

Awaba Colliery End of Year Subsidence Management Report

Report Number: 4

Date: 08-03-2012

Distribution List:

- I&I - Director Environmental Sustainability
- I&I - Subsidence Executive Officer
- I&I - District Inspector,
- I&I - Principal Subsidence Engineer,
- I&I - Subsidence Engineer,
- DNR – Dept. Water and Energy,
- TransGrid,
- Ausgrid
- RailCorp,
- MSB,
- Eraring Energy,
- Telstra
- Awaba Mine Manager,
- Awaba Environmental Coordinator.

General Comments:

- Approval to mine Stage 1 of MSMP at Awaba Colliery was granted on 03/09/2007
- Stage 1 Mining completed on 26/06/2009.
- Stage 1 Monitoring variation from 3 to 6 monthly approved 28/06/2011.
- Approval to mine Stage 2 of MSMP at Awaba Colliery was granted on 29/08/2008
- Stage 2 Mining completed on 08/03/2012.
- Approval to mine MSMP 3 NORTH Area - Awaba Colliery was granted on 13/05/2009
- 3 NORTH Mining completed on 25/01/2010.
- Approval to mine Stage 3 of MSMP at Awaba Colliery was granted on 15/12/2010
- Stage 3 Mining Completed on 22/12/2011.
- Approval to mine MSMP East B Area at Awaba Colliery was granted on 27/07/2011
- East B Mining Completed on 21/12/2011.
- **Awaba Colliery Great Northern Seam Mining Ceased 08/03/2012.**

SMP Approval Condition No.	Requirement Summary	Comment / Description
22 (a)	Summary of Subsidence and Environmental Monitoring Results	<p>The Following subsidence surveys and inspections have been completed:</p> <p>Surface Surveys –</p> <p>All scheduled subsidence surveys completed to end of January. Next resurvey is for March and/or June.</p> <p>As of 31/01/2012, the maximum subsidence is -136mm at XL55 in the centre of Main South X-Line in Stage 1.</p> <p>There is no subsidence impact on monitoring points nearer to the Main Northern Railway, Ulan Rail Loop, Haul Road Bridge, Telstra Tower or Railcorp and Ausgrid Power Poles.</p> <p>Visual Inspections continuing have found one case of surface impacts. This impact was a sinkhole in the Stage 3 area - found following heavy rain over the June 2011 long weekend. The hole was approximately 33x38 metres in surface area with cover ranging between 26-30 metres. The relevant government authorities and stake holders were informed of this within 24 hours of the discovery of the hole. An Environmental rehabilitation of the site has since been completed. The location of the sinkhole was plotted and is shown on the Stage 3 Face Position plan AW2176.</p> <p>Underground Surveys –</p> <p>Statutory inspections undertaken by mining officials have found no evidence of underground pillar failure.</p>

SMP Approval Condition No.	Requirement Summary	Comment / Description
22 (b)	Analysis of Subsidence and Environmental Monitoring Results	Subsidence has been within predicted levels and has had no detectable adverse impact on surface infrastructure. Environmental impacts have been confined to the one sinkhole as described above.
22 (c)	Trends in Monitoring Results	The trend in monitoring results shows that the majority of subsidence occurs during and shortly after mining extraction. In the following months the rate of subsidence decreases toward a stable environment.
22 (d)	Management Actions of Potential Impacts	All current Public Safety and Subsidence Management Plans are considered adequate and monitoring will remain as planned and approved with DPI Principal Subsidence Engineer.

Alex Brown

Awaba Colliery - Mine Manager

For any comments or questions please contact
 Alex BROWN- Mine Manager
 Ph.(W) 02 49503420
alex.brown@centennialcoal.com.au