



Tahmoor Mine Extraction Plan: Longwalls West 3 - West 4

Historical heritage technical report

Prepared for Tahmoor Coal Pty Ltd
March 2021





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Executive Summary

This Historical Heritage Technical Report (HHTR) has been prepared by EMM Consulting Pty Limited (EMM) to support an Extraction Plan for the secondary extraction of coal from Longwalls West 3 and West 4 (LW W3–W4). The objectives of the HHTR are to identify historical (non-Aboriginal) heritage values within the LW W3–W4 Study Area and to provide for the monitoring and management of potential subsidence related environmental impacts on historical heritage sites to demonstrate that the relevant performance measures are met.

The proposed LW W3–W4 will be operating in the Tahmoor North mining area under Development Consent DA 57/93 granted on 7 September 1994 and DA 67/98 granted on 25 February 1999. This HHTR has been developed in accordance with the conditional planning approval framework for mining activities in the area to the north-west of the Main Southern Railway (the Western Domain) within the Tahmoor North mining area.

There are six listed heritage sites within the Study Area. Three items are listed on the Wollondilly Local Environment Plan: the Mushroom Tunnel (I144), Weatherboard Cottage (WLEP I211) and Redbank Uniting Church (I146). Three items are listed on S170 registers: Picton Tunnel (ARTC S170 Register, as part of the Picton Railway Deviation Works), Antill Street Underbridge (ARTC S170 Register) and Rural Landscape (Thirlmere Way) (Department of Health S170 Register). In addition, three listed heritage sites, Picton Viaduct (State Heritage Register), Argyle Street Underbridge (Hole in the Wall) (I149) and a pedestrian overbridge at 86.1 km (ARTC S170 Register) have been included in this report as they may be sensitive to far field horizontal movements during extraction of W3–W4.

Items of railway infrastructure that are not listed on heritage registers but have collective local significance have also been considered in this report. Six culverts on the Picton-Mittagong Loop Line, of which two are directly above LW W3, have been inspected and recorded (EMM 2019). In addition, a number of items of railway infrastructure within the Study Area will require a heritage assessment and are included in this management plan. The items that require inspection are seven culverts on the Main Southern Railway, the subway at 88.133, the Bridge on Matthews Lane, a high retaining wall, Prince Street Overbridge, Connellan Crescent Overbridge and any other bridges or items of historical interest that are located on the Main Southern Railway within the Study Area.

The probability of subsidence impacts to most of the historical heritage items is predicted by MSEC (2019) to be *unlikely*. The exception is the two culverts above LW W3 where impacts are predicted to be *possible* (MSEC 2019).

ES1 Management measures

To ensure that performance measures are met, an ongoing monitoring program will be implemented to confirm if impacts remain within predictions and identify if any mitigation measures are triggered. To establish compliance with the performance measures, a Trigger Action Response Plan (TARP) has been developed (Appendix A) outlining subsidence monitoring measures feedback and improvement where monitoring indicates that any performance measures have been exceeded or if exceedance seems likely.

The monitoring program, which was put in place to monitor the impacts and consequences of subsidence effects on known historical heritage sites during the extraction of LW W1–W2, will continue during the extraction of LW W3–W4. Additional historical heritage items within the W3–W4 Study Area will undergo a similar process.

Monitoring measures to control the risk of impacts to all heritage items will be continuously reviewed during the extraction of LW W3–W4. As each longwall progresses, it will be possible to introduce additional controls if required in the event that unexpected adverse changes are observed.

Picton Viaduct (SHR 01051) is a State heritage listed item and if required, works covered under Standard Exemption 19 (safety and security) do not require approval under subsection 57(1) of the Heritage Act 1977 (Heritage NSW 2020b). The specified activities/works are to be undertaken in accordance with each of the relevant prescribed standards.



This information has been
retracted
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