



# Independent Environmental Audit 2020

Tarrawonga Coal Mine

7 September 2020

Project No: 0558257



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#### **Signature Page**

7 September 2020

# **Independent Environmental Audit 2020**

Tarrawonga Coal Mine

Heather McKay Lead Auditor

Oliver Moore Partner in Charge

Breaty

Brigitte Healey Support Auditor

Environmental Resources Management Australia Pty Ltd Level 15, 309 Kent St Sydney NSW 2000

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# **Independent Audit Certification Form**

Independent Audit Certification Form				
Development Name	Tarrawonga Coal Mine			
Development Consent No.	PA 11_0047 (Modification 8)			
Description of Development	Tarrawonga Coal Mine is an open cut mine			
Development Address	469 Goonbri Road, Boggabri NSW 2382			
Operator	Tarrawonga Coal Pty Ltd			
Operator Address	469 Goonbri Road, Boggabri NSW 2382			
Independent Audit				
Title of Audit Tarrawonga Coal Mine Independent Environmental Audit 2020				

I certify that I have undertaken the independent audit and prepared the contents of the attached independent audit report and to the best of my knowledge:

- The audit has been undertaken in accordance with relevant approval condition(s) and in accordance with the auditing standard AS/NZS ISO 19011:2018 and Post Approval Requirements Independent Audits
- The findings of the audit are reported truthfully, accurately and completely;
- I have exercised due diligence and professional judgement in conducting the audit;
- I have acted professionally, in an unbiased manner and did not allow undue influence to limit or over-ride objectivity in conducting the audit;
- I am not related to any owner or operator of the development as an employer, business partner, employee, sharing a common employer, having a contractual arrangement outside the audit, spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the audited development, including where there is a reasonable likelihood or expectation of financial gain or loss to me or to a person to whom I am closely related (i.e. immediate family);
- Neither I nor my employer have provided consultancy services for the audited development that were subject to this audit except as otherwise declared to the lead regulator prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from fair payment) from any owner or operator of the development, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

- a) The Independent Audit is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.
- b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).

Signature

Name of Lead / Principal Auditor	Heather McKay
Address	Level 4, 201 Leichhardt Street, Brisbane QLD 4000
Email Address	Heather.McKay@erm.com
Auditor Certification (if relevant)	N/A
Date	7 September 2020

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# **EXECUTIVE SUMMARY**

Environmental Resources Management Australia Pty Ltd (ERM) was commissioned to perform an Independent Environmental Audit (IEA) of the Tarrawonga Coal Mine ('TCM') on behalf of Whitehaven Coal Limited ('WHC'). The mine is located approximately 16 km east of Boggabri, New South Wales (NSW). The primary purpose of the audit was to satisfy the Department of Planning, Industry and Environment (DPIE) Ministers' Conditions of Approval (CoA) Project Approval number PA 11\_0047, which requires completion of an independent audit every three years from the date of the approval. The audit period assessed in this IEA is 1 August 2017 through 30 July 2020 (the date the site visit was completed as part of the audit).

The audit included a review of:

- DPIE, Ministers Conditions of Approval PA 11\_0047 (Modification 8) including Statements of Commitments;
- Mining Leases 1579, 1693, 1685 and 1749;
- Environment Protection Licence (EPL) 12365; and
- Implementation of Management Plans developed as part of the Ministers' Conditions of Approval.

Whitehaven Coal has established the control systems generally required for the stage of development i.e. operational. All staff interviewed demonstrated a high level of understanding of requirements and a commitment to the application of the requisite management systems and plans.

A qualitative risk assessment was also completed on the findings, consistent with AS/NZS 4360:2004 Risk management and HB 436:2004 Risk Management Guidelines Companion to AS/NZS 4360:2004 and as described in the Department of Planning & Environment publication "Post Approval Requirements – Independent Audit" issued May 2020. The number of non-conformances with the statutory conditions and implementation of the management plans is summarised in *Table E.1* below.

Review	Non-compliances (NC)	Observations (Obs NC)	Observations (Obs C)
Statutory Instruments	7 (+4 duplicate)	-	3 (+1 duplicate)
Implementation of Plans	-	-	-

# Table E.1 Summary of Audit Findings

An action table addressing all findings of the audit has been developed by Whitehaven Coal and will be issued separately to this report.

# 1. INTRODUCTION

Environmental Resources Management Australia Pty Ltd (ERM) was commissioned to perform an Independent Environmental Audit (IEA) of the Tarrawonga Coal Mine ('TCM'), on behalf of Whitehaven Coal Limited (herein referred to as 'WHC'). The mine is located approximately 16 km north east of Boggabri, New South Wales (NSW). The primary purpose of the audit was to satisfy the Department of Planning, Industry and Environment (DPIE)<sup>1</sup> Ministers' Conditions of Approval (CoA) Project Approval number PA 11\_0047 (Modification 8), which requires completion of an independent audit every three years from the date of the approval. The audit period assessed in this IEA is 1 August 2017 through to 30 July 2020 (the date the site visit was completed as part of the audit). The audit must:

- be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
- include consultation with the relevant agencies;
- assess the environmental performance of the project and assess whether it is complying with the relevant requirements of this approval and any relevant mining lease or EPL (including any strategy, plan or program required under these approvals);
- review the adequacy of strategies, plans or programs required under these approvals; and, if appropriate; and
- recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals.

The Proponent shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

## 1.1 Overview of Operations and Approvals

The Tarrawonga Coal Mine is open cut coal mine which was originally approved by the Minister for Planning under Project Approval PA 11\_0047 on 22 January 2013 to Tarrawonga Coal Pty Ltd (TCPL). PA 11\_0047 MOD 8 was approved in June 2020 with an expiry date of 31 December 2030.

The Tarrawonga Coal Mine lies within the mining leases (ML) 1579, 1685, 1693 and 1749. Tarrawonga is wholly owned by Whitehaven Coal Limited (WCL). The site holds Environmental Protection Licence (EPL) 12365, which was last varied on in January 2020.

#### 1.1.1 Description of primary processes undertaken during the audit period

Current activities at the site include the following:

- Construction;
- Exploration;
- Land Preparation;
- Mining Operations;
- Coal Processing and Transport;
- Maintenance Activities;
- Waste Management;
- Water Management; and
- Rehabilitation.

<sup>&</sup>lt;sup>1</sup> Formerly the Department of Planning and Environment (DP&E).

### 1.1.1.1 Construction and demolition

The following construction activities were conducted during the audit period:

 Construction of a new maintenance workshop and supporting infrastructure including fuel farm, oil and coolant storage and heavy vehicle wash bay.

No demolition was completed during the audit period.

### 1.1.1.2 Exploration

Exploration drilling was conducted during the audit period as required under the Mining Leases 1579, 1685, 1693, 1749 and for coal quality, geotechnical and/or hydrogeological evaluation purposes.

#### 1.1.1.3 Land preparation

During the audit period, clearing of vegetation was conducted to mining operations. Prior to the commencement of any clearing activities, flora and fauna pre-clearing surveys are conducted in accordance with the Biodiversity Management Plan. Once cleared, soil stripping and stockpiling is conducted in the cleared areas in order to facilitate required works. Clearing is conducted during the annual twelve week clearing window from February to April.

### 1.1.1.4 Mining operations

TCM is approved to extract 3M tonnes of ROM coal per annum. During the audit period coal extraction has not exceeded 2.75M tonnes.

- 2017 1.87 Mt
- 2018 2.75 Mt
- 2019 2.26 Mt
- 2020 YTD 2.357 Mt

Open cut mining activities, including processing of coal, generally occur between the hours of 6:30 am and 5:00 pm (day shift) and 4:30 pm and 3:00 am (night shift) from Monday to Friday.

#### 1.1.1.5 Coal processing and transport

ROM coal is transferred by road to Whitehaven's Coal Handling and Preparation Plant (CHPP) at Gunnedah. During the audit period TCM has transported a maximum of 2.54M tonnes to the CHPP (2017). TCM also transport coal by road directly to the market which accounted for a maximum of 105,907 tonnes in 2019.

	СНРР	<b>Direct distribution</b>
2017	2.54 Mt	69,252 t
2018	2.3 Mt	62,722 t
2019	2.24 Mt	105,907 t
2020	2.29 Mt	40,415 t

#### **Table 1.1 Coal Transport**

#### 1.1.1.6 Maintenance activities

Maintenance of plant and equipment occurs within the maintenance workshop which is utilised and managed by TCM maintenance staff and contractors. A new workshop has been constructed in 2020 which includes a new bunded fuel farm, bunded oil and coolant tanks and heavy vehicle wash bay

with oil water separator. All bulk tanks are fitted with high level alarm. Oils are piped from the tanks directly to the workshop via overland pipes.

#### 1.1.1.7 Waste management

Wastes generated at the Site include:

- General waste;
- Tyres;
- Batteries;
- Waste oil and filters;
- Hydraulic hoses;
- Coolant
- Scrap metal;
- Cardboard;
- Timber;
- Septic waste; and
- Paper, plastic, aluminium cans etc.

All wastes are collected by Namoi Waste for off-site disposal. Waste segregation was noted to be good during the audit.

Coal rejects received from the CHPP and waste overburden are disposed to the pit.

#### 1.1.1.8 Water management

Water management at TCM is undertaken in accordance with the approved Water Management Plan. The main components of water-related infrastructure include:

- sediment dams to capture sediment in sediment-laden runoff from emplacement areas;
- surface water drains to divert sediment-laden runoff from emplacement areas to sediment dams;
- surface water drains to divert runoff from undisturbed catchments around areas disturbed by mining; and
- a mine water system to store water pumped out of the mine pit area and to collect runoff from coal stockpile areas.

#### 1.1.1.9 Rehabilitation

Progressive rehabilitation activities have occurred during the audit period and generally comprise planting and maintenance of woodland areas.

# 1.2 Audit Objectives

The primary objectives of the audit included:

- assess the environmental performance of the project and assess whether it is complying with the requirements in the CoA and any relevant EPL or Mining Leases (including any assessment, plan or program required under these approvals);
- review the adequacy of any approved strategy, plan, or program required under the abovementioned consents/approvals; and
- recommend appropriate measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under the abovementioned approvals.

## 1.3 Audit Scope

The scope of works in order to complete the Audit includes the following:

- the audit to be carried out in accordance with DP&E's Guidelines for Independent Audits and AS/NZS ISO 19011:2018: Guidelines for auditing management systems;
- review of compliance against the documentation identified in CoA (as it relates to the current activities at the Tarrawonga Coal Mine ) which included;
  - document review of compliance against the CoA, statement of commitments, and any other relevant consents/approvals;
  - a site inspection to assess compliance against field implementation of the active CoA;
  - review of supporting plans developed as part of the CoA and assessment of their adequacy towards effective environmental performance;
- review of monitoring results and trends with comparison of monitoring results against regulatory limits and CoA limits (where applicable);
- confirmation if any additional monitoring required for identified trends;
- community complaints with review completed for any trends and identifying the source of an established trend;
- review of any regulatory actions including any letters, penalty notices and prosecutions;
- review of previous Independent Environment Report audit report to verify close-out of actions;
- consultation with the relevant agencies such as Department of Planning, Industry and Environment (DPIE) (various divisions: planning and post approvals, compliance, water, resources, biodiversity and conservation), Environment Protection Authority (EPA), Narrabri Shire Council (NSC) Gunnedah Shire Council (GSC) and Tarrawonga Coal Mine Community Consultative Committee (CCC);
- draft report with results of compliance assessment to be issued for comment to Whitehaven Coal; and
- final report issued for submission to the DPIE.

The audit covers the period 1 August 2017 to 30 July 2020 and is limited to assessing the activities completed during the audit period.

## 1.4 Audit Criteria

The audit covered the following specifications and standards, with a particular focus on activities associated with the current stages of operation. The documents relevant to this audit included:

Conditions of Approval PA 11\_0047 (Modification 8) including Statements of Commitments;

- Mining Leases 1579, 1693, 1685 and 1749;
- EPL 12365; and
- Implementation of approved Management Plans:
  - Noise Management Plan, dated December 2014
  - Air Quality and Greenhouse Gas Management Plan, dated January 2015
  - Aboriginal Heritage Conservation Strategy, dated September 2017
  - Biodiversity Management Plan, dated April 2015
  - Water Management Plan, dated March 2020
  - Mine Site Rehabilitation Plan, dated March 2020
  - Environmental Management Strategy, dated May 2018
  - Blast Management Plan, dated December 2014
  - Heritage Management Plan, dated January 2014
  - Traffic Management Plan, dated May 2016

#### **1.5** Limitations of this Report

This disclaimer, together with any limitations specified in the report, applies to this report and its use.

This report was prepared in accordance with the contracted scope of services for the specific purpose stated and subject to the applicable cost, time and other constraints. In preparing this report, ERM relied on:

- a. client/third party information which was not verified by ERM except to the extent required by the scope of services, and ERM do not accept responsibility for omissions or inaccuracies in the client/third party information; and
- b. information taken at or under the particular times and conditions specified, and ERM do not accept responsibility for any subsequent changes.

This report has been prepared solely for use by, and is confidential to, the client and ERM accepts no responsibility for its use by other persons. This report is subject to copyright protection and the copyright owner reserves its rights. This report does not constitute legal or financial advice.

# 2. AUDIT METHODOLOGY

### 2.1 Methodology and Process

The audit comprised a site inspection during the dates 29 to 30 July 2020, interviews with key personnel, and review of records and other related documentation.

The audit process included the following primary components:

- development of a Terms of Reference developed which included:
  - audit scope and objectives
  - date and location of audit
  - members of audit team
  - list of people to be audited
  - list of reference documents and audit criteria
- a project inception meeting was held on 10 July 2020 to confirm details of the Terms of Reference, site inspection logistics and request for documentation required prior to the site inspection component of the audit;
- an opening meeting was held on 29 July 2020 at site to confirm the audit objectives and scope for the site inspection. Attendees included:
  - Heather McKay (ERM Lead Auditor)
  - Brigitte Healey (ERM Support Auditor)
  - Sebastien Moreno (Site Environment Superintendent)
  - Lynden Cini (Group Superintendent Environment)
  - Tony Dwyer (Group Manager Environment and Approvals)
  - Tian Oosthuizen (Engineering Manager)
  - Madeleine Wright (Environment Graduate)
  - Troy Brinkley (Workshop Supervisor)
- Site inspections were undertaken between 29 and 30 July 2020;
- A debrief / closeout meeting was held at the site on 30 July 2020 to discuss initial findings and recommendations. Attendees were:
  - Heather McKay (ERM Lead Auditor)
  - Brigitte Healey (ERM Support Auditor)
  - Sebastien Moreno (Site Environment Superintendent)
  - Lynden Cini (Group Superintendent Environment)
  - Tian Oosthuizen (Engineering Manager)
  - John Hamson (Operations Manager)
- Preparation of the draft audit report (this report).

## 2.2 Agency and Community Consultation

ERM consulted with the agencies and stakeholders as required including Department of Planning, Industry and Environment (DPIE) (including its various departments such as Compliance, Post approvals, Resources Regulator and Biodiversity and Conservation Division), CCC, New South Wales Environment Protection Authority (NSW EPA), as well as Gunnedah and Narrabri Councils. Emails were issued on 13 July 2020, with a follow up email submitted on 27 July 2020 to those that had not yet replied. Responses are outlined in *Table 2.1*.

Table 2.1 Agency and Stakeholder	Consultation Summary
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Agency/Stakeholder	Method	Consultation summary	Response	Location Addressed in Report
Department of Planning, Industry and Environment (DPIE) – Compliance	Email on 13 July 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	<ul> <li>Site water management and implementation of the water management plan; and</li> <li>Implementation of the air quality and greenhouse gas management plan.</li> </ul>	Refer to Sch. 3 C 39 of CoA Refer to Sch. 3 C 29 of CoA
Department of Planning, Industry and Environment (DPIE) – Resource Regulator	Email on 13 July 2020 and follow up on 27 July 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	<ul> <li>Referred to regulatory actions from a number of Government Agencies (no further detail)</li> </ul>	Refer to CoA
Natural Resource Access Regulator (Water)	Email on 13 July 2020 and follow up on 27 July 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	No response received	N/A
New South Wales Environment Protection Authority (NSW EPA)	Email on 13 July 2020 and follow up on 27 July 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	No response received	N/A
Narrabri Shire Council	Email on 13 July 2020 and follow up on 27 July 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	No response received.	N/A
Gunnedah shire Council	Email on 13 July 2020 and follow up on 27 July 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	The Council raised no areas of concern.	N/A
Community Consultation Committee (CCC)	Email on 13 July 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	The CCC requested consideration of bushfire management in the context of rehabilitation.	Sch. 3 C 59 of CoA

In each case, an email was sent to representatives of each agency requesting feedback on those issues considered most relevant by their Department at the time of the audit. The consultation outlining the terms of reference was provided prior to the site inspection to obtain feedback and draw attention to any key issues, within the agreed scope of the audit. The Departmental correspondence is provided in Appendix B.

Responses received required the audit to focus on compliance against CoA as well as environmental monitoring relating to air quality, water management and bushfire management. These areas are captured in the audit findings.

## 2.3 Classification of Audit Findings

Findings resulting from an assessment of audit evidence were divided into six categories as follows:

- **Compliant (C)**: the intent and all elements of the audit criteria requirements have been complied with within the scope of the audit.
- Non-compliant (NC): Failure to meet the audit requirements, failure to achieve the field performance outcomes identified in documentation, or ineffective environmental management of the activity.
- Not Triggered (NT): A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, and therefore a determination of compliance could not be made.
- Note: A statement or fact, where no assessment of compliance is required.
- **Obs:** Observations are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance.

A qualitative risk assessment was also completed on the findings, consistent with AS/NZS 4360:2004 Risk management and HB 436:2004 Risk Management Guidelines Companion to AS/NZS 4360:2004 and as described in the DPIE publication "Post Approval Requirements – Independent Audit" issued May 2020.

The overall level of risk was estimated by combining the likelihood of harm occurring with the estimated level of harm associated with each finding. Risk levels have been assigned as follows:

- High: Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence;
- Medium: Non-compliance with:
  - potential for serious environmental consequences, but is unlikely to occur; or
  - potential for moderate environmental consequences, but is likely to occur;
- Low: Non-compliance with:
  - potential for moderate environmental consequences, but is unlikely to occur; or
  - potential for low environmental consequences, but is likely to occur.

### 3.1 **Previous Audit Follow Up**

The last audit was conducted by ERM for the period 1 August 2014 to 31 July 2017. A summary of the 2017 audit findings and their status is summarised below in *Table 3.1*.

	Table 3.1 Summary of 2017 Audit Findings				
Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action	
Minister's	Conditions of Approval PA 11_0047 (Mod 8)				
2.14	<ul> <li>By the end of December 2013, or as otherwise agreed by the Secretary, the Proponent shall surrender the existing development consent (DA-88-4-2005) for the Tarrawonga Coal Mine in accordance with Section 104A of the EP&amp;A Act.</li> <li>Prior to the surrender of this development consent, the conditions of this approval shall prevail to the extent of any inconsistency with the conditions of the development consent.</li> </ul>	Auditor reviewed letter from Department of Planning and Environment confirming voluntary surrender of DA-88-4-2005. DA surrendered during the reporting period but not by December 2013. No further action required.	ANC	Action complete	
2.21	<ul> <li>By the end of March 2013, unless otherwise agreed by the Secretary, the Proponent shall enter into a planning agreement with Council in accordance with:</li> <li>(a) Division 6 of Part 4 of the EP&amp;A Act; and</li> <li>(b) the terms of the Proponent's offer provided in Appendix 3.</li> </ul>	Voluntary Planning Agreement between TPCL and Narrabri Shire Council dated 26 October 2016. Given the date of the agreement, the condition is considered an administrative non- compliance. No further action required.	ANC	Action complete	
3.8	The Proponent, together with the owners of the Rocglen and Vickery coal mines, shall ensure that the noise generated on public roads by the Project and the other mines, does not exceed the criteria in Table 4 at any existing residence on privately-owned land. However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.	No agreements are held with landowners adjacent to haul route. No coal haulage at night. Noise monitoring reports reviewed demonstrated no exceedence of criteria. Three monitoring locations (2 properties) – 2 residences on Brooklyn and Werona Report states that for practical reasons it is not possible to undertake monitoring for 15 hours. The approach here is to monitor noise over a representative one hour period and utilise the results of this to theoretically predict noise over the compliance period.	ANC	TCM to raise practicality of meeting condition with DP&E Timing: 31/12/2017	
3.9	<ul> <li>The Proponent shall:</li> <li>(a) ensure that: <ul> <li>all trucks, dozers, drills and excavators purchased for used on the site after the date of this approval are commissioned as noise suppressed (or attenuated) units;</li> <li>improvements are made to existing noise suppression equipment as improved technology becomes available where reasonable and feasible; and</li> </ul> </li> <li>(b) monitor and report on the implementation of these</li> </ul>	<ul> <li>(a) During the reporting period sound power level testing identified that three excavators and a drill had results greater than projected.</li> <li>(b) AEMR – authorisation date 28/2/2017 – demonstrates annual sound power level testing.</li> </ul>	NC	SPL modification approved by the Department. No action required.	

# Table 3.1 Summary of 2017 Audit Findings

requirements annually on its website.

AUDIT FINDINGS

#### 2020 Status

Deemed as **Not Triggered** during this audit.

Deemed as **Not Triggered** during this audit.

Deemed as **Non-complaint** during this audit due to non-completion of the monitoring for the 2017 calendar year.

This condition has been replaced.

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action	20
3.11	<ul> <li>The Proponent shall:</li> <li>(a) implement best management practice to minimise all operational, low frequency, road and rail traffic noise levels associated with the project;</li> <li>(b) operate a comprehensive on-site noise management system that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this approval;</li> <li>(c) maintain the effectiveness of noise suppression equipment on plant at all times and ensure defective plant is not operationally used until fully repaired;</li> <li>(d) ensure that noise attenuated plant is deployed preferentially in locations near to sensitive receivers;</li> <li>(e) minimise the noise impacts of the project during meteorological conditions under which the noise limits in this approval do not apply (see condition 13);</li> <li>(f) ensure that project related trains on the Boggabri spur line only use locomotives that are approved to operate on the NSW rail network in accordance with the noise limits in ARTC's EPL (No. 3142);</li> <li>(g) use its best endeavours to ensure that project- related rolling stock supplied by service providers on the Boggabri rail spur line is designed, constructed and maintained to minimise noise; and</li> <li>(h) co-ordinate the noise management on site with the noise management at other mines within the Leard Forest Mining Precinct, to minimise the cumulative noise impacts of these mines, to the satisfaction of the Secretary.</li> </ul>	<ul> <li>The Noise Management Plan was approved by the Department 20 Jan 2015. NMP developed to address the operational aspects detailed. It is noted that the NMP did not have the Leard Forest Mining Precinct Noise Management Strategy included.</li> <li>(a) all roads are sealed that are used as haul roads by the mine, monitoring of road traffic noise is undertaken, though is undertaken at one hour intervals and extrapolated rather than for an entire 15 hour period as required by the condition;</li> <li>(b) meeting minutes observed with reference to noise conditions and compliance. Real time noise monitoring records were observed, which displayed wind speed data. Proactive and reactive noise mitigation measures were observed on a site toolbox talk discussion board.</li> <li>(c) there were exceedences noted in the report above – the report outlines a drill that was taken out of service due to SPL exceedences. Also outlines proposed works for 2xTerex RH170 excavators and Hitachi 1900 Excavator Exc 530 Timing Letter_28020217 – demonstrates attenuation modifications.</li> <li>Environment Officer indicated in interview that some plant continues to operate event though an exceedence of sound power level has been recorded. The justification given was that it is reasonable and feasible for plant to still to operate based on the evidence that exceedences of criteria at sensitive receiver monitoring locations has occurred only once in the reporting period.</li> <li>The commitment states that 'defective plant is not used until fully repaired'. Hence this is considered an ANC.</li> <li>(a) only attenuated plant are excavators, so no preferential requirement. No trucks within the fleet are noise attenuated.</li> <li>(b) Rail spur is not triggered because road is only method of transportation.</li> <li>(c) The NMP states that the Leard Forest Mining Precinct Noise Management Strategy has been developed and is awaiting approval from the DP&amp;E. No evidence was sited that approval has been received, hence this is an Administrativ</li></ul>	ANC	<ul> <li>A. TCM to raise practicality of meeting condition with DP&amp;E</li> <li>B. Timing: 31/12/2017</li> <li>C. No action required</li> <li>D. SPL Modification approved by the Department</li> <li>E. No action required</li> <li>G. No action required</li> <li>H. NMS approved by the Department.</li> </ul>	

#### 2020 Status

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action
3.30	<ul> <li>For the life of the project, the Proponent shall ensure that there is a meteorological station in the vicinity of the site that:</li> <li>(a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and</li> <li>(b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Industrial Noise Policy, unless a suitable alternative is approved by the Secretary following consultation with the EPA.</li> </ul>	The weather station is capable of continuous monitoring but has intermittent periods where continuous recording is not achieved due to signal drop out, as such this is considered an ANC. Calibration reports for the weather station were provided and reviewed.	ANC	No action required
3.35	<ul> <li>The Proponent shall prepare and implement a Goonbri Creek Diversion and Flood Bund Concept Design Plan, to the satisfaction of the Secretary. The plan must:</li> <li>(a) be prepared in consultation with DPI, OEH and the LLS;</li> <li>(b) be submitted to the Secretary for approval by December 2016;</li> <li>(c) set out the vision statement for the creek diversion;</li> <li>(d) assess the surface water and groundwater quality, ecology, hydrological (including flooding) and geomorphic baseline conditions within the creek;</li> <li>(e) set out the construction program for the creek diversion and LPB, describing how the work would be staged, and integrated with mining operations;</li> <li>(f) describe the revegetation program for the creek diversion and the use of a range of suitable native species;</li> <li>(g) establish the water quality, ecology, hydrological (including flooding) and geomorphic performance and completion criteria for the creek diversion and LPB based on the assessment of baseline conditions; and</li> <li>(h) be revised in consultation with DPI, OEH and the LLS, and resubmitted for approval by the Secretary in response to the findings of the detailed technical design required in condition 36 and the Monitoring and Management Plan in condition 38.</li> </ul>	Auditor reviewed a response to DP&E regarding Goonbri Creek Diversion Design Plan. The letter states that correspondence was not received by December 2016.	ANC	No action required

#### 2020 Status

Deemed a **Compliant** during this audit.

Deemed as **Not Triggered** during this audit.

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action	1
3.40	The Proponent shall implement the biodiversity offset strategy described in the EA, summarized in Table 14 and shown conceptually in Appendix 7, to the satisfaction of the Secretary	Recommendation Although not yet non-complaint, significant actions will be required to achieve the end landuse of open woodland (and specifically BGW EEC) in rehabilitation areas nominated as woodland (in the southern and northern emplacements). Maintain a clearer schedule and plans of native species planting actions (sourcing, planting, proposed works). The Annual Review reporting does not report clearly (nor contain enough detail) on native woodland rehabilitation actions, for example through the past three years some actions claimed to be deferred to the next year are not reported on in that next year. Further, when cross-checked with the native species supplier correspondence there are clearly actions being undertaken which are not being reported upon.	C	Revegetation schedule is coordinated, and recorded, year on year by WHC Group and reflects rehabilitation progression noted in MOP. The format of future Annual Reviews will be revised to include greater detail on revegetation activities undertaken. March 2018 – Annual Review	[
3.41	The Proponent shall contribute to the funding and preparation of the Leard Forest Mining Precinct Regional Biodiversity Strategy, as required under the approvals for the Boggabri coal mine and Maules Creek coal mine, to the satisfaction of the Secretary.	<ul> <li>Group Superintendent - Environment</li> <li>(Compliance), Site Environment Officer and</li> <li>Specialist-Offsets interview stated that the</li> <li>responsibility for the LFMPRBS was taken over by</li> <li>the DP&amp;E, although no evidence of the removal of</li> <li>Whitehaven's responsibility to contribute to the</li> <li>preparation of the plan is available.</li> <li>A spreadsheet reviewed by the auditor identified</li> <li>the breakdown of relative financial responsibility</li> <li>for some plans between the three projects,</li> <li>however it contains no dollar values for the</li> <li>LFMPRBS.</li> <li>ERM considers a non-compliance on the basis of:</li> <li>No evidence of reports meeting each of the</li> <li>timings for Stages 1, 2 &amp; 3.</li> <li>No evidence of Whitehaven financial</li> <li>contribution to the strategy.</li> <li>No evidence of Whitehaven contribution to the</li> <li>preparation of the LFMPRBS (or in the case that</li> <li>the DP&amp;E took this over, evidence of that</li> <li>agreement).</li> </ul>	ANC	RBS approved. TCM to confirm with DP&E that intent of condition has been met. Timing 31/12/2017	N S a
3.49	<ul> <li>By the end of May 2013, the Proponent shall lodge a Conservation and Biodiversity Bond with the Department to ensure that the biodiversity offset strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan. The sum of the bond shall be determined by:</li> <li>(a) calculating the full cost of implementing the biodiversity offset strategy (other than land acquisition costs); and</li> </ul>	Predates this audit period. The previous IEA (SMEC 2014) stated against this condition: "Biodiversity Management Plan not approved, not able to calculate bond amount, not compliant with deadline stated" and adjudged as "Not Compliant Administrative". No evidence of a conservation bond exists which appears to have been required by May 2013 (or if not, then following the BMP preparation (ELA April 2015).	ANC	Agreement between DP&E and TCM in place. Bond to be calculated following approval of BMP. Timing: TBA.	

#### 2020 Status

Deemed as Compliant during this audit.

No longer applicable due to the Biodiversity Offset Strategy prepared by the Department of Planning and Environment.

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action
	<ul> <li>(b) employing a suitably qualified quantity surveyor to verify the calculated costs, to the satisfaction of the Secretary.</li> </ul>			
	If the offset strategy is completed generally in			
	accordance with the completion criteria in the			
	Biodiversity Management Plan to the satisfaction of the			
	Secretary, the Secretary will release the bond.			
	If the offset strategy is not completed generally in accordance with the completion criteria in the			
	Biodiversity Management Plan, the Secretary will call in			
	all, or part of, the conservation bond, and arrange for			
	the satisfactory completion of the relevant works.			
	With the agreement of the Secretary, this bond may be			
	combined with rehabilitation security deposit			
	administered by DRE.			
3.51	The Proponent shall prepare and implement an	An Aboriginal Heritage Conservation Strategy	ANC	No action required
	Aboriginal Heritage Conservation Strategy for the	(AHCS) has been prepared in consultation with		
	project and the Biodiversity Offset Strategy areas to the	OEH and submitted to the Secretary, within an		
	satisfaction of the Secretary. This Strategy must	approved extension period. However the Strategy		
	enhance and conserve the Aboriginal cultural heritage values (both cultural and archaeological) and provide for	is yet to be approved by the Secretary and is awaiting approval.		
	their long-term protection and management. The			
	Strategy must:			
	(a) be prepared by suitably qualified and experienced			
	person/s whose appointment has been endorsed by the Secretary;			
	(b) be prepared in consultation with OEH, the local			
	Aboriginal community and other mines within the			
	Leard Forest Mining Precinct, and submitted to the			
	Secretary for approval within 12 months from the			
	date of project approval;			
	<ul> <li>(c) identify the Aboriginal cultural heritage values of the Biodiversity Offset Strategy areas;</li> </ul>			
	(d) identify areas of high Aboriginal cultural heritage			
	significance within both the site and the Leard			
	Forest Mining Precinct;			
	(e) identify a range of options for enhancing and			
	conserving Aboriginal cultural heritage values, with			
	specific consideration of the potential for the long-			
	term protection and management of significant sites			
	within either the site, the Biodiversity Offset			
	Strategy areas or other lands within the Leard			
	Forest Mining Precinct identified as having high			
	cultural heritage significance to the Aboriginal community; and			
	-			
	<ul> <li>(f) consider cumulative impacts and potential for developing joint initiatives with other mines within</li> </ul>			
	the Leard Forest Mining Precinct for enhancing and			
	conserving Aboriginal cultural heritage values.			

#### 2020 Status

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action
8.61	The Proponent shall rehabilitate the site to the satisfaction of DRE. This rehabilitation must be generally consistent with the proposed Rehabilitation Strategy described in the EA (and depicted conceptually in Appendix 8) and comply with the objectives in Table 15.	<ul> <li>Field inspection observed rehabilitation on the northern and southern emplacements. Refer MCoA 50 and Section 8.2 for appraisal.</li> <li>The MOP (2015-2020) (SLR 2016) details the procedure to meet these conditions, (specifically sections 5 and 6) and plans showing the annual progress of site land areas during the MOP (Plan 3), trending towards the final land use (Plan 4). It identifies Domains including the final void, surface infrastructure, agricultural land and remaining land and sets out the actions to meet the condition's requirements. No agricultural land will be established during this MOP term (MOP section 7, Table 21) therefore trajectory towards the 210ha of agricultural land is not assessable. MOP section 7, Table 20 states that during the term of the MOP 78.93ha of woodland areas will be rehabilitated.</li> <li>The MOP section 7, Table 20 shows cumulative rehabilitation will be at 64.9ha at end of calendar year 2016). The AR (2016) states that active rehabilitation area is 59ha and area being prepared for rehabilitation is 9.9ha (totalling 68.9ha). Those numbers for 2017 are 70.76ha (MOP Table 20) and 68.9ha active rehabilitation and 5.8 in preparation for rehabilitation (totalling 74.7ha).</li> <li>Goonbri Creek diversion requirements are not triggered.</li> <li>Notable site observations regarding features:</li> <li>Mine site (as a whole) - rehabilitated areas appear to be of slope angles to manage erosion.</li> <li>Drainage structures observed on northern and southern emplacements to direct water off the rehabilitated slopes.</li> <li>Final void - objectives not triggered.</li> <li>Agricultural land - no areas have been rehabilitated yet (nor are required by the MOP), therefore not triggered.</li> <li>Woodland areas - refer field inspection comment above.</li> <li>Community - Site Environment Officer stated that public safety is managed by maintaining a secure site. Assessing performance to manage adverse socio-economic consequences is not triggered as planned closure is outside the sco</li></ul>	Obs	MCoA 50 noted as C. Progression of rehabilitation as per MOP noted.

