TAHMOOR COLLIERY: Longwall 28

Subsidence Management Status Report No. 05
Submitted every four months as required by Condition 17 of the Subsidence Management Plan Approval for Longwalls 27 to 30

TAHMOOR UNDERGROUND
GLENCORE

Reporting Period	1 March 2014 to 30 June 2014	
Length of extraction	422 m	as at 30 June
Length of extraction remaining	2208 m	
Distance travelled by LW since previous report	N/A	This is the first report for LW28
Maximum total subsidence since start of LW22 within zone of active subsidence	978 mm	on Remembrance Drive as at 24 June
Maximum incremental subsidence due to LW28 within zone of active subsidence	381 mm	on the Tahmoor Carrier line as at 25 June
Maximum increase in subsidence since previous report	N/A	This is the first report for LW28

Summary of Observations, Management Actions and Consultation since start of LW28

Summary of subsidence development

Subsidence is gradually developing above the commencing end of LW28, within expectations. The magnitude of subsidence is reduced compared to previous experiences during the mining of LWs 24A, 25, 26 and 27.

The zone of active subsidence is currently in the vicinity of Myrtle Creek and The Main Southern Railway where it crosses above Longwall 28. The urban area of Tahmoor above Longwall 28 is experiencing the period of most active subsidence.

Non-systematic subsidence movements in the form of increased ground strains have been observed at one new site, which is on the Tahmoor Carrier line (Pegs TC15 & TC16).

Natural Features

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

Valley closure and upsidence has been measured in Myrtle Creek along a number of monitoring lines that are located directly above Longwall 28. Minor additional closure has been observed across Myrtle Creek where it crosses previously extracted Longwalls 25 and 26. Valley closure is developing along the MXA, MXB and MXC lines above Longwalls 27 and 28. The longwall has moved away from Myrtle Creek by a distance of approximately 100 metres.

Weekly visual inspections along Myrtle Creek are being undertaken, with some new impacts observed above Longwall 28. Some pools are currently dry and water levels in one pool have reduced. A groundwater seep has initiated in one location above Longwall 28. No impacts have been reported on water quality.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Natural Features Management Plan. Ground surveys have commenced along Myrtle Creek, as per the Management Plan.

Summary of Consultation with Stakeholders

Observations during mining of Longwall 28 reported to TCCCC, DRE, NoW. Onsite inspection arranged with DRE to inspect Myrtle Creek above active subsidence zone.

Main Southern Railway

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

The longwall face has just completed extraction beneath the Main Southern Railway in the Tahmoor area. There have been no impacts on the safety or serviceability of the Main Southern Rail line. The railway infrastructure has experienced some minor impacts as a result of mine subsidence, and these have been successfully managed by ARTC and Tahmoor Colliery.

Summary of Management Actions

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

Summary of Consultation with Stakeholders

Ongoing consultation with ARTC, including weekly teleconference. Detailed subsidence monitoring reports issued weekly. Please refer to Railway Status Report for further information.

Local Roads, Bridges and Culverts

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

A small bump in the pavement at the intersection of York Street and Remembrance Drive, observed during LW27, may be changing slightly and is being closely watched.

Small hairline cracks previously observed in Tahmoor House Court have opened slightly and are being closely watched. Some survey pegs along Remembrance Drive have been destroyed by cycleway construction work nearby. Supplementary pegs have been installed on the opposite side of the road, and are being surveyed weekly.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Wollondilly Shire Council Management Plan. Weekly surveys at the Remembrance Drive Road and Foot Bridge over Myrtle Creek since the commencement of Longwall 28 have measured only minor changes. There is a small increase in closure between the footbridge abutments.

Visual inspections have not observed any impacts, though it is noted that the joints between the Road Bridge deck and the approach

pavements have opened slightly. No change in horizontal distance is observed across the abutments and the cause of the opening may be related to recent cold weather. The bridges will continue to be closely watched.

Monitoring and inspections for Castlereagh Street Bridge are being undertaken monthly as per the Management Plan. No additional impacts or valley closure movement have been observed at Castlereagh Street Bridge during the mining of Longwall 28.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Wollondilly Council each week.

Potable Water Infrastructure

Summary of any observed/reported impacts or incidents, exceedence 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 report is issued to Sydney Water each week.

Sewer Infrastructure

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

Monitoring of the Tahmoor Carrier Pipe for changes in sewer grade along York St is being carried out weekly and pipe grades are currently well above trigger levels for low grades.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Sewer Management Plan. A CCTV inspection has been undertaken at the site of increased compressive ground strain between TC15 and TC16, with no issues raised. A follow up inspection will be undertaken in the next fortnight. **Additional surveys in backyard of property where TC15 and TC16 are located are currently twice weekly.**

The affected section of pipe is encased in concrete, and is located directly beneath a house. Consideration is being given as to available methods of repair should the pipe become severely damaged. Visual inspections around the house and driveway have not detected any impacts at this stage.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Sydney Water each week. There is regular ongoing consultation with Sydney Water, including arrangement for CCTV inspections of sewer along the Tahmoor Carrier pipe. Consultation with resident and neighbours about contacting Colliery and Sydney Water emergency line if any visible ground changes or detectable sewer odour on or around property.

Gas Infrastructure

Summary of any observed/reported impacts or incidents, exceedence 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 report is issued to Jemena each week.

Electrical Infrastructure

Summary of any observed/reported impacts or incidents, exceedence 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 report is issued to Endeavour Energy each week.

Telecommunications Infrastructure

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

No impacts observed or reported with respect to telecommunications cables or poles. Minor tightening of aerial cables in two spans along Remembrance Drive is being closely watched.

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

Consultation with Telstra regarding minor tightening of specific aerial cables on Remembrance Driveway. Detailed subsidence monitoring report is issued to Telstra each week.

Items of Heritage Significance
Tahmoor House
Summary of any observed/reported impacts or incidents, exceedence of triggers
No impacts observed. No triggers have been exceeded.
Summary of Management Actions
Tahmoor House has experienced subsidence movements and very small differential movements during the extraction of LW28. The longwall face has mined past the property by approximately 190 metres. Weekly ground surveys and visual inspections are being undertaken, with no issues raised.
Extensive weatherboard re-cladding work is currently being undertaken in the south eastern corner and western face of the building.
Summary of Consultation with Stakeholders
Ongoing consultation with owners of Tahmoor House.
Building Structures
Summary of any observed/reported impacts or incidents, exceedence of triggers
Impacts observed to a number of houses during the mining of LW28.
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.
Any additional and/or outstanding management actions
No additional management actions.

Certified by Tahmoor Colliery: Signature: _____ Date: _____02.07.14_____

Belinda Treverrow

Community & Approvals Coordinator