

TAHMOOR COLLIERY: Longwall 30

Subsidence Management Status Report No. 13
Submitted every four months as required by Condition 17 of the
Subsidence Management Plan Approval for Longwall 30

| Reporting Period | 1 November 2016 to 28 February 2017 | |
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| Length of extraction of LW30 | 1784 m | as at 26 February |
| Length of extraction remaining of LW30 | 538 m | |
| Distance travelled by LW since previous report | 790 m | 1 November to 26 February |
| Maximum total subsidence since start of LW22 measured during reporting period | 1030 mm | Railway line as at 21 February |
| Maximum incremental subsidence due to LW30 measured during reporting period | 697 mm | Optical Fibre Line as at 21 February |
| Maximum increase in subsidence since previous report | 302 mm | Redbank Creek line (3 January to 20 February) |

Summary of Observations, Management Actions and Consultation

| Summary of subsidence development |
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| <p>Subsidence is developing above LW30 within expectations. The zone of active subsidence is currently in rural land beneath Redbank Creek and the longwall face is approaching the Main Southern Railway. During this reporting period, subsidence monitoring has focussed primarily on the Main Southern Railway, Redbank Creek and Bridge Street.</p> |
| Natural Features |
| <p><i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i></p> <p>Valley closure has developed along Redbank Creek during this reporting period. Observed maximum valley closure is currently less than predicted maximum valley closure. Closure is continuing to develop across a small tributary entering Redbank Creek from the south between Pegs RK27 and RK28. A small tributary enters Redbank Creek from the north directly opposite, indicating that the two tributaries are likely following the alignment of a geological structure. No closure is currently developing where the tributary intersects Bridge Street near Pegs BG98 and BG99 but will continue to be watched.</p> <p>The first visual inspection for Longwall 30 was undertaken on 16 November 2016, where it was found that the creek was totally dry upstream of the railway crossing above Longwall 29. Downstream of the crossing pools were low to dry above Longwall 30. Minor cracks have been observed in the railway culvert at the downstream end. An inspection on 22 February has found that all pools upstream of the railway culvert were dry, as were most pools downstream of the culvert above Longwall 30. No new cracking or sheeting has been observed during Longwall 30. The observations of loss of surface water, while within expectations, exceed the trigger levels in the Natural Features Management Plan. No impacts have been reported on water quality.</p> <p><i>Summary of Management Actions</i></p> <p>Relative 3D ground surveys and visual inspections of Redbank Creek are ongoing, as per the Natural Features Management Plan. The longwall face has mined directly beneath Redbank Creek and has passed it by approximately 70 metres.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Observations during mining of Longwall 30 reported to TCCCC and DRE. No issues have been raised. A site inspection was undertaken by Will Mitry, Environment Inspector from the Wollongong Environmental Sustainability Unit, DRE, on 24 February with no further issues raised.</p> |
| Main Southern Railway |
| <p><i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i></p> <p>The longwall face has mined adjacent to the Main Southern Railway during this reporting period. There have been no impacts on the safety or serviceability of the Railway. The railway infrastructure has experienced some minor impacts along the track as a result of mine subsidence, and these have been successfully managed by ARTC and Tahmoor Colliery.</p> <p><i>Summary of Management Actions</i></p> <p>Monitoring and inspections are being undertaken as per the Railway Management Plan.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Ongoing consultation with ARTC, including weekly teleconference. Detailed subsidence monitoring reports issued weekly. Please refer to Railway Status Report for further information.</p> |
| Local Roads, Bridges and Culverts |
| <p><i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i></p> <p>Bridge Street and Redbank Place are experiencing active subsidence from the mining of Longwall 30, with no impacts observed. Bridge Street Overbridge has experienced approximately 60 mm of vertical subsidence during this reporting period. No impacts have been observed to road culverts or Bridge Street during this reporting period.</p> <p><i>Summary of Management Actions</i></p> <p>Monitoring and inspections have been undertaken as per the Wollondilly Shire Council Management Plan, including weekly ground surveys along Bridge Street and Redbank Place.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Detailed subsidence monitoring report is issued to Wollondilly Council.</p> |

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| Potable Water Infrastructure |
| <i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i> No impacts observed or reported with respect to potable water infrastructure. <i>Summary of Management Actions</i> Monitoring and inspections are being undertaken as per the Potable Water Management Plan. <i>Summary of Consultation with Stakeholders</i> Detailed subsidence monitoring report is issued to Sydney Water. |
| Sewer Infrastructure |
| <i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i> No impacts observed or reported with respect to sewer infrastructure <i>Summary of Management Actions</i> Monitoring and inspections are being undertaken as per the Sewer Management Plan. <i>Summary of Consultation with Stakeholders</i> Detailed subsidence monitoring reports are issued to Sydney Water. |
| Gas Infrastructure |
| <i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i> No impacts observed or reported with respect to gas pipes. <i>Summary of Management Actions</i> Monitoring and inspections are being undertaken as per the Jemena Management Plan. <i>Summary of Consultation with Stakeholders</i> Detailed subsidence monitoring reports are issued to Jemena. |
| Electrical Infrastructure |
| <i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i> No impacts observed or reported with respect to electrical cables or poles. <i>Summary of Management Actions</i> Monitoring and inspections are being undertaken as per the Endeavour Management Plan. This includes monthly surveys of critical power poles. <i>Summary of Consultation with Stakeholders</i> Detailed subsidence monitoring report is issued to Endeavour Energy. |
| Telecommunications Infrastructure |
| <i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i> No impacts observed or reported with respect to telecommunications cables or poles. <i>Summary of Management Actions</i> Monitoring and inspections are being undertaken as per the Telstra Management Plan. This includes weekly visual inspections within the zone of active subsidence. <i>Summary of Consultation with Stakeholders</i> Detailed subsidence monitoring reports are issued to Telstra. |
| Items of Heritage Significance |
| No items of heritage significance are located within the active subsidence area during this reporting period. |
| Building Structures |
| <i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i> A small number of houses have experienced subsidence movements during the mining of Longwall 30. No impacts have been observed or reported. <i>Summary of Management Actions</i> Ongoing inspections of properties within the active subsidence area. <i>Summary of Consultation with Stakeholders</i> Ongoing, extensive consultation has been undertaken with residents in the subsided areas. This includes consultation with residents who have experienced impacts and neighbouring residents who have not reported impacts. |

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TAHMOOR
UNDERGROUND
GLENORE

Commercial and Industrial Structures

Summary of any observed/reported impacts or incidents, exceedance of triggers

A small number of houses have experienced subsidence movements during the mining of Longwall 30. No impacts have been observed or reported.

Summary of Management Actions

Monitoring and inspections are being undertaken as per Property Subsidence Management Plans.

Summary of Consultation with Stakeholders

Ongoing, extensive consultation has been undertaken with land and business owners in the South Picton Commercial and Business Precinct. Subsidence monitoring status reports issued weekly. Please refer to Picton Industrial Area Status Reports for further information.

Any additional and/or outstanding management actions

None. The existing management processes are considered to be adequate and effective.



Certified by Tahmoor Colliery:

Signature: _____

Date: 28 February 2017