#### 2020 Status

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action
3.64(h)	The Proponent shall prepare and implement a Rehabilitation Management Plan to the satisfaction of DRE. This plan must: (h) include a program to monitor, independently audit and report on the effectiveness of the rehabilitation measures, and progress against the detailed performance and completion criteria;	Recommendation In summary, the auditor recommended more thorough implementation and recording of MOP requirements.	ANC	2017 MOP will be revised to more clearly describe implementation, monitoring and auditing of rehabilitation. 31st December 2017
5.2	<ul> <li>The Proponent must assess and manage project-related risks to ensure that there are no exceedences of the criteria and/or performance measures in schedule 3. Any exceedence of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&amp;A Act or EP&amp;A Regulation.</li> <li>Where any exceedence of these criteria and/or performance measures has occurred, the Proponent must at the earliest opportunity:</li> <li>(a) take all reasonable and feasible steps to ensure that the exceedence ceases and does not reoccur;</li> <li>(b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other courses of action; and</li> <li>(c) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.</li> </ul>	These documents demonstrated a non- compliance with regards to plant sound power levels and avoiding the requirement to stop using the equipment, on the basis that attended noise monitoring at residences has identified no noise exceedences since March 2015. TCPL are attempting to manage this by removing the criteria to cease using SPL exceeding material at the site. No evidence that this has been accepted to the satisfaction of the Secretary.	ANC	SPL modification has been approved. No action required.
Statement	of Commitments			
1.2.30	The Project final landform and revegetation program will provide for a combination of approximately 752 ha of native woodland/forest and some 210 ha of Class 3 agricultural suitability land.	MOP (2015-2020) (SLR 2016) sets out rehabilitation actions to achieve commitment (specifically sections 5-7, with monitoring in section 8), and plans showing annual progress through the years of the MOP (Plan 3) and final land use (Plan 4). Annual review reports rehabilitation progress for 2016 (which is largely in accordance with the MOP with a reported greater area of actual rehabilitation vs predicted). No verification of the areas contained in the final landform areas is available. MOP and Annual Reports should include table showing progress towards final landform areas.	Obs	2017 MOP and Annual Review will include a table showing progress towards final landform areas. 31st December 2017 – MOP March 2018 – Annual Review
1.2.31	The agricultural land will be capable of being used for pasture production for grazing and occasional cropping. Revegetation of woodland/forest areas will include the planting of species characteristic of the local vegetation communities, including species from the Box-Gum Woodland endangered ecological community.	MOP (2015-2020) (SLR 2016) Plan 4 shows post mining land use containing agricultural land, and section 5.2, Table 10 includes commitment for rehabilitation to agricultural land to that class. MOP (2015-2020) (SLR 2016) identifies no rehabilitation to agricultural land is planned during this MOP period (Plan 3).	Obs	Revegetation, including maintenance revegetation, of rehabilitated areas will be undertaken in accordance the MOP to achieve target vegetative communities. Ongoing

2020 Status

Deemed as Compliant during this audit.

Deemed as **Compliant** during this audit.

Deemed as **Compliant** during this audit.

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action
		Field inspection identified tree species characteristic of the BGW EEC. Youngest rehabilitation (the farthest north) contains tree and shrub species of the BGW EEC although the ground layer germination appears of questionable species composition when compared with the BGW EEC list. Older rehabilitation areas will require species augmentation to enhance values to be more closely aligned to the BGW EEC (from the very poor quality southern emplacement slopes which will require significant rehabilitation rework to the western slope of the northern emplacement which has tree species however will require infill plantings or seed spreading). Rehabilitation areas are not currently non- compliant however work will be required to maintain integrity of germinating areas (the		
		youngest) and enhance the native species diversity and value in the older areas		
1.2.33	A Rehabilitation Management Plan will be developed and implemented for the Project, including a rehabilitation monitoring program designed to track the progress of rehabilitation and revegetation.	The auditor understands there is not RMP for the project. Site Environmental Officer in site interview stated that the BMP (ELA April 2015) and the MOP (2015-2020) (SLR 2016) together form the RMP. Those documents together include the relevant detail as cross referenced below. MOP (2015-2020) (SLR 2016) details rehabilitation monitoring (section 8). BMP (ELA April 2015) details rehabilitation monitoring requirements for flora and fauna (including monitoring weeds and feral species). Implementation of the measures identified in (e), (f) and (g) is not well demonstrated through records. Evidence that woodland rehabilitation monitoring is occurring is available through annual spring monitoring (ELA 25 May 2016 and ELA 29 May 2017), although in itself it is not fully implementing MOP Section 8.1.3 with no monitoring occurring in the regenerating native vegetation in the north east corner of ML1579. No evidence available of implementation of parameters stated in section 5 of the BMP (ELA April 2015) including: weeds, feral animal monitoring and nest box monitoring. The MOP (2015-2020) (SLR 2016) section 3.2.4 states that vertebrate pests will be monitored on an as needs basis (not seasonal) and this appears to be done in an ad hoc manner. That section states weeds will be monitored monthly in areas including rehabilitation areas. No evidence exists of this occurring.	Obs	The approved MOP meets the requirements of an RMP. Monitoring requirements will be summarised in the 2017 MOP. 31st December 2017

#### 2020 Status

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action	:
		TCPL to develop a clear, one-page annual monitoring schedule that integrates all requirements from all plans to make it clear what needs to be monitored and when. Evidence of regular monitoring of rehabilitation ecological risks and performance is piecemeal or absent (beyond only the woodland rehabilitation monitoring undertaken annually in spring).			
EPL 1263	5				
L4.4	<ul> <li>Determining Compliance</li> <li>To determine compliance: <ul> <li>(a) with the Leq(15 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located: <ul> <li>approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or</li> <li>within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable</li> <li>within approximately 50 metres of the boundary of a National Park or a Nature Reserve.</li> </ul> </li> <li>(b) with the LA1(1 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located within 1 metre of a dwelling façade.</li> <li>(c) with the noise limits in the Noise Limits table, the noise measurement equipment must be located: <ul> <li>at the most affected point at a location where there is no dwelling at the location; or</li> <li>at the most affected point within an area at a location prescribed by part (a) or part (b) of this</li> </ul> </li> </ul></li></ul>	Monitoring locations are stated in the NMP and in quarterly monitoring report. Site inspection demonstrated where noise monitoring is undertaken. The location of monitoring at Barbers Lagoon is on the property boundary however the residence is approximately 200m from the monitoring location. Hence this is considered a non-compliance.	NC	Modification to the EPL in draft to be submitted to EPA to amend condition. Timing: 30 November 2017 TCM contest the weighting of NC; monitoring occurs at a location closer to the operation and due to distance from noise source the variability is immaterial. ANC considered appropriate.	
O1.1	condition. Licensed activities must be carried out in a competent manner. This includes: (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Emplacement, topsoil and timber reuse observed. Training matrix documents training needs for all employees. TCPL has well developed waste management strategies for all liquid and solid wastes. The identified non-compliances recorded against EPL limits as discussed against other relevant conditions is not considered reflective of a lack of competence or effort with regard to environmental management. The auditor observed an area for improvement in relation to housekeeping and storage of chemicals and hydrocarbons at the maintenance yard and	Obs	TCPL to undertake a review of housekeeping and storage of chemicals and hydrocarbons at the maintenance yard and laydown; and rectify current management as required. 31st December 2017	[

#### 2020 Status

Deemed as Non-compliant during this audit.

Item No	Assessment Requirement				Comment	2017 Audit Classification	NCO Response/Action
					laydown. One example included compatibility of stored Class 2 and Class 3 chemicals in same cabinet in Boiler Workshop. It is recommended that all chemicals are stored and appropriately segregated in cabinets.		
O4.2	The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The PIRMP must document systems and procedures to deal with all types of incidents (e.g. spills, explosions, fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment.				PIRMP updated annually however online PIRMP dated August 2015. Update the website with up to date PIRMP.	Obs	Completed; website updated.
M2.2	Air Monitorin Point 28	ig Requirement	1	1	Technical non-compliance as continuous monitoring not able to be achieved due to periodic connection failure and maintenance.	NC	No action required. TCM contest NC weighting based administrative nature of
	Pollutant	Unit of measure	Frequency	Sampling method	Does not require notification of NC as impact		NC; ANC considered appropriate.
	PM10	Micrograms per cubic metre	Continuous	AM-22	negligible.		
M3.1	<ul> <li>Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:</li> <li>(a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or</li> <li>(b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or</li> <li>(c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking</li> </ul>			or under the oncentration or under ndition of at testing; or under the ny he EPA for the	Real time air quality monitor does not meet AM-22 as required by EPL. Note: Dual monitoring system measures two different particulates; one result is calculated rather than measured which does not meet AM-22.	NC	Approach accepted by EPA across the industry. No action required. TCM contest NC weighting based administrative nature of NC; ANC considered appropriate.
M4.1	place. For each monitoring point specified in the table below the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns. Point W1			nd obtaining ied in Column ethod, units of the	The requirement for continuous monitoring is not met due to temporary outages as a result of technical issues such as internet drop out or temporary instrument failure Maintenance of accuracy and proper functioning of the monitor was demonstrated by the calibration report provided for weather station.	NC	No action required TCM contest NC weighting based administrative nature of NC; ANC considered appropriate.

2020 Status

Deemed as **Compliant** during this audit.

Deemed as **Compliant** during this audit.

Deemed as Compliant during this audit.

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action
M7.1	For each monitoring point specified below, the Licensee must monitor the noise or vibration parameter specified in Column 1. The Licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns. Point TN2, TN3, TN4	Auditor review identified that LAeq (15 minute) is all that is displayed in reports prior to quarter four 2016. All other units of measurement were not provided prior to quarter 4 2016 and hence these reports are considered non-compliant. Since quarter four 2016 this oversight has been rectified and all units of measurement are displayed.	NC	As noted; report structure has been amended to report accordingly. No action required. TCM contest NC weighting based administrative nature of NC; ANC considered appropriate.
M7.4	For the purpose of conditions M7.1, M7.2 and M7.3 the monitoring locations are described as:	The auditor observed the noise monitoring locations in the field. Monitoring locations are stated in the NMP and in quarterly monitoring report. Site inspection demonstrated where noise monitoring is undertaken. The location of monitoring at Barbers Lagoon is on the property boundary however the residence is approximately 200m from the monitoring location. Hence this is considered a non-compliance. New EPL includes TB1.	NC	Modification to the EPL in draft to be submitted to EPA to amend condition. Current monitoring occurs at a location closer to noise source. Timing: 30 November 2017
Mining Lea	se 1579			
2.1 (b)	The Mining Operations Plan together with environmental conditions of development consent and other approvals will form ongoing monitoring of the project.	Implementation of monitoring as required in the MOP is not well demonstrated through records. Evidence that woodland rehabilitation monitoring is occurring is available through annual spring monitoring (ELA 25 May 2016 and ELA 29 May 2017), although in itself is not fully implementing MOP section 8.1.3 with no monitoring occurring in the regenerating native vegetation in the north east corner of ML1579. The MOP (2015-2020) (SLR 2016) section 3.2.4 states that vertebrate pests will be monitored on an as needs basis however this was not verified during the audit. That section states weeds will be monitored monthly in areas including rehabilitation areas (monthly inspection checklists were sighted containing a question regarding weeds in rehabilitation areas).	NV	Vertebrate Pest Monitoring Reports available to demonstrate compliance.
2.4a	The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify:- area(s) proposed to the disturbed under the Plan;	MOP (2015-2020) (SLR 2016) details rehabilitation planning (section 5), implementation (section 7) and MOP Plans 3(a-f) (annual timeslices) and 4 (post-mining landuse). Section 2.3.10 contains a table showing the material production schedule for six years. Plans are only for 5 years and material production schedule is only for 6 years, as such this is considered to be an ANC.	ANC	Amend MOP Timing: 31 December 2017
2.4e	The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify:- existing flora and fauna on site	BMP (ELA April 2015) describes and demonstrates the flora and fauna on the site (especially shown in Figures 3.1, 3.2 and 3.3). Not contained in MOP.	ANC	Amend MOP Timing: 31 December 2017

2020 Status

Deemed as **Compliant** during this audit.

Deemed as **Complaint** during this audit. Updated plans identifying existing flora and fauna have been included in MOP Revision F (Plans 4B, C and D).

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action
2.4g	The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify:- areas of particular environmental, ecological and cultural sensitivity and measures to protect these areas	BMP (ELA April 2015) describes and demonstrates the flora and fauna on the site (especially shown in Figures 3.1, 3.2 and 3.3). Not contained in MOP.	ANC	Amend MOP Timing: 31 December 2017
11b	Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120dB (linear) and does not exceed 115dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment and Conservation.	A number of exceedences of blast overpressure on project related land – (January 2015 was the item observed by auditor). These have previously been reported to the EPA but no longer reported as they are on project land. Review of records available for property purchased and blasting records demonstrated no exceedences prior to the properties being purchased by TCPL. The AEMR of the 2015/2016 reporting period outlined that a blast on 19 August 2016 generated a Blast overpressure greater than the 120dB limit and exceeded limit of 5% of blasting above 115dB over a period of 12 months.	NC	Historical Non-compliance; no action required. TCM contest NC weighting; based on instances occurring on project related land. Low considered appropriate.
15.1	At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Natural Resources regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes.	It could not be demonstrated that the notification occurred 28 days prior to the commencement of drilling operations. Email demonstrated that the notification had taken place (but could not be determined if 28 days prior to drilling commencement.	ANC	The last exploration drilling within ML1579 commenced on 19 September 2014 and was included in a notification to NSW Office of Water 10 March 2014
15.2d	If the lease holder drills exploratory drill holes he must satisfy the Director-General that:- if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape	Auditor review of the 2016 Exploration report states that 'Selected seams were tested for gas desorption and composition' – but clear evidence of noxious gas testing could not be identified. If not currently being undertaken, noxious gas testing needs to be conducted and clearly stated in report	NC	It is not a requirement of Exploration reporting to report against specific conditions of the authority No drilling included in 2016 Exploration report was completed within ML1579 There have been no reports of any drill hole meeting natural or noxious gas for the reporting periods 2015–2017 Selected seams form one drill hole (TA156C) were tested for gas content with no Hydrogen Sulfide (H2S) detected
15.2e	If the lease holder drills exploratory drill holes he must satisfy the Director-General that:- if any drill hole meets an artesian or sub artesian flow it is effectively sealed to prevent contamination of aquifers	Auditor review of the exploration reports could not identify discussion of interaction with artesian flow.	ANC	It is not a requirement of Exploration reporting to report against specific conditions of the authority There have been no reports of any drill hole artesian or sub artesian flow for the reporting periods 2015–2017 All drill holes completed outside the mine pre-strip area were cemented to surface; other drill holes were mined out within six months of completion
15.2g	If the lease holder drills exploratory drill holes he must satisfy the Director-General that:- once any drill hole ceases to the used the land and its immediate vicinity is left clean, tidy and stable condition.	Auditor review of the exploration report could not identify a clear statement on the final condition of the drill hole (tidiness or cleanliness) other than the fact that the holes were grouted. Provide indication of final condition of drill hole on completion to address this condition.	ANC	It is not a requirement of Exploration reporting to report against specific conditions of the authority All drill hole completed outside the mine pre-strip area were cemented to surface, and the sites rehabilitated; other drill holes were mined out within six months of completion Drill sites of at least 9 of the 19 drill holes completed in ML1579 for the reporting periods 2015–2017 have been mined out by the advancing open cut

#### 2020 Status

Deemed as Compliant during this audit. Updated plans identifying areas of environmental, ecological or cultural sensitivity have been included in MOP Revision F (Plans 4B, C and D).

Deemed a **Complaint** during this audit.

Deemed as Not Triggered during this audit.

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action	2
Mining Lea	ase 1693				
5a	<ul> <li>The lease holder must report any environmental incidents. The report must:</li> <li>i. be prepared according to any relevant Departmental guidelines;</li> <li>ii. (ii) be submitted within 24 hours of the environment incident occurring:</li> </ul>	Auditor document review and interview with the Environmental Officer identified that no environmental incidents occurred on this mining lease. Other incidents have occurred and evidence of reporting has been observed. The incident report referenced was not submitted within 24 hours. Report all environmental incidents within 24 hours of the incident occurring.	NC	Ensure any incidents are duly reported. Timing: Ongoing TCM contest NC weighting; noting evidence of reporting to respective agencies. ANC considered appropriate.	[
Mining Lea	ase 1685				
3f	<ul> <li>The lease holder must prepare a Rehabilitation Report to the satisfaction of the Minister. The report must:</li> <li>(i). provide a detailed review of the progress of rehabilitation against the performance measures and criteria established in the approved MOP;</li> <li>(ii). be submitted annually on the grant anniversary date (or at other such times as agreed by the Minister); and</li> <li>(iii). be prepared in accordance with any relevant annual reporting guidelines published on the Department's website at www.resources.nsw.gov.au/environment.</li> <li>Note: the Rehabilitation Report replaces the AEMR</li> </ul>	<ul> <li>There is no standalone Rehabilitation Report and the contents are contained within the Annual Review (2016).</li> <li>(i). Annual Review (2016) section 8 does not contain a detailed comparison of landscape performance against completion criteria and is qualitative in nature. NC: no detailed review of progress against completion criteria.</li> <li>(ii). ML conditions dated 18 July 2013. Annual Review (2016) dated 28 February 2017 reporting for the period 1 May 2016 to 31 December 2016. ANC: dates are misaligned.</li> <li>(iii). Annual Review (2016) generally in accordance with guidelines.</li> </ul>	NC	No action required. Previous AEMR's/Annual Reviews accepted by DRG (formerly DRE). TCM contest non-compliance classification noting that the AEMR/Annual Reviews have been accepted by DRG (formerly DRE).	[
4c	The Compliance Report must be lodged with the Department annually on the grant anniversary date for the life of this mining licence.	Environmental Officer interview identified that reports have been submitted in conjunction with ML1579 reporting timeframes. AEMR/ER may provide demonstration that the methodology to provide all on the same date as the 1579 is satisfied – though likely was outside of the reporting period for this audit. Dates of submission did seem varied and inconsistent. Consolidated report summarises all leases areas and is provided at one time, corresponding to the reporting period for one of the leases. This eliminates the requirement to provide similar report at three different times. Evidence for approval of this approach from Secretary to be provided. If not available such approval is to be obtained.	ANC	No further action required. DRG have advised acceptance of annual submission of Annual Reviews inclusive of compliance reporting of multiple Mining Leases, after calendar year reporting period, and in accordance with Annual Review Guidelines (2015).	T
5a	<ul> <li>The lease holder must notify the Department of all:</li> <li>(i). breaches of the conditions of this mining lease or breaches of the Act causing or threatening material harm to the environment; and</li> <li>(ii). breaches of environmental protection legislation causing or threatening material harm to the environment (as defined in the Protection of the Environment Administration Act 1991) arising in</li> </ul>	No environmental incidents occurred on this mining lease. Incidents against other conditions have occurred as detailed in this report and evidence of reporting has been observed. However, the incident report referenced was not submitted within 24 hours.	NC	Ensure any incidents are duly reported. Timing: Ongoing TCM contest NC weighting; noting evidence of reporting to respective agencies. ANC considered appropriate.	1

2020 Status

Deemed as **Compliant** during this audit.

Deemed as Compliant during this audit.

This condition has been replaced.

This condition has been removed.

Item No	Assessment Requirement	Comment	2017 Audit Classification	NCO Response/Action	2
	connection with significant surface disturbing activities, including mining operations, mining purposes and prospecting operations, under this mining lease. The notification must be given immediately after the lease holder becomes aware of the breach.	Report all environmental incidents within 24 hours of the incident occurring as this is the most stringent criteria at the site			
5b	<ul> <li>The lease holder must submit an Environmental Incident report to the Department within seven (7) days of all breaches referred to in condition 5(a) (i) and (ii).</li> <li>The Environmental Incident report must include: <ul> <li>(i). The details of the mining lease;</li> <li>(ii). Contact details for the lease holder;</li> <li>(iii). A map identifying the location of the incident and where material harm to the environment has or is likely to occur;</li> </ul> </li> <li>(iv). A description of the nature of the incident or breach, likely causes and consequences;</li> <li>(v). A timetable showing actions taken or planned to address the incident and to prevent future incidents or breaches referred to in 5(a).</li> <li>(vi). A summary of all previous incidents or breaches which have occurred in the previous 12 months relating to significant surface disturbing activities, including mining operations, mining purposes and prospecting operations under this mining lease.</li> <li>Note: the lease holder should have regard to any relevant Director-general's guidelines in the preparation of an Environmental Incident Report. Refer to www.resources.nsw.gov.au/environment for further details.</li> </ul>	No environmental incidents occurred on this mining lease. Incidents against other conditions have occurred as detailed in this report and evidence of reporting has been observed. However, the incident report referenced was not submitted within 24 hours. Report all environmental incidents within 24 hours of the incident occurring as this is the most stringent criteria at the site.	NC	Ensure any incidents are duly reported. Timing: Ongoing TCM contest NC weighting; noting evidence of reporting to respective agencies. ANC considered appropriate.	[

2020 Status

# 3.2 Complaints Summary

Complaints registers for the auditing period were available online and/or for review. Complaints over the reporting period include:

- A total of three complaints were recorded during 2017 (for the period 1 December to 31 December). All complaints raised were in relation to dust;
- One complaint was raised in 2018 related to dust; and
- Nil (0) complaints were received in 2019 or 2020 to-date.

The detailed summaries as prepared by TCM are provided on the Whitehaven Coal website.

### 3.3 Incident Summary

A review of the incidents was undertaken through a review the TCM incident and exceedance register. Below outlines the incidents recorded during the audit period:

- A total of three exceedances of EPL recorded during the audit period; one in June 2019 related to
  exceedance of noise levels and two in February 2020 related to an unauthorised discharge and
  an exceedance of criteria for wet weather discharges;
- EPA issued a Penalty Notice on 9 April 2020 in relation to the unauthorised discharge from sediment dam SD2 which occurred in February 2020;
- EPA issued a Show Cause on 25 June 2020 in relation to exceedance of oil and grease criteria in the west weather discharge from SD14 in February 2020. TCM has responded and is awaiting feedback from EPA;
- Attended noise monitoring was not undertaken during the 2017 calendar year. DPIE issued an Official Caution Letter on 23 March 2019;
- TCM failed to notify one neighbour prior to a blast event on 18 January 2018. Warning letter received from DPIE on 8 March 2018;
- TCM was operating without an approved MOP for 10 days between 2 April and 11 April 2019. DRG issued an Official Caution on 6 November 2019;
- Clearing was undertaken outside the MOP D boundary and notified to DPIE and DRG on 23 August 2019. No action taken;
- Noise was recorded above the day time limit during attended noise monitoring on 7 June 2019. TCM is awaiting response from EPA;
- Elevated PM10 levels were recorded on sixteen (16) occasions between January and October 2019. DPIE advised that result were recorded in days affected by extraordinary events (dust storms and bushfires) and are not considered exceedances with respect to the air quality criteria in the Project Approval; and
- Elevated PM10 levels were recorded on seven occasions between November and December 2019. DPIE advised that result were recorded in days affected by extraordinary events (dust storms and bushfires) and are not considered exceedances with respect to the air quality criteria in the Project Approval.

# 3.4 Environmental Monitoring Performance

## 3.4.1 Noise

Quarterly acoustic monitoring was undertaken between 2017 to 2020 by qualified third party contractors, SLR and Wilkinson Murray The following noise exceedances were recorded during the audit period:

• 7 June 2019: Matong/Coolmalgah monitoring location, Day – LAeq (15 minute) of 42dB.

Following the exceedance TCM conducted a review of the monitoring. It was concluded that the monitoring was not conducted at the residence and a correction factory had not been applied. TCM is awaiting a response from EPA regarding the reported exceedance and investigation.

# 3.4.2 Air quality

Monthly dust deposition was conducted by ALS during the audit period. The following exceedance of assessment criteria were reported for the audit period:

2019 – twenty two (22) exceedances of PM10 levels recorded.

All exceedances were investigated and found to be associated with regional events including dust storms and bushfires. Auditors reviewed correspondence confirming DPIE acknowledged that there were 18 out of 22 exceedances recorded on days that regional air quality alerts were issued by Office of Environment Heritage (OEH) or days of 'extraordinary event'.

Auditors sighted the weather station onsite which provides the site's meteorological data. Meteorological data from the onsite weather station was provided for the audit period.

# 3.4.3 Blasting

Blasting has been conducted during the audit period in accordance with the Conditions of Approval. One incident related to failure to notify a neighbour of a blast in January 2018 as detailed in *Section 3.3* above.

## 3.4.4 Water management

#### 3.4.4.1 Surface water

Surface water management comprising a series of water storage dams used to collect, store and dispose of pumped out mine water and dirty water run-off, sediment basins, and clean / dirty surface water drains were in place and established as per the Water Management Plan (dated 2020).

Two incidents related to surface water releases were recorded in February 2020 following a period of heavy intense rainfall. Refer to *Section 3.3* above.

Subsequent to the releases in February 2020 TCM has engaged a third party (Aurecon) to undertake a comprehensive review of water management at the Site. Remedial works to drop drains and sediment ponds have been recommended and are in the process of being actioned. TCM is also in the process of installing automatic water level meters on some of the sediment ponds associated with licensed discharge points which will alert the Operations team when intervention is needed, for example pumping out the ponds.

## 3.4.4.2 Groundwater

The groundwater monitoring program is stipulated in Section 5.4 of the approved WMP (dated March 2020). Neither the CoA nor EPL stipulates the frequency of groundwater monitoring to be undertaken.. Under the WMP, depending on their location, piezometers and groundwater bores are required to be monitored on a quarterly and six monthly basis. Groundwater monitoring data provided showed that monitoring is typically completed within the WMP timeframes.

# 3.5 Management Plan Adequacy

The Management Plans for the site were reviewed and the adequacy in meeting the relevant approval requirements was assessed in view of current operations at the site. It was noted that a number of management plans have been updated since the original approvals issued under the Project Approval and where Secretary approval has been received the revised management plan has been implemented at the site. Most of the management plans have been revised and submitted to the Secretary at various times between 2017 and 2020, however TCM are currently awaiting formal approval for these revisions.

In general, Management Plans were considered to be appropriate for the site's operations at the time of the site visit. The findings of the Management Plan review are outlined in *Table 3.2* and *Appendix A*.

### 3.6 Environmental Protection Licence

The site operates under Environment Protection Licence (EPL) 12365 issued to Tarrawonga Coal Pty Ltd. The EPL has been varied once during the audit period on 16 January 2020.

The site submitted Annual Returns to the EPA, as required for the audit period. The following noncompliances were noted:

2017:

- EPL R4.1 last quarterly attended noise monitoring report 2017 was not submitted within 30 days of completion of monitoring. No further action.
- EPL M4.1 Technical non-compliance: Periodic connection failures resulting in minor data gaps, these gaps are not material to meeting the condition. The EPA has confirmed that 100% data capture is not required for compliance with this condition. This issue has not been recorded as a non-compliance since 2018 annual return.
- EPL M3.1 Technical non-compliance: Real time air quality monitor does not meet AM-22 as required. No further action.
- EPL M2.1 Point 28 Technical non-compliance:PM10 not monitored continuously in accordance with condition due to periodic connection failure and equipment repair. The EPA has confirmed that 100% data capture is not required for compliance with this condition. This issue has not been recorded as a non-compliance since 2018 annual return.

2018:

- EPL M2.1 Point 28 and W1– Technical non-compliance due to periodic connection failure and equipment repair. Accepted industry standard is for continuous monitoring to occur for 90% of the monitoring period. The EPA has confirmed that 100% data capture is not required for compliance with this condition. This issue has not been recorded as a non-compliance since 2018 annual return.
- EPL M2.2 Point 28 PM10 not monitored continuously due to periodic connection failure and equipment repair. (98% availability machine and 2% downtime). The EPA has confirmed that 100% data capture is not required for compliance with this condition. This issue has not been recorded as a non-compliance since 2018 annual return.
- EPL M4.1 Periodic connection failures resulting in minor data gaps. (99.5% availability and 0.5% downtime). This issue has been resolved with the EPA.

2019

 EPL L4.1 – Quarterly attended noise monitoring resulted in the measure of 42dB (including 2dB Noise Modifying factor applied as per the Noise Policy) at the Coomalgah monitoring point. TCM conducted subsequent noise assessment and no issues have been recorded in subsequent monitoring events.

- EPL M7.3 blast monitoring location did not align with the previous version of the licence. This
  has been reported in previous annual returns. This has now been addressed in the variation
  EPL12365 approved in January 2020.
- EPL M2.1 and M2.2 Monitoring Point 28 ambient air monitor. This is considered a technical non-compliance due to downtime (0.4%) during periodic maintenance, equipment repair or calibration activities.
- EPL M2.1 and M7.2 Point N2 –portable noise monitor. Technical non-compliance due to downtime (0.4%) during periodic maintenance, equipment repair or calibration.
- EPL M2.1 and M4.1 Point W1 weather monitoring point. Technical non-compliance due to downtime (0.1%) during periodic maintenance, equipment repair o4 calibration activities.

Findings identified against the site's EPL are outlined in *Table 3.2* and *Appendix A*.

### 3.7 Mining Lease

Tarrawonga Coal Mine lies within the mining leases (ML) 1579, 1685, 1693 and 1749 issued to Tarrawonga Coal Pty Ltd.

One non-conformance was noted in relation to the site operating without an approved MOP for 10 days related to ML 1579. Mining Lease conditions and the summary of audit findings are provided in *Table 3.2* and *Appendix A*.

## 3.8 Compliance with Regulatory Instruments

A compliance check of the CoA, EPL and ML conditions as well as management plan review has been completed and is provided in *Appendix A*. Non-compliances and observations for each component are summarised in *Table 3.2*.

As discussed in *Section 2.3*, a qualitative risk assessment was also completed on the findings as follows:

- non-compliance assessed as 'high' have been colour coded red;
- non-compliance assessed as 'moderate' have been colour coded orange;
- non-compliance assessed as 'low' have been colour coded yellow; and
- administrative non-compliance have been colour coded blue.

# Table 3.2 Summary of 2020 Audit Findings

Item No		Assessment Requirement		Comment	Audit Classification	Res
		-		Comment	Addit Classification	Nes
Minister	's Conditions of Approval	PA 11_0047				
2.15	<ul> <li>The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</li> <li><i>Notes:</i></li> <li>Under Part 4A of the EP&amp;A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and</li> <li>Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the project.</li> </ul>			A new maintenance workshop was constructed in 2020. The building has not been yet been commissioned. An occupation certificate has been sought from Narrabri Shire Council but not yet received.	C (Obs)	Ensure an occupation to use.
3.3	Except for the noise-affected land in Table 1 the Proponent shall ensure that operational noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land. <i>Table 2: Noise criteria dB(A)</i>			The following noise exceedance were reported during the audit period: 7/6/19 – monitoring location TN2 on privately owned land. Day time exceedance of 42 dB recorded during quarterly	NC	Comply with direction reported noise exce
	Land	Day, Evening & Night	Night	attended noise monitoring. Following the reported exceedance TCM engaged an		
	All other privately-owned residences	LAeq(15 min) 35	<b>LA1 (1 min)</b> 45	independent specialist to review the monitoring data and methods. It was concluded that the monitoring location was		
	<ul> <li>Notes:</li> <li>Operational noise includes noise from the mining operations and the use of private roads (excluding the Kamilaroi Highway overpass) and rail spurs.</li> </ul>			on the road not at the residence and SLR did not apply a factor accounting for this. No further exceedances have been recorded during subsequent attended noise monitoring events. The incident was reported to DPIE and EPA. DPIE confirmed EPA as the regulating authority. TCM is awaiting a response from EPA.		
	<ul> <li>Noise is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions (also see condition 13)), of the NSW Industrial Noise Policy.</li> </ul>					
	However, these noise criteria do not apply if the Proponent has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.					
3.8	The Proponent, together with the owners of the Rocglen and Vickery coal mines, shall ensure that the noise generated on public roads by the Project and the other mines, does not exceed the criteria in Table 4 at any existing residence on privately-owned land.			Noise monitoring is conducted at three locations along the haul road on a six monthly basis. No exceedances in noise criteria have been recorded during the audit period. Noise monitoring on the haul road was not carried out in the six month ending December 2017. TCM identified the issue and notified DPIE and conducted the monitoring in January 2018. DPIE issued an official caution on 23 March 2018.	NC	Historic NC. No furth
	Land       Day and Evening         LAeq (15 hour)					
	All privately-owned res		60	Monitoring has been conducted as required during 2018, 2019		
	However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.			and 2020.		
	Note: Traffic noise generated by the Project is to be measured in accordance with the relevant procedures in the NSW Road Noise Policy.					

AUDIT FINDINGS

Response/Action

ation certificate is obtained prior

ction form EPA with regard to the xceedance.

further action

Item No	Assessment Requirement	Comment	Audit Classification	Re
3.15	The Proponent shall only carry out blasting on the site between 9 am and 5 pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.	Auditor reviewed blast monitoring records, no blasts occurred on Sunday. Time of blast was recorded to be 00:00:00 for approximately 60% of blasts in 2018. Time was not recorded for 4 blast events between 18 and 30 May 2020 and one blast even on 14 July 2020. All other blasts were recorded to be carried out between the hours 9am to 5pm.	C (Obs)	Ensure accurate (Duplicate finding s
3.19	<ul> <li>During mining operations on site, the Proponent shall: <ul> <li>(a) implement best practice blasting management to:</li> <li>protect the safety of people and livestock in the surrounding area;</li> <li>protect public or private infrastructure/property in the surrounding area from any damage;</li> <li>minimise the dust and fume emissions of any blasting; and</li> <li>minimise blasting impacts on heritage items in the vicinity of the site;</li> </ul> </li> <li>(b) co-ordinate the timing of blasting on site with the timing of blasting at other mines within the Leard Forest Mining Precinct to minimise the cumulative blasting impacts of the mines; and</li> <li>(c) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site, to the satisfaction of the Secretary.</li> </ul>	<ul> <li>TCM has implemented a Blast Management Plan which complies with this condition.</li> <li>Communication with other mines is conducted by email. The distribution list also includes NSW Forestry. Notification email includes the scheduled time of the blast, location and map with the exclusion zone.</li> <li>Information regarding scheduled blasts is posted on the company website and on a board at the site entrance.</li> <li>TCM failed to notify a landowner for a blast on the 18 January 2018. DPIE was notified and issued a warning letter on 8 March 2018.</li> </ul>	NC	Historic NC. No furt

#### Statement of Commitments

No non-compliances have been identified.

