>Compliant</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>L_{A_{eq}} 15 min Day</td>
<td>L_{A_{eq}} 15 min Evening</td>
<td>L_{A_{eq}} 15 min Night</td>
<td>L_{A_{1}} (1 min) Night</td>
<td>Day</td>
</tr>
<tr>
<td>N5</td>
<td>Oakleigh</td>
<td>04/06/2019</td>
<td>N/M</td>
<td>I/A</td>
<td>I/A</td>
<td>I/A</td>
<td>Day, Evening and Night – L_{A_{eq}(15 minutes)} 35 dBA</td>
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<tr>
<td></td>
<td></td>
<td>05/06/2019</td>
<td>I/A</td>
<td>I/A</td>
<td>I/A</td>
<td>I/A</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06/06/2019</td>
<td>N/M</td>
<td>N/M</td>
<td>I/A</td>
<td>I/A</td>
<td>N</td>
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<tr>
<td>N6</td>
<td>Newhaven</td>
<td>04/06/2019</td>
<td>42¹</td>
<td>31</td>
<td>33</td>
<td>38</td>
<td>Night L_{A_{1}(1 minute)} = 45 dBA</td>
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<tr>
<td></td>
<td></td>
<td>05/06/2019</td>
<td>33</td>
<td>31</td>
<td>32</td>
<td>34</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06/06/2019</td>
<td>34</td>
<td>28</td>
<td>30</td>
<td>34</td>
<td>Y</td>
</tr>
<tr>
<td>N8</td>
<td>Haylin View</td>
<td>04/06/2019</td>
<td>33</td>
<td>N/M</td>
<td>27</td>
<td>29</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05/06/2019</td>
<td>I/A</td>
<td>I/A</td>
<td>30</td>
<td>34</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06/06/2019</td>
<td>28</td>
<td>28</td>
<td>30</td>
<td>34</td>
<td>Y</td>
</tr>
<tr>
<td>N9</td>
<td>High Range</td>
<td>04/06/2019</td>
<td>43¹</td>
<td>31</td>
<td>32</td>
<td>35</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05/06/2019</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>35</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06/06/2019</td>
<td>33</td>
<td>N/M</td>
<td>25</td>
<td>28</td>
<td>Y</td>
</tr>
<tr>
<td>N1</td>
<td>Bow Hills³</td>
<td>03/06/2019</td>
<td>30</td>
<td>33</td>
<td>38³</td>
<td>48³</td>
<td>N</td>
</tr>
<tr>
<td>N3</td>
<td>Ardmona</td>
<td>03/06/2019</td>
<td>N/M</td>
<td>33</td>
<td>34</td>
<td>45</td>
<td>N</td>
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<tr>
<td>N7</td>
<td>Merriman</td>
<td>03/06/2019</td>
<td>I/A</td>
<td>32</td>
<td>35</td>
<td>43</td>
<td>N</td>
</tr>
<tr>
<td>N8</td>
<td>Matilda</td>
<td>03/06/2019</td>
<td>I/A</td>
<td>35</td>
<td>25</td>
<td>30</td>
<td>N</td>
</tr>
</tbody>
</table>

I/A = Inaudible
N/M = Not Measurable

Note 1: 2dB modifying factor correction for low frequency noise has been applied in accordance with the NPiL.
Note 2: Measured during non-compliant weather conditions. Wind speed >3m/s throughout measurement period.
Note 3: A private agreement between NCOPL and the residents of N1 Bow Hills of 50 dBA L_{A_{eq}(15 minutes)} is in place. This new level of 50 dBA L_{A_{eq}(15 minutes)} replaces the levels identified in Conditions 1-3.

Schedule 4 of PA 08_0144 Mod 2 and the identical limits contained in condition L3 of Environment Protection Licence No 12789
Groundwater Monitoring

Location: Yarranbee
Bore depth: 50m
Explanation: ALS has had no property access, NCO to organise 24 hours prior to sampling.

Location: Matilda
Bore depth: 50m

Standing Water Level - P1

Standing Water Level - P2
Location: Bow Hills
Bore depth: 45m
Explanation: Gaps in data due to access issues however data trend shows consistency over the last 2 years.

Location: North of Newhaven on Kamilaroi highway
Bore depth: 30m
Location: TBA
Bore depth: 90m
Location: Kurrajong
Bore depth: 65m

Location: NCO
Bore depth: 30m
Location: NCO (Located near P11)
Bore depth: 130m

Explanation: Decreasing in water level since 2015
Locaion: NCO (Near P13)
Bore depth: 90m

Location: NCO (Near P12)
Bore depth: 30m
Location: NCO (Western Boundary)
Bore depth: 146m

Explanation: Data gaps due to missed measurements.
Location: NCO (Near site dams)
Bore depth: 25m

Location: NCO (Near site dams)
Bore depth: 15m
Location: NCO (Near site dams)
Bore depth: 15m

Location: NCO
Explanation: Remains consistent, data gap due to damage.
Groundwater Piezometer Data August 2019

Location: NCO (behind rejects)

Piezometer depth: Corresponds to the colour of the line as shown in the legend.
Explanation: The data abnormality from October 2018 is due to the severing of piezometers due to ground movement in the coal seam.
Location: Omeo
Piezometer depth: Corresponds to the colour of the line as shown in the legend.
Explanation: All pressure (water level) remain consistent.
Location: Entrance to the mine, off the Kamilaroi Highway
Piezometer depth: Corresponds to the colour of the line as shown in the legend.
Location: Kurrajong
Piezometer depth: Corresponds to the colour of the line as shown in the legend.

