

TAHMOOR COLLIERY: Longwall 26

Subsidence Management Status Report No. 01

Submitted every four months as required by Condition 17 of the Subsidence Management Plan Approval for Longwall 26



Reporting Period	30 March 2011 to 02 August 2011	
Length of extraction	789 m	as at 02 August
Length of extraction remaining	2695 m	
Distance travelled by LW since previous report	N/A	LW advanced 58 m since 26 July
Maximum total subsidence since start of LW22 within zone of active subsidence	1335 mm	on Progress Street as at 28 July
Maximum incremental subsidence due to LW26 within zone of active subsidence	837 mm	on Tahmoor Road as at 28 July
Maximum increase in subsidence since previous report	121 mm	on Moorland Road (Peg MD4) as at 28 July

Summary of Observations, Management Actions and Consultation since start of LW26

Summary of subsidence development

Increased subsidence has developed above commencing end of LW26 along Tahmoor Road, but the magnitude of subsidence is reduced compared to previous experiences during the mining of LWs 24A and 25. As the LW progresses, it is observed that areas within the current active subsidence zone such as Moorland Road and Struan Street appear to be following the same rate of subsidence development as Tahmoor Road, suggesting that increased subsidence will continue to develop in these areas.

Non-systematic subsidence movements in the form of increased ground strains and irregular subsidence profiles have been observed at two new sites, which are on Tahmoor Road (Pegs TM15 & TM16), and Moorland Road (Pegs MD6 & MD7). Oxley Grove has also experienced ground deformations that indicate non-systematic movement, though this is not obvious when examining 2D subsidence data. It is noted that Oxley Grove was constructed along an old creek line and was identified as a "hidden creek" in subsidence reports. Pegs TM15 and T16 are also located close to this creek line. Continued non-systematic subsidence movements have been observed at previously observed site on Abelia Street above LW25 (Pegs A12 & A13).

Currently watching development of strains at intersection between Struan Street and Tahmoor Road.

Natural Features

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

No impacts observed or reported with respect to natural features. Observed incremental subsidence along Greenacre Drive has not exceeded the trigger level for further ground surveys at pegs located closer to the Bargo Gorge. This trigger level is considered unlikely to be exceeded as the rate of increase along this monitoring line has substantially reduced.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Natural Features Management Plan. Ground surveys are due to commence along Myrtle Creek next week, as per the Management Plan.

Summary of Consultation with Stakeholders

Observations during mining of Longwall 26 reported to TCCCC. No issues raised.

Main Southern Railway

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

No impacts observed or reported with respect to Main Southern Railway. Based on monitoring results to date, triggers are not forecast to be exceeded in the next week due to the continued extraction of Longwall 26.

Summary of Management Actions

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

Summary of Consultation with ARTC

Ongoing consultation with ARTC, including weekly teleconference. Detailed subsidence monitoring reports commence next week. 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

Impacts to road pavement and kerbs have been observed within zone of active subsidence. Bump formed on Tahmoor Road and Moorland Road where non-systematic subsidence movements are observed. Impacts also observed to kerbs and pavement on Oxley Grove. Watching development of minor ripples in the road pavement at intersection between Struan St and Tahmoor Rd.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Wollondilly Shire Council Management Plan. Castlereagh Street Bridge is yet to be affected by mining of Longwall 26, with monitoring and inspections scheduled to commence in approximately 4 weeks as per the Management Plan.

Summary of Consultation with Wollondilly Shire Council

Detailed subsidence monitoring report is issued to Wollondilly Council each week. Council also notified of increased ground strains and irregular subsidence profiles on Tahmoor Road and Moorland Road. Ongoing consultation with Wollondilly Council includes treatment of existing survey pegs along Remembrance Drive during construction works.

Potable Water Infrastructure

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

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

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Potable Water Management Plan. Visual inspections of Myrtle Creek pipe crossing are due to commence in approximately 5 weeks as per the Management Plan.

Summary of Consultation with Sydney Water Potable

Detailed subsidence monitoring report is issued to Sydney Water each week. Sydney Water was also notified of increased ground strains and irregular subsidence profiles on Tahmoor Road and Moorland Road.

Sewer Infrastructure

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

While sewerage services remain operational, impacts have been observed to sewer pipes on Tahmoor Road and along section of pipes between Abelia Street and Oxley Grove where non-systematic subsidence movements are observed. The pipes have been deformed due to subsidence and a crack has formed at the top of one section of pipe. Sydney Water has commenced work to repair these pipes as the rate of subsidence development has substantially reduced.