Enviro	nmental Protection Licence 12365			
L2.1	For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	TCM had a wet weather discharge event from the EPL ID 3 (SB14) on 8 February 2020. Oil and grease was recorded to be 11mg/L exceeding the 10mg/L limit. The EPA issued a Show Cause on 25 June 2020 and TCM responded on 9 July 2020. TCM is awaiting a response from EPA. The TSS limit was exceeded at EPL ID 1, 2, 3 and 27. However, this was not considered an exceedance, as TSS limits do not apply after more than 38.3mm of rainfall in 5 days preceding the discharge. TCM had a discharge from EPL ID 1 on 21 October 2018. TSS value was recorded to be 3,970.However this was not considered an exceedance as TSS limits do not apply after more than 38.3mm of rainfall in 5 days preceding the discharge	NC	Comply with the dir the Show Cause.
L2.5	<ul> <li>The Total Suspended Solids concentration limits specified for Points 1, 2, 3, 24, 26 and 27 may be exceeded for water discharged provided that:</li> <li>(a) the discharge occurs solely as a result of rainfall measured at the premises that exceeds 38.4 millimetres over any consecutive 5 day period immediately prior to the discharge occurring; and</li> <li>(b) all practical measures have been implemented to dewater all sediment dams within 5 days of rainfall such that they have sufficient capacity to store run off from a 38.4 millimetre, 5 day rainfall event.</li> <li>Note: 38.4 mm equates to the 5 day 90%ile rainfall depth for Gunnedah sourced from Table 6.3a Managing Urban Stormwater: Soils and Construction Volume 1: 4th edition, March 2004.</li> </ul>	<ul> <li>TCM had a wet weather discharge event from the EPL ID 3 (SB14) on 8 February 2020. The TSS limit was recorded to be 17,700 mg/L. However, this was not considered an exceedance, as TSS limits do not apply after more than 38.3mm of rainfall in 5 days preceding the discharge.</li> <li>The EPA undertook an investigation of the discharge from LDP 3 (SB14) on 8 February 2020. The EPA's investigation found that the discharge from SB14 may have polluted waters, in that:</li> <li>The discharge exceeded licence limit conditions for Oil and Grease, and</li> </ul>	NC	Duplicate NC. Refe

AUDIT FINDINGS

#### Response/Action

te blast times are recorded g see EPL)

further action

direction from EPA with regard to .

efer to L2.1 above

Item No		Asse	ssment Require	ment		Comment	Audit Classification	Re
						<ul> <li>At the time of discharge the Licensee did not meet all the requirements of condition L2.5, in that it did not appear to take all reasonable steps to ensure that all sediment dams were emptied within 5 days of the last preceding rainfall event. Had this occurred, exceedance of the discharge limits may have been avoided.</li> <li>SB14 discharges into Goonbri Creek, which defined as waters under the Act.</li> <li>Interview with Site Environmental Superintendent indicated TCM is awaiting a final response from the EPA regarding this matter.</li> </ul>		
L4.1	Noise generated a Locality and Location All other surrounding residences	at the premises r Day- LAeq (15 minute) 35	Evening- LAeq (15 minute) 35	the noise limits in Night- LAeq (15 minute) 35	Night- LA1(1minute)45	Quarterly attended noise monitoring resulted in one occurrence of the attended monitoring measurement of 42dB (including 2dB Noise Modifying factor applied as per the Noise Policy for Industry) at the 'Coomalgah' monitoring point. TCM engaged a separate noise specialist to take supplementary operational noise monitoring. The results showed that throughout the entire period there were no recorded noise non-compliances. TCM is awaiting feedback from EPA with regard to this incident.		Comply with the di
L4.4	<ul> <li>Determining compliance</li> <li>To determine compliance: <ul> <li>(a) with the Leq(15 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located:</li> <li>(i). approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or</li> <li>(ii). within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable</li> <li>(iii). within approximately 50 metres of the boundary of a National Park or a Nature Reserve.</li> </ul> </li> <li>(b) with the LA1(1 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located within 1 metre of a dwelling façade.</li> <li>(c) with the noise limits in the Noise Limits table, the noise measurement equipment must be located: <ul> <li>(i). at the most affected point at a location where there is no dwelling at the location; or</li> <li>(ii). at the most affected point within an area at a location prescribed by part (a) or part (b) of this condition.</li> </ul> </li> </ul>				elling is situated the premises; or n 3m, where any s from the plicable tional Park or a table, the noise dwelling façade. ement equipment	Monitoring locations are stated in the Noise Management Plan (2015) and the quarterly monitoring reports. Auditor observed a sample of noise monitoring locations while on Site. Interview with Site Environmental Superintendent indicated that noise monitoring cannot be conducted within 30 m of the residence at night due to privacy concerns. TCM requested a variation to the EPL condition. The EPA advised that this standard condition could not be amended but acknowledged that this condition could not be met.		Continue to discu locations with the E
L5.5	Blasting operatior 9am to 5pm, Mon	-	-	arried out betwe	en the hours	Auditor reviewed blast monitoring records, no blasts occurred on Sunday. Time of blast was recorded to be 00:00:00 for approximately 60% of blasts in 2018. Time was not recorded for 4 blast events between 18 and 30 May 2020 and one blast even on 14 July 2020. All other blasts were recorded to be carried out between the hours 9am to 5pm.	C (Obs)	Ensure accurate bl

**Response/Action** 

e directions of EPA.

scuss night-time noise monitoring ne EPA.

e blast time is recorded.

m No		Assessment Requirement	Comment	Audit Classification	Re
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity:		During the Site inspection, no observations were made of unmaintained or inappropriately operated equipment.	NC	Duplicate NC. Refe
	(a) must be maintained in a proper and efficient condition; and		The EPA undertook an investigation into the discharge of		
	<ul><li>(b) must be operated in a proper and efficient manner.</li></ul>		sediment laden water from sediment dam SB 14 on or around 8 February		
			The EPA's investigation found that the discharge from SB14		
			may have polluted waters, in that the licensee appears to have		
			failed to maintain and operate SB14 in a proper and efficient		
			manner prior to the discharge on the 8 February 2020. Interview with Site Environmental Superintendent indicated		
			TCM is awaiting a final response from the EPA regarding this matter.		
			TCM is currently working with environmental professionals to		
			implement water management improvements including staff training, risk assessment, and water pumps.		
M7.3	For the pur described a	pose of conditions M7.1, M7.2 and M7.3 the monitoring locations are is:	The auditor observed a sample of noise monitoring locations in the field. Monitoring locations are stated in the NMP and in	NC	Duplicate NC. Refe
	EPA ID No.	Description of Location	quarterly monitoring reports. Interview with Site Environmental Superintendent indicated that		
	N2	Portable monitor	noise monitoring cannot be conducted within 30 m of the residence at night. TCM requested a variation to the EPL condition, however, this was not approved.		
	TN2	Within 30 metres of the 'Matong' property boundary as shown within 30 metres of the 'Matong' property boundary as shown on the map entitled "EPL12365 Monitoring Locations Onsite and Offsite" received by EPA on 14 October 2019 (DOC19/978674).			
	TN3	Within 30 metres of the residence on the property			
		'Barbers Lagoon' as shown on the map entitled "EPL12365			
		Monitoring Locations Onsite and Offsite" received by EPA on 14 October 2019 (DOC19/978674).			
	TN4	Within 30 metres of the residence on the property			
		'Bungalow' as shown on the map entitled "EPL12365 Monitoring Locations Onsite and Offsite" received by EPA on 14 October 2019			
		(DOC19/978674).			
	TB2	Within 30 metres of the residence on the property			
		Coomalgah as shown on the map entitled "EPL12365 Monitoring Locations Onsite and Offsite" received by EPA on 14 October 2019 (DOC19/978674).			
	Note: Point N	V2 is a portable monitor enabling the monitor to be relocated to areas of potential			
		act. The licensee is responsible to ensure that it is located at the most suitable			
	location.				
		cation, frequency of monitoring and the parameters to be monitored may be varied			
	by the EPA c	once the variability of the noise impact is established.			

AUDIT FINDINGS

Response/Action

efer L2.1

efer above

Item No	Assessment Requirement	Comment	Audit Classification	Re
R4.1	A noise compliance assessment report must be submitted to the EPA within thirty (30) days of the completion of the quarterly noise monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include: (a) an assessment of compliance with noise limits detailed in the limit conditions of	Last quarterly attended noise monitoring report for 2017 was not submitted within 30 days of completion of monitoring.	NC	Historic NC. No fur
	<ul> <li>(a) an assessment of compliance with noise limits detailed in the limit conditions of this licence; and</li> </ul>			
	(b) an outline of any management actions taken within the monitoring period to address any exceedances of the limits detailed in the limit conditions of this licence.			
Mining L	icence 1579			
2.3b	A Plan must be lodged with the Director-General:- (b) subsequently as appropriate prior to the expiry of any current Plan	TCM was required to update MOP amendment C to report on progress against rehabilitation undertakings by 1 April 2019. TCM submitted amendment D on 15 March 2019. Amendment D was approved on 12 April 2019. The DRG issued a caution letter to TCM for continuing operations between the 2 and 11 April 2019 without an approved MOP. Amendment E was lodged on the 19 December 2019.	NC	Historic NC. No fur
Mining L	icence 1693			
12.	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan.	Site inspection by the auditor identified that erosion and sediment control on-site is managed with basins and progressive rehabilitation. Water carts were observed working on site to manage dust. A dust suppressant is also utilised. An exceedance of the EPL limits for oil and grease was recorded for Dam SD14 on 8 February 2020. An uncontrolled discharge from Dam SD2 occurred on 10 February 2020 due to a wall failure after a significant rainfall event. A penalty notice was issued by the EPA. Areas of significant erosion were observed above SD14. TCM is currently working with environmental professionals to implement water management improvements including staff training, risk assessments and water pumps. Environmental Superintendent indicated that weather conditions monitored prior to blasts such that the blast is only carried out during conditions to prevent fugitive dust migration.	NC	Duplicate NC. Refe

No non-compliances have been identified

Mining Licence 1749

No non-compliances have been identified

AUDIT FINDINGS

**Response/Action** 

further action required.

further action required.

Refer to EPL

# 4. CONCLUSION

An audit of CoA, Mining Lease and Environmental Protection Licence conditions has been completed as well as a check against commitments made in the management plans developed as part of CoA conditions for the site.

Overall, compliance was generally achieved with the audit documents that were reviewed. The number of non-compliances with the statutory conditions and implementation of the management plans is summarised in *Table 4.1* below.

Review	Non-compliances (NC)	Observations (Obs NC)	Observations (Obs C)
Statutory Instruments	7 (+4 duplicate)	-	3 (+1 duplicate)
Implementation of Plans	-	-	-

## Table 4.1 Summary of Audit Findings

An action response table has been developed by Whitehaven Coal addressing all audit findings and will be submitted separately to this report.

# APPENDIX A CONDITIONS OF APPROVAL, ENVIRONMENTAL PROTECTION LICENCE AND MINING LEASE COMPLIANCE TABLES

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
SCHEDU	JLE 2 – ADMINISTRATIVE CONDITIONS			1	
OBLIGATI	ON TO MINIMISE HARM TO THE ENVIRONMENT				
1.	In addition to meeting the specific performance criteria established under this approval, the Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the project.	Note	Noted	Note	
TERMS O	F APPROVAL				
2.	<ul> <li>The Proponent shall carry out the project:</li> <li>(a) generally in accordance with the EA;</li> <li>(b) in accordance with the statement of commitments; and</li> <li>(c) in accordance with the conditions of this approval.</li> <li>Notes:</li> <li>The general layout of the project is shown in Appendix 2; and</li> <li>The statement of commitments is reproduced in Appendix 4.</li> </ul>	Note	Noted	Note	
3.	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.	Note	Noted	Note	
4.	<ul> <li>The Proponent shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:</li> <li>(a) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in accordance with this approval (including any stages of these documents);</li> <li>(b) any review, reports or audits commissioned by the Department regarding compliance with this consent; and</li> <li>(c) the implementation of any actions or measures contained in these documents.</li> </ul>	Letter dated 25/10/19 responding to DPE request to consult on management plans Response to DPIE comments on Draft Water Management Plan – 29/1/20 Review of Blast Management Plan – email from DPIE	Evidence was provided that TCM complies with all requests made by the Secretary arising out of plan submission and review, audits of actions.	C	
	I APPROVAL				
Mining Op	perations				
5.	The Proponent may carry out mining operations on the site until the end of December 2030. Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of both the Secretary and MEG. Consequently, this approval will continue to apply in all other respects - other than the right to conduct mining operations - until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.	Note	Noted	Note	
Coal Extra	action				
6.	The Proponent shall not extract more than 3 million tonnes of ROM coal from the site in any calendar year.	Annual Reviews 2017, 2018 and 2019 Coal haulage records Interview with Environment Superintendent	Data provided in the annual reviews, haulage records and by the Environment Superintendent confirms that the extracted tonnes are as below. 2020: 2.357M FY 20 2019: 2.26M 2018: 2.75M 2017: 1.87M	C	

Compliance Status	Recommendations
Note	
Note	
Note	
С	

Νο	Assessment Requirement	Reference/ Evidence	Comments
Coal Tran	isport		
7.	<ul> <li>For the period up until the commissioning of the Kamilaroi Highway overpass, the Proponent:</li> <li>(a) shall not transport more than 3 million tonnes of ROM coal from the site in any calendar year;</li> <li>(b) may transport up to 150,000 tonnes of this ROM coal from the site in any calendar year for direct distribution to domestic markets via the approved haulage route to the Kamilaroi Highway;</li> <li>(c) shall transport all remaining coal from the site to the Whitehaven CHPP via the approved haulage route;</li> <li>(d) shall, together with the owners of the Rocglen and Vickery coal mines, ensure that the cumulative haulage of coal along the approved haulage route does not exceed 4.0 million</li> </ul>	Annual reviews 2017, 2018, 2019 Coal haulage records Interview with Environment Superintendent	Data provided confirms that coal transported is as follows: Haulage route TCM to CHPP 2019: 2.24M 2018: 2.3M 2017: 2.54M Direct distribution 2019:105,907 t 2018: 62,722 t
	tonnes per year during calendar years 2017 and 2018; and (e) shall, together with the owners of the Rocglen and Vickery coal mines, ensure that the cumulative haulage of coal along the approved haulage route does not exceed 3.5 million tonnes each year during all other calendar years. Note: For the avoidance of doubt, the total amount of coal permitted to be transported from the site by road in any calendar year is 3 million tonnes.		2017: 69,252 t Combined Rocglen and Vickery 2019: 2.89M (none from Vickery) 2018: 3.5M (no haulage from V) 2017: 3.99M (no haulage from Vickery) Coal rejects 2019: 291,683 2018: 558,563 2017: 527,718
3.	<ul> <li>For the period following the commissioning of the Kamilaroi Highway overpass, the Proponent: <ul> <li>(a) shall not transport more than 3 million tonnes of ROM coal from the site in any calendar year;</li> <li>(b) may transport up to 150,000 tonnes of this ROM coal from the site in any calendar year for direct distribution to domestic markets via the approved haulage route to the Kamilaroi Highway;</li> <li>(c) shall transport all remaining coal from the site to the Whitehaven CHPP via the approved haulage route and the Kamilaroi Highway overpass; and</li> <li>(d) shall, together with the owners of the Rocglen and Vickery coal mines, ensure that the cumulative haulage of coal along the approved haulage route does not exceed 4.5 million tonnes.</li> </ul> </li> <li><i>Notes:</i> <ul> <li>For the avoidance of doubt, the total amount of coal permitted to be transported from the site by road in any calendar year is 3 million tonnes.</li> <li>For the avoidance of doubt, while any ROM coal transported from the site to the Whitehaven CHPP must use the Kamilaroi Highway overpass (once commissioned), this requirement does not apply to</li> </ul> </li> </ul>		Not triggered

Compliance Status	Recommendations
С	
NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
).	<ul> <li>The Proponent shall only transport coal from the site or receive coal reject from the Whitehaven CHPP by truck between the hours of:</li> <li>(a) 6 am to 9.15 pm Monday to Friday;</li> <li>(b) 7 am to 5.15 pm Saturday; and</li> <li>(c) at no time on Sundays or public holidays.</li> </ul>	Annual reviews 2017, 2018, 2019 Master Services Agreement for Supply of Road Haulage Services between WHC and Bis Industries Limited, commencement date 28 January 2014 Interview with Environmental Superintendent	Review of coal haulage records confirms that no coal is transported from the site or rejects transported to the site outside of the approved hours. The Master Services Agreement with the haulage contractor stipulates the transport times.	С	
0.	<ul> <li>Within 6 months of the Boggabri rail spur line and Boggabri CHPP being commissioned, and every 2 years thereafter, the Proponent shall use all reasonable efforts to reach an agreement with the owners of the Boggabri coal mine to use this infrastructure to process and transport coal from the site, to the satisfaction of the Secretary.</li> <li>If an agreement is reached to transport coal via the Boggabri rail spur line, the Proponent: (a) shall not transport more than 3 million tonnes of ROM coal from the site in any calendar year;</li> <li>(b) may transport up to 150,000 tonnes of this ROM coal from the site in any calendar year for direct distribution to domestic markets by road via the approved haulage route to the Kamilaroi Highway; and</li> <li>(c) shall transport all remaining coal from the site via the Boggabri rail spur line.</li> </ul>	Interview with Environmental Superintendent	Environment Superintendent confirmed that the Boggabri Rail Spur is not used.	NT	
oal Reje	ects Transport		1	11	
0A.	The Proponent shall not receive more than 700,000 tonnes of coal rejects on the site in any calendar year	Annual Reviews 2017, 2018, 2019 Coal rejects haulage records	Records confirm that no more than 700,000 tonnes of coal reject is received at the site.	С	
0B.	The Proponent shall ensure all coal rejects transported to the site from the Whitehaven CHPP are transported via the approved haulage route.	Traffic Management Plan 2016	The Traffic Management Plan outlines the approved haulage route.	С	
Gravel ex	tract and Transport				
1.	The Proponent shall not extract more than 90,000m3 of gravel from the site for distribution off-site in any calendar year.		Not triggered	NT	
2.	The Proponent may transport up to 90,000m3 of gravel from the site by truck in any calendar year. This gravel is to be transported from the site to the Kamilaroi Highway via the approved haulage route.		Not triggered	NT	
13.	The Proponent shall only transport gravel from the site by truck between 7 am and 6 pm Monday to Saturday.		Not triggered	NT	
SURREN	DER OF EXISTING DVELOPMENT CONSENT				
14.	By the end of December 2013, or as otherwise agreed by the Secretary, the Proponent shall surrender the existing development consent (DA-88-4-2005) for the Tarrawonga Coal Mine in accordance with Section 104A of the EP&A Act. Prior to the surrender of this development consent, the conditions of this approval shall prevail to the extent of any inconsistency with the conditions of the development consent.		Completed outside audit period	NT	

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No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
STRUCT	URAL ADEQUACY				
15.	<ul> <li>The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</li> <li><i>Notes:</i></li> <li><i>Under Part 4A of the EP&amp;A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and</i></li> <li><i>Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the project.</i></li> </ul>	Interview with Environment Superintendent and Group Superintendent - Environment	A new maintenance workshop was constructed in 2020. The building has not been yet been commissioned. An occupation certificate has been sought from Narrabri Shire Council but not yet received.	C (Obs)	Ensure an occupation certificate is obtained prior to use.
DEMOLI	ΓΙΟΝ			1	
16.	The Proponent shall ensure that all demolition work on site is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.		Not triggered	NT	
PROTEC	TION OF PUBLIC INFRASTRUCTURE				·
17.	<ul> <li>Unless the Proponent and the applicable authority agree otherwise, the Proponent shall:</li> <li>(a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and</li> <li>(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.</li> <li><i>Note: This condition does not apply to any damage to roads caused as a result of general road usage.</i></li> </ul>		Not triggered	NT	
OPERAT	ION OF PLANT AND EQUIPMENT				1
18.	<ul> <li>The Proponent shall ensure that all the plant and equipment used on site, or to transport coal from the site, is:</li> <li>(a) maintained in a proper and efficient condition; and</li> <li>(b) operated in a proper and efficient manner.</li> </ul>	Sentinex portal Dust monitor service report, 15/1/19 Interview with Environment Superintendent Work order history	Environmental monitoring equipment is managed through the Sentinex portal. The equipment contractor manages the maintenance schedule and uploads reports to the portal. Plant and equipment are maintained by the site maintenance team of specialist suppliers. Work order history confirms that plant is maintained regularly.	С	
UPDATIN	IG & STAGING STRATEGIES, PLANS OR PROGRAMS				
19.	<ul> <li>With the approval of the Secretary, the Proponent may submit any strategies, plans or programs required by this approval on a progressive basis.</li> <li>To ensure the strategies, plans or programs under the conditions of this approval are updated on a regular basis, the Proponent may at any time submit revised strategies, plans or programs to the Secretary for approval.</li> <li>With the agreement of the Secretary, the Proponent may prepare any revised strategy, plan or program without undertaking consultation with all parties under the applicable condition of this approval.</li> <li><i>Notes:</i></li> <li><i>While any strategy, plan or program may be submitted on a progressive basis, the Proponent must ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times.</i></li> <li><i>If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the</i></li> </ul>	EMP Review Record as at 23 July 2020	TCM maintains a register of plans required by the project which records the approval date. TCM has submitted a number of revisions of plans during the audit period. All plans reviewed were found to be appropriately approved. Where plans have been submitted to DPIE an approval is outstanding, the Site continues to utilise the last approved plan.	С	

No	Assessment Req	uirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	relationship of this stage to any future stages, and program.	the trigger for updating the strategy, plan or				
20.	The Proponent shall continue to implement the exi apply to any development on site under project ap replaced by an equivalent strategy, plan or program	proval DA-88-4-2005, until they are		Outside audit period	NT	
COMMUN						
21.	By the end of March 2013, unless otherwise agree enter into a planning agreement with Council in ac (a) Division 6 of Part 4 of the EP&A Act; and (b) the terms of the Proponent's offer provided in A	cordance with:		Outside audit period	NT	
SCHED	ULE 3 – ENVIRONMENTAL PERFORMAN	CE CONDITIONS	·	·	· · · ·	
ACQUISIT	TION ON REQUEST					
1.	Upon receiving a written request for acquisition from listed in Table 1, the Proponent shall acquire the lat conditions 8 and 9 of schedule 4. <i>Table 1: Land subject to acquisition upon request</i> Acquisition Basis Noise & Air Noise Notes: • To interpret the locations referred to in Table 1 see th • Properties 43, 44 and 45 also have acquisition rights and/or the existing consent (DA 88-4-2005) for the Tables these properties on an equitable basis with the owner • For the purposes of acquisition under this condition, operated as a single agricultural enterprise should be Where the Proponent and the owner(s) cannot agree	Property ID 44, 45, 49 43, 47 A3, 47 A3, 47 A4, 45, 49 A3, 47 A3, 47 A4, 45, 49 A3, 47 A4, 45, 49 A4, 45, 4	2017-6-2 Briefing Note – Templemore Acquisition Email from Lee Moore (Legal Counsel) confirming settlement on 12 October 2017 Interview with Environment Superintendent	Templemore property was acquired in October 2017. No other requests have been made or are in process.	C	
	should be included, either party may refer the matter decision as to the lands to be included for acquisitior					
	Schedule 4 shall be final.					
ADDITION	AL NOISE AND/OR AIR QUALITY MITIGATION ON	REQUEST				
2.	Upon receiving a written request from the owner of 1, the Proponent shall implement additional noise a (such as double glazing, insulation, air filters, a firs air conditioning) at the residence in consultation wi reasonable and feasible and directed towards redu of the project on the residence. If within 3 months of receiving this request from the cannot agree on the measures to be implemented, implementation of these measures, then either par for resolution.	and/or air quality mitigation measures t flush roof water drainage system and/or th the owner. These measures must be locing the noise and/or air quality impacts e owner, the Proponent and the owner or there is a dispute about the		Not triggered	NT	

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						1	1
No		Assessment Requirement		Reference/ Evidence	Comments	Compliance Status	Recommendations
NOISE AN							
Noise Cri	teria						
3.	<ul> <li>the Kamilaroi Highway overpation</li> <li>Noise is to be measured in address</li> </ul>	does not exceed the criteria in and. Day, Evening & Night LAeq(15 min) 35 se from the mining operations and ss) and rail spurs. cordance with the relevant required ins (also see condition 13)), of the lo not apply if the Proponent has acc or land to generate higher r	Night         LA1 (1 min)         45         the use of private roads (excluding ements, and exemptions (including NSW Industrial Noise Policy.         as an agreement with the noise levels, and the		The following noise exceedance were reported during the audit period: 7/6/19 – monitoring location TN2 on privately owned land. Day time exceedance of 42 dB recorded during quarterly attended noise monitoring. Following the reported exceedance TCM engaged an independent specialist to review the monitoring data and methods. It was concluded that the monitoring location was on the road not at the residence and SLR did not apply a factor accounting for this. No further exceedances have been recorded during subsequent attended noise monitoring events. The incident was reported to DPIE and EPA. DPIE confirmed EPA as the regulating authority. TCM is awaiting a response from EPA.	NC	Comply with direction form EPA with regard to the reported noise exceedance.
Noise Ac	quisition Requirements - Reside	ences		1	1		
4.	If the owner(s) of a privately-ou believe that operational noise t exceeded at the residence, the	rom the project is causing the	criteria in Table 2 to be	Interview with Environment Superintendent	No requests have been received.	NT	

If the owner(s) of a privately-owned residence, that is not listed in Table 1, have reason to	Interview with Environment	No requests have been received.	
believe that operational noise from the project is causing the criteria in Table 2 to be	Superintendent		
exceeded at the residence, the owner(s) can request an independent noise impact			
assessment for the residence. The request shall be made in writing to the Secretary. If the			
Secretary considers that a noise impact assessment is warranted, then the Proponent shall commission the assessment.			
If the noise impact assessment determines that the noise generated by the project causes			
sustained exceedances, or is likely to cause sustained exceedances, of the criteria in Table			
2, the owner(s) can make a written request to the Proponent for one of the following:			
(a) mitigation (such as double glazing, insulation and air conditioning) at the residence in			
consultation with the owner(s). These measures must be reasonable and feasible and			
directed towards reducing the noise impacts of the project on the residence. If within 3			
months of receiving this request from the owner(s), the Proponent and owner(s) cannot			
agree on the measures to be implemented, or there is a dispute about the implementation			
of these measures, then either party may refer the matter to the Secretary for resolution; or			
(b) acquisition of the residence and land in accordance with the procedures in conditions 8 and 9 of Schedule 4.			
Upon receiving a written request from the owner(s), the Proponent must undertake			
whichever option has been requested by the owner(s).			
However, this condition does not apply if the Proponent has an agreement with the owner(s)			
of the relevant residence to generate higher noise levels, and the Proponent has advised			
the Department in writing of the terms of this agreement.			
Notes:			
1. For the purposes of this condition a privately-owned residence is defined as a residence not owned			
by a mining company that: is regularly occupied; or is an existing residence that is not regularly			

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	occupied but for which a valid development consent exists; or is a proposed residence for which a				
	development application has been lodged with the relevant authority prior to the date of this approval.				
	2. For the purposes of acquisition under this condition, parcels of land that are in close proximity and				
	operated as a single agricultural enterprise should be included as part of the land to be acquired.				
	Where the Proponent and the owner(s) cannot agree on whether non-contiguous parcels of land should				
	be included, either party may refer the matter to the Secretary for resolution. The Secretary's decision				
	as to the lands to be included for acquisition under the procedures in conditions 8 and 9 of Schedule 4				
	shall be final.				
	3. The noise assessment must be undertaken by a suitably qualified, experienced and independent				
	person, whose appointment has been approved by the Secretary and include either: a. sufficient				
	monitoring at the affected residence to allow for assessment of the impacts under a range of				
	meteorological conditions (including adverse conditions) likely to be experienced at the residence; or				
	b. sufficient monitoring to allow reliable prediction of the likely impacts under the range of				
	meteorological conditions (including adverse conditions) likely to be experienced at the residence.				
	4. Monitoring should be conducted in accordance with the requirements of the NSW Industrial Noise				
	Policy.				
	5. Where predictions of likely impacts is to be used, either in substitution for, or in conjunction with,				
	direct measurement of noise impacts at the residence, it must be based on sufficient monitoring data to				
	provide a reliable estimate of the impacts (including under adverse meteorological conditions) and be				
	derived using standard noise modelling techniques accepted by the EPA.				
	6. The Proponent shall ensure that the requested noise impact assessment is submitted to the				
	Secretary within 3 months of the Secretary's decision that the assessment was warranted. The				
	Proponent shall also provide a copy of the assessment to the owner(s) of the residence at the same				
	time it is submitted to the Secretary.				
se Ac	quisition Requirements - Land	·		· · · · · ·	
	If the owner(s) of land containing a privately owned residence, which is not listed in Table 1,	Interview with Environmental	No requests for an independent noise impact	NT	

5.	If the owner(s) of land containing a privately owned residence, which is not listed in Table 1,	Interview with Environmental	No requests for an independent noise impact
	have reason to believe that operational noise from the project is causing noise levels to	Superintendent	assessment have been received.
	exceed 40 dB(A) $L_{Aeq(15 min)}$ over more than 25% of that land, the owner(s) can request an		
	independent noise impact assessment for the land. The request shall be made in writing to		
	the Secretary. If the Secretary considers that a noise impact assessment is warranted, then		
	the Proponent shall commission the assessment.		
	If the noise impact assessment determines that the noise generated by the project causes		
	sustained exceedances, or is likely to cause sustained exceedances, of the 40 dBA criteria,		
	the owner(s) can make a written request to the Proponent for acquisition of the residence		
	and land in accordance with the procedures in conditions 8 and 9 of Schedule 4.		
	Upon receiving a written request from the owner(s), the Proponent must purchase the		
	residence and land in accordance with the procedures in conditions 8 and 9 of Schedule 4.		
	However, this condition does not apply if the Proponent has an agreement with the owner(s)		
	of the relevant residence to generate higher noise levels, and the Proponent has advised		
	the Department in writing of the terms of this agreement.		
	Note: The notes to condition 4 of this Schedule also apply to this condition.		

NT	

No	Assessment F	Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Cumulat	ive Noise Criteria					
	generated by the project combined with the noise generated by other mines does not exceed the criteria in Table 3 at any residence on privately-owned land. <i>Table 3: Cumulative noise criteria dB(A) LAeq (period)</i>		Quarterly attended noise monitoring Monthly monitoring reports Complaints register	One reported exceedance of noise criteria as referenced in Condition 3 above. No complaints related to noise have been received during the audit period.	С	
	Land	Day/Evening/Night LAeq (period)				
	All privately-owned land	40				
	(including certain meteorological conditions (also Policy.	ce with the relevant requirements, and exemptions to see condition 13)), of the NSW Industrial Noise operations and the use of private roads (excluding				
Cumulat	ive Noise Acquisition Requirements					
7.	If the owner(s) of a privately-owned residence, believes that the noise limits in Table 3 are beir exceedance is caused by operational noise from (including use of private roads or rail spurs), the impact assessment for the residence. The requi- If the Secretary considers that a noise impact a shall commission the assessment. Where the noise impact assessment determine project combined with the noise from the other sustained exceedances of the criteria in Table 3 request to the Proponent for one of the followin (a) mitigation (such as double glazing, insulatio consultation with the owner(s). These measure directed towards reducing the noise impacts of months of receiving this request from the owne agree on the measures to be implemented, or to of these measures, then either party may refer (b) acquisition of the residence and land in acce and 9 of Schedule 4. Upon receiving a written request from the owne whichever option has been requested by the ow However, this condition does not apply if the Pr of the relevant residence to generate higher no the Department in writing of the terms of this ag The Proponent may seek to recover an equitab mines contributing to the cumulative impact. Ur the proportional contributions should be based to assess relative contribution to the impact. In the Proponent, or one of the contributing mines	In the project and one or more other mines a owner(s) can request an independent noise est shall be made in writing to the Secretary. ssessment is warranted, then the Proponent is that the cumulative noise generated by the mine(s) causes, or is likely to cause, 3, then the owner(s) can make a written g: in and air conditioning) at the residence in s must be reasonable and feasible and the project on the residence. If within 3 r(s), the Proponent and owner(s) cannot here is a dispute about the implementation the matter to the Secretary for resolution; or ordance with the procedures in conditions 8 er(s), the Proponent must undertake wner(s). oponent has an agreement with the owner(s) ise levels, and the Proponent has advised greement. le share of the costs incurred from the other iless otherwise agreed between the mines, on expert analysis of the monitoring results the event of a dispute between the mines	Interview with Environmental Superintendent	No requests have been received during the audit period.	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	Notes:				
	<ol> <li>The notes to condition 4 of this Schedule also apply to this condition.</li> <li>The noise impact assessment shall include assessment of the relative contribution of the mines to</li> </ol>				
	the impact at the residence.				