Surface Water Monitoring
No wet weather discharges from licensed discharge points has occurred since 2017.
Subsidence (5/2/2019)

Narrabri Mine has monitored the subsidence movement across the surface of LW 107, 108 & Line H in accordance with the approved Extraction Plans. The table below outlines the maximum subsidence parameters recorded as part of the subsidence monitoring program and a comparison with the maximum predicted subsidence parameters as outlined in the Extraction Plan.

<table>
<thead>
<tr>
<th>Longwall Panels (LW) 107 – 108</th>
<th>Maximum Predicted Extraction Plan</th>
<th>Maximum Measured</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line 101 – Centre of LW101 – Monitoring has ceased</td>
<td>2.75</td>
<td>2.74</td>
</tr>
<tr>
<td>Line 102 – Centre of LW102 – Monitoring has ceased</td>
<td>44</td>
<td>28.0</td>
</tr>
<tr>
<td>Line 103 – Centre of LW103 – Northern – Monitoring has ceased</td>
<td>13</td>
<td>10.3</td>
</tr>
<tr>
<td>Line 103 – Centre of LW103 – Southern – Monitoring has ceased</td>
<td>16</td>
<td>12.4</td>
</tr>
<tr>
<td>Line 104 – Centre of LW104 – Northern – Monitoring has ceased</td>
<td>26.5</td>
<td>24.1</td>
</tr>
<tr>
<td>Line 104 – Centre of LW104 – Southern – Monitoring has ceased</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line 105 – Centre of LW105 – Northern – Monitoring has ceased</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line 105 – Centre of LW105 – Southern – Monitoring has ceased</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line 106 – Centre of LW106 – Northern – Being closed out</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line 107 – Centre of LW107 – Northern</td>
<td>2.75</td>
<td>2.64</td>
</tr>
<tr>
<td>Subsidence (m)</td>
<td>44</td>
<td>36.3</td>
</tr>
<tr>
<td>Tilt (mm/m)</td>
<td>13</td>
<td>16.2</td>
</tr>
<tr>
<td>Tensile Strain (mm/m)</td>
<td>16</td>
<td>38.9</td>
</tr>
<tr>
<td>Compressive Strain (mm/m)</td>
<td>26.5</td>
<td>27.1</td>
</tr>
<tr>
<td>Angle of Draw (°, Degrees)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line 108</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line 108 – Southern</td>
<td>2.75</td>
<td>2.86</td>
</tr>
<tr>
<td>Subsidence (m)</td>
<td>38</td>
<td>30.9</td>
</tr>
<tr>
<td>Tilt (mm/m)</td>
<td>10</td>
<td>15.6</td>
</tr>
<tr>
<td>Tensile Strain (mm/m)</td>
<td>13</td>
<td>6.8</td>
</tr>
<tr>
<td>Compressive Strain (mm/m)</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>Angle of Draw (°, Degrees)</td>
<td>13 – 20^</td>
<td></td>
</tr>
<tr>
<td>Line H – Cross Panel Survey Line</td>
<td>16 – 24^</td>
<td></td>
</tr>
</tbody>
</table>

* - subsidence development incomplete.

^ - values for ‘smooth’ and ‘discontinuous’ (i.e. crack affected) subsidence profiles.
Based on the above table the subsidence predictions for the most recently completed survey, i.e. LW108 northern line, indicate:

- The maximum subsidence measurement of Line H (2.86m) exceeds predicted value of 2.75m. LW 107 and 108 are within compliance.
- The maximum tilt measurements recorded were within the predicted values.
- The maximum tensile and compressive strain measurements for LW107 and Line H were within predicted values, with LW 108 exceeded the predicted values.

Complaints

14 complaints received during the period 01st July to 11th September. Complaints in relation to Noise from main vent fan. 13 Complaints from single complainant. Noise attenuation activities undertaken on main vent fan and gas drainage extraction units.

Incident(s)

No reportable incidents.

Regulator Interaction

- Resources Regulator
  - A Decision to Suspend Exploration License 6243 was issued by the Regulator on Thursday the 22nd of August 2019. NCO are progressing rehabilitation works and other actions requested by the Regulator, such as undertaking of an independent audit and review of Environmental Management Systems.
  - Final component of information was provided to the Resources Regulator to address a Section 240 Notice in relation to the Rejects Emplacement Area.

- EPA
  - A Penalty Infringement Notice (PIN) was issued to NCO on 14th June, in relation to alleged dust pollution from coal stockpiles on 05th January. Whitehaven lodged an appeal to the PIN on 10th July. Appeal unsuccessful. Fine of $15,000 paid on 07th August.
  - Response to Clean-Up Notice (Narrabri Landfill incident) was lodged with EPA on 17th July. NCO are continuing negotiations with Narrabri Shire Council and EPA regarding resolution of this matter.