

TAHMOOR COLLIERY: Longwall 30

Subsidence Management Status Report No. 14
Submitted every four months as required by Condition 17 of the
Subsidence Management Plan Approval for Longwall 30

Reporting Period	1 March 2017 to 30 June 2017	
Length of extraction of LW30	2320 m	LW30 completed 28 May 2017
Length of extraction remaining of LW30	-	LW30 completed 28 May 2017 LW31 scheduled start 29 June 2017
Distance travelled by LW since previous report	537 m	26 February to 28 May
Maximum total subsidence since start of LW22 measured during reporting period	1030 mm	Railway line as at 5 June
Maximum incremental subsidence due to LW30 measured during reporting period	682 mm	Bridge Street as at 26 June
Maximum increase in subsidence since previous report	580 mm	Bridge Street (27 February to 26 June)

Summary of Observations, Management Actions and Consultation

Summary of subsidence development
Subsidence has developed above LW30 within expectations. During this reporting period, subsidence monitoring has focussed primarily on the Main Southern Railway, Redbank Creek, Bridge Street and the South Picton Commercial and Industrial Precinct.
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 less than predicted maximum valley closure. Closure developed across a small tributary entering Redbank Creek on the south bank between Pegs RK27 and RK28.</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. Additional cracking and diversion of surface water flow was observed during the mining of Longwall 30, extending to three sites above future Longwall 31. 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 continued monthly, as per the Natural Features Management Plan until rates of change reduced to low levels.</p> <p>Corrective Management Action Plan (CMAP) Revision B submitted to Department of Resource and Geoscience (DRG) on 16 June 2017 for approval. The CMAP Rev B presents a plan with a particular focus on the first stage (Myrtle Creek Trial Project) and on completion of those works the effectiveness will be assessed for the appropriate approach and implementation at future sites within Myrtle and Redbank Creeks. Redbank Creek will be undermined by Longwall 31 and Longwall 32.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Observations during mining of Longwall 30 reported to TCCCC and DRE. A site inspection was undertaken by Will Mitry, Environment Inspector from the Wollongong Environmental Sustainability Unit, DRG on 23 May 2017 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 and directly beneath 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 on a monthly basis 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 were issued weekly and are now monthly. Please refer to Railway Status Report for further information.</p>

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Local Roads, Bridges and Culverts

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

Bridge Street and Redbank Place have experienced active subsidence from the mining of Longwall 30. Minor cracks have been observed on Bridge Street above the eastern edge of Longwall 30.

Bridge Street Overbridge has experienced approximately 210 mm of vertical subsidence during this reporting period. No impacts have been observed to road culverts or Bridge Street during this reporting period.

Summary of Management Actions

Monitoring and inspections have been undertaken as per the Wollondilly Shire Council Management Plan, including weekly ground surveys along Bridge Street and Redbank Place.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Wollondilly Council.

Potable Water Infrastructure

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

No impacts observed or reported with respect to potable water infrastructure.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Potable Water Management Plan.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Sydney Water.

Sewer Infrastructure

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

No impacts observed or reported with respect to sewer infrastructure. There is a short 21 metre section of the Thirlmere Carrier pipe along Bridge Street that has been laid with a relatively low grade of 0.5 % (5 mm/m). The average gradient for the section of pipe between Pegs BG105 and BG106 is estimated from ground surveys to be -0.01 %, which exceeds the early warning trigger level in the Management Plan. This section of pipe was predicted to experience reduced grades prior to mining.

The site is not of concern as the section exceeding the trigger level is short in length. Sydney Water reports no customer complaints in this area. Sydney Water undertook a CCTV inspection in June 2017 after the completion of Longwall 30 and confirm no structural defects. The Thirlmere Carrier is flowing with no obstruction or change of grade observed.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Sewer Management Plan, including weekly ground surveys along Bridge Street and the alignment of the Thirlmere Carrier pipe.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Sydney Water.

Gas Infrastructure

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

No impacts observed or reported with respect to gas pipes.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Jemena Management Plan.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Jemena.

Electrical Infrastructure

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

No impacts observed or reported with respect to electrical cables or poles.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Endeavour Management Plan. This includes monthly surveys of critical power poles.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Endeavour Energy.

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TAHMOOR
UNDERGROUND
GLENCORE

Telecommunications Infrastructure

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

No impacts observed or reported with respect to telecommunications cables or poles.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Telstra Management Plan. This includes weekly visual inspections within the zone of active subsidence.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Telstra.

Items of Heritage Significance

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

The Queen Victoria Memorial Home structures have experienced less than 20 mm subsidence from the mining of Longwall 30. No impacts have been observed or reported and no analytical concerns have been recorded from asbestos air monitoring.

Summary of Management Actions

Monitoring and inspections have been undertaken as per the Queen Victoria Memorial Home Property Subsidence Management Plan, including weekly ground surveys of marks located around the buildings and along the eastern fence line, visual inspections and asbestos air monitoring.

Summary of Consultation with Stakeholders

Ongoing, extensive consultation has been undertaken with land owner and management of the Queen Victoria Memorial Home. Subsidence monitoring status reports are issued weekly. Please refer to Queen Victoria Memorial Home Status Reports for further information.

Building 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

Ongoing inspections of properties within the active subsidence area.

Summary of Consultation with Stakeholders

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.

Commercial and Industrial Structures

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

Structures within the South Picton Commercial and Business Precinct have experienced minor subsidence movements during the mining of Longwall 30. No impacts have been observed or reported.

Summary of Management Actions

Monitoring and inspections were undertaken as per Property Subsidence Management Plans.

Monitoring of structures within the South Picton Commercial and Business Precinct has finished following the completion of Longwall 30.

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 were 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.



30/06/2017

Certified by Tahmoor Colliery:

Signature: _____ Date: _____