### **Road Traffic Noise Criteria**

The Proponent, together with the owners of the ensure that the noise generated on public roat not exceed the criteria in Table 4 at any existing Table 4: Road traffic noise criteria dB(A)	ds by the Project and the other mines, does	– measurement done on 12 and 26 June 2020	Noise monitoring is conducted at three locations along the haul road on a six monthly basis. No exceedances in noise criteria have been recorded during the audit period.	NC	Historic NC. No further actior
Land	Day and Evening LAeq (15 hour)		Noise monitoring on the haul road was not carried out in the six month ending December 2017. TCM identified the issue and notified DPIE and conducted		
All privately-owned residences However, these criteria do not apply if the Pro relevant landowner to exceed the criteria, and writing of the terms of this agreement.	60 ponent has a written agreement with the I the Proponent has advised the Department in		the monitoring in January 2018. DPIE issued an official caution on 23 March 2018. Monitoring has been conducted as required during 2018, 2019 and 2020.		
Note: Traffic noise generated by the Project is to be procedures in the NSW Road Noise Policy.	e measured in accordance with the relevant				

### Attenuation of Plant

9.	In the event that the Proponent and the Council or a Government agency, other than the Department, cannot agree on the specification or requirements of this approval, the matter may be referred by either party to the Director-General for resolution, whose determination of the disagreement shall be final and binding on the parties.	Note	Noted	Note	
10.	The Proponent shall: (a) conduct an annual testing program of the plant on site; (b) restore the effectiveness of any attenuation if it is found to be defective; and (c) report on the results of any testing and/or attenuation work within the Annual Review.	Annual Reviews 2017, 2018, 2019 SPL testing conducted 26-28 November 2019, report dated 30 January 2020 Todoroski Air Science Report, 25 March 2020 Interview with Environmental Superintendent	Annual SPL testing is conducted as required and results reported in the Annual Review. New Hitachi trucks have noise attenuation which was tested prior to commission (Todoroski Report). No other plant has noise attenuation.	С	

### **Operating Conditions**

The Proponent shall:	Noise Management Plan	Real time noise monitoring is conducted to support
(a) implement best management practice to minimise all operational, low frequency, road	Letter from DPIE dated 6/6/17	control of operations. Noise monitoring is logged to
and rail traffic noise levels associated with the project;	approving the BTM noise strategy	the Sentinel portal which generates alarms if noise
(b) operate a comprehensive on-site noise management system that uses a combination of	Review of Sentinex records, recorded	levels are exceeded. Audio and visual observations
predictive meteorological forecasting and real-time noise monitoring data to guide the day to	alarms and actions.	form the monitoring stations can be reviewed in the
day planning of mining operations and the implementation of both proactive and reactive		event of an alarm to determine actions in accordance
noise mitigation measures to ensure compliance with the relevant conditions of this		with the TARP.
approval;		Meteorological forecasting is presented at the daily
(c) maintain the effectiveness of noise suppression equipment on plant at all times and		planning meeting and real time monitoring logged in
ensure defective plant is not operationally used until fully repaired;		Sentinex.
(d) ensure that noise attenuated plant is deployed preferentially in locations near to		Noise attenuation is on Hitachi tricks – see above.
sensitive receivers;		The Leard Forest Mining Precinct Noise Strategy has
		been approved.

ю	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(e) minimise the noise impacts of the project during meteorological conditions under which the noise limits in this approval do not apply (see condition 13);		The Boggabri rail spur is not use,		
	(f) ensure that project related trains on the Boggabri spur line only use locomotives that are approved to operate on the NSW rail network in accordance with the noise limits in ARTC's EPL (No. 3142);				
	(g) use its best endeavours to ensure that project-related rolling stock supplied by service providers on the Boggabri rail spur line is designed, constructed and maintained to minimise noise; and				
	(h) co-ordinate the noise management on site with the noise management at other mines within the Leard Forest Mining Precinct, to minimise the cumulative noise impacts of these				
	mines,				
	to the satisfaction of the Secretary.				

### Noise Management Plan

The Proponent shall prepare and implement a Noise Management Plan for the project to	Noise Management Plan, 29	ERM review records of the activation of the TARP	С	
the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with the	December 2014	included in the NMP to very implementation. When a		
EPA, and be submitted to the Secretary for approval by the end of May 2013;	Annual Reviews 2017, 2018, 2019	noise alarm is raised from the monitoring station the		
(b) describe the measures that would be implemented to ensure:	TCM Real Time Monitoring Procedure	OCE records the alarm in a log book. The log records		
<ul> <li>best management practice is being employed;</li> </ul>	Validation report by Todoroski 20/3/20	the time the alarm was received and what action was taken, including any review of audio or cameras at the		
<ul> <li>the noise impacts of the project are minimised during meteorological conditions</li> </ul>	CCC Meeting minutes	monitoring station.		
under which the noise limits in this approval do not apply; and	Interview with Environmental	Results of noise monitoring are provided to the CCC.		
<ul> <li>compliance with the relevant conditions of this approval; (c) describe the proposed noise management system in detail;</li> </ul>	Superintendent	Validation of noise monitoring is undertaken on an		
(d) include a risk/response matrix to codify operational responses to varying levels of risk		annual basis and summarised in the Annual Review.		
resulting from weather conditions and specific mining activities;		The NMP was revised to include the Leard Forest		
(e) include commitments to provide summary reports and specific briefings at CCC		Precinct (BTM) noise strategy in October 2019 and a response was received from DPIE on 3 February 2020. The NMP will be further reviewed following this audit and to incorporate the DDIE feedback		
meetings on issues arising from noise monitoring;				
(f) describe the measures that would be implemented to ensure the noise impacts from the				
operation of the Kamilaroi Highway overpass are minimised as far as practicable;		audit and to incorporate the DPIE feedback.		
(g) include a monitoring program that:				
<ul> <li>uses attended monitoring to evaluate the performance of the project against all noise</li> </ul>				
criteria in this approval, including a minimum of four days attended monitoring per				
quarter at locations agreed to by the Secretary, or more regularly where required;				
<ul> <li>uses real-time monitoring to support the proactive and reactive noise management</li> </ul>				
system on site;				
<ul> <li>includes monitoring of inversion strength at an appropriate sampling rate to determine compliance with noise limits;</li> </ul>				
<ul> <li>evaluates and reports on the effectiveness of the noise management system on site;</li> </ul>				
<ul> <li>provides for the annual validation of the noise model for the project (including the</li> </ul>				
tenth percentile methodology); and				
(h) includes a Leard Forest Mining Precinct Noise Management Strategy, that has been				
prepared in consultation with other coal mines in the Precinct, to minimise the cumulative				
noise impacts of all mines within the Precinct, and includes:				
<ul> <li>a description of the measures that would be implemented to ensure that the noise</li> </ul>				
management of the mines is properly co-ordinated to ensure compliance with the				
relevant noise criteria;				
<ul> <li>a suitable monitoring network for the precinct;</li> </ul>				

No		Assessment	t Requirement		Reference/ Evidence	Comments	Compliance Status	Recommendations
	cumulative noise	dentifying and apportion e impacts for the opera	oning the source/s and o ating mines and other so k and appropriate invest	ources, using the noise				
	Note: The Leard Forest Mining Precinct Noise Management Strategy can be developed in stages and will need to be subject to ongoing review dependent upon the determination and commencement of other mining projects in the area.							
Noise Me	asurement							
13. BLASTIN Blasting	Where conditions in this approval refer to measurement of noise within the context of the NSW Industrial Noise Policy the inversion class to be applied to the project is Class G. However, the Proponent may undertake an investigation to determine whether a proposal for change in this classification could be considered for approval by the Secretary. Any such investigation must be conducted in consultation with the EPA and be conducted by a suitably qualified person whose appointment has been endorsed by the EPA and approved by the Secretary. The report and recommendation must be submitted to the EPA for endorsement prior to submission to the Secretary. If the Secretary is satisfied that the recommendation is reasonable, then the Secretary may amend the inversion class applying to the project under this approval.			broject is Class G. whether a proposal for the Secretary. Any such conducted by a suitably A and approved by the e EPA for endorsement the recommendation is		No request has been made during the audit period.	NT	
14.	The Proponent shall ensure that blasting does not cause any exceedance of the criteria in Table 5.			ance of the criteria in	records 2017-2020 audit period.	ERM has reviewed the blast monitoring records for the audit period. Exceedances of the 115dB criteria have been recorded in each year but are below the 5%	С	
	Location	Airblast     Ground vibration     Allowable     Maules Creek dated 1/5/20 for blass       overpressure     (mm/s)     exceedence     Schedule on 6/5/20       (dB(Lin Peak))     Exceedence     Control of the schedule on 6/5/20	Maules Creek dated 1/5/20 for blast schedule on 6/5/20	allowable exceedance that is reportable. Communication with other mines is conducted by				
	Residence on privately-owned land	120 115	10 5	0% 5% of the total number of blasts		email. The distribution list also includes NSW Forestry. Notification email includes the scheduled time of the blast, location and map with the exclusion zone.		

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(or a limit determined by the structural design methodology in AS 2187.2-2006, or its latest version, to the satisfaction of the Secretary)

over a period of 12 months

0%

All public

infrastructure

C		
С	•	
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No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Blasting	Hours				
15.	The Proponent shall only carry out blasting on the site between 9 am and 5 pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.	Environmental blast monitoring records 2017-2020	Auditor reviewed blast monitoring records, no blasts occurred on Sunday. Time of blast was recorded to be 00:00:00 for approximately 60% of blasts in 2018. Time was not recorded for 4 blast events between 18 and 30 May 2020 and one blast even on 14 July 2020. All other blasts were recorded to be carried out between the hours 9am to 5pm.	C (Obs)	Ensure accurate blast times are recorded (Duplicate finding see EPL)
Blasting	Frequency				
16.	<ul> <li>The Proponent may carry out a maximum of:</li> <li>(a) 1 blast a day; unless an additional blast is required following a blast misfire; and</li> <li>(b) 4 blasts a week, averaged over a calendar year,</li> <li>for the project.</li> <li>This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or to blasts required to ensure the safety of the mine or its workers.</li> </ul>	Environmental blast monitoring records 2017-2020	Blasting has been conducted in accordance with this condition.	С	
	Note: For the purposes of this condition a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the mine.				
Property	Inspections				
17.	If the Proponent receives a written request from the owner of any privately-owned land within 2 kilometres of the approved open-cut pit on site, for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, or to have a previous property inspection report updated, then within 2 months of receiving this request the Proponent shall: (a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties, to: (b) establish the baseline condition of any buildings and/or structures on the land, or update the previous property inspection report; and (c) identify any measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and (d) give the landowner a copy of the new or updated property inspection report. If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Proponent or landowner disagrees with the findings of the independent		Not triggered	NT	

### **Property Investigations**

18.	If any owner of privately-owned land within 2 kilometres of blasting operations, or any other	Not triggered	NT
	landowner nominated by the Secretary, claims that the buildings and/or structures on		
	his/her land have been damaged as a result of blasting on site, then within 2 months of		
	receiving this claim in writing from the landowner, the Proponent shall:		
	(a) commission a suitably qualified, experienced and independent person, whose		
	appointment is acceptable to both parties, to investigate the claim; and		
	(b) give the landowner a copy of the property investigation report.		

7 September 2020

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damages to the satisfaction of the Secretary.				
	If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Proponent or landowner disagrees with the findings of the independent property investigation, either party may refer the matter to the Secretary for resolution.				

**Operating Conditions** 

• • • • • • • •	goonations		
19.	<ul> <li>During mining operations on site, the Proponent shall: <ul> <li>(a) implement best practice blasting management to:</li> <li>protect the safety of people and livestock in the surrounding area;</li> <li>protect public or private infrastructure/property in the surrounding area from any damage;</li> <li>minimise the dust and fume emissions of any blasting; and</li> <li>minimise blasting impacts on heritage items in the vicinity of the site;</li> <li>(b) co-ordinate the timing of blasting on site with the timing of blasting at other mines within the Leard Forest Mining Precinct to minimise the cumulative blasting impacts of the mines; and</li> <li>(c) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site, to the satisfaction of the Secretary.</li> </ul> </li> </ul>	Blast Management Plan, December 2014 Incident register Interview with Environmental Superintendent	<ul> <li>TCM has implemented a Blast Management Plan which complies with this condition.</li> <li>Communication with other mines is conducted by email. The distribution list also includes NSW Forestry. Notification email includes the scheduled time of the blast, location and map with the exclusion zone.</li> <li>Information regarding scheduled blasts is posted on the company website and on a board at the site entrance.</li> <li>TCM failed to notify a landowner for a blast on the 18 January 2018. DPIE was notified and issued a warning letter on 8 March 2018.</li> </ul>
20.	<ul> <li>The Proponent shall not undertake blasting on-site within 500 metres of: <ul> <li>(a) any public road without the approval of Council; or</li> <li>(b) any land outside of the site not owned by the Proponent, unless:</li> <li>the Proponent has a written agreement with the relevant landowner to allow blasting to be carried out closer to the land, and the Proponent has advised the Department in writing of the terms of this agreement; or</li> <li>the Proponent has:</li> <li>demonstrated that the blasting can be carried out closer to the land without compromising the safety of the people or livestock on the land, or damaging the buildings and/or structures on the land; and</li> <li>updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the land, to the satisfaction of the Secretary.</li> </ul> </li> </ul>	Email 8/5/20 for blasting that day WHC-PLN-TAR Road Closure pPan	Council is informed of road closures by email in accordance with the Road Closure Procedure. Notification of blasts is posted on the company website. Blasting has not been carried out within 500 metres of land outside the site not owned by TCM.

### Blast Management Plan

<ul> <li>21. The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be submitted to the Secretary for approval by the end of May 2013;</li> <li>(b) be prepared in consultation with the EPA and interested members of the local community who would potentially be affected by blasting;</li> <li>(c) propose and justify any alternative ground vibration limits for public infrastructure in the vicinity of the site;</li> <li>(d) describe the measures that would be implemented to ensure:</li> </ul>	<b>u</b>	The currently approved Blast Management Plan complies with these conditions. An update of the BMP including the Leard Forest Mining Precinct Blast Management Strategy was submitted to DPIE in 2018. Feedback was provided and the plan resubmitted in October 2019. TCM is awaiting feedback on the plan and will resubmit a further review in September 2020 following completion of this IEA.

NC	Historic NC. No further action
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No		Assessment Requirement		Reference/ Evidence	Comments	Compliance Status	Recommendations
	protocol for blasting with consultation with Council (f) include a specific blast fume of minimised, including risk manag (g) include a monitoring program - compliance with the appli - minimising blast fume em (h) include a Leard Forest Minim prepared in consultation with oth minimise cumulative blasting im Note: The Leard Forest Mining Preco will need to be subject to ongoing re other mining projects in the area.	evant conditions of this approv- nin 500 metres of a public road ; management protocol to demo gement strategies if blast fume n for evaluating blasting perfor icable criteria; and nissions; and g Precinct Blast Management her mines within the Leard For pacts.	s are generated; mance, which includes: Strategy, that has been est Mining Precinct, to can be developed in stages, and				
AIR QUA	LITY AND GREENHOUSE GAS						
Odour				1	1		
22.	Unless otherwise authorised by odours are emitted from the site	-			Not triggered		
Greenhou	ise Gas Emissions						·
23.	The Proponent shall implement release of greenhouse gas emis			TCM Air Quality and Greenhouse Gas Management Plan, 28 Januray 2015	The currently approved AQGHGMP describes the measures to minimise release of greenhouse gases from the project.		
Air Qualit	y Criteria				1		
24.	The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are implemented so that particulate matter emissions generated by the project do not cause exceedances of the criteria in Table 6, Table 7 and Table 8 at any residence on privately-owned land or on more than 25 percent of any privately-owned land. The assessment acknowledges that it may not be reasonable and feasible to prevent exceedance of the PM <sub>10</sub> criteria in Table 6 at property 45 and exceedance of the criteria in Table 7 in year 16 at property 49. (To interpret the property locations referred to see the applicable figure(s) in Appendix 5.) Table 5: Long-term criteria for particulate matter			Annual Reviews 2017, 2018, 2019 Environmental monitoring reports TCM Incident and Exceedance Register	The following exceedances of air quality criteria were reported during the audit period: 2020: Seven exceedances of PM10 recorded January to March 2020. All considered to be extraordinary events. 2019: TCM's HVAS at property 'Coomalgah' measured twenty two (22) exceedances of the 24 hour average limit over 12 months. Investigations showed that all those elevated PM10 levels were not mine		
	Pollutant	Averaging Period	<sup>d</sup> Criterion		related. DPIE acknowledged that there were 18 out of		
	Total suspended particulate (TSP) matter	Annual	a 90 µg/m3		22 exceedances recorded on days that regional air quality alerts were issued by Office of Environment Heritage (OEH) or days of 'extraordinary event'		
	Particulate matter < 10 μm (PM10)	Annual	a 30 µg/m3		therefore advised criterion could be excluded from the annual averaging calculation. It is noted that this decision contradicts the response to the 2018 exceedances detailed below.		

Assessment Requirement				Reference/ Evidence	Comments	Compliance Status	Recommendations	
Table 6: Short-term criteria for particulate matter						2018: TCM received a Warning Letter regarding		
		Averaging Period <sup>d</sup> Criterion			failure 'to adequately calculate long term air quality			
Particulate matter < (PM10)	< 10 µm	24	hour	a 50 µg/m3		impact by excluding fifteen (15) PM10 HVAS results from the 2018 Annual Review because they were determined not to be mine related.		
Table 7: Long-term cr	riteria for c	deposited dust				No exceedances recorded during the audit period		
Pollutant	Avera	aging Period	Maximum increase in deposited dust level	Maximum total deposited dust level		have been determined as mine-related.		
c Deposited dust	Annual	I	b 2 g/m2/month	a 4 g/m2/month				

### Mine-Specific Air Quality Criteria

25.	The Proponent shall ensure than not exceed the criteria listed in than 25 percent of any privately <i>Table 8: Short-term criteria for parti</i>	Table 9 at any residence on pr -owned land, except on proper	ivately-owned land or on more	Annual Reviews 2017, 2018, 2019 Environmental monitoring reports TCM Incident and Exceedance Register	No exceedances recorded during the audit period have been determined as mine-related.
	Pollutant	,			
	Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	50 µg/m3		
	Note: As provided by the EP&A Act, the c an EPL, after the first review of the	•	·		
Air Quality	Acquisition Criteria				

If particulate matter emissions generated by the project exceed the criteria, or contribute to an exceedance of the relevant cumulative criteria, in Table 10, Table 11 or Table 12, at an residence on privately-owned land or on more than 25 percent of any privately-owned land then upon receiving a written request for acquisition from the landowner the Proponent sh acquire the land in accordance with the procedures in conditions 8 and 9 of schedule 4.	No requests have been received in respect of this condition.	NT	
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No		As	sessment I	Requirement			Reference/ Evidence	Comments	Compliance Status	Recommendations
	Table 9: Long term land	acquisition crite	eria for partic	ulate matter						
	Pollutant		Averagin			<sup>d</sup> Criterion				
	Total suspended particulate Annual (TSP) matter		ual							
	Particulate matter < (PM10)	: 10 µm	Ann	ual		<sup>a</sup> 30 µg/m3				
	Table 10: Short term lan	d acquisition cri	riteria for parti	iculate matter						
	Pollutant		Averagin	g period		<sup>d</sup> Criterion				
	Particulate matter < (PM10)	: 10 µm	24 h	our		<sup>a</sup> 150 µg/m3				
	Particulate matter < (PM10)	: 10 µm	24 h	our		<sup>ь</sup> 50 μg/m3				
	Table 11: Long term land	d acquisition cri	iteria for depo	osited dust						
	Pollutant	Averaging	g period	Maximum inc in deposited level		Maximum total deposited dust level				
	<sup>c</sup> Deposited dust	Annual		⊾2 g/m₂/month	1	a 4 g/m2/month				
	a Total impact (ie increm concentrations due to all b Incremental impact (ie c Deposited dust is to be 3580.10.1:2003: Method Matter - Deposited Matter d Excludes extraordinary incidents, or any other a	l other sources), incremental inc e assessed as ir ls for Sampling er - Gravimetric y events such as	); crease in con nsoluble solic and Analysis Method; as bushfires, p	centrations due to ds as defined by S of Ambient Air - prescribed burning	o the proj Standards Determin	ect on its own); Australia, AS/NZS ation of Particulate				
ie-own	ned Land									
	not exceed the criteria mine-owned land (inc (a) the tenant and/or I notification requireme (b) the tenant on proje subject to giving rease assistance with reloca	ented so that a in Table 6, T duding land ow landowner has ents under sch ect-related lan onable notice, ation and source sures such as installed at the	particulate Table 7 and wned by adja s been notifinedule 4 of the nd can terminand the Pro- rcing of alter a air filters, a e residence,	matter emission Table 8 at any acent mines), u ied of any healt his approval; nate the tenanc oponent uses it mative accomm first flush roof if requested by	ns gener occupie nless: h risks in cy agree s best e nodation water dr	ated by the project do d residence on any n accordance with the ment without penalty, ndeavours to provide ainage system and/or	Letter to tenants with attached NSW Health and Minerals Council Mine Dust information sheet and limits on air quality for the project Interview with Environmental Superintendent	Tenants/landowners have been provided with appropriate information in relation to the health risks associated with mine dust. TCM has received no requests for dust mitigation measures and no tenancies have been terminated during the audit period.	С	
	(d) particulate matter landowner of potentia	air quality mor	nitoring is u		form the	tenant and				

27.	The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are implemented so that particulate matter emissions generated by the project do	Letter to tenants with attached NSW Health and Minerals Council Mine	Tenants/landowners have been provided with appropriate information in relation to the health risks
	not exceed the criteria in Table 6, Table 7 and Table 8 at any occupied residence on any	Dust information sheet and limits on	associated with mine dust.
	mine-owned land (including land owned by adjacent mines), unless:	air quality for the project	TCM has received no requests for dust mitigation
	(a) the tenant and/or landowner has been notified of any health risks in accordance with the	Interview with Environmental	measures and no tenancies have been terminated
	notification requirements under schedule 4 of this approval;	Superintendent	during the audit period.
	(b) the tenant on project-related land can terminate the tenancy agreement without penalty,		
	subject to giving reasonable notice, and the Proponent uses its best endeavours to provide		
	assistance with relocation and sourcing of alternative accommodation;		
	(c) air mitigation measures such as air filters, a first flush roof water drainage system and/or		
	air conditioning) are installed at the residence, if requested by the tenant and landowner		
	(where owned by another mine other than the Proponent);		
	(d) particulate matter air quality monitoring is undertaken to inform the tenant and		
	landowner of potential health risks; and		

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(e) monitoring data is presented to the tenant in an appropriate format, for a medical practitioner to assist the tenant in making an informed decision on the health risks associated with occupying the property, to the satisfaction of the Secretary.				

**Operating Conditions** 

The Proponent shall:	Air Quality and Greenhouse Gas	The measures to be employed are described in the	С
(a) implement best practice air quality management practices on site, including all	Management Plan	AQGHGMP.	
reasonable and feasible measures to minimise odour, fume and dust emissions of the	Interview with Environmental	The auditor review real time dust and meteorological	
project;	Superintendent	data available in Sentinex.	
(b) operate a comprehensive air quality management system that uses a combination of	Site observations	There have been no complaints received related to	
predictive meteorological forecasting, predictive and real time air dispersion modelling and	Complaints register	dust since April 2018.	
real-time air quality monitoring data to guide the day-to-day planning of mining operations		The auditor sighted use of the water cart on the haul	
and implementation of both proactive and reactive air quality mitigation measures to ensure		road to control dust.	
compliance with the relevant conditions of this approval;		TCM uses a dust suppressant product where needed	
(c) manage PM <sub>2.5</sub> levels in accordance with any requirements of an EPL;		to control dust from stockpiles and exposed areas.	
(d) minimise the air quality impacts of the project during adverse meteorological conditions			
and extraordinary events (see note d under Table 8);			
(e) minimise any visible air pollution generated by the project;			
(f) minimise the surface disturbance of the site generated by the project; and			
(g) co-ordinate the air quality management on site with the air quality management at other			
mines within the Leard Forest Mining Precinct to minimise the cumulative air quality impacts			
of the mines, to the satisfaction of the Secretary.			

Air Quality and Greenhouse Gas Management Plan

oponent shall prepare and implement an Air Quality and Greenhouse Gas	AQGGMP January 2015	The currently approved AQGHGMP complies with this	С
ement Plan for the project to the satisfaction of the Secretary. This plan must:	Adverse weather condition TARP	condition.	
prepared in consultation with the EPA and be submitted to the Secretary for approval	BTM AQMS May 2017	Air quality index report is discussed at the 9 am	
end of May 2013; cribe the measures that would be implemented to ensure: best practice management is being employed; the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and compliance with the relevant conditions of this approval; cribe the proposed air quality management system; ude a risk/response matrix to codify mine operational responses to varying levels of ulting from weather conditions and specific mining activities; ude commitments to provide summary reports and specific briefings at CCC gs on issues arising from air quality monitoring; de an air quality monitoring program that: • uses a combination of real-time monitors oplementary monitors to evaluate the performance of the project; adequately supports the proactive and reactive air quality management system; includes PM2.5 monitoring; includes monitoring of occupied mine-owned residences and residences on the air quality affected land in Table 1, subject to the agreement of the tenant and/or landowner; evaluates and reports on the effectiveness of the air quality management system;	Daily report from OEH air quality index OCE Log for 3 September 2019, 5 September 2019 and 9 September 2910	<ul> <li>planning meeting to advise of any known regional air quality issues such as bushfires or dust storms.</li> <li>The TARP is activated when wind speed is above a certain speed.</li> <li>The auditor reviewed the OCE logbook for activation of the TARP and noted appropriate actions were taken, including: <ul> <li>Travel speed reduced on 3/9/19</li> <li>Truck speed reduced on 5/9/19</li> <li>work ceased and machines parked up on 9/9/19</li> </ul> </li> </ul>	

	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
V.	includes sufficient random audits of operating responses to real time air quality management systems to determine the ongoing effectiveness of these responses in maintaining the project within the relevant criteria in this Schedule and the requirements of conditions 24 and 25 above.				
vi.	requirements of conditions 24 and 25, above; includes a protocol for determining any exceedences of the relevant conditions in this approval; and				
vii.	systems and processes to ensure that all mines are managed to achieve their air quality criteria;				
viii.	a shared environmental monitoring network and data sharing protocol;				
ix.	control monitoring site(s) to provide real time data on background air quality levels (ie not influenced by mining in the Leard Forest Mining Precinct and representative of regional air quality);				
х.	a shared predictive and real time air dispersion model covering the Leard Forest Mining Precinct to be used for assessment of cumulative impacts, optimising location of the shared real time monitoring network, validation of air predictions and optimising mitigation measures; and				
xi.	procedures for identifying and apportioning the source/s and contribution/s to cumulative air impacts for both mines and other sources, using the air quality and meteorological monitoring network and appropriate investigative tools such as modelling of post incident plume dispersion, dual synchronised monitors and chemical methods of source apportionment (where possible).				
prep	ncludes a Leard Forest Mining Precinct Air Quality Management Strategy that has been bared in consultation with other coal mines in the Precinct to minimise the cumulative air ity impacts of all mines within the Precinct, that includes:				
i.	systems and processes to ensure that all mines are managed to achieve their air quality criteria;				
ii.	a shared environmental monitoring network and data sharing protocol;				
iii.	control monitoring site(s) to provide real time data on background air quality levels (ie not influenced by mining in the Leard Forest Mining Precinct and representative of regional air quality);				
iv.	a shared predictive and real time air dispersion model covering the Leard Forest Mining Precinct to be used for assessment of cumulative impacts, optimising location of the shared real time monitoring network, validation of air predictions and optimising mitigation measures; and				
v.	procedures for identifying and apportioning the source/s and contribution/s to cumulative air impacts for both mines and other sources, using the air quality and meteorological monitoring network and appropriate investigative tools such as modelling of post incident plume dispersion, dual synchronised monitors and chemical methods of source apportionment (where possible).				
Notes	S.				
n	The requirement for regionally based control sites can be further reviewed if a regional air nonitoring network is implemented and operated by the EPA as recommended in the draft Strategic Regional Land Use Plan for New England North West.				
• T a	The Leard Forest Mining Precinct Air Quality Management Strategy can be developed in stages and will need to be subject to ongoing review dependent upon the determination of and commencement of other mining projects in the area.				
	The management plan should be consistent with the EPA's guidance on Best Management Practice reporting and Reactive Particulate Management Strategies.				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
METEORO	DLOGICAL MONITORING				
30.	For the life of the project, the Proponent shall ensure that there is a meteorological station in the vicinity of the site that: (a) complies with the requirements in the <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> guideline; and (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the <i>NSW Industrial Noise Policy</i> , unless a suitable alternative is approved by the Secretary following consultation with the EPA.	Email from EPA dated 23/1/20 re. specifying a 90% data capture rate	TCM operates a meteorological station that is capable of continuous real-time measurements. A previous IEA recorded a non-compliance due to equipment downtime resulting in real-time measurement not being available at all times. The EPA has subsequently confirmed that there is no expectation of 100% data capture and a 90% data capture is acceptable.	С	
OIL AND	WATER				
	Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Proponent is required to obtain the necessary water licences for the project.				
Water Sup	ply				
31.	The Proponent shall ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of mining operations on site to match its available water supply, to the satisfaction of the Secretary.	Water Management Plan, March 2020	<ul> <li>A water balance is included in Section 4 of the WMP.</li> <li>The TCM is covered by four Water Sharing Plans</li> <li>(WSPs) including the following: <ul> <li>Namoi Unregulated and Alluvial (commenced 2012);</li> <li>Upper Namoi and Lower Namoi Regulated River (replaced 2016);</li> <li>NSW Murray-Darling Basin Porous Rock Groundwater (commenced 2012); and</li> <li>Upper and Lower Namoi Groundwater (commenced 2006).</li> </ul> </li> <li>Water is also trucked from other WHC sites as approved through Mod 8 of the Project Approval.</li> </ul>	C	
Compensa	atory Water Supply	'			
32.	The Proponent shall provide a compensatory water supply to any owner of privately-owned land whose water supply is adversely and directly impacted (other than a negligible impact) as a result of the project, in consultation with DPIE Water, and to the satisfaction of the Secretary. The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the project. Equivalent water supply should be provided (at least on an interim basis) within 24 hours of the loss being identified. If the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution. If the Proponent is unable to provide an alternative long-term supply of water, then the Proponent shall provide alternative compensation to the satisfaction of the Secretary.	Interview with Environmental Superintendent	Not triggered	NT	
Surface W	ater Discharges				
33.	The Proponent shall ensure that all surface water discharges from the site comply with the discharge limits (both volume and quality) set for the project in any EPL.		Refer to Table A2 – EPL Compliance		

No	Assessmen	t Requirement	Reference/ Evidence	Comments
Goonbri (	Creek Diversion and Low Permeability Barrie	r – Performance Objectives	1	
34.	The Proponent shall ensure that the project h than predicted in the EA and complies with th satisfaction of the Secretary. <i>Table 12: Goonbri Creek and alluvial aquifer perfor</i>	e performance objectives in Table 13, to the	Interview with Environmental Superintendent	Not triggered. The Goonbri Creek Diversion and Low Permeability have not been implemented during the audit period.
	Feature	Objective		
	Goonbri Creek and the Upper Namoi alluvial aquifer	<ul> <li>No more than negligible environmental consequences to the alluvial aquifer, including:</li> <li>negligible change in groundwater levels;</li> <li>negligible leakage through low permeability barrier;</li> <li>negligible change in groundwater quality; and</li> <li>negligible impact to other groundwater</li> </ul>		
	Goonbri Creek diversion	users.Hydraulically and geomorphologically stable (including the low permeability barrier)Negligible change to off-site flooding characteristics (including flood levels, velocities and flood storage capacity)Riparian vegetation, habitat, energy management and dissipation, bedload transport, biophysical maintenance and pool holding capacity that is the same or better than existed prior to miningRevegetation of the riparian zone focused on establishment of self-sustaining vegetation characteristic of the Bracteate Honeymyrtle community (as proposed in the EA)		
	Low permeability barrier, including associated flood bund	Hydraulically and geomorphologically stable The effectiveness of the Low Permeability Barrier shall be at least 10-8 metres/second Negligible change to off-site flooding characteristics (including flood levels, velocities and flood storage capacity) Provides suitable protection for flood events up to and including the Probable Maximum Flood.		

### Goonbri Creek Diversion and Flood Bund Concept Design Plan

35.	The Proponent shall prepare and implement a Goonbri Creek Diversion and Flood Bund	Interview with Environmental	Not triggered
	Concept Design Plan, to the satisfaction of the Secretary. The plan must:	Superintendent	
	(a) be prepared in consultation with DPIE Water, BCD and the LLS;		
	(b) be submitted to the Secretary for approval by December 2016;		
	(c) set out the vision statement for the creek diversion;		
	(d) assess the surface water and groundwater quality, ecology, hydrological (including		
	flooding) and geomorphic baseline conditions within the creek;		

Compliance Status	Recommendations
NT	
NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(e) set out the construction program for the creek diversion and LPB, describing how the work would be staged, and integrated with mining operations;				
	(f) describe the revegetation program for the creek diversion and the use of a range of suitable native species;				
	(g) establish the water quality, ecology, hydrological (including flooding) and geomorphic performance and completion criteria for the creek diversion and LPB based on the assessment of baseline conditions; and				
	(h) be revised in consultation with DPIE Water, BCD and the LLS, and resubmitted for approval by the Secretary in response to the findings of the detailed technical design required in condition 36 and the Monitoring and Management Plan in condition 38.				

### Goonbri Creek Diversion and Low Permeability Barrier – Design and Construction

	n creek Diversion and Low Permeability Barrier – Design and Construction			
6.	The Proponent shall design the Goonbri Creek diversion and LPB to the satisfaction of DPIE Water and the Secretary. The detailed designs must:	Interview with Environmental Superintendent	Not triggered	NT
	(a) be designed by a suitably qualified and experienced expert/s;			
	(b) be endorsed by DPIE Water and approved by the Secretary prior to the commencement of any works or construction on the Goonbri Creek diversion and LPB;			
	(c) be generally in accordance with the conceptual designs in the EA (and depicted in Appendix 6), and applicable Australian Standards (including AS 3798–2007);			
	(d) include detailed design, construction and engineering specifications, performance criteria and completion criteria;			
	(e) demonstrate that the design would achieve the relevant performance objectives and criteria; and			
	(f) demonstrate the LPB design would remain effective over an appropriate lifespan and would withstand mining operations, geological and weather events, decay and corrosive attack – including biological attack.			
7.	The Proponent shall:	Interview with Environmental	Not triggered	NT
	(a) construct the Goonbri Creek diversion and LPB prior to undertaking any mining operations within 200 metres of the Goonbri Creek alluvium, and at least 5 years prior to the planned mining in the alluvium; and	Superintendent		
	(b) within 2 months of the construction of the Goonbri Creek diversion and LPB, submit an as-executed report to the Secretary and DPIE Water, certified by a practising engineer, confirming that the diversion and barrier have been constructed:			
	<ul> <li>in accordance with the concept design in the EA, applicable Australian Standards (including AS 3798-2007) and the approved design (see condition 36 above); and</li> </ul>			
	<ul> <li>in a manner that achieves the performance objectives in Table 13.</li> </ul>			
	Notes:			
	<ul> <li>The Goonbri Creek alluvium, diversion, conceptual low permeability barrier and flood bunds are shown in Appendix 6.</li> </ul>			
	<ul> <li>The diversion and low permeability barrier may be constructed on a staged basis. In this case, the reports required under conditions 36 and 37 shall be submitted for each stage.</li> </ul>			
Goonbr	ri Creek Diversion and Low Permeability Barrier – Monitoring and Management Plan	1	1	I
38.	The Proponent shall prepare and implement a Goonbri Creek Diversion and Low Permeability Barrier Monitoring and Management Plan to the satisfaction of the DPIE Water and the Secretary. The plan must: (a) be prepared by a suitably gualified and experienced	Interview with Environmental Superintendent	Not triggered	NT

38.	The Proponent shall prepare and implement a Goonbri Creek Diversion and Low	Interview with Environmental	Not triggered
	Permeability Barrier Monitoring and Management Plan to the satisfaction of the DPIE Water	Superintendent	
	and the Secretary. The plan must: (a) be prepared by a suitably qualified and experienced		
	expert/s;		

7 September 2020

10	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(b) be endorsed by the DPIE Water and approved to the Secretary prior to commencement of any works or construction on the Goonbri Creek diversion and LPB;				
	<ul> <li>(c) describe the monitoring and maintenance procedures to be implemented and the scheduling of these procedures;</li> </ul>				
	(d) demonstrate the monitoring system would be capable of timely detection of any failure or deficiency in the LPB and any impacts on Goonbri Creek and its associated alluvium;				
	(e) describe the contingency measures that would be implemented in the event of a failure or deficiency in the LPB, or other impact on Goonbri Creek and its associated alluvium; and				
	(f) identify the entity that would take responsibility for the future liabilities and costs associated with the long-term monitoring and maintenance of the LPB, flood bund, void and				
	pit lake, and demonstrate that this entity's security and finances would be assured in the long term.				

### Water Management Plan

The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Secretary. This plan must:	TCM Water Management Plan, March 2020	The currently approved Water Management Plan complies with this condition.	C
(a) be prepared in consultation with BCD , DPIE Water and LLS, by suitably qualified and	BTM Complex Water Strategy June	The BTM Complex Water Strategy was approved on	
experienced person/s whose appointment has been approved by the Secretary,	2019	14 June 2019 and incorporated into the TCM WMP.	
(b) be submitted to the Secretary for approval by the end of May 2013; and	Letter of approval for BTM Water		
(c) in addition to the standard requirements for management plans (see condition 3 of	Strategy dated 14 June 2019	The Auditor reviewed records of dam inspections and	
schedule 5), include a:	Dam inspection record 24 January	confirms these are undertaken in accordance with the	
(i) <u>Site Water Balance</u> , that includes:	2020	WMP. Any remedial works are discussed with the	
details of:	Groundwater monitoring records	Production Supervisor and escalate to INX reporting	
<ul> <li>sources and security of water supply, including contingency for future reporting periods, incorporating commitments for minimising trucking of off-site water as</li> </ul>	Quarterly Surface water monitoring results spreadsheet	database.	
identified in MOD8;	OCE Dam inspection reports	A review of the Site's dams has recently been	
ii. water use and management on site;	CCC meeting minutes	completed by Aurecon. Recommended improvements	
iii. any off-site water discharges;		to be implemented include:	
<ul> <li>iv. reporting procedures, including the preparation of a site water balance for each calendar year;</li> </ul>		- Weekly checklist for completion by dewatering team	
<ul> <li>a program to validate the surface water model, including monitoring discharge volumes from the site and comparison of monitoring results with modelled predictions; and</li> </ul>		<ul> <li>Individual training for those who complete dam inspections</li> </ul>	
<ul> <li>describes the measures that would be implemented to minimise clean water use</li> </ul>		Groundwater monitoring is undertaken in accordance	
on site;		with the WMP. Water level is measured every	
(ii) Surface Water Management Plan, that includes:		quarter and a full suite of criteria including pH, EC,	
detailed baseline data on surface water flows and quality in the water-bodies that		temperature on a six monthly basis.	
could potentially be affected by the project;		All monitoring is presented and discussed with CCC	
<ul> <li>detailed baseline data on soils within the irrigation area;</li> </ul>		members and reported in the Annual Review.	
<ul> <li>detailed baseline data on hydrology across the downstream drainage system of the Namoi River floodplain from the mine site to the Namoi River, including Barbers Lagoon and The Slush Holes;</li> </ul>		Quarterly surface water monitoring is undertaken when there is flow in the Creeks.	
<ul> <li>detailed description of the water management system on site, including the:</li> </ul>			
- clean water diversion systems;			
<ul> <li>erosion and sediment controls (mine water system);</li> </ul>			
<ul> <li>mine water management systems including irrigation areas;</li> <li>discharge limits in accordance with EPL requirements; and</li> </ul>			

lo	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	- water storages;				
	<ul> <li>detailed plans, including design objectives and performance criteria for:</li> </ul>				
	<ul> <li>design and management of final voids;</li> </ul>				
	<ul> <li>design and management for the emplacement of reject materials, sodic and</li> </ul>				
	dispersible soils and acid or sulphate generating materials;				
	<ul> <li>the Goonbri Creek diversion and low permeability barrier;</li> </ul>				
	<ul> <li>reinstatement of drainage lines on the rehabilitated areas of the site; and</li> </ul>				
	- control of any potential water pollution from the rehabilitated areas of the site;				
	<ul> <li>performance criteria for the following, including trigger levels for investigating</li> </ul>				
	any potentially adverse impacts associated with the project:				
	- the water management system;				
	- soils within the irrigation area;				
	- downstream surface water quality;				
	- downstream flooding impacts, including flood impacts due to the flood bunds				
	required for the project; and				
	- stream and riparian vegetation health, including the Namoi River and its				
	tributaries including Barbers Lagoon and The Slush Holes;				
	a program to monitor and assess:				
	<ul> <li>the effectiveness of the water management system;</li> </ul>				
	- soils within the irrigation area;				
	<ul> <li>the effectiveness of the Goonbri Creek diversion and flood bunds (see conditions 34-38);</li> </ul>				
	- surface water flows and quality in the watercourses that could be affected by				
	the project; and				
	- downstream flooding impacts;				
	<ul> <li>reporting procedures for the results of the monitoring program; and</li> </ul>				
	<ul> <li>a plan to respond to any exceedences of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project;</li> </ul>				
(	(iii) Groundwater Management Plan, that includes:				
	• detailed baseline data of groundwater levels, yield and quality in the region, and				
	privately-owned groundwater bores including a detailed survey/schedule of				
	groundwater dependent ecosystems (including stygo-fauna), that could be affected by the project;				
	<ul> <li>detailed plans, including design objectives and performance criteria, for the design and management of:</li> </ul>				
	- the proposed final void; and				
	- coal reject and potential acid forming material emplacement;				
	<ul> <li>groundwater assessment criteria including trigger levels for investigating any</li> </ul>				
	potentially adverse groundwater impacts;				
	a program to monitor and assess:				
	- groundwater inflows to the open cut mining operations;				
	- the effectiveness of the LPB;				
	- the seepage/leachate from the LPB, water storages, emplacements and the				
	final void;				
	<ul> <li>interconnectivity between the alluvial and bedrock aquifers;</li> </ul>				
	<ul> <li>background changes in groundwater yield/quality against mine-induced</li> </ul>				

	Assessment Requirement	Reference/ Evidence	Comments
	changes;		
	- the impacts of the project on:		
	<ul> <li>regional and local (including alluvial) aquifers;</li> </ul>		
	<ul> <li>groundwater supply of potentially affected landowners;</li> </ul>		
	<ul> <li>groundwater dependent ecosystems (including potential impacts on stygo- fauna) and riparian vegetation;</li> </ul>		
	a program to validate the groundwater model for the project, including an		
	independent review of the model every 3 years, and comparison of monitoring results with modelled predictions; and		
	a plan to respond to any exceedences of the performance criteria; and		
	<u>Leard Forest Mining Precinct Water Management Strategy, that has been</u> prepared in consultation with other mines within the precinct to:		
	- minimise the cumulative water quality impacts of the mines;		
	<ul> <li>review opportunities for water sharing/water transfers between mines;</li> </ul>		
	- co-ordinate water quality monitoring programs as far as practicable;		
	<ul> <li>undertake joint investigations/studies in relation to complaints/exceedences of trigger levels where cumulative impacts are considered likely; and</li> </ul>		
	<ul> <li>co-ordinate modelling programs for validation, re-calibration and re-running of the groundwater and surface water models using approved mine operation plans.</li> </ul>		
Λ	Note: The Leard Forest Mining Precinct Water Management Strategy can be developed in stages		
a	and will need to be subject to ongoing review, dependent upon the determination of and		
c	commencement of other mining projects in the area.		

# Biodiversity Offset Strategy

•	nplement the biodiversity offset strategy d 14 and shown conceptually in Appendix 7		TCM Biodiversity Management Plan 2015 Regional BTM Biodiversity Offset Strategy 2017	Biodiversity Management Plan which states that the Willeroi offset area is 1,660 ha.		
Table 13: Summary of the	e biodiversity offset strategy					
Area	Offset Type	Minimum Size (hectares)	TCM Mine Site Rehabilitation Management Plan, March 2020	The MSRP describes the on-site rehabilitation requirements including the minimum size and		
	Existing native vegetation to be enhanced, and additional native			vegetation species to be established.		
Willeroi Offset Area	vegetation to be established with the restoration of at least 193 ha of Box	1,000				
	Native woodland vegetation					
Rehabilitation Area	communities to be re-established,	752				
Note: For the purposes of	of this approval Box Gum Woodland refers to	the EEC listed as White Box				
Yellow Box Blakely's Red	Gum Woodland under the TSC Act, and the CE	EC listed as White Box Yellow				
Box Blakely's Red Gum	Grassy Woodland and Derived Native Grassl	ands under the EPBC Act, or				
similar EEC as may be up	odated from time to time.					

Compliance Status	Recommendations
0	
С	

		1	
No	Assessment Requirement	Reference/ Evidence	Comments
Leard Fo	orest Mining Precinct Regional Biodiversity Strategy		
41.	5. The Proponent shall contribute to the funding and preparation of the Leard Ford Mining Precinct Regional Biodiversity Strategy, as required under the approva for the Boggabri coal mine and Maules Creek coal mine, to the satisfaction of t Secretary.	als Strategy August 2017 approved by	Preparation of the strategy was assumed by NSW DP&E as evidenced in Section 1.3 of the Strategy report.
	Notes:		
	<ul> <li>The approvals for the Boggabri coal mine and Maules Creek coal mine require the proponent of the mines in the Leard Forest mining precinct to prepare the regional biodiversity strategy in stages, including:         <ul> <li>Stage 1 Scoping Stage, by the end of January 2013;</li> <li>Stage 2 Strategy Development Stage, by the end of January 2014; and</li> <li>Stage 3 Strategy Review Stage, by the end of December 2018.</li> </ul> </li> <li>The strategy is required to be prepared in collaboration with a working group comprising relevant government agencies and the Leard Forest mining precinct mines, and chaired by an independent person.</li> <li>Funding of the strategy should be based on predicted clearing of native vegetation for the the projects within the Leard Forest Mining Precinct. Based on the predicted clearing of 1,385 h 54% from Maules Creek (clearing of 2,078ha) and 10% from Tarrawonga (clearing of 397 h This funding arrangement can be further refined in the Stage 1 Scoping Stage.</li> </ul>	n 3 n ree ts, a),	
Revised	Biodiversity Offset Strategy	1	
42.	Within 6 months of the approval of Stage 2 of the Leard Forest Mining Precinct Regional Biodiversity Strategy the Proponent shall review, and if necessary revise, the biodiversity offset strategy for the project to the satisfaction of the Secretary. The review/revision must:		The Biodiversity Management Plan has been revised and submitted several times since 2017 including revision to incorporate the BTM Regional Strategy. The Plan was last submitted on 16 June 2020. TCM

must:	submission of revised plans	The Plan was last submitted on 16 June 2020.	TCN
(a) be prepared in consultation with BCD, LLS, Forests NSW, the CCC, DPIE Water and	TCM Environmental Management Plan	is awaiting feedback on the revised plan.	
DoEE;	Review Record		
(b) not reduce the size or quality of the offset area; and	Interview with Environmental		
(c) be consistent (as far as is possible) with the recommendations and objectives of the	Superintendent		

### **Threatened Species** 43. For the White Box - Yellow Box - Blakely's Red Gum Grassy Woodland TCM Biodiversity Management Plan Verified by previous audit Endangered Ecological Community the Proponent shall: 2015 (a) ensure that the Biodiversity Offset Strategy and site Rehabilitation Strategy is focused TCM Box-Gum Woodland EEC on protection rehabilitation, re-establishment and long-term maintenance of viable Implementation Plan, January 2015 stands of this community; (b) investigate in consultation with BCD and the LLS, all factors likely to enhance or impede the effective long term restoration of degraded remnants of this EEC in offset areas or regeneration of this EEC on disturbed areas (both offset areas and the site); (c) within 24 months of the date of this approval (and if possible in conjunction with Stage 2 of the Leard Forest Mining Precinct Regional Biodiversity Strategy), submit a report of this investigation and provide an implementation plan to maximise the prospects for rehabilitation and regeneration of this EEC on the offset areas and the site, for approval by the Secretary; and (d) incorporate the approved implementation plan into the revised Biodiversity

Leard Forest Mining Precinct Regional Biodiversity Strategy.

Compliance Status	Recommendations
N/A	
С	
С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	Management Plan, required under condition 48.				
14.	For all threatened species on site, the Proponent shall ensure that the Biodiversity Offset Strategy and Rehabilitation Strategy are focused on protection, rehabilitation and long- term maintenance of viable stands of suitable habitat for these species.	TCM Biodiversity Management Plan 2015 TCM Mine Site Rehabilitation Management Plan, March 2020	The BMP and MSRP aim to protect threatened species and provide adequate viable long term habitat for such species.	С	
5.	<ul> <li>The Proponent shall:</li> <li>(a) investigate, in consultation with BCD and the LLS, all factors likely to enhance or impede the effective long term provision of suitable habitat(s) for the following species: Speckled Warbler, Brown Treecreeper, Grey-crowned Babbler, Hooded Robin, Varied Sittella, Turquoise Parrot, Masked Owl, Yellow-bellied Sheath Tail Bat and Squirrel Glider;</li> </ul>		Completed outside the audit period	NT	
	<ul> <li>(b) within 12 months of the date of this approval (and if possible, in conjunction with Stage 2 of the Leard Forest Mining Precinct Regional Biodiversity Strategy), submit a report of this investigation and provide an implementation plan to ensure delivery of suitable areas of viable habitat for the species included in (a) above, for approval by the Secretary; and</li> <li>(c) incorporate the approved implementation plan into the revised Biodiversity Management Plan, required under condition 48.</li> </ul>				
ong Tei	rm Security of Offset				
6.	<ul> <li>The Proponent shall make suitable arrangements to provide appropriate long-term security for the offset areas:</li> <li>(a) for the Willeroi Offset Area the long-term security shall be provided by way of:</li> <li>the Proponent entering into a conservation agreement or agreements pursuant to section 69B of the <i>National Parks and Wildlife Act 1974</i>, recording the obligations assumed by the Proponent under the conditions of this approval in relation to these</li> </ul>	Email from WHC to DPIE dated 5 December 2018 and response dated 10 December 2018	Correspondence with the Department states that Conservation Agreements for securing offset areas have been lodged. At this time the Biodiversity Conservation Trust could not process the applications before end of December 2019. Correspondence also indicates that negotiations with National Parks and	С	
	<ul> <li>offset areas, and registering the agreement(s) pursuant to section 69F of the National Parks and Wildlife Act 1974; or</li> <li>a tenure of higher conservation status such as a National Park, or Nature Reserve,</li> </ul>	Whitehaven security bond 25/6/20	Wildlife Service raging transfer of land.		
	under the National Parks and Wildlife Act 1974,				
	<ul> <li>The conservation agreement(s) must be registered by the end of December 2013 unless agreed otherwise by the Secretary after consultation with BCD. The conservation agreements must remain in force in perpetuity; and</li> </ul>				
	<ul> <li>(b) by the end of December 2030 unless otherwise agreed by the Secretary, for the woodland to be established in the Rehabilitation Area, as identified in Table 14, to the satisfaction of the Secretary.</li> </ul>				
Biodiver	sity Management Plan	·		· · ·	
47.	<ul> <li>The Proponent shall prepare and implement a Biodiversity Management Plan for the project to the satisfaction of the Secretary. This plan must:</li> <li>(a) be prepared in consultation with BCD, DoEE, Forests NSW, the CCC, DPIE Water Catchments and Lands and the LLS, and be submitted to the Secretary for approval by the end of May2013;</li> </ul>	TCM Biodiversity Management Plan 2015	The approved Biodiversity Management Plan meets the requirements of this condition.	С	
	<ul> <li>(b) describe the short, medium, and long term measures that would be implemented to:</li> <li>manage the remnant vegetation and habitat on the site and in the offset area; and</li> <li>implement the biodiversity offset strategy, including detailed performance and completion criteria;</li> </ul>				
	<ul> <li>(c) include detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy, and triggering remedial action (if necessary);</li> </ul>				

No		Assessment Requirement	Reference/ Evidence	Comments	
	(d)	include a detailed description of the measures that would be implemented for:			t
	(-)	<ul> <li>enhancing the quality of existing vegetation and fauna habitat;</li> </ul>			
		<ul> <li>restoring native vegetation and fauna habitat on the biodiversity offset area and rehabilitation area through focusing on assisted natural regeneration, targeted vegetation establishment and the introduction of naturally scarce fauna habitat features;</li> </ul>			
		<ul> <li>maximising the salvage of resources within the approved disturbance area – including vegetative, top and sub soils and cultural heritage resources – for beneficial reuse in the enhancement of the biodiversity offset area or rehabilitation area;</li> </ul>			
		<ul> <li>collecting and propagating seed;</li> </ul>			
		<ul> <li>minimising the impacts on fauna on site, including undertaking pre-clearance surveys;</li> </ul>			
		<ul> <li>managing any potential conflicts between the proposed restoration works in the biodiversity offset area and any Aboriginal heritage values (both cultural and archaeological);</li> </ul>			
		<ul> <li>managing salinity;</li> </ul>			
		<ul> <li>controlling weeds and feral pests;</li> </ul>			
		controlling erosion;			
		controlling access; and			
	(0)	<ul> <li>managing bushfire risk; include a seasonally-based program to monitor and report on the effectiveness of</li> </ul>			
	(e)	these measures, and progress against the detailed performance and completion criteria;			
	(f)	identify the potential risks to the successful implementation of the biodiversity offset strategy, and include a description of the contingency measures that would be implemented to mitigate against these risks; and			
	(g)	include details of who would be responsible for monitoring, reviewing, and implementing the plan.			
	Note:	The Biodiversity Management Plan and Rehabilitation Management Plan need to be			
	subst	tantially integrated for achieving biodiversity objectives for the rehabilitated mine-site.			
48.	within Biodi	Proponent shall review and if necessary revise the Biodiversity Management Plan n 6 months of the completion of Stage 2 of the Leard Forest Mining Precinct Regional iversity Strategy, to the satisfaction of the Secretary. The review/revision must: be prepared in consultation with BCD, DoEE, Forests NSW, the CCC, DPIE Water	TCM Biodiversity Management Plan 2015 Regional BTM Biodiversity Offset Strategy September 2017	The Site BMP was reviewed and resubmitted in February 2018, October 2018, December 2019 and May 2020.	
	(a)	and the LLS;	Strategy September 2017		
	(b)	be consistent with the findings of Leard Forest Mining Precinct Regional Biodiversity Strategy; and			
	(c)	include any implementation plans arising from the studies required under conditions 43 and 45 of this approval.			
Conserv	ation Bo	ond			
49.	with	ne end of May 2013, the Proponent shall lodge a Conservation and Biodiversity Bond the Department to ensure that the biodiversity offset strategy is implemented in rdance with the performance and completion criteria of the Biodiversity Management	Email to Department on 22 July 2020 from Group Manager Approvals and Environment	Revised security bond submitted 27 July 2020	
		. The sum of the bond shall be determined by:			

Compliance Status	Recommendations
С	
С	

Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
acquisition costs); and				
(b) employing a suitably qualified quantity surveyor to verify the calculated costs, to the satisfaction of the Secretary.				
If the offset strategy is completed generally in accordance with the completion criteria in				
the Biodiversity Management Plan to the satisfaction of the Secretary, the Secretary will release the bond.				
If the offset strategy is not completed generally in accordance with the completion criteria in				
the Biodiversity Management Plan, the Secretary will call in all, or part of, the conservation				
bond, and arrange for the satisfactory completion of the relevant works.				
With the agreement of the Secretary, this bond may be combined with rehabilitation				
security deposit administered by MEG.				
Notes:				
Alternative funding arrangements for long term management of the Biodiversity Offset Strategy,				
such as provision of capital and management funding as agreed by BCD as part of a Biobanking				
Agreement or transfer to conservation reserve estate can be used to reduce the liability of the				
conservation and biodiversity bond.				
The sum of the bond may be reviewed in conjunction with any revision to the biodiversity offset				
strategy.				

### Independent Biodiversity Audit

By the end of June 2014 and every 3 years thereafter, unless both the Secretary and BCD agree to a different timeframe, the Proponent shall commission suitably qualified, experienced and independent person/s, whose appointment has been approved by the Secretary, to undertake an audit of the revegetation of the rehabilitation area and management and restoration within the Biodiversity Offset Strategy areas to the	Refer to Biodiversity Audit Report
satisfaction of the Secretary. This audit must:	
(a) include consultation with BCD, LLS, DPIE Water, DoEE, CCC and MEG;	
<ul> <li>(b) assess the performance of the revegetation in the rehabilitation area completed to date (and the Goonbri Creek Diversion, once commenced) against the completion criteria in the Rehabilitation Management Plan;</li> </ul>	
<ul> <li>(c) assess the performance of management and restoration in the off-site Biodiversity Offset Strategy areas completed to date against the completion criteria in the Biodiversity Management Plan;</li> </ul>	
<ul> <li>(d) identify any measures that should be implemented to improve the performance of rehabilitation, management and restoration within the rehabilitation and biodiversity offset areas; and</li> </ul>	
<ul> <li>(e) identify any additional measures that should be applied in the establishment of native vegetation, including riparian vegetation around the realigned Goonbri Creek, both before and after the realignment is undertaken;</li> </ul>	
(f) if the completion criteria have not been met, or are not adequately trending towards being met, determine the likely ecological value of the rehabilitation and restoration once completed, and recommend additional measures to augment the Biodiversity Offset Strategy to ensure that it adequately offsets the project's impacts on biodiversity.	
If the audit recommends the implementation of additional measures to augment the Biodiversity Offset Strategy in accordance with (e) above, then within 6 months of the completion of the audit the Proponent shall revise the Biodiversity Offset Strategy, in consultation with the Department, BCD and DoEE, and to the satisfaction of the Secretary.	

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No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
ERITAG	E				
boriginal	Heritage Conservation Strategy				
1.	<ul> <li>The Proponent shall prepare and implement an Aboriginal Heritage Conservation Strategy for the project and the Biodiversity Offset Strategy areas to the satisfaction of the Secretary. This Strategy must enhance and conserve the Aboriginal cultural heritage values (both cultural and archaeological) and provide for their long-term protection and management. The Strategy must:</li> <li>(a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;</li> <li>(b) be prepared in consultation with BCD, the local Aboriginal community and other mines within the Leard Forest Mining Precinct, and submitted to the Secretary for approval within 12 months from the date of project approval;</li> <li>(c) identify the Aboriginal cultural heritage values of the Biodiversity Offset Strategy areas;</li> <li>(d) identify areas of high Aboriginal cultural heritage significance within both the site and the Leard Forest Mining Precinct;</li> <li>(e) identify a range of options for enhancing and conserving Aboriginal cultural heritage values, with specific consideration of the potential for the long-term protection and management of significant sites within either the site, the Biodiversity Offset Strategy areas or other lands within the Leard Forest Mining Precinct identified as having high cultural heritage significance to the Aboriginal community; and</li> <li>(f) consider cumulative impacts and potential for developing joint initiatives with other mines within the Leard Forest Mining Precinct for enhancing and conserving Aboriginal cultural heritage significant and within the Leard Forest Mining Precinct for enhancing and conserving Aboriginal cultural heritage significant sites within either the site, the Biodiversity Offset Strategy areas or other lands within the Leard Forest Mining Precinct identified as having high cultural heritage significance to the Aboriginal community; and</li> </ul>	TCM Aboriginal Heritage Conservation Strategy, September 2017	The currently approved AHCS meets the requirements of this condition. The AHCS was approved by DPIE on 10 November 2017. The AHCS was prepared by University of Queensland and approved by DPIE on 20 January 2016	C	
ritage I	Management Plan				
	<ul> <li>The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must:</li> <li>(a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;</li> <li>(b) be prepared in consultation with BCD and local Aboriginal stakeholders (in relation to the management of Aboriginal heritage values);</li> <li>(c) be submitted to the Secretary for approval prior to undertaking any activities that may impact heritage items or sites, unless the Secretary agrees otherwise;</li> <li>(d) include the following for the management of Aboriginal cultural heritage: <ul> <li>a detailed archaeological salvage program for Aboriginal sites/objects within the project disturbance area, including methodology and procedures/protocols for: <ul> <li>sub-surface testing;</li> <li>staged salvage, based on anticipated mine planning;</li> <li>pre-disturbance monitoring;</li> <li>site assessment and reporting;</li> <li>research objectives to inform knowledge of Aboriginal occupation;</li> <li>protection, storage and management of salvaged Aboriginal objects;</li> <li>addressing relevant statutory requirements under the <i>National Parks and Wildlife Act 1974</i>; and</li> </ul> </li> </ul></li></ul>	TCM Heritage Management Plan, 2014	The current HMP was approved prior to the audit period.	NT	

- long term protection of salvaged Aboriginal objects;
- a description of the measures that would be implemented for:

### TABLE A1 - PROJECT APPROVAL Compliance with Project Approval 11\_0047

No	Assessment Requirement	Reference/	Comments	Compliance	Recommendations
		Evidence		Status	
	<ul> <li>protecting, monitoring and managing Aboriginal sites outside the project disturbance area;</li> </ul>				
	<ul> <li>maintaining and managing reasonable access for Aboriginal stakeholders to cultural heritage items on site and in the biodiversity offset area;</li> </ul>				
	<ul> <li>managing the discovery of any human remains or previously unidentified Aboriginal objects on site, including (in the case of human remains) stop work provisions and notification protocols;</li> </ul>				
	<ul> <li>ongoing consultation with the local Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage both on-site and in the biodiversity offset area;</li> </ul>				
	<ul> <li>ensuring any workers on site receive suitable heritage inductions prior to carrying out any activities which may disturb Aboriginal sites, and that suitable records are kept of these inductions;</li> </ul>				
	(e) include the following for the management of historic heritage:				
	<ul> <li>a description of the measures that would be implemented for:</li> </ul>				
	<ul> <li>managing the discovery of human remains or previously unidentified historic heritage items at the site, including (in the case of human remains) stop work provisions and notification protocols; and</li> <li>ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and ensure that suitable records of these</li> </ul>				
	inductions are kept.				
	Note: The Department acknowledges that the initial Heritage Management Plan may not include a				
	detailed plan for the implementation of the Aboriginal Heritage Conservation Strategy. If this occurs,				
	the Proponent will be required to update the plan as soon as practicable following the Secretary's approval of the Aboriginal Heritage Conservation Strategy.				
NSPO	DRT				
dworl	ks				
	The Proponent shall:	No	t triggered	NT	
	<ul> <li>(a) construct the Goonbri Road realignments and associated mine access road intersection, Goonbri Road/private coal haulage road intersection and the Goonbri Road/Dripping Rock Road/Blair Athol Lane intersection as shown conceptually in the</li> </ul>				

Roadwork	5
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53.	The Proponent shall:	Not triggered
	<ul> <li>(a) construct the Goonbri Road realignments and associated mine access road intersection, Goonbri Road/private coal haulage road intersection and the Goonbri Road/Dripping Rock Road/Blair Athol Lane intersection as shown conceptually in the EA; and</li> </ul>	
	(b) install appropriate advance warning signs and lighting on Goonbri Road, the private coal haulage road at the intersection of the Northern Site Access Road, to the satisfaction of Council.	
	The road realignments and associated intersection upgrades shall be undertaken:	
	<ul> <li>to a bitumen sealed standard, unless otherwise agreed by Council; and</li> </ul>	
	<ul> <li>prior to any project works occurring within 25 metres of the existing Goonbri Road alignment, or on the southern/eastern side of the existing road alignment.</li> </ul>	
	Note: The road upgrade works may be undertaken in stages, with the agreement of Council.	

Coal Transport 54. Whilst coal transport by road is permitted under this approval, the Proponent shall ensure TCM Traffic Management Plan The TCM Traffic Management Plan contains the that: requirements for operating in the vicinity of the school Master Services Agreement for Supply bus stop and bus. These conditions are included in (a) trucks travelling to and from the site do not exceed 40 kilometres per hour in the vicinity of Road Haulage Services between of the school bus when it is operating near school bus stops along the approved the NSA with Bis Industries.

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<ul> <li>The Propenent shall prepare and implement a revised Traffic Management Plan for the Project, to the satisfaction of the Secretary. This plan must:</li> <li>(e) be prepared in consultation with RMS, Gunnedah Shire Council, Narabi Shire Council and the Rocgien and Vickery coal mines;</li> <li>(f) include a program for implementing Whitehaven's commitments in the EA;</li> <li>(g) include transport protocols that describe control measures for coal haulage:</li> <li>(h) the transport protocols that describe control measures for coal haulage;</li> <li>(h) the transport protocols that describe control measures for coal haulage;</li> <li>(h) the transport protocols;</li> <li>(h) the transport protocols;</li> <li>(h) the transport protocols;</li> <li>(h) the mine site;</li> <li>(h) a monitoring program to audit vehicle movements, including the origin and destination of employees, against predictions in the EA.</li> <li>(h) a monitoring program to audit vehicle movements, including the origin and destination of employees, against predictions in the EA.</li> <li>(h) a monitoring program to audit vehicle movements, including the origin and destination of employees, against predictions in the EA.</li> </ul>	No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Project, to the satisfaction of the Secretary. This plan must:       2016       requirements of this condition.         (a)       be prepared in consultation with RMS, Gunnedah Shire Council, Narabi Shire Council and the owners of the Rocgien and Vickery coal mines; b)       Section 3.5 of the TMP states that all haulage contractors will be provided with a copy of the TMP and regular toolboxs swill be held with ruck drivers.         (b)       include a program for implementing Whitehaven's commitments in the EA; include a program for implementing Whitehaven's commitments in the EA; include a transport protocols that describe control measures for coal haulage: - during seasonal and event based peak traffic periods.       Bis Pre-start toolbox, 3 January 2019 Master Services Agreement for Supply of Road Haulage Services between WHC and Bis Industries Limited, commencement date 28 January 2014       The auditor review a selection of toolboxes for the haulage contractor Bis. Toolbox: them included speed restrictions on the haul road, transport protocols, hours of operation at TCM.         (e)       include a driver's Code of Conduct to include but not limited to: - behavioural safety practises and initiatives used by drivers to implement the transport protocols; and       behavioural safety practises and regular toolbox meetings; and       behavioural safety practises and regular toolbox meetings; and       behavioural safety practises and initiatives used by drivers to implement the transport protocols;       requirements or whice evelse. The MSA also refers to the WHC HSE Management System which has been made available to Bis.         (f)       describe measures to minimise dust from roads that may be used for acccess to the mine site;       a monitoring pr		(b) spillage from coal haulage vehicles is minimised and promptly managed.		commencement date 28 January 2014 Email from Ian Taylor 22/7/20 confirming how many times the road			
<ul> <li>Project, to the satisfaction of the Secretary. This plan must:</li> <li>(a) be prepared in consultation with RMS, Gunnedah Shire Council, Narrabit Shire Council and the Rooglen and Vickery coal mines;</li> <li>(b) be submitted to the Secretary for approval by 31 March 2017;</li> <li>(c) include a program for implementing Whitehaven's commitments in the EA;</li> <li>(d) include a program for implementing Whitehaven's commitments in the EA;</li> <li>(e) during school bus hours;</li> <li>(f) on the Kamilaroi Highway; and</li> <li>(g) during school bus hours;</li> <li>(h) the transport protocols;</li> <li>(h) the transport prot</li></ul>	raffic Ma	anagement Plan					
	54A.	Project, to the satisfaction of the (a) be prepared in Shire Council a (b) be submitted to (c) include a progra- (d) include transpor- • during scho • during scho • on the Kami • during seas (e) include a driver • behavioural the transpor- • induction pr and • complaint re (f) describe measu to the mine site (g) arrangements t and the Rocgle (h) a monitoring pr destination of e	the Secretary. This plan must: consultation with RMS, Gunnedah Shire Council, Narrabri and the owners of the Rocglen and Vickery coal mines; the Secretary for approval by 31 March 2017; am for implementing Whitehaven's commitments in the EA; ort protocols that describe control measures for coal haulage: nol bus hours; ilaroi Highway; and conal and event based peak traffic periods. r's Code of Conduct to include but not limited to: safety practises and initiatives used by drivers to implement rtprotocols; rocess for vehicle operators and regular toolbox meetings; esolution and disciplinary procedures; ures to minimise dust from roads that may be used for access s; to comply with cumulative coal haulage limits from the project an and Vickery coal mines; and rogram to audit vehicle movements, including the origin and	2016 Road Transport Assessment, TTPP, October 2019 Bis Pre-start toolbox, 2 November 2018 Bis Pre-start toolbox, 3 January 2019 Master Services Agreement for Supply of Road Haulage Services between WHC and Bis Industries Limited,	requirements of this condition. Section 3.5 of the TMP states that all haulage contractors will be provided with a copy of the TMP and regular toolboxes will be held with truck drivers. The auditor review a selection of toolboxes for the haulage contractor Bis. Toolbox items included speed restrictions on the haul road, transport protocols, hours of operation at TCM. The auditor reviewed the Master Service's Agreement (MSA) between WHC and Bis Industries Limited. The Services Schedule of the MSA describes the services to be provided and includes the requirements on hours of work, speed limits and noise levels. The MSA also refers to the WHC HSE Management System which has been made available to Bis. A traffic audit was conducted by TTPP in 2019. No	C	
	Road Mai	ntenance			1		

# 55. During mining operations, the Proponent shall continue to implement road maintenance agreements with Narrabri Shire Council and Gunnedah Shire Council for the maintenance of the public roads affected by the project to the satisfaction of the respective Council. These agreements may be modified from time to time by agreement of the Proponent and respective Council. If there is any dispute in relation to these agreements, then any of the parties may refer the matter to the Secretary for resolution.

### Monitoring of Coal and Gravel Transport

56.	The Proponent shall:	Coal movement records	Coal movement records are maintained as required.
	(a) keep records of the:		No gravel movements have been made during the
	<ul> <li>amount of coal and gravel transported from the site (on a monthly basis); and</li> </ul>		audit period.
	• date and time of each train movement on the Boggabri rail spur line generated by the project (if coal from the project is transported by		

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No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	rail); and (b) make these records available on its website at the end of each calendar year.				

# VISUAL

### **Operating Conditions**

The Proponent shall:	Verified during previous audit period
<ul> <li>(a) implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the project;</li> </ul>	
(b) ensure no outdoor lights shine above the horizontal;	
<ul> <li>(c) wherever possible, ensure that mobile equipment is appropriately designed and/o retrofitted to prevent light being directed above the horizontal;</li> </ul>	
<ul> <li>(d) ensure that all external lighting associated with the project complies with Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting of its latest version;</li> </ul>	
(e) provide for the establishment of trees and shrubs and/or the construction of moundin orbunding:	g
<ul> <li>along the realigned Goonbri Road and access road to the mine site;</li> <li>along the services corridor to the Boggabri Coal Mine;</li> <li>around the water storage dams; and</li> <li>at other areas identified as necessary for the maintenance of satisfactory visual amenity; and</li> </ul>	
<ul> <li>(f) ensure that the visual appearance of all buildings, structures, facilities or works (including paint colours and specifications) is aimed at blending as far as possible with the surroundinglandscape, to the satisfaction of the Secretary.</li> </ul>	

### Additional Visual Impact Mitigation

58.	Upon receiving a written request from the owner of any residence on privately-owned land	Ν	lo request has been received.
	which has, or would have, significant direct views of the mining operations and		
	infrastructure on-site during the project, the Proponent shall implement additional visual		
	impact mitigation measures (such as landscaping treatments or vegetation screens) to		
	reduce the visibility of the mining operations and infrastructure from the residences on the privately-owned land.		
	These mitigation measures must be reasonable and feasible, and must be implemented		
	within a reasonable timeframe.		
	If the Proponent and the owner cannot agree on the measures to be implemented, or there		
	is a dispute about the implementation of these measures, then either party may refer the		
	matter to the Secretary for resolution.		
	Notes:		
	The additional visual impact mitigation measures must be aimed at reducing the visibility of the		
	mining operations on site from affected residences, and do not require measures to reduce the		
	visibility of the mining operations from other locations on the affected properties.		
	The additional visual impact mitigation measures do not necessarily have to include the		
	implementation of measures on the affected property itself (ie. the additional measures could		
	involve the implementation of measures outside the affected property boundary that provide an		

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No	Asses	sment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
		the Secretary will not require additional visual impact ences that are more than 5 kilometres from the mining				
USHFIR	E MANAGEMENT					
9.	<ul> <li>the suspension of activities that n conditions;</li> <li>(b) ensure that the project is suitably</li> <li>(c) assist the Rural Fire Service, For</li> </ul>	asible measures to manage bushfire risks, including may have the potential to ignite a fire, during adverse equipped to respond to any fires on site; and ests NSW, emergency services and National Parks possible if there is a fire in the surrounding area.	Section 4.10 of Biodiversity management plan Interview with Environmental Superintendent Site observations	<ul> <li>Management of bushfire risk is detailed in Section</li> <li>4.10 of the Biodiversity Management Plan.</li> <li>Adequate fire fighting equipment was observed on site and TCM maintains and Emergency Response Team who would be first responders to a fire on the site.</li> <li>Fire risk within the rehabilitated areas is managed by having access tracks and contour banks that act as fire breaks.</li> <li>TCM has a contract with a third party for fire fighting primarily for the offset areas to assist the RFS and ERT.</li> <li>TCM installed a water tank at the Templemore property RFS access at the request of the CCC.</li> </ul>	С	
VASTE						
50.	<ul><li>reject) generated by the project;</li><li>(b) ensure that the waste generated disposed of; and</li></ul>	sible measures to minimise the waste (including coal by the project is appropriately stored, handled and stiveness of waste minimisation and management	Annual Reviews 2017, 2018, 2019	The auditor observed waste collection and storage facilities at the site and were noted to be of a high standard. All wastes are removed from site for disposal by Namoi Waste, a suitably licensed contractor. Waste management and minimisation measures are reported in the annual review as required.	C	
REHABIL	ITATION					
Rehabilita	ation Objectives					
1.	must be generally consistent with the p	e to the satisfaction of MEG. This rehabilitation roposed Rehabilitation Strategy described in the ndix 8) and comply with the objectives in Table 15.	MOP 2020 Mine Site Rehabilitation Plan 2020 Annual Review 2019	The MOP and MSRP describe the rehabilitation objectives as required by this condition. The Goonbri Creek diversion and LPB have not been triggered during the audit period.	С	
	Table 14: Rehabilitation objectives			The 2019 annual review reports that the total land area under active rehabilitation is 78.5 ha and no		
	Mine site (as a whole)	Safe, stable and non-polluting		rehabilitation of agricultural lands occurred during the reporting period.		
		Constructed landforms drain to the natural				

ο	Asse	ssment Requirement	Reference/ Evidence	Comments	
	Final void	Minimise the size and depth of the final void as far as is reasonable and feasible			
		Minimise the drainage catchment of the final void as far as is reasonable and feasible			
		Negligible high wall instability risk			
	Surface infrastructure	To be decommissioned and removed, unless MEG			
	Agricultural land	Establish a minimum of 210 hectares of Class 3 agricultural suitability land, including 160 hectares			
	All land – excluding the 210 ha of agricultural land and the final void	Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems comprised of:			
		local native plant species (particularly Box     Cum Woodland EEC): and			
	<u>Goonbri Creek diversion and LPR</u>	See Table 13			
	Community	Ensure public safety			
		Minimise the adverse socio-economic effects			

### **Operating Conditions**

62.	The Proponent shall, in consultation with the LLS:	Biodiversity Management Plan 2015	The Operating Conditions are contained in the
	<ul> <li>(a) develop a detailed soil management protocol that identifies procedures for:         <ul> <li>comprehensive soil surveys prior to soil stripping;</li> <li>assessment of top-soil and sub-soil suitability for mine rehabilitation; and</li> <li>annual soil balances to manage soil handling including direct</li> </ul> </li> </ul>		Biodiversity management Plan which was verified in the previous audit period.
	<ul> <li>respreading and stockpiling;</li> <li>(b) maximise the salvage of suitable top-soils and sub-soils and biodiversity habitat components such as bush rocks, tree hollows and fallen timber for rehabilitation of disturbed areas within the site and for enhancement of biodiversity offset areas; and</li> <li>(c) ensure that coal reject, or any potentially acid forming interburden materials, are not</li> </ul>		
	emplaced at elevations in the pit shell where they may promote acid or sulphate species generation and migration beyond the pit shell.		

#### Progressive Rehabilitation

63.	The Proponent shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies shall be employed when areas prone to dust generation cannot yet be permanently rehabilitated. Note: It is accepted that the parts of the site that are progressively rehabilitated may be subject to further disturbance in future.	MOP 2020 Mine Site Rehabilitation Plan March 2020	The MOP (Section 2.3.9) and MSRP (Section 5) describe the rehabilitation program and methodology. The auditor observed seeded topsoil stockpiles and mulch used to prevent erosion.	
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Compliance Status	Recommendations
С	
C	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Rehabilita	tion Management Plan				
)4.	<ul> <li>The Proponent shall prepare and implement a Rehabilitation Management Plan to the satisfaction of MEG. This plan must:</li> <li>(a) be prepared in consultation with the Department, Forests NSW, DPIE Water, BCD, LLS and Council;</li> <li>(b) be submitted to the MEG for approval by the end of May 2013;</li> <li>(c) be prepared in accordance with any relevant MEG guideline;</li> <li>(d) describe how the rehabilitation of the site would be integrated with: <ul> <li>the implementation of the biodiversity offset strategy; and</li> <li>the final landform for the Boggabri coal mine;</li> </ul> </li> <li>(e) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);</li> </ul>	Mine Site Rehabilitation Plan March 2020 Approval letter dated 19 March 2020	TCM has developed an MSRP that complies with this condition. The current MSRP was approved by MEG in March 2020. Refer to Biodiversity Audit Report for assessment of rehabilitation performance.	C	
	<ul> <li>(f) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval and address all aspects of rehabilitation including mine closure, final landform and final land use;</li> </ul>				
	(g) include interim rehabilitation where necessary to minimise the area exposed for dust generation;				
	<ul> <li>(h) include a program to monitor, independently audit and report on the effectiveness of the rehabilitation measures, and progress against the detailed performance and completion criteria;</li> </ul>				
	<ul> <li>(i) include a coal rejects disposal procedure and monitoring program for potential acid generation; and</li> <li>(j) build to the maximum extent practicable on the other management plans required</li> </ul>				
	under this approval. Note: The Biodiversity Management Plan and Rehabilitation Management Plan require substantial integration to achieve biodiversity objectives for the rehabilitated mine site.				
nal Void	Design and Closure	1	T		
5.	The Proponent shall prepare and implement an updated Final Void and Mine Closure Plan (as a component of the overall Rehabilitation Management Plan required under condition 64 of schedule 3) to the satisfaction of MEG, following consultation with the Secretary. A draft plan must be prepared and submitted to MEG by the end of December 2019, and a final plan must be prepared and submitted to MEG by the end of December 2024. Each version of the plan must: (a) be subject to independent review and verification by suitably qualified, experienced	Draft Final Void Design Plan dated December 2019 submitted by email to Scott Mitchell on 23 December 2019 Letter of endorsement Dr Noel Merrick and Ms Claire Stephenson of SLR and Mr Julian Orth WRM Water and Environment dated 19 November 2019	The DRaft Final Void Design and Mine Closure Plan was submitted to MEG on 23 December 2019. The draft plan meets the requirements of this condition. The draft plan was independently reviewed by persons endorsed by Meg as required.	С	
	and independent person/s (including a groundwater expert) whose appointment has been approved by the Secretary;				
	<ul> <li>(b) identify and consider:</li> <li>options for continued mining beyond current project life;</li> </ul>				
	<ul> <li>options for continued mining beyond current project file;</li> <li>interactions with the final landform of adjoining mines (including any direct or indirect interaction between final voids);</li> </ul>				
	<ul> <li>opportunities for integrated mine planning with adjoining mines to minimise environmental impacts of the mines' final landforms;</li> </ul>				
	<ul> <li>all reasonable and feasible landform options for the final void (including filling);</li> </ul>				

65.	<ul> <li>The Proponent shall prepare and implement an updated Final Void and Mine Closure Plan (as a component of the overall Rehabilitation Management Plan required under condition 64 of schedule 3) to the satisfaction of MEG, following consultation with the Secretary. A draft plan must be prepared and submitted to MEG by the end of December 2019, and a final plan must be prepared and submitted to MEG by the end of December 2024. Each version of the plan must:</li> <li>(a) be subject to independent review and verification by suitably qualified, experienced and independent person/s (including a groundwater expert) whose appointment has been approved by the Secretary;</li> <li>(b) identify and consider: <ul> <li>options for continued mining beyond current project life;</li> <li>interactions with the final landform of adjoining mines (including any direct or indirect interaction between final voids);</li> <li>opportunities for integrated mine planning with adjoining mines to minimise environmental impacts of the mines' final landforms;</li> <li>all reasonable and feasible landform options for the final void (including filling);</li> <li>predicted stability of the proposed landforms; and</li> <li>predicted hydrochemistry and hydrogeology (including long-term groundwater</li> </ul> </li> </ul>	Draft Final Void Design Plan dated December 2019 submitted by email to Scott Mitchell on 23 December 2019 Letter of endorsement Dr Noel Merrick and Ms Claire Stephenson of SLR and Mr Julian Orth WRM Water and Environment dated 19 November 2019	The DRaft Final Void Design and Mine Closure Plan was submitted to MEG on 23 December 2019. The draft plan meets the requirements of this condition. The draft plan was independently reviewed by persons endorsed by Meg as required.
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Νο	Assessment Requirement	Reference/ Evidence	Comments	
AGRICULT	recovery and void groundwater quality); (c) include a detailed proposed landform design; and (d) demonstrate that the proposed final landform: • satisfies the relevant objectives in Table 15; • minimises the extent of any resulting pit lake; • avoids salt scalding; • maximises the capacity of emplaced spoil to drain to the natural environment; and • ensures that drained waters do not adversely affect the downstream environment.			
66.	The Proponent shall use its best endeavours to ensure that the agricultural productivity and production of non-operational project-related land is maintained or enhanced. Note: This includes properties primarily used for agriculture that are acquired by the Proponent due to noise and/or air quality impacts. However, it does not include land where disturbance is permitted under the conditions of this approval or land that forms part of the biodiversity offset area.	Farm Management Plan 2016	The Farm Management Plan was verified in the previous audit period.	

## SCHEDULE 4 – ADDITIONAL PROCEDURES

### NOTIFICATION OF LANDOWNERS/TENANTS

1.	Within 3 months of the date of this approval, the Proponent shall:	Outside audit period
	<ul> <li>(a) notify in writing the owners of: <ul> <li>the land listed in Table 1 of schedule 3 that they have the right to require the Proponent to acquire their land in accordance with the procedures in conditions 8 and 9 below at any stage during the project;</li> <li>any residence on the land listed in Table 1 of schedule 3 that they have the right to request the Proponent to ask for additional noise and/or air quality mitigation measures to be installed at their residence at any stage during the project; and</li> <li>any privately-owned land within 2 kilometres of the approved open-cut mining pit/s that they are entitled to ask for a property inspection, to establish the baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated;</li> </ul> </li> <li>(b) notify the tenants of any mine-owned land of their rights under this approval; and</li> <li>(c) send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the owners and/or existing tenants of any land (including mine-owned land) where the predictions in the EA identify that dust emissions generated by the project are likely to be greater than the relevant air quality criteria in schedule 3 at any time during the life of the project.</li> </ul>	
2.	<ul> <li>Prior to entering into any tenancy agreement for any land owned by the Proponent that is predicted to experience exceedences of the recommended dust and/or noise criteria, or for any of the land listed in Table 1 that is subsequently purchased by the Proponent, the Proponent shall:</li> <li>(a) advise the prospective tenants of the potential health and amenity impacts associated with living on the land, and give them a copy of the NSW Health fact sheet entitled</li> </ul>	A new tenancy agreement was prepared for the Templemore property which was acquired in October 2017. Refer Sch 3 C 27 above.

Compliance Status	Recommendations
С	
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#### TABLE A1 - PROJECT APPROVAL Compliance with Project Approval 11\_0047

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>"Mine Dust and You" (as may be updated from time to time);</li> <li>(b) advise the prospective tenants of the rights they would have under this approval; and</li> <li>(a) request the prospective tenants consult their medical practitioner to discuss the air quality monitoring data and predictions and health impacts arising from this information, to the satisfaction of the Secretary.</li> </ul>				
	(a) an exceedence of the relevant criteria in schedule 3, the Proponent shall notify the	Air quality monitoring results Correspondence with DPIE related to air quality exceedances	No air quality exceedances have been attributed to the mine in the audit period.	NT	
	<ul> <li>(b) an exceedance of the relevant air quality criteria schedule 3, the Proponent shall send to the affected landowners and/or existing tenants of the land (including the tenants of any mine-owned land) a copy of: <ul> <li>the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time); and</li> <li>the monitoring data, in an appropriate format so that a medical practitioner can assist the resident in making an informed decision on the health risks associated with occupation of the property.</li> </ul> </li> </ul>				

#### 4. If an owner of privately-owned land considers the project to be exceeding the criteria in Interview with Environmental Not triggered schedule 3 at his/her land, then he/she may ask the Secretary in writing for an Superintendent independent review of the impacts of the project on his/her land. If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Proponent shall: (a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to: consult with the landowner to determine his/her concerns; conduct monitoring to determine whether the project is complying with the • relevant impact assessment criteria in schedule 3; and if the project is not complying with the relevant criteria, then: . determine if the more than one mine is responsible for the exceedence, 0 and if so the relative share of each mine towards the impact on the land; identify the measures that could be implemented to ensure compliance 0 with the relevant criteria; and (b) give the Secretary and landowner a copy of the independent review. 5. Interview with Environmental If the independent review determines that the project is complying with the relevant criteria Not triggered in schedule 3, then the Proponent may discontinue the independent review with the Superintendent approval of the Secretary. If the independent review determines that the project is not complying with the relevant criteria, and that the project is primarily responsible for this non-compliance, then the Proponentshall: (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until the project complies with the relevant criteria; or (b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Secretary.

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	If the independent review determines that the project is not complying with the relevant acquisition criteria, and that the project is primarily responsible for this non-compliance, then upon receiving a written request from the landowner, the Proponent shall acquire all or part of the landowner's land in accordance with the procedures in conditions 8 and 9 below.				
	If the independent review determines that the relevant criteria are being exceeded, but that more than one mine is responsible for this exceedance, then together with the relevant mine/s the Proponentshall:	Interview with Environmental Superintendent	Not triggered	NT	
	(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until there is compliance with the relevant criteria; or				
	(b) secure a written agreement with the landowner and other relevant mine/s to allow exceedances of the relevant impact assessment criteria, to the satisfaction of the Secretary.				
	If the independent review determines that the project is not complying with the relevant acquisition criteria in schedule 3, but that more than one mine is responsible for this non-compliance, then upon receiving a written request from the landowner, the Proponent shall acquire all or part of the landowner's land on as equitable a basis as possible with the relevant mine/s, in accordance with the procedures in conditions 8 and 9 below.				

<b>7</b> .	If a person has good reason to believe the Proponent is not implementing the biodiversity	Interview with Environmental	Not triggered	NT
	and/or heritage conditions in schedule 3 satisfactorily, then he/she may ask the Secretary	Superintendent		
	in writing for an independent review of the matter.			
	If the Secretary is satisfied that an independent review is warranted, then within 2 months			
	of the Secretary's decision, the Proponent shall:			
	<ul> <li>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:</li> </ul>			
	<ul> <li>consult with the person and/or any relevant agencies;</li> </ul>			
	<ul> <li>investigate the person's complaints/claims;</li> </ul>			
	<ul> <li>review the environmental performance of the Proponent;</li> </ul>			
	<ul> <li>determine whether the Proponent s performance is satisfactory or not; and if</li> </ul>			
	necessary			
	<ul> <li>recommend measures to improve the Proponent s performance; and</li> </ul>			
	(b) give the Secretary and complainant a copy of the independent review.			
AND	ACQUISITION			
	Within 3 months of receiving a written request from a landowner with acquisition rights, the		Refer Sch3 C 27 above	С
	Proponent shall make a binding written offer to the landowner based on:			
	(a) the current market value of the landowner's interest in the land at the date of the written			
	request, as if the land was unaffected by the project, having regard to the:			
	<ul> <li>existing and permissible use of the land, in accordance with the applicable</li> </ul>			
	planning instruments at the date of the written request; and			
	<ul> <li>presence of improvements on the land and/or any approved building or structure</li> </ul>			
	which has been physically commenced at the date of the landowner's written			
	request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of the additional			

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(b) the reasonable costs associated with:				
	<ul> <li>relocating within the Tamworth, Narrabri, Gunnedah or Moree local government</li> </ul>				
	areas, or to any other local government area as agreed by the Secretary; and				
	<ul> <li>obtaining legal advice and expert advice for determining the acquisition price of</li> </ul>				
	the land, and the terms upon which it is to be acquired; and				
	(c) reasonable compensation for any disturbance caused by the land acquisition process.				
	However, if the Proponent and landowner cannot agree on the acquisition price of the land				
	and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Secretary for resolution.				
	Upon receiving such a request, the Secretary shall request the President of the NSW				
	Division of the Australian Property Institute to appoint a qualified independent valuer to:				
	<ul> <li>consider submissions from both parties;</li> </ul>				
	<ul> <li>determine a fair and reasonable acquisition price for the land and/or the terms upon</li> </ul>				
	which the land is to be acquired, having regard to the matters referred to in				
	paragraphs (a)-(c)above;				
	<ul> <li>prepare a detailed report setting out the reasons for any determination; and</li> </ul>				
	<ul> <li>provide a copy of the report to both parties.</li> </ul>				
	Within 14 days of receiving the independent valuer's report, the Proponent shall make a				
	binding written offer to the landowner to purchase the land at a price not less than the				
	independent valuer's determination.				
	However, if either party disputes the independent valuer's determination, then within 14				
	days of receiving the independent valuer's report, they may refer the matter to the Secretary for review. Any request for a review must be accompanied by a detailed report setting out				
	the reasons why the party disputes the independent valuer's determination. Following				
	consultation with the independent valuer and both parties, the Secretary will determine a				
	fair and reasonable acquisition price for the land, having regard to the matters referred to in				
	paragraphs (a)-(c) above, the independent valuer's report, the detailed report of the party				
	that disputes the independent valuer's determination and any other relevant submissions.				
	Within 14 days of this determination, the Proponent shall make a binding written offer to the				
	landowner to purchase the land at a price not less than the Secretary's determination.				
	If the landowner refuses to accept the Proponent's binding written offer under this condition				
	within 6 months of the offer being made, then the Proponent's obligations to acquire the				
	land shall cease, unless the Secretary determines otherwise.				
	The Proponent shall pay all reasonable costs associated with the land acquisition process		As above	С	
	described in condition 8 above, including the costs associated with obtaining Council				
	approval for any plan of subdivision (where permissible), and registration of this plan at the				
	Office of the Registrar-General.				
HEDU	LE 5 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING				
IRONN	IENTAL MANAGEMENT				
ronme	ntal Management Strategy			11	
	The Proponent shall prepare and implement an Environmental Management Strategy for	TCM Environmental Management	The current approved EMS meets the requirements of	С	
	the project to the satisfaction of the Secretary. The strategy must:	Strategy 2018	this condition.		

1.	The Proponent shall prepare and implement an Environmental Management Strategy for	TCM Environmental Management	The current approved EMS meets the requirements of	
	the project to the satisfaction of the Secretary. The strategy must:	Strategy 2018	this condition.	

# TABLE A1 - PROJECT APPROVAL Compliance with Project Approval 11\_0047

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
daptive I		Approval letter from DPIE dated 12 July 2018	A copy of the EMS is available on the company website and references all other plans and programs required by the Approval which are also available online.		
	The Proponent must assess and manage project-related risks to ensure that there are no	Response to Notice 1592182 dated 17 March 2020	An incident occurred on 10 February 2020 following a rainfall event where Sediment Dam 2 suffered an embankment failure. Following the event TCM has engaged a third party (Aurecon) to undertake a comprehensive review of water management structures. The review has identified some remedial works to drop drains and ponds as well as training needs and inspection programs. TCM is also in the process of installing automatic water level meters in the ponds.	C	
anagem	nent Plan Requirements				
	<ul> <li>The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</li> <li>(a) detailed baseline data;</li> <li>(b) a description of: <ul> <li>the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>any relevant limits or performance measures/criteria;</li> <li>the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;</li> </ul> </li> <li>(c) a description of the measures that would be implemented to comply with the</li> </ul>		Management plans required by this Approval have been prepared in accordance with this condition, except as where noted in this report.	C	
	<ul><li>relevant statutory requirements, limits, or performance measures/criteria;</li><li>(d) a program to monitor and report on the:</li></ul>				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
(e (f)	<ul> <li>impacts and environmental performance of the project;</li> <li>effectiveness of any management measures (see c above);</li> <li>a contingency plan to manage any unpredicted impacts and their consequences;</li> <li>a program to investigate and implement ways to improve the environmental performance of the project over time;</li> </ul>				
(g	<ul> <li>a protocol for managing and reporting any:</li> <li>incidents;</li> <li>complaints;</li> <li>non-compliances with statutory requirements; and</li> <li>exceedences of the impact assessment criteria and/or performance criteria; and</li> </ul>				
(h	n) a protocol for periodic review of the plan.				

Annual Review

	y the end of June each year (or as otherwise agreed by the Secretary), the Proponent	Annual Reviews 2017, 2018, 2019	Annual reviews have been prepared and submitted as	С
	nall review the environmental performance of the project for the previous calendar year	Emails for submission of Annual	required by this condition.	
to	the satisfaction of the Secretary. This review must:	Reviews dated 29/3/2018, 28/3/2019		
(8	, , , , , , , , , , , , , , , , , , , ,	and 27/3/2020		
	past calendar year, and the development that is proposed to be carried out over the current calendar year;			
(t	) include a comprehensive review of the monitoring results and complaints records of			
	the project over the past year, which includes a comparison of these results against			
	the:			
	<ul> <li>relevant statutory requirements, limits or performance measures/criteria;</li> </ul>			
	<ul> <li>monitoring results of previous years; and</li> </ul>			
	<ul> <li>relevant predictions in the EA;</li> </ul>			
(0	) identify any non-compliance over the last year, and describe what actions were (or			
	are being) taken to ensure compliance;			
(0	) identify any trends in the monitoring data over the life of the project;			
(6	identify any discrepancies between the predicted and actual impacts of the project,			
	and analyse the potential cause of any significant discrepancies; and			
(f	describe what measures will be implemented over the next year to improve the			
	environmental performance of the project.			

### Revision of Strategies, Plans and Programs

Within 3 months of the submission of an:	Environmental Management Plan	Management plans are reviewed, revised and	C
(a) annual review under condition 4 above;	Review Record as at June 2020	submitted to DPIE as required by this condition.	
(b) incident report under condition 8 below;	Management Plans as required by the	TCM maintains a comprehensive register detailing the	
(c) audit under condition 10 below; or	Approval	nature of revisions and submission dates. Each plan	
(d) any modification to the conditions of this approval, the Proponent shall review, and		contains a revisions register which also details the revisions made for each review.	
if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.		revisions made for each review.	
Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and			
incorporate any recommended measures to improve the environmental performance of the project.			

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Managem	ent of Cumulative Impacts				
6.	In conjunction with the owners of the nearby mines in the Leard Forest Mining Precinct, the Proponent shall use its best endeavours to minimise the cumulative impacts of the project on the surrounding area, to the satisfaction of the Secretary.	Minutes from BTN Environment monthly meeting 2/4/20 and 4/7/19 BTM CCC meeting minutes	Monthly environment meetings are held with the other mine sites (Boggabri and Maules Creek) which is attended by at least one representative of each mine. There is a standing agenda which includes cumulative impacts such as groundwater, water sharing, noise strategy, vegetation corridor management, joint strategies and land ownership. A join CCC is convened twice per year.	C	
Communit	y Consultative Committee	1			
7.	<ul> <li>The Proponent shall establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary. This CCC must be operated in general accordance with the <i>Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects</i> (Department of Planning, 2007, or its latest version), and be operating by the end of May 2013.</li> <li>The CCC must seek to include joint membership with CCCs for other operating coal mines within the Leard Forest Mining Precinct, unless otherwise agreed by the Secretary. <i>Notes:</i></li> <li>The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval.</li> <li>In accordance with the Department's guideline, the CCC should be comprised on an independent chair and appropriate representation from the Proponent, Council and the local community.</li> </ul>	CCC meeting minutes and BTM CCC meeting minutes	The TCM CCC meets on a quarterly basis. CCC meeting minutes are available on the WHC website. The BTM complex joint CCC meets twice per year.	C	
REPORTIN	IG				
Incident R	eporting				
8.	The Proponent shall notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the project, the Proponent shall notify the Secretary and any other relevant agencies as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	TAR Incident and Exceedance Register	TCM maintains an incident and exceedance register which records all incidents and exceedances related to the approval and EPL. The auditor reviewed incident notification for an a wet weather release on 8 February 2020 which was notified to DPIE on 20 February following receipt of laboratory analysis. The 7 day report was submitted on 27 February 2020.	C	
Regular R	eporting	1		1	
9.	The Proponent shall provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.	Whitehaven Coal website	Reports of environmental performance and monitoring are provided on the company website.	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
DITIN	G G				
epend	lent Environmental Audit				
	<ul> <li>By the end of June 2014 and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must: <ul> <li>(a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;</li> <li>(b) include consultation with the relevant agencies;</li> <li>(c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval, and any other relevant approvals, relevant EPL/s and/or Mining Lease/s (including any assessment, plan or program required under these approvals);</li> <li>(d) assess whether the Proponent is implementing best noise, blasting and air quality management practice;</li> <li>(e) investigate and report on the measures taken to minimise the noise and air quality impacts of the project during meteorological conditions and/or extraordinary events when the relevant noise and air quality limits in this approval do not apply, including: <ul> <li>the effectiveness of these measures in maintaining impacts within the relevant criteria in this approval and/or the limits in the relevant EPL; and <ul> <li>any additional measures available to mitigate impacts under such conditions;</li> </ul> </li> <li>(f) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals; and</li> <li>(g) recommend measures or actions to improve the environmental performance of the project and/or any strategy, plan or program required under these approvals.</li> </ul> </li> </ul></li></ul>	TAR- Independent Environmental Audit Report 2017	The last audit was conducted in July 2017.	C	
CESS	TO INFORMATION				
	<ul> <li>The Proponent shall:</li> <li>(a) within 3 months of the date of this approval, make the following information publicly available on its website: <ul> <li>the EA;</li> <li>all current statutory approvals for the project;</li> <li>approved strategies, plans and programs required under the conditions of this approval;</li> <li>a comprehensive summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval;</li> <li>a complaints register, which is to be updated on a monthly basis;</li> <li>minutes of CCC meetings;</li> <li>the last five annual reviews;</li> <li>any independent environmental audit, and the Proponent's response to the recommendations in any audit;</li> <li>any other matter required by the Secretary; and</li> </ul> </li> </ul>	Whitehaven Coal website	The required information is available on the company website.	C	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
On-line Comr	nunication of Onsite Activities and Monitoring of Noise and Air Quality	·			
(2	<ul> <li>he Proponent shall, within 3 months of the date of this approval:</li> <li>a) make the following information for the project publicly available on its website, on a daily basis and in a clearly understandable form: <ul> <li>daily weather forecasts for the coming week;</li> <li>proposed operational responses to these weather forecasts;</li> <li>real-time noise and air quality monitoring data (subject to any necessary caveats); and</li> <li>any operational responses that were taken in response to the noise and air quality monitoring data, and</li> </ul> </li> <li>make provision on its website for the provision of on-line and/or email comments by members of the community regarding this information, to the satisfaction of the Secretary.</li> </ul>	Whitehaven Coal website	Daily reports are available on the company website. An email address is provided for submission of comments.	C	

### Tarrawonga Coal Project Environmental Assessment - Statement of Commitments

### SOC1.1 Proposed Project Environmental Management, Monitoring and Reporting

	I review and revise the existing Tarrawonga Coal Mine management and	Verified through Conditions of Approval
	g plans listed in Table SOC-1. Table SOC-1 also lists new management and	
	g plans that are proposed to be prepared for the Project.	
SOC-1 in		
	Management and Monitoring Environmental Management Strategy	
· · · ·	Water Management Plan	
· · · ·	Site Water Balance	
· · · ·	Erosion and Sediment Control Plan Surface Water Monitoring	
	Program Groundwater Monitoring Program Surface and Groundwater	
	Response Plan	
· · · ·	Goonbri Creek Management Plan*	
	Noise Management Plan	
· · · ·	Blast Management Plan	
· · · ·	Air Quality and Greenhouse Gas Management Plan	
	Biodiversity Offset Strategy	
	Biodiversity Management Plan*	
	Offset Area Management Plan*	
•	Farm Management Plan*	
•	Aboriginal Heritage Management Plan	
	Waste Management Plan	
	Rehabilitation Strategy	
· · · ·	Rehabilitation Management Plan	
•	Bushfire Management Plan	
	Reporting Requirements	
· · · ·	Annual Environmental Management Report and Mining Operations	
· · · ·	Plan or Rehabilitation and Environmental Management Plan	
-	Licences and Approvals Greenhouse Gas Reporting	
(* = New	management plans to be prepared)	
Note mos	st of these plans have been revised but are not yet approved by the DG.	
		1

C		
	C	
	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	The existing monitoring program at the Tarrawonga Coal Mine will be augmented to address additional Project disturbance areas and the open cut extensions.		Verified through Conditions of Approval	С	
	Environmental management, monitoring and reporting will be conducted in accordance with finalised Project Approval conditions, with the final monitoring details (locations, parameters and frequencies) to be provided in the relevant management plans/monitoring programs.		Verified through Conditions of Approval	С	
ecific e	environmental Commitments				
	Environmental management and offset measures to be implemented for the Project are described in Section 4. Key commitments include:		Not triggered	NT	
	Design and construction of an engineered low permeability barrier to the east and south- east of the open cut;		Not triggered	NT	
	Design, construction and implementation of a permanent Goonbri Creek alignment and associated flood bund;		Not triggered	NT	
	Integration of key aspects of the Project with the adjoining Boggabri Coal Mine (i.e. Northern Emplacement, coal processing and loading of Project product coal onto trains);		Not triggered	NT	
	Cessation of sized run-of-mine (ROM) coal road transport to the Whitehaven Coal Handling and Preparation Plant (once suitable approvals and upgrades are in place);		Not triggered	NT	
	Management and mitigation of operational noise;		Verified through Conditions of Approval	С	
	Rehabilitation of Project disturbance areas, including the reinstatement of key agricultural and ecological values;		Verified through Conditions of Approval	С	
	Provision of biodiversity offset measures for the Project;		Verified through Conditions of Approval	С	
	Management of the Project final void to minimise potential long-term impacts on water resources; and		Verified through Conditions of Approval	С	
	Participation in joint air quality, operational noise and regional groundwater monitoring schemes with the adjoining Boggabri Coal Mine and the Maules Creek Coal Project.		Verified through Conditions of Approval	С	
w perm	neability barrier			I I	
	A low permeability barrier will be constructed in the alluvium to the east and south-east of the open cut. Construction of the low permeability barrier will be completed before the Project open cut intersects the alluvium (approximately Year 12).		Not triggered	NT	
	The design objectives of the low permeability barrier include minimising the potential for drainage of alluvial groundwater into the open cut during operations and post-mining, and maintaining the hydraulic character of Goonbri Creek.		Not triggered	NT	
	TCPL commits to construction of the low permeability barrier to meet the following design objectives:		Not triggered	NT	
	• minimise the potential for local drainage of alluvial groundwater into the open cut during operations and post-mining;				
	<ul> <li>minimise the potential for future instability of the open cut batters formed in the alluvium;</li> <li>maintain the hydraulic character of Goonbri Creek by minimizing the potential loss of</li> </ul>				
	baseflow; and				
	• maintain the value of alluvial groundwater, by minimizing potential interactions with the mine final void, post-mining.				