Inspections have been arranged for section of pipes along Moorland Road where non-systematic subsidence movements are currently developing.

Monitoring of critical pipes for changes in sewer grade between Struan Street, Tahmoor Road and Moorland Road have commenced 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. CCTV inspections along Tahmoor Carrier Pipe on York Street have been arranged. Preparations are underway with respect to installation of temporary, standby bypass line and pump system for horizontal bore behind Amblecote Place. CCTV inspections of the bore are due to commence in approximately 4 weeks. Surveys of Myrtle Creek pipe crossings are due to commence in approximately 11 weeks.

Summary of Consultation with Sydney Water Sewer

Detailed subsidence monitoring report is issued to Sydney Water Sewer each week. Sydney Water Sewer was also notified of increased ground strains and irregular subsidence profiles on Tahmoor Road and Moorland Road. There is regular ongoing consultation with Sydney Water at least once a week.

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. The construction of the new concrete pavement along Remembrance Drive between Bradbury Street and York Street has resulted in significant impacts on the ground survey pegs. This survey line is a critical management measure for the Gas Management Plan, where triggers are in place for mining-induced ground strain and curvature. It is fortunate that the longwall face has not yet mined directly beneath Remembrance Drive, providing some confidence that little ground strain has likely developed over the last two months. Ground surveys were extended to include the pegs within the construction each week so that the condition of survey pegs could be inspected regularly and the survey data analysed to detect changes in survey measurements due to the construction impacts. These construction affected changes have been removed from the survey results to avoid excessive false exceedence of triggers. Construction is almost complete.

Summary of Consultation with Jemena

Detailed subsidence monitoring report is issued to Jemena each week. Jemena was also notified of increased ground strains and irregular subsidence profiles on Tahmoor Road and Moorland Road.

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. Changes in the catenaries of some cables but are not of concern.

Summary of Management Actions

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

Summary of Consultation with Integral

Detailed subsidence monitoring report is issued to Integral each week. Integral was also notified of increased ground strains and irregular subsidence profiles on Tahmoor Road and Moorland Road.

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. Changes in the catenaries of some aerial cables have been observed but are not of concern.

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 Telstra

Detailed subsidence monitoring report is issued to Telstra each week. Telstra was also notified of increased ground strains and irregular subsidence profiles on Tahmoor Road and Moorland Road.

Tahmoor Town Centre

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

No new impacts observed or reported at the Tahmoor Town Centre.

Summary of Management Actions

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

Summary of Consultation with Tahmoor Town Centre

Detailed subsidence monitoring report is issued to TTC each week.

Inghams

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

No new impacts observed or reported at Inghams Processing Plant. No triggers have been exceeded and are considered unlikely to be exceeded as mining progresses.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Inghams Management Plan, as amended prior to the commencement of LW26.

Summary of Consultation with Inghams

Detailed subsidence monitoring reports have been issued to Inghams.

Items of Heritage Significance

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

No impacts observed. No triggers have been exceeded.

Summary of Management Actions

The heritage listed property on Remembrance Drive is yet to experience significant subsidence movements during the extraction of LW26. Weekly visual inspections from the kerb commence this week.

Summary of Consultation with Stakeholders

The resident has requested not to be consulted and no access is permitted on the property.

Building Structures

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

Impacts observed to a number of houses during the mining of LW26, including severe (Category 4) impacts to 3 houses near the locations of non-systematic movements on Tahmoor Road and Moorland Road. Most houses on Oxley Grove have also reported impacts.

Summary of Management Actions

Extensive monitoring, inspections and emergency works have been undertaken on houses and associated structures by Tahmoor Colliery and the Mine Subsidence Board.

Properties with category 4 impacts

24 Tahmoor Road Tahmoor – ongoing consultation with property owners, weekly inspections by building inspector, MSB have completed temporary repairs and they are satisfied with ongoing consultation process.

62-64 Tahmoor Road Tahmoor – ongoing consultation with property owners, weekly inspections by building inspector, MSB have completed temporary repairs and property owners are satisfied with ongoing consultation process.

69 Moorland Road Tahmoor – ongoing consultation with property owners, daily inspections by building inspector, brick wall that is in tilt has been supported by two A frames on either side of wall. Owner is satisfied with structural assessment and structural support to property. Ongoing consultation with land owners and counselling has been provided.

Summary of Consultation with Property Owners

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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Any additional and/or outstanding management actions

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

Certified by Tahmoor Colliery:

Name: BELINDA CLANTON

Position: COMMUNITY COORDINATOR

Signature: 

Date: 10-08-11