No	Assessment Requirement	Reference/ Evidence	Comments	
	In addition, TCPL will augment the existing piezometer network with additional sites to validate the performance of the low permeability barrier.		Not triggered	
Permane	nt Goonbri Creek Alignment and Associated Flood Bund			
	In approximately Year 15, open cut mining would remove a 3 kilometre (km) section of Goonbri Creek. Prior to the open cut advancing into this section of the creek, the permanent Goonbri Creek alignment will be established.		Not triggered	
	A permanent flood bund will also be constructed to prevent inundation of the open cut during operations and postmining. The permanent flood bund will generally coincide with the alignment of the low permeability barrier.		Not triggered	
	<ul><li>TCPL commits to the design, construction and implementation of the permanent Goonbri Creek alignment to meet the following design objectives:</li><li>Construct a low flow channel that approximates the existing section of Goonbri Creek upstream of the Project in terms of stream geometry, hydrology and geomorphology;</li></ul>		Not triggered	
	Mimic the meandering path of the existing alignment of Goonbri Creek, such that the length of the permanent Goonbri Creek alignment is approximately the same length as the section of Goonbri Creek being removed;		Not triggered	
	Minimise the disturbance to the reaches of Goonbri Creek upstream of the permanent Goonbri Creek alignment; and		Not triggered	
	Provide a stable transition back to the existing Goonbri Creek alignment which results in no detectable change to the hydraulic conditions in the reaches of Goonbri Creek or the Bollol Creek floodplain area downstream.		Not triggered	
	In addition, TCPL commits to the design and construction of the permanent flood bund to a height that will provide protection against the peak flood height associated with a Probable Maximum Precipitation rainfall event.		Not triggered	
	TCPL will develop and implement a Goonbri Creek Management Plan prior to the commencement of construction activities associated with the low permeability barrier, permanent Goonbri Creek alignment and flood bund.		Not triggered	
	The Goonbri Creek Management Plan will describe: The design and construction details of the permanent Goonbri Creek alignment and flood bund;		Not triggered	
	Revegetation objectives and activities;		Not triggered	
	Water quality, ecological, hydrological and geomorphic performance and completion criteria for the permanent Goonbri Creek alignment based on baseline conditions; and		Not triggered	
	A monitoring/maintenance program for water quality, ecological, hydrological and geomorphic integrity of the permanent Goonbri Creek alignment.		Not triggered	
Managen	nent of operational noise			
	TCPL will implement the following noise management and mitigation measures to appreciably reduce noise emissions associated with the Project:		Not hauling to Boggabri	

Compliance Status	Recommendations
NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	Modified alignment of haul routes to reduce their exposure relative to nearby receivers; and		Modified alignment of haul routes has not been necessary.	NT	
	A reduction in the number of mobile fleet items operating during the evening and night-time periods.	Interview with Environmental Superintendent	Less personnel are working at night and fewer trucks are operating. Real time noise monitoring is undertaken and alarms raised if noise is excessive. There are no operations between 0330 and 0630	C	
Rehabilita	ation Objectives and Final Landform	1	1	1	

The Project final landform and revegetation program will provide for a combination of approximately 752 ha of native woodland/forest and some 210 ha of Class 3 agricultural suitability land.	Verified through Conditions of Approval	С
The agricultural land will be capable of being used for pasture production for grazing and occasional cropping. Revegetation of woodland/forest areas will include the planting of species characteristic of the local vegetation communities, including species from the Box-Gum Woodland endangered ecological community.	Verified through Conditions of Approval	C
In addition, TCPL commits to a riparian vegetation enhancement program on a 3.2 km section of Goonbri Creek downstream of the Project open cut, through measures such as revegetation and stock exclusion.	Verified through Conditions of Approval	С
A Rehabilitation Management Plan will be developed and implemented for the Project, including a rehabilitation monitoring program designed to track the progress of rehabilitation and revegetation.	Verified through Conditions of Approval	С

### Biodiversity offset measures

TCPL commits to the provision of an area to offset the residual impacts of the Project on flora and fauna and maintain or improve the biodiversity values of the region in the medium to long-term.	Verified through Conditions of Approval	С	
The biodiversity offset for the Project comprises approximately 1,600 ha of freehold land that has been purchased by Whitehaven.	Verified through Conditions of Approval	С	
The offset is situated approximately 20 km to the north-east of the Project and adjoins Mount Kaputar National Park (Figure SOC-2). Prior to its recent purchase by Whitehaven the offset area was part of a larger agricultural property.	Verified through Conditions of Approval	С	
Ecological gains from the biodiversity offset include:	Verified through Conditions of Approval	С	
Similar vegetation communities/fauna habitats, compared to the Project area, will be conserved/enhanced in the biodiversity offset area.			
The biodiversity offset area is suitably located to benefit flora and fauna populations (biodiversity values) potentially impacted by the Project.	Verified through Conditions of Approval	С	
The biodiversity offset area is located adjacent to Mount Kaputar National Park.	Verified through Conditions of Approval	С	
Ephemeral creeks occur within the biodiversity offset area, providing a diversity of habitats.	Verified through Conditions of Approval	С	
Substantial areas of Box-Gum Woodland (232 ha) occur in the biodiversity offset area.	Verified through Conditions of Approval	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	Through active management, particularly of areas previously cleared for agriculture, the ecological values of the biodiversity offset area can be further improved. TCPL commits to a number of management measures to enhance the offset area's flora and fauna values. These measures will be detailed in the Offset Area Management Plan to be prepared for the Project.		Verified through Conditions of Approval	С	
	The Offset Area Management Plan will also include a program to monitor and audit the effectiveness of the management measures and to evaluate performance against specified completion criteria.		Verified through Conditions of Approval	С	
	TCPL intends to reach an agreement with the New South Wales (NSW) Government so that the biodiversity offset area can be permanently added to the adjoining Mount Kaputar National Park.		Verified through Conditions of Approval	С	
	In the interim, TCPL will enter into a conservation arrangement with the NSW Government to ensure the protection and management of the offset area (e.g. a voluntary conservation agreement with the NSW Minister for the Environment).		Verified through Conditions of Approval	С	
agem	nent of the Project Final void				
	TCPL commits to installing permanent perimeter bunds and/or diversion channels to limit the catchment area of the final void.		Verified through Conditions of Approval	C	
	In addition, TCPL will design and construct the final void to minimise the long-term drawdown and potential water quality effects on local groundwater aquifers. This will be achieved by adjusting the final void batter angles and/or placing additional waste rock backfill in the final void such that a permanent waterbody will form and reach an equilibrium level close to, but below, the local pre-mining groundwater level in the coal measures.		Verified through Conditions of Approval	С	
	TCPL will adopt an adaptive management approach to the final void design and mine closure planning for the Project. Final void design and mine planning will be undertaken by TCPL in consultation with relevant government agencies as a component of the Rehabilitation Management Plan.		Verified through Conditions of Approval	С	
ticipat	tion in Joint Air Quality, Operational Noise and Regional Groundwater Monitoring				
	TCPL will work with the proponents of the Boggabri Coal Mine and Maules Creek Coal Project to develop and implement a joint network of real-time particulate matter monitors, operational noise monitors and regional groundwater monitoring in the vicinity of the Project. The details of the joint network will be provided in the revised Air Quality and Greenhouse Gas Management Plan, Noise Management Plan and Water Management Plan.		Verified through Conditions of Approval	С	

TCPL will work with the proponents of the Boggabri Coal Mine and Maules Creek Coal Project to develop and implement a joint network of real-time particulate matter monitors,	Verified through Conditions of Approval	
operational noise monitors and regional groundwater monitoring in the vicinity of the Project. The details of the joint network will be provided in the revised Air Quality and		
Greenhouse Gas Management Plan, Noise Management Plan and Water Management Plan.		

n		Assessment Requireme	ent	Reference/ Evidence	Comments	Compliance	Recommendations
What	IISTRATIVE CONDITIONS the licence authorises and	-					
	A2. The activities are listed and classification and the scale of Unless otherwise further restr	ccording to their scheduled activity of f the operation.	s listed below at the premises specified in lassification, fee-based activity he scale at which the activity is carried out	Annual Reviews 2017, 2018 and 2019 Coal haulage records Interview with Environment Superintendent	Data provided in the annual reviews, haulage records and by the Environment Superintendent confirms that the extracted tonnes are as below. 2020: 2.357M FY 20 2019: 2.26M	С	
	Scheduled Activity	Fee Based Activity	Scale		2018: 2.75M		
	Coal works	Coal works	> 2000000 - 5000000 T annual handing capacity		2017: 1.87M		
	Extractive activities	Extractive activities	> 50000 - 100000 T annual capacity to extract or process				
	Mining for coal	Mining for coal	> 2000000 - 3500000 T annual production capacity				

### A2 Premises or plant to which this licence applies

2.1	The licence applies to the following premises:	Note	Noted	С
	Premises Details			
	TARRAWONGA COAL MINE			
	469 GOONBRI ROAD			
	BOGGABRI			
	NSW 2382			
	THE LAND APPROVED UNDER PROJECT APPROVAL 11_0047-INDICATED			
	IN APPENDIX 1- SCHEDULE OF LAND OF PROJECT APPROVAL 11_0047 AND SHOWN AS MINE			
	LEASE BOUNDARY ON MAP TITLED "EPL 12365 MONITORING LOCATIONS ONSITE AND OFFSITE"			
	RECEIVED BY THE EPA ON 14 OCTOBER 2019 (DOC19/978674).			

### A3 Information supplied to the EPA

.1	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.	Note	Noted	с
	In this condition the reference to "the licence application" includes a reference to:			
	<ul> <li>(a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and</li> </ul>			
	(b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with			
	the issuing of this licence.			
DISC	the issuing of this licence. CHARGES TO AIR AND WATER AND APPLICATIONS TO LAND			
	CHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	Note	Noted	Note

	Asse	ssment Requirement		Reference/ Evidence	Comments	Compliance	Recommendations
Air	Turo of Monito			Annual Reviews 2017, 2018 and 2019	The auditor sighted the environmental monitoring database and observed monitoring		
EPA ID no.	Type of Monito Point	ing Type of Discharge Point	Location Description	Annual Return Statement of Compliance 2019 -2020	records for a sample of EPA ID locations. Monitoring is conducted at these locations and		
28	Ambient air mon	toring	Real time air quality monitor located on		reported in the AEMR/AR.		
			'Flixton' as shown on map titled "EPL				
			12365 Monitoring Locations Onsite and				
			Offsite' received by the EPA on 14 October				
			2019 (DOC19/978674).				
		e identified in this licence for th		Site observations	Auditor reviewed monitoring locations on map.	С	
Water and la	• • •	ollutants to water from the point	ı.	Interview with Environment Superintendent	Auditor observed sample of EPA ID locations while on Site and reviewed monitoring records.		
EPA ID no.	Type of monitoring poin	t Type of discharge point	Location description	EPL12365 Monitoring Locations	Interview with Site Environmental Superintendent identified that TB1 was removed		
	Wet weather discharge Discharge water quality monitoring	Wet weather discharge Discharge water quality monitoring	Discharge point located on the western boundary and labelled 'SD17' on the map titled "EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October 2019 (DOC19/978674).		and replaced by TB2 (TCM now owns property where TB1 was located) and that SD17 discharge drain which used to drain to Nagero Creek now drains to Boggabri Mine.		
2	Wet weather discharge Discharge water quality monitoring	Wet weather discharge Discharge water quality monitoring	Spillway on Storage Dam 9 located on southern boundary of premises labelled 'SD9' on the map titled "EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October 2019 (DOC19/978674).				
3	Wet weather discharge Discharge water quality monitoring	Wet weather discharge Discharge water quality monitoring	Spillway on Sediment Basin 14 located on the southern boundary & labelled 'SB14' on the map titled "EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October				

	Assessment Requir	rement	Reference/ Evidence	Comments	Compliance	Recommendations
5	Ambient water quality monitoring	Bollol Creek upstream of discharge from premises labelled 'BCU' on the map entitled titled "EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October 2019 (DOC19/978674).				
6	Ambient water quality monitoring	Bollol Creek downstream of discharge from premises labelled 'BCD' on the map titled "EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October 2019 (DOC19/978674).				
9	Groundwater monitoring	Groundwater monitoring bore located on property 'Thuin' labelled 'MW1' on the map titled "EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October 2019 (DOC19/978674).				
10	Groundwater monitoring	Groundwater monitoring bore located on property 'Bollol Ck Station' labelled 'MW2' on the map titled EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October 2019 (DOC19/978674).				
12	Groundwater monitoring	Groundwater monitoring bore located on the property 'Tarrawonga' labelled 'MW4' on the map titled "EPL 12365 monitoring Locations Onsite and Offsite' received by the EPA on 14 October 2019 (DOC19/978674).				
13	Surface water quality monitoring	Mining void (variable location) labelled 'Void' on the map titled "EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October 2019 (DOC19/978674).				

P1.4     The following point(s) in the table are identified in this licence for the purpose of the monitoring of the premises labeled SP28' on 19 (both are premises labeled SP28') on the map tild of CPL 12365 Monitoring Locations Orsite and Offsite "received by the EPA on 14 October 2019 (DOC 1997/874).       28     Wet weather discharge water quality monitoring     Wet weather discharge SP (CPL 12365) Monitoring Locations Orsite and Offsite "received by the EPA on 14 October 2019 (DOC 1997/874).       28     Wet weather discharge Monitoring     Wet weather discharge SP (CPL 12365) Monitoring Locations Orsite and Offsite "received by the EPA on 14 October 2019 (DOC 1997/874).       27     Wet weather discharge Discharge water quality monitoring     Discharge water quality monitoring     Splitwy on Soliment Hasin Elsocated on the same tild of The premises labeled SP28' on the map tild "EPL 12365 Monitoring Locations Orsite and Offsite "received by the EPA on 19 (DOC 1997/874).       27     Wet weather discharge Discharge water quality monitoring     Discharge water quality monitoring     Splitwy on Soliment Hasin Elsocated on the same tild of The T2365 Monitoring Locations Orsite and Offsite "Cocived by the EPA on 19 (DOC 1997/874).       28     Discharge water quality monitoring     Discharge water quality monitoring     Discharge water quality monitoring of the monitoring of weather and Offsite "Cocived by the EPA on 19 (DOC 1997/874).       10     Wet weather analysis     Weather station located on the propert "Integration for the purpose of the monitoring of weather analysis Mile T2 (PL 12365 Monitoring Locations Mile on Site and reviewed monitoring records. Mile on Site and reviewed monitoring records. Mile on Site and	ltem		Asses	sment Requirement		Reference/ Evidence	Comments
P1.4       The following point(s) in the table are identified in this licence for the purpose of the monitoring Point       Discharge water quality monitoring Point       Discharge water quality monitoring Point       Site of premises in 280 located on the south, westpan 140 "EPL 12865 Monitoring Locations Onsite and Offsite" received by the EPA on 14 October 2019 (DOC19079674).         27       Wet weather discharge bischarge water quality monitoring duality monitoring for the purpose of the monitoring of weather guality monitoring Locations (Mather analysis Mather station located on the property Templemore tabelied W1 on the map entitied Figure 1.2565 Monitoring Locations (Mather analysis M1 weather station located on the property Templemore tabelied W1 on the map entitied Figure 1.2565 Monitoring Locations (Figure 2.EPL 12866 Monitoring Locations is reported in the AEMR/AR.         2 MUIT CONDITIONIS       Veather station context of the property Templemore tabelied (Figure 2.EPL 12866 Monitoring Locations (Figure 2.EPL 12866 Monitoring Locations (Figure 2.EPL 12866 Monitoring Locations (Figure 2.EPL 12866 Monitoring Loc		Discharge water quality Discharge monitoring mo		Discharge water quality	16 located on the southern side of the premises labelled 'SD16' on the map titled "EPL 12365 monitoring Locations Onsite and Offsite' received by the EPA on 14 October		
P1.4     The following point(s) in the table are identified in this licence for the purpose of the monitoring 0 weather parameters at the point.     Site observations EPL 12365 Monitoring Locations 0 mile and 0ffsite* received by the EPA on 19 (DOC19/1074186).     Auditor observed sample of EPA ID locations while on Site and reviewed monitoring records. Map       V1     Veather station location of the map entitled "Figure 2 EPL 0.2365 Monitoring Locations 0 mile received by the EPA on 19 (DOC19/1074186).     Site observations EPL 12365 Monitoring Locations while on Site and reviewed monitoring records. Map       V1     Weather station Control of the map entitled "Figure 2 EPL 0.2365 Monitoring Locations 0 mile of the EPA on 21 April 2016 (DOC19/128744-02).     Site observations EPL 12365 Monitoring Locations Map       3 LIMIT CONDITIONS     Site Condition of Location 0 mile of the EPA on 21 April 2016 (DOC19/128744-02).     Site observations EPL 12365 Monitoring Locations 0 mile on Site and reviewed monitoring records. Map		26	Discharge water quality	Discharge water quality	Basin 23B located on the south- western side of the premises labelled 'SB23B' on the map titled "EPL 12365 Monitoring Locations Onsite and Offsite' received by the EPA on 14 October		
parameters at the point.       EPA ID no.       Type of Monitoring Point       Description of Location       EPL 12365 Monitoring Locations       While on Site and reviewed monitoring records.         W1       Weather analysis       Weather station located on the property 'Templemore' labelled 'W1' on the map entitled 'Figure 2 - EPL 12365 Monitoring Locations Offsite' received by the EPA on 21 April 2016 (DOC16/128744-02).       While on Site and reviewed monitoring records.         3 LIMIT CONDITIONS       Market on the property of the temperature of temperature of the temperature of temperat		27	Discharge water quality	Discharge water quality	Basin 18 located on south eastern side of premises labelled 'SB24B' on the map titled "EPL 12365 Monitoring Locations Onsite and Offsite" received by the EPA on 19 November 2019		
EPA ID no.     Type of Monitoring Point     Description of Location       W1     Weather analysis     Weather station located on the property 'Templemore' labelled 'W1' on the map entitled 'Figure 2 - EPL 12365 Monitoring Locations Offsite' received by the EPA on 21 April 2016 (DOC16/128744-02).     reported in the AEMR/AR.       3 LIMIT CONDITIONS     Type of Monitoring Point     Description of Location     Image: Non-the property 'Templemore' labelled 'W1' on the map entitled 'Figure 2 - EPL 12365 Monitoring Locations Offsite' received by the EPA on 21 April 2016 (DOC16/128744-02).     Image: Non-the property 'Templemore' labelled 'W1' on the map entitled 'Figure 2 - EPL 12365 Monitoring Locations Offsite' received by the EPA on 21 April 2016 (DOC16/128744-02).	P1.4	<b>-</b> ·		I in this licence for the purp	bose of the monitoring of weather	EPL12365 Monitoring Locations	while on Site and reviewed monitoring records.
property 'Templemore' labelled W1' on the map entitled 'Figure 2 - EPL 12365 Monitoring Locations Offsite' received by the EPA on 21 April 2016 (DOC16/128744-02). 3 LIMIT CONDITIONS		EPA ID no.	Type of	Monitoring Point	Description of Location	мар	
		W1	Weather		property 'Templemore' labelled 'W1' on the map entitled 'Figure 2 - EPL 12365 Monitoring Locations Offsite' received by the EPA on 21 April 2016		
L1 Pollution of Waters	3 LIMIT	CONDITIONS					
	L1 Poll	ution of Waters					

L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with	Note	Noted
	section 120 of the Protection of the Environment Operations Act 1997.		

	Compliance	Recommendations
s.	С	
	Note	

Item			Assessment	Requirement			Reference/ Evidence	Comments	Compliance	Recommendations
L2 Con	centration Limits						1	1	1	1
L2.1	For each monitori the concentration concentration limi	of a pollutant disc	charged at that poi	nt, or applied to th	· •	- ,	Incident notification email to the NSW EPA 20 February 2020 EPL Monitoring Report 01 Jan 2020 EPL Monitoring Report 02 February 2020 EPL Monitoring Report 03 March 2020 EPL Monitoring 04 April 2020 EPL Monitoring Report 05 May 2020 EPL Monitoring Report 06 June 2020 EPL Monitoring 2017, 2018, 2019 Show Cause Letter from the NSW EPA 25 June 2020	TCM had a wet weather discharge event from the EPL ID 3 (SB14) on 8 February 2020. Oil and grease was recorded to be 11mg/L exceeding the 10mg/L limit. The EPA issued a Show Cause on 25 June 2020 and TCM responded on 9 July 2020. TCM is awaiting a response from EPA. The TSS limit was exceeded at EPL ID 1, 2, 3 and 27. However, this was not considered an exceedance, as TSS limits do not apply after more than 38.3mm of rainfall in 5 days preceding the discharge. TCM had a discharge from EPL ID 1 on 21 October 2018. TSS value was recorded to be 3,970.However this was not considered an exceedance as TSS limits do not apply after more than 38.3mm of rainfall in 5 days	NC	Comply with the direction from EPA with regard to the Show Cause.
L2.2	Where a pH quali specified ranges.	•	I in the table, the s	pecified percenta	ge of samples mus	st be within the	<ul> <li>EPL Monitoring Report 01 Jan 2020</li> <li>EPL Monitoring Report 02 February 2020</li> <li>EPL Monitoring Report 03 March 2020</li> <li>EPL Monitoring 04 April 2020</li> <li>EPL Monitoring Report 05 May 2020</li> <li>EPL Monitoring Report 06 June 2020</li> <li>EPL Monitoring 2017, 2018, 2019</li> </ul>	Auditor review of EPL monitoring did not identify exceedances of the pH quality limit.	С	
L2.3	To avoid any dou those specified in		loes not authorise	the pollution of wa	aters by any polluta	ant other than	Note	Noted	Note	
L2.4	Water and/or Lan Point 1,2,3,24,26		imits				Note	Noted	Note	
	Pollutant	Unit of measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit				
	Oil and grease	Milligrams per litre	-	-	-	10				
	рН	рН	-	-	-	6.5 - 8.5				
	prin     prin     -     -     -     0.5 - 0.5       Total     Milligrams per suspended solids     -     -     -     50									

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
L2.5	<ul> <li>The Total Suspended Solids concentration limits specified for Points 1, 2, 3, 24, 26 and 27 may be exceeded for water discharge optimed that:</li> <li>a) the discharge occurs solely as a result of rainfall measured at the premises that exceeds 38.4 millimetres over any consecutive 5 day period immediately prior to the discharge occurring; and</li> <li>b) all practical measures have been implemented to dewater all sediment dams within 5 days of rainfall such that they have sufficient capacity to store run off from a 38.4 millimetre, 5 day rainfall event.</li> <li>Note: 38.4 mm equates to the 5 day 90%ile rainfall depth for Gunnedah sourced from Table 6.3a Managing Urban Stormwater: Soils and Construction Volume 1: 4th edition, March 2004.</li> </ul>	Interview with Environmental Superintendent EPL Monitoring Report 02 February 2020 Incident Notification Letter from the NSW EPA 20 February 2020 Show Cause Letter from the NSW EPA 25 June 2020	<ul> <li>TCM had a wet weather discharge event from the EPL ID 3 (SB14) on 8 February 2020. The TSS limit was recorded to be 17,700 mg/L. However, this was not considered an exceedance, as TSS limits do not apply after more than 38.3mm of rainfall in 5 days preceding the discharge.</li> <li>The EPA undertook an investigation of the discharge from LDP 3 (SB14) on 8 February 2020. The EPA's investigation found that the discharge from SB14 may have polluted waters, in that:</li> <li>The discharge exceeded licence limit conditions for Oil and Grease, and</li> <li>At the time of discharge the Licensee did not meet all the requirements of condition L2.5, in that it did not appear to take all reasonable steps to ensure that all sediment dams were emptied within 5 days of the last preceding rainfall event. Had this occurred, exceedance of the discharge limits may have been avoided.</li> <li>SB14 discharges into Goonbri Creek, which defined as waters under the Act.</li> </ul>	NC	Duplicate NC. Refer to L2.1 above
L3 Wa	ste				
L3.1	The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.		No waste generated outside the premises is received at the site.	NT	
L3.2	This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if those activities require an environment protection licence.	Note	Noted	Note	
L3.3	Reject material from the Whitehaven CHPP can be disposed of at the premises in accordance with the disposal method outlined in the Environmental Assessment titled 'Tarrawonga Coal Project - Environmental Assessment', prepared by Resource Strategies, or as modified, or as otherwise approved by the EPA.	MOP 2015-2020	Details of emplacement of coal rejects are described in the MOP.	С	

ltem		A	Assessment Requirer	nent		Reference/ Evidence	Comments	Compliance	Recommendations
L4 Noi	se Limits								
L4.1	Noise generated a	t the premises must no	ot exceed the noise lim	its in the table below.		Annual Return Statement of	Quarterly attended noise monitoring resulted in	NC	Comply with the directions of
	Locality and Location	Day- LAeq (15 minute)	Evening- LAeq (15 minute)	Night- LAeq (15 minute)	Night- LA1 (1 minute)	Compliance 2019 – 2020 Annual Review 2019	one occurrence of the attended monitoring measurement of 42dB (including 2dB Noise Modifying factor applied as per the Noise Policy		EPA.
	All other surrounding residences	35	35	35	45	EPL Monitoring 2019, Table 4 – Quarterly Monitoring	for Industry) at the 'Coomalgah' monitoring point. TCM engaged a separate noise specialist to take supplementary operational noise monitoring. The results showed that throughout		
							the entire period there were no recorded noise non-compliances. TCM is awaiting feedback from EPA with regard to this incident.		
_4.2	a) identified Approval;	; or	t to acquisition or noi	ise mitigation on requ	es that are: uest within the Project see and the land owner.	Interview with Environmental Superintendent	Interview with the Site Environmental Superintendent did not identify any relevant residences.	NT	
_4.3	For the purpose of	the table above:				Note	Noted	Note	
	a) Day is de Public Ho	-	m 7am to 6pm Monda	y to Saturday and 8ar	n to 6pm Sundays and				
	c) Night is d	s defined as the period lefined as the period fr ic Holidays.		day to Saturday and	10pm to 8am Sundays				
_4.4	Determining com	pliance				Interview with Environmental Superintendent	Monitoring locations are stated in the Noise Management Plan (2015) and the quarterly	C (Obs)	Continue to discuss night-time noise monitoring locations wit
	To determine com	pliance:				Site Observations	monitoring reports. Auditor observed a sample of noise monitoring locations while on Site. Interview with Site Environmental Superintendent indicated that noise monitoring cannot be conducted within 30 m of the residence at night due to privacy concerns. TCM		the EPA.
	a) with the L must be l	N ,	imits in the Noise Limi	its table, the noise me	easurement equipment	Quarterly Noise Compliance Monitoring June 2020			
	,	mately on the property rty boundary closest to		/ dwelling is situated 3	30 metres or less from	Noise Management Plan (2015)			
		d more than 30 metre	-	-	welling on the property e premises; or, where		requested a variation to the EPL condition. The EPA advised that this standard condition could not be amended but acknowledged that		
	iii) within	approximately 50 metre	es of the boundary of a	a National Park or a N	ature Reserve.		compliance with this condition could not be met.		
		LA1(1 minute) noise lir ocated within 1 metre o		ts table, the noise me	easurement equipment				
	c) with the n	oise limits in the Noise	Limits table, the noise	e measurement equipr	ment must be located:				
		-		-	cation; or rt (a) or part (b) of this				
L4.5		et out in the Noise Limit	s table apply under all	meteorological condit	tions except for the	Quarterly Noise Compliance Monitoring December 2019	Auditor review identified weather conditions outlined in the Quarterly Noise Compliance	С	
	0	eds greater than 3 met	tres/second at 10 metr	es above ground leve	l; or		Monitoring 2019. Results Tables in Appendix A record noise measurement results and weather monitoring.		

Item	Assessment Requirement	Reference/ Evidence	Comments	-
	<ul> <li>b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or</li> <li>c) Stability category G temperature inversion conditions.</li> </ul>			
	<ul> <li>For the purposes of this condition:</li> <li>a) Data recorded by the meteorological station identified as EPA Identification Point(s) W1 must be used to determine meteorological conditions; and</li> </ul>			
	b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.			
L4.6	For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.	Quarterly Noise Compliance Monitoring December 2019	Section 3.4 of the quarterly noise monitoring identifies modifying factors.	
L5 Bla	sting			
L5.1	The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time and at any point within 30 metres of any non project related residential building or other noise sensitive location. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Environmental Blast Monitoring 2017, 2018, 2019, 2020	Auditor reviewed blast monitoring records. No exceedances of 120 dB.	
L5.2	The overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) for more than five per cent of the total number of blasts over each reporting period at any time and at any point within 30 metres of any non-project related residential building or other noise sensitive location. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Environmental Blast Monitoring 2017, 2018, 2019, 2020	Auditor reviewed blast monitoring records. No exceedances of 115 dB in more than 5% of the total number of blasts at each dwelling.	
L5.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time and at any point within 3.5 metres of any non project related residential building or other noise sensitive location. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Environmental Blast Monitoring 2017, 2018, 2019, 2020	Auditor reviewed blast monitoring records. No exceedances of ground vibration of 10mm/s.	
L5.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec for more than five per cent of the total number of blasts over each reporting period at any point within 3.5 metres of any non project related residential building or other noise sensitive location. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Environmental Blast Monitoring 2017, 2018, 2019, 2020	Auditor reviewed blast monitoring records. No exceedances of ground vibration of 5mm/s.	
L5.5	Blasting operations on the premises must only be carried out between the hours 9am to 5pm, Monday to Saturday, inclusive.	Environmental Blast Monitoring 2017, 2018, 2019, 2020	Auditor reviewed blast monitoring records, no blasts occurred on Sunday. Time of blast was recorded to be 00:00:00 for approximately 60% of blasts in 2018. Time was not recorded for 4 blast events between 18 and 30 May 2020 and one blast even on 14 July 2020. All other blasts were recorded to be carried out between the hours 9am to 5pm.	
L5.6	The hours during which blasting is permitted may be varied by the EPA upon consideration of the impact any variation may have on the amenity of the residents in the locality.	Note	Noted	-

	1	
	Compliance	Recommendations
	C	
D	С	
) Ie	С	
D	С	
)	С	
%	C (Obs)	Ensure accurate blast time is recorded.
	Note	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
L5.7	Blasting at the premises is limited to 1 blast on each day on which blasting is permitted. Note: Additional blasts are permitted where it is demonstrated to be necessary for safety reasons and the EPA and neighbours have been notified of the intended blast prior to the additional blast being fired. Note: Condition L5.7 does not apply to blasts that generate ground vibration of 0.5mm/s or less at any residence on privately-owned land.	Environmental Blast Monitoring 2017, 2018, 2019, 2020.	Auditor reviewed blast monitoring records, blasts were limited to one per day.	С	

### 4 Operating Conditions

Activities must be carried out in a competent manner This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Site Observations Interview with Environmental Superintendent Penalty Notice 09 April 2020	Good housekeeping was observed. Materials appeared to be appropriately stored and secondary containment was provided as required. The waste storage area appeared well maintained.       C         There is a requirement for all personnel and visitors to complete a general induction, which includes safety and environmental information. Site familiarisation is conducted upon arrival with topics including PPE , hazard awareness, environmental hazards, noise, cultural heritage dust, waste, water, lighting, and restraints. Additional task-specific training is provided to contractors.         Competencies are recorded in Pegasus and recorded on a log in sticker, which is required to be worn in a manner that ensure it is visible at all times. Information is passed from the Site Environmental Superintendent to team leaders / mangers at the 9am meeting. Information then is passed through to the individual team at toolboxes. Any incidents or enforcements are discussed at the 9am meeting.         TCM received a Penalty Notice (09 April 2020) for a contravention of Condition 01 – Failing to undertake activities in a competent manner. The Notice was in relation to the embankment failure at Sediment Dam 2 causing sediment-laden water to discharge from the Site onto Boggabri Coal Mine. TCM self-reported the incident on 10 February 2020. TCM is currently working with environmental professionals to implement water management improvements including staff training, risk assessment, and water pumps. The identified non-compliances recorded against the EPL limits as discussed against other relevant conditions (such as the Penalty Notice discussed above) are not considered reflective of a lack of competence or effect with regard to

ltem	Assessment Requirement	Reference/ Evidence	Comments
02	Maintenance of plant and equipment		
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.	Site Observations Show Cause Letter from the NSW EPA 25 June 2020	During the Site inspection, no observations were made of unmaintained or inappropriately operated equipment. The EPA undertook an investigation into the discharge of sediment laden water from sediment dam SB 14 on or around 8 February The EPA's investigation found that the discharg from SB14 may have polluted waters, in that the licensee appears to have failed to maintain and operate SB14 in a proper and efficient manner prior to the discharge on the 8 February 2020. Interview with Site Environmental Superintendent indicated TCM is awaiting a fina- response from the EPA regarding this matter. TCM is currently working with environmental professionals to implement water management improvements including staff training, risk assessment, and water pumps.
O3	Dust		
O3.1	All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Interview with Environmental Superintendent Site Observations	Dust suppression is provided through water carts, and HydroTac dust-a-side (sugar cane molasses) used when needed. Water spray is used on the conveyor from the crusher.
O3.2	Trucks transporting coal from the premises must be covered immediately after loading to prevent wind- blown emissions and spillage. The covering must be maintained until immediately before unloading the trucks.	Site Observations	Auditors observed trucks leaving the Site with covers.
O4	Other operating conditions Blast Fume		
O4.1	Offensive blast fume must not be emitted from the premises. Definition: <i>Offensive blast fume</i> means post-blast gases (whether visible or invisible, odorous or odourless) from the detonation of explosives at the premises that by reason of their nature, duration, character or quality, or the time at which they are emitted, or any other circumstances: (i) are harmful to (or is likely to be harmful to) a person that is outside the premises from which it is emitted, or (ii) interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted.	Interview with Environmental Superintendent Blast Management Plan 2015 2020 Complaints Register 2019 Complaints Register 2018 Complaints Register 2017 Complaints Register	No complaints relating to blast fume were identified during the audit period. Interview with Site Environmental Superintendent indicated no blast fumes above 3A /B. Environmental conditions are reviewed prior to blasting as per blast management plan.
Polluti	on Incident Response Management Plan		
04.2	The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The PIRMP must document systems and procedures to deal with all types of incidents (e.g. spills, explosions, fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment.	Pollution Incident Response Management Plan 2020	PIRMP current (last update 2020). Current version on website.

	Compliance	Recommendations
Э	NC	Duplicate NC. Refer above
e		
•		
1		
	С	
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	С	
	С	

#### TABLE A2 - **EPL** Compliance with Environment Protection Licence (EPL) 12635

ltem		Assessmen	t Requirement		Reference/ Evidence	Comments	Compliance	Recommendations
04.3	The licensee must keep the PIRMP on the premises at all times.				Site Observations	PIRMP on noticeboard on breezeway and in the office in the Red Folder	C	
5 Moni	itoring and Recording C	Conditions						
11	Monitoring records							
/1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.			EPL Monthly Monitoring Data on https://whitehavencoal.com.au/our- business/our-assets/tarrawonga- mine/	The auditor reviewed the web address below and determined that it demonstrates all recorded monthly monitoring data. <u>https://whitehavencoal.com.au/our-business/our- assets/tarrawonga-mine/</u>	С		
11.2	<ul> <li>All records required to be kept by this licence must be:</li> <li>a) in a legible form, or in a form that can readily be reduced to a legible form;</li> <li>b) kept for at least 4 years after the monitoring or event to which they relate took place; and</li> <li>c) produced in a legible form to any authorised officer of the EPA who asks to see them.</li> </ul>			EPL Monthly Monitoring Data on https://whitehavencoal.com.au/our- business/our-assets/tarrawonga- mine/	The monthly monitoring data recorded on the Whitehaven website demonstrated the four year retaining of information requirement (records available from 2014) and was legible in pdf format.	С		
11.3	<ul> <li>The following records must be kept in respect of any samples required to be collected for the purposes of this licence:</li> <li>d) the date(s) on which the sample was taken;</li> <li>e) the time(s) at which the sample was collected:</li> <li>f) the point at which the sample was taken; and</li> <li>g) the name of the person who collected the sample.</li> </ul>			COC from ALS 6 March 2020 and 5 April 2020 HVAS sampling Groundwater 11 September 2019 Dust COC 16 April 2020 Surface water COC May 2020 Noise monitoring reports	The auditor reviewed a sample of noise monitoring reports and certificates of conformity (COC) for HVAS, groundwater, dust, and surface water. The review identified that a record of the sample date, sample time, sample point, and name of the person who collected the sample are kept.	С		
12	Requirement to moni	tor concentration of polluta	nts discharged					
12.1	must monitor (by samp	scharge point or utilisation are ling and obtaining results by a see must use the sampling me e other columns:	analysis) the concentration	of each pollutant specified	Note	Noted	Note	
12.2	Air monitoring requiren <b>Point 28</b>	nents			Annual Return Non-Compliance Detail 2017 – 2018	The requirement for continuous monitoring was reportedly not met due to temporary outages as	С	
	Pollutant	Units of measure	Frequency	Sampling method	Annual Return Non-Compliance Detail 2018 – 2019	a result of technical issues such as internet drop out or temporary instrument failure.		
	PM10	micrograms per cubic metre	Continuous	AM-22	Annual Return Statement of Compliance 2019 – 2020 Letter from NSW EPA	ERM reviewed a letter from EPA confirming that 90% data capture is compliant with the condition.		
12.3	Water and/or Land Monitoring Requirements Point 1,2,3,24,26,27			Annual Return Non-Compliance Detail 2017 – 2018	Auditor review of statement of compliance report (2019 – 2020) and annual return non-	С		
	Pollutant	Units of measure	Frequency	Sampling method	Annual Return Non-Compliance Detail 2018 – 2019	compliance detail (2017 – 2018, 2018 – 2019) identified that during the reporting period of the		
	Conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample	Annual Return Statement of Compliance 2019 – 2020	audit, no non-compliances were recorded.		
	Oil and grease	рН	Special Frequency 1	Grab sample				
	pH	рН	Special Frequency 1	Grab sample				

	Assessme	ent Requirement		Reference/ Evidence	Comments	Compliance	Recommendatio
<u> </u>				Evidence			
Total suspended solids	Milligrams per litre	Special Frequency 1	Grab sample				
Point 5,6							
Pollutant	Units of measure	Frequency	Sampling method				
Conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample				
Oil and grease	Milligrams per litre	Special Frequency 1	Grab sample				
рН	рН	Special Frequency 1	Grab sample				
Total suspended solids	Milligrams per litre	Special Frequency 1	Grab sample				
Point 9,10,12	1	1					
Pollutant	Units of measure	Frequency	Sampling method				
Conductivity	microsiemens per centimetre	Every 6 months	Grab sample				
Lead	Milligrams per litre	Every 6 months	Grab sample				
рН	рН	Every 6 months	Grab sample				
Standing Water Level	Metres	Every 6 months	In situ				
Point 13							
Pollutant	Units of measure	Frequency	Sampling method				
Conductivity	microsiemens per centimetre	Quarterly	Grab sample				
Oil and grease	Milligrams per litre	Quarterly	Grab sample				
рН	рН	Quarterly	Grab sample				
Total suspended solids	Milligrams per litre	Quarterly	Grab sample				
For the purposes of the table(s) above Special Frequency 1 means the collection of samples as soon as practicable after a discharge from points 1, 2, 3, 24, 26, and 27 commences and in any case not more than 12 hours after a discharge commences.				Interview with Environmental Superintendent Wet Weather Discharge Results Register	Date and time of identification of discharge and collection of samples is recorded through photos. It is also recorded in the Wet Weather Discharge Results Register and the notification to the EPA. Auditor review of the register identified that the discharge from SD17 on 21 October 2018 was identified on the date that the	C	
					sample was taken. TCM plan to install real time monitoring of water levels with attached camera during FY21.		

Item		As	sessment Requiren	nent		Reference/ Evidence	Comments
M3 Tes	sting Methods – Conc	entration Limits					
M3.1	Monitoring for the con must be done in acco		ant emitted to the air	required to be conduc	Annual Return Non-Compliance Detail 2017 – 2018	TCM incorrectly reported that real time air quality monitor does not meet AM-22 in their	
		ology which is require on of the pollutant; or	ed by or under the Ac	t to be used for the tes	ting of the	Real Time Air Quality Monitoring Data in Sentinex	2017 – 2018 Annual Return leading to a non- compliance. The auditor reviewed real time
		equirement is imposed lires to be used for the	-	any methodology whi	ch a condition of this		monitoring for PM10 and PM2.5
		y approved in writing	-	or by a condition of thi urposes of that testing	-		
	Note: The <i>Protection</i> purposes to be condu	of the Environment O	with test methods con	•	ires testing for certain on "Approved Methods		
	Monitoring for the con must be done in acco	-	ant emitted to the air	required to be conduc	ted by this licence		
	a) any method		d by or under the Ac	t to be used for the tes	ting of the		
		equirement is imposed ires to be used for the	-	any methodology which	ch a condition of this		
	c) if no such re	equirement is imposed y approved in writing l	by or under the Act	or by a condition of thi irposes of that testing	•		
M3.2	pollutant discharged Approved Methods P tests are conducted. Note: The <i>Protection</i> purposes to be condu	to waters or applied to ublication unless and of the Environment O ucted in accordance w	o a utilisation area mu ther method has been operations (Clean Air) vith test methods con		nce with the	ALS Reports	NSW EPA approved methodology used by ALS regarding water monitoring and analysis in June 2018.
M4 Wa		Analysis of Air Polluta	ants in NSW".				
M4.1	Peather Monitoring         For each monitoring point specified in the table below the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns.         Point W1					Annual Return Non-Compliance Detail 2017 – 2018, 2018 – 2019, 2019 – 2020 EPA Letter	TCM incorrectly reported a non-compliance with this condition due to temporary outages as a result of technical issues such as internet drop out or temporary instrument failure. The auditor sighted a letter from EPA confirming that 90%
	Parameter	Units of Measure	Frequency	Averaging Period	Sampling Method		data capture is compliant with the condition.
	Temperature @ 2 metres	°C	Continuous	15 minute	AM-4		
	Wind direction @ 10 metres	o	Continuous	15 minute	AM-2 & AM-4		
	Wind speed @ 10 metres	m/s	Continuous	15 minute	AM-2 & AM-4		
	Sigma theta @ 10	o	Continuous	15 minute	AM-2 & AM-4		

	Compliance	Recommendations
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ltem	Assessment Requirement					Reference/ Evidence	Comments	Compliance	Recommendations
	metres								
	Rainfall	mm/h	Continuous	1 hour	AM-4				
	Solar Radiation	W/m2	Continuous	15 minute	AM-4				
	Temperature @ 10 metres	°C	Continuous	15 minute	AM-4				
	Additional requirements - Siting - Measurement				AM-1 & AM-4 AM-2 & AM-4				
M4.2	The meteorological parameters specified		nust be maintained so as	s to be capable of co	ntinuously monitoring the	Interview with Environmental Superintendent Sentinex Reports	Interview with Site Environmental Superintendent indicates Novicom maintains the weather station. Auditor reviewed reports available in Sentinex and identified the last service as wind tunnel calibration on 7 April 2020 (report date). 12M maintenance checked all sensors on 10 March 2020. All passed.	С	
M5 Rec	ording of pollution	complaints							
M5.1			ord of all complaints mains ing from any activity to		any employee or agent of oplies.	Complaints Register	Complaints Register held online dating back to 2014. No complaints since 2017.	С	
M5.2						Complaints Register	Complaints Register held online includes the date, time, nature, and method of the complaint, and the investigation and action taken.	C	
M5.3	The record of a com	plaint must be ke	pt for at least 4 years af	ter the complaint wa	s made.	Complaints Register	Complaints Register held online dates back to 2014.	С	
M5.4	The record must be	produced to any	authorised officer of the	EPA who asks to se	e them.	Note	Noted	NT	
M6 Tele	phone complaints l	ine							
M6.1	receiving any compl	aints from membe	operating hours a teleph ers of the public in relati otherwise specified in t	on to activities condu	for the purpose of icted at the premises or	https://whitehavencoal.com.au/our- business/our-assets/tarrawonga- mine/	Number displayed on website. Tested during audit.	С	
M6.2		• •	the complaints line tele community knows how to		he fact that it is a	https://whitehavencoal.com.au/our- business/our-assets/tarrawonga- mine/	Number displayed on website.	C	
M6.3	The preceding two c	onditions do not a	apply until 3 months afte	er: the date of the iss	ue of this licence.	Note	Noted	Note	

С	
С	
С	
NT	
С	
С	
Note	

Item						
		Assessme	ent Requirement		Reference/ Evidence	Comments
M7 Ot	her noise monitoring a	nd recording conditions				
M7.1	specified in Column 1.	ooint specified below, the Lice . The Licensee must use the opposite in the other columns 4	sampling method, units of r	•	Annual Return Statement of Compliance 2019 – 2020 Quarterly Noise Compliance Monitoring March 2020 Quarterly Noise Compliance	TCM has previously reported a technical non- compliance with real time noise monitor (N2) not continuously monitoring noise levels due to downtimes (>0.1%) due to periodic maintenance or communication failure resulting in minor data
	Parameter	Units of Measure	Frequency	Sampling Method	Monitoring June 2020	gaps. EPA has subsequently confirmed that 90% data capture complies with this condition.
	Ambient Noise	LAeq (15 minute) LAmax LA1 LA10 LA90 LAmin	Quarterly	As detailed in the most recently approved Noise Management Plan" for the premises.	Quarterly Noise Compliance Monitoring September 2019 Quarterly Noise Compliance Monitoring December 2019 Noise Management Plan 2015	
M7.2	Points: TB2				Annual Return Statement of Compliance 2019 – 2020	A non-compliance was reported in 2017 as the field location reportedly did not align with the
	Parameter	Units of Measure	Frequency	Sampling Method	Annual Datum Nan Oanalianaa	location listed in the EPL. This has been addressed in the variation of EPL12365
	Blast Noise	DB(Lin Peak)	Every Blast	Type 1 Noise Blast Logger	Annual Return Non-Compliance Detail 2019 - 2020	approved in January 2020.
	Blast Vibration					
		mm/s	Every Blast	Geophone Logger or Similar		
M7.3		nditions M7.1, M7.2 and M7.3	B the monitoring locations a Description of Locati Portable monitor Within 30 metres of the boundary as shown wi 'Matong' property bour entitled "EPL12365 Mo and Offsite" received b (DOC19/978674). Within 30 metres of the 'Barbers Lagoon' as sh "EPL12365 Monitoring	Similar are described as: ion e 'Matong' property	Site Observations	The auditor observed a sample of noise monitoring locations in the field. Monitoring locations are stated in the NMP and in quarterly monitoring reports. Interview with Site Environmental Superintendent indicated that noise monitoring cannot be conducted within 30 m of the residence at night. TCM requested a variation to the EPL condition, however, this was not approved.
M7.3	For the purpose of cor EPA ID No. N2 TN2		B the monitoring locations a     Description of Locati     Portable monitor     Within 30 metres of the     boundary as shown wi     'Matong' property bour     entitled "EPL12365 Mo     and Offsite" received b     (DOC19/978674).     Within 30 metres of the     'Barbers Lagoon' as sh     "EPL12365 Monitoring     Offsite" received by EF     (DOC19/978674).     Within 30 metres of the     'Bungalow' as shown of     "EPL12365 Monitoring     "EPL12365 Monitoring	Similar are described as: ion e 'Matong' property ithin 30 metres of the ndary as shown on the map onitoring Locations Onsite by EPA on 14 October 2019 e residence on the property hown on the map entitled g Locations Onsite and PA on 14 October 2019 e residence on the property	Site Observations	<ul> <li>monitoring locations in the field. Monitoring</li> <li>locations are stated in the NMP and in quarterly</li> <li>monitoring reports.</li> <li>Interview with Site Environmental</li> <li>Superintendent indicated that noise monitoring</li> <li>cannot be conducted within 30 m of the</li> <li>residence at night. TCM requested a variation to</li> <li>the EPL condition, however, this was not</li> </ul>

	Compliance	Recommendations
t e	С	
	C	
0	NC	Duplicate NC. Refer above

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
	Coomalgah as shown on the map entitled "EPL12365 Monitoring Locations Onsite and Offsite" received by EPA on 14 October 2019 (DOC19/978674).				
	Note: Point N2 is a portable monitor enabling the monitor to be relocated to areas of potential greatest impact. The licensee is responsible to ensure that it is located at the most suitable location.				
	Note: The location, frequency of monitoring and the parameters to be monitored may be varied by the EPA once the variability of the noise impact is established.				
M7.4	To assess compliance with the noise limits presented in the Noise Limits table, attended noise monitoring must be undertaken in accordance with the condition titled Determining Compliance, outlined above, and:	Quarterly Noise Compliance Monitoring June 2020	Auditor review of report identified that all requirements are met.	С	
	<ul><li>a) at each one of the monitoring locations TN2, TN3 and TN4;</li><li>b) occur Quarterly in a reporting period;</li></ul>				
	c) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of:				
	i) 1.5 hours during the day;				
	ii) 30 minutes during the evening; and				
	iii) 1 hour during the night.				
	d) occur for three consecutive operating days.				

#### 6 Reporting Conditions

#### R1 Annual return documents

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R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:	POEO Public Register	Auditor reviewed the POEO Public Register and verified that Annual Returns were submitted for	C
	1. a Statement of Compliance,		the audit period ( $2017 - 2020$ ).	
	2. a Monitoring and Complaints Summary,			
	3. a Statement of Compliance - Licence Conditions,			
	4. a Statement of Compliance - Load based Fee,			
	<ol> <li>a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,</li> </ol>			
	6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and			
	7. a Statement of Compliance - Environmental Management Systems and Practices.			
	At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.			
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Note	Noted	Note
R1.3	Where this licence is transferred from the licensee to a new licensee:	Note	Noted	NT
	<ul> <li>a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and</li> </ul>			
	b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.			
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:	Note	Noted	NT

ltem	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
	<ul> <li>a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or</li> <li>b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.</li> </ul>				
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect <i>EPA</i> or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	POEO Public Register	ERM review the Annual Return received date on the POEO Public Register and verified the Annual Returns were received not later than 60 days after the end of each reporting period for the audit period.	С	
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	Annual Return submissions 2016 to 2019	Copies of annual returns from 2016 were available.	С	
R1.7	<ul> <li>Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:</li> <li>a) the licence holder; or</li> <li>b) by a person approved in writing by the EPA to sign on behalf of the licence holder.</li> <li>Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.</li> <li>Note: An application to transfer a licence must be made in the approved form for this purpose.</li> </ul>	Annual Return Statement of Compliance 2019 – 2020	Auditor sighted the Annual Return Statement of Compliance 2019 – 2020 and verified that is was certified by the Site Environment Superintendent.	С	

#### R2 Notification of environmental harm

2.1 Notifications must be made	by telephoning the Environment Line service on 131 555.	Incident and Exceedance Register	All exceedances recorded on the Incident and	С	
the incident occurred. Note: The licensee or its en material harm to the enviro	written details of the notification to the EPA within 7 days of the date on which nployees must notify all relevant authorities of incidents causing or threatening nment immediately after the person becomes aware of the incident in ements of Part 5.7 of the Act.	Incident notification (SD2) email to the EPA 10 February 2020 Email to the EPA with Environmental Event Report (SD2) attached 17 February 2020 Incident notification (SB14) email to the EPA 20 February 2020 Email to the EPA with Environmental Event Report (SB14) attached 27 February 2020	Exceedance Register were reported to the EPA. A discharge occurred from Dam SD2 on 10 February 2020. An incident notification email was sent to the EPA on 10 February 2020. An Environmental Event Report was sent to the EPA on 17 February 2020. An oil and grease exceedance was recorded at SB14 on 8 February 2020. TCM advised the EPA of the exceedance via email on 20 February 2020 (when the water quality results were received). TCM sent an Environmental Event Report on 27 February 2020.	C	

#### R3 Written Report

a) where this licence applies to premises, an event has occurred at the premises; orthe EPA 10 February 2020February 2020. An incident notification was sent to the EPA on 10 February 2020. Anb) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.Email to the EPA 01 February 2020February 2020. An incident notification was sent to the EPA on 10 February 2020. An Environmental Event Report (SD2) attached 17 February 2020and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.Notice to provide information (SD2) email from the EPA 03 March 2020S191 notice to provide information no later than 17 March 2020. TCM sent a response to the notice on 17 March 2020. TCM was issued a
Penalty Notice (09 April 2020) for contravention

Item	Assessment Requirement	Reference/ Evidence	Comments	(
		Incident notification (SB14) email to the EPA 20 February 2020 Email to the EPA with Environmental Event Report (SB14) attached 27 February 2020 Email to the EPA in response to notice (SB12) 29 April 2020. Show Cause Letter (SB14) from the EPA 25 June 2020	An oil and grease exceedance was recorded at SB14 on 8 February 2020. TCM advised the EPA of the exceedance via email on 20 February 2020 (when the water quality results were received). TCM sent an Environmental Event Report on 27 February 2020. A s191 notice was sent to TCM on 3 April 2020 and responded to by TCM on 29 April 2020. The EPA sent TCM a show cause letter on 25 June 2020 to be responded to no later than on 9 July 2020. A response to the show cause letter was sent to the EPA on 9 July 2020	
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	As above	Refer above	
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event: d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	As above	Refer above	
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	As above	Refer above	
R4 Oth	er reporting conditions			
R4.1	<ul> <li>A noise compliance assessment report must be submitted to the EPA within thirty (30) days of the completion of the quarterly noise monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:</li> <li>a) an assessment of compliance with noise limits detailed in the limit conditions of this licence; and</li> <li>b) an outline of any management actions taken within the monitoring period to address any exceedances of the limits detailed in the limit conditions of this licence.</li> </ul>	Annual Return Non-Compliance Detail 2017 – 2018	Last quarterly attended noise monitoring report for 2017 was not submitted within 30 days of completion of monitoring.	
R4.2	The licensee must report any exceedance of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedance becomes known to the licensee or to one of the licensee's employees or agents.	Environmental Blast Monitoring 2017, 2018, 2019, 2020	No exceedances of blasting criteria.	

	Compliance	Recommendations
ed at ne ults al 1 nd June June July was		
eport of	NC	Historic NC. No further action required.
	С	

ltem	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
7 Gene	eral Conditions				
G1	Copy of licence kept at the premises or plant				
G.1.1	A copy of this licence must be kept at the premises to which the licence applies.	Site Observations	Hard copy of EPL 12365 kept in folder in office.	С	
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Note	Noted	Note	
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Note	Noted	Note	

#### TABLE A3 – MINING LEASE 1579 COMPLIANCE WITH MINING LEASE 1579

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Mining	g Lease Conditions 2004		·	·	·
Notice	e to Landholders				
1.	Within a period of three months from the date of grant/renewal of this lease or within such further time as the Minister may allow, the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this lease has been granted/renewed; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.	Interview with Environmental Superintendent	Not related to this audit period	NT	
Mining	g, Rehabilitation, Environmental Management Process (MRE	MP) Mining Operation	s Plan (MOP)		
2. 1a	Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for:- ongoing mining operations and environmental	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	The Director-General satisfaction of performance is gained though the approval of the MOP (2015-2020) (TCPL 2019). Director-General acceptance of performance against the MOP reported in Annual Reviews. Based on the auditor's inspection, mining operations appear to be in accordance with the approved MOP. Refer to CoA.	С	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
2.1b	management; and ongoing monitoring of the project.	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019) Rehabilitation Flora and Fauna Monitoring for Tarrawonga Mine – Spring 2017 (Letter from ELA 22 February 2018) Rehabilitation Monitoring Report 2018 – Volume 1 (ELA 5 August 2020) Tarrawonga Mine Spring Monitoring 2019 (ELA 20 December 2019) Annual Review 2019	Evidence that woodland rehabilitation monitoring is occurring is available through annual spring monitoring (Letter from ELA 22 February 2018, ELA 5 August 2020, ELA 20 December 2019). According to the MOP, Flora and Fauna (including weeds and pests) will be monitored in accordance with the Stage 1 Biodiversity Management Plan (Whitehaven 2015b). Evidence of monitoring results are reported in the Annual Review (2019) Section 6.4. Refer to Biodiversity Audit Report.	C	
2.2	The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgment.	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	Mining Operations Plan (2015- 2020) (Amendment E) (TCPL 2019) Section 1 states that the document was prepared in accordance with the Mining Operations Plan (MOP) Guidelines (DTIRIS 2013).	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
2.3a	A Plan must be lodged with the Director-General:- (a) prior to the commencement of mining operations (including mining purposes);	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	Timing of condition predates this audit period.	С	
2.3b	subsequently as appropriate prior to the expiry of any current Plan; and	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	TCM was required to update MOP amendment C to report on progress against rehabilitation undertakings by 1 April 2019. TCM submitted amendment D on 15 March 2019. Amendment D was approved on 12 April 2019. The DRG issued a caution letter to TCM for continuing operations between the 2 and 11 April 2019 without an approved MOP. Amendment E was lodged on the 19 December 2019.	NC	Historic NC. No further action required.
2.3c	in accordance with any direction issued by the Director-General.	Section 240 Notice (Resources Regulator DPIE 18 April 2019) Acknowledgement of email (Email from the Resources Regulator 18 May 2020)	TCM received a Section 240 Notice (Resources Regulator DPIE 18 April 2019) directing TCM to (1) prepare and submit a <i>Tarrawonga Coal Mine</i> <i>Rehabilitation Report</i> by 29 November 2019, (2) prepare and submit a draft version on the Report by 23 September 2019, and (3) submit the	С	

No	Assessment Requirement	Reference/	Comments	Compliance	Recommendations
		Evidence		Status	
			names and relevant qualifications of the proposed person(s) to be engaged to prepare the Report by 30 May 2019. Evidence that direction 3 was satisfactorily completed is included in the Notice. TCM received an email (Resources Regulator 18 May 2020) acknowledging that the Report was received on 29 November 2019.		
2.4a	The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify:- area(s) proposed to be disturbed under the Plan;	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (Section 5), implementation (Section 7) and MOP Plans 3(a-f) (annual timeslices) and 4 (post mining landuse) Section 2.3.10 contains a table showing the material production schedule for six years.	С	
2.4b	mining and their rehabilitation methods(s) to be used and their sequence;	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (Section 5) and implementation (Section 7).	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
2.4c	areas to be used for disposal of tailings/waste;	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (Section 5), implementation (Section 7) and MOP Plans 3(a-f) (annual timeslices) and 4 (post mining landuse)	С	
2.4d	existing proposed surface infrastructure;	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (Section 5), implementation (Section 7) and MOP Plans 3(a-f) (annual timeslices) and 4 (post mining landuse)	С	
2.4e	existing flora and fauna on the site;	MOP Revision F – to be submitted	Updated plans identifying existing flora and fauna have been included in MOP Revision F (Plans 4B, C and D).	С	
2.4f	progressive rehabilitation schedules;	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (Section 5), implementation (Section 7) and MOP Plans 3(a-f) (annual timeslices) and 4 (post mining landuse)	С	
2.4g	areas of particular environment, ecological and cultural sensitivity and measures to protect these areas;	MOP Revision F – to be submitted	Updated plans identifying areas of environmental, ecological or cultural sensitivity have been included in MOP Revision F (Plans 4B, C and D).	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
2.4h	water management systems (including erosion and sediment controls)	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) MOP Plans 3(a – f) show water management structures.	С	
2.4i	proposed resource recovery; and	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	Resource recovery described in MOP (2015-2020) (TCPL 2019) Section 2.3.3.	С	
2.4j	where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining landuse/vegetation	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	Mine closure not in MOP period.	NT	
2.5	The Plan when lodged will be reviewed by the Department.	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	Evidence of DRG consultation described in MOP (2015-2020) (TCPL 2019) Section 1.6.2.	С	
2.6	The Director-General may within two (2) months of the lodgement of a Plan, require modification and re-lodgement.	Note	Noted	Note	
2.7	If a requirement in accordance with clause (6) is not issued within two (2) months of the lodgement of a Plan, the lease holder may proceed with implementation of the Plan.	Note	Noted	Note	
2.8	During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director- General and will be subject to the review process outlined in clauses (5) - (7) above.	Note	Noted	Note	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Annua	al Environmental Management Report (AEMR)				
3.1	Within 12 months of the commencement of mining operations and thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director-General.	DPIE 2019 Annual Review Acceptance Letter DPE 2018 Annual Review Acceptance Letter DPE Revised 2017 Annual Review Acceptance Letter Annual Review 2017 Annual Review 2018 Annual Review 2019	Auditor reviewed evidence of reports and letters demonstrating satisfaction of the Minister.	С	
3.2a	The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: the accepted Mining Operations Plan;	Annual Review 2019, Table 13 and Section 6.	Section 6 – Environmental Performance and Table 13 of the AEMR provides a review of environmental performance. Proposed improvements are provided under each sub heading within Section 6 of the AEMR.	С	
3.2b	development consent requirements and conditions;	Annual Review 2019, Section 6.	Proposed improvements and review of development consent requirements are provided under each sub heading within Section 6 of the AEMR.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
3.2c	Department of Environment and Conservation and Department of Planning licences and approvals;	Annual Review 2019, Section 6.	Proposed improvements and review of development consent requirements are provided under each sub heading within Section 6 of the AEMR.	С	
3.2d	any other statutory environmental requirements;	Annual Review 2019, Section 6.	Proposed improvements and review of statutory environmental requirements are provided under each sub heading within Section 6 of the AEMR.	С	
3.2e	details of any variations to environmental approvals applicable to the lease area; and	Annual Review 2019, Table 3.	Section 3.1 Table 3 of the AEMR outlines variations to any environmental approvals. The proposed improvements component of Section 6 also outlines the required modifications to environmental approvals applicable to the lease area.	С	
3.2f	where relevant, progress towards final rehabilitation objectives.	Annual Review 2019, Section 8.	Section 8 of the AEMR outlines progress towards final rehabilitation.	С	
3.3	After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice.	Interview: Site Environmental Superintendent	DRG have not requested any changes within the reporting period.	С	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
3.4	The lease holder shall, as and when directed by the Minister, co-operate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies and the local council.	Interview: Site Environmental Superintendent	Site Environmental Superintendent indicated in interview that the AEMR is submitted to relevant government agencies and the local council as required.	С	
Subsid	ence Management				
4a	The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface.	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
4b	Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the <i>Applications for Subsidence Management Approvals</i> <i>guidelines (EDG17).</i>	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
4c	The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the <i>Coal Mines Regulation Act 1982</i> , or the document <i>New Subsidence Management Plan Approval</i> <i>Process</i> - Transitional Provisions (EDP09).	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
4d	Subsidence Management Plans are to be prepared in accordance with the <i>Guideline for Applications for Subsidence Management Approvals.</i>	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
4e	Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document <i>New Approval Process for</i> <i>Management of Coal Mining Subsidence</i> - Policy.	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
Worki	ng Requirement				
5a	The lease holder must: Ensure that at least 27 competent people are efficiently employed on the lease area on each week day except Sunday or any week day that is a public holiday, or	Interview: Site Environmental Superintendent Annual Review 2019	Site Environmental Superintendent indicated in interview 150 people work on site on average. AEMR recorded that open cut mining activities generally occur between the hours of 6:30 am and 5:00 pm (day shift) and 4:30 pm and 3:00 am (night shift) from Monday to Friday. Processing of coal day shifts run almost every Saturday, mining activity day shifts have only occurred on occasion to meet production deadlines.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
5b	Expand on operations carried in the course of prospecting or mining the lease area, an amount of not less than \$472,500 per annum whilst the lease is in force.	Annual Group Exploration Report Tarrawonga Open Cut Mine 2017 – 2018 Annual Group Exploration Report Tarrawonga Open Cut Mine 2018 – 2019 Annual Group Exploration Report Tarrawonga Open Cut Mine 2019 – 2020	Auditor reviewed the annual exploration reports for TCM between 2017 and 2020 and identified that the expenditure on operations per annum is well above criteria of \$472,500.	С	
5	The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Not required	Noted	Note	
Contro	ol of Operations				
6a	If an Environmental Superintendent of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to:	Not required	Noted	Note	
	(i) cease working the lease; or				
	(ii) cease that part of the operation not complying with the Act or conditions;				
	until in the opinion of the Environmental Superintendent the situation is rectified.				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
6b	The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction.	Section 240 Notice (Resources Regulator DPIE 18 April 2019) Acknowledgement of email (Email from the Resources Regulator 18 May 2020)	TCM received a Section 240 Notice (Resources Regulator DPIE 18 April 2019) directing TCM to (1) prepare and submit a <i>Tarrawonga Coal Mine</i> <i>Rehabilitation Report</i> by 29 November 2019, (2) prepare and submit a draft version on the Report by 23 September 2019, and (3) submit the names and relevant qualifications of the proposed person(s) to be engaged to prepare the Report by 30 May 2019. Evidence that direction 3 was satisfactorily completed is included in the Notice. TCM received an email (Resources Regulator 18 May 2020) acknowledging that the Report was received on 29 November 2019.	C	
6c	A direction referred to in this condition may be served on the Mine Manager.	Noted	Noted	Note	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Repo	rts				
7a	The lease holder must provide an exploration report, within a period of twenty-eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following:	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
	Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period;				
7b	Details of expenditure incurred in conducting that exploration;	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
7c	A summary of all geological findings acquired through mining or development evaluation activities;	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
7d	Particulars of exploration proposed to be conducted in the next twelve months period;	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
7e	All plans, maps, Sections and other data necessary to satisfactorily interpret the report.	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Licen	ce to Use Reports				
8a	The lease holder grants to the Minister, by way of a non- exclusive licence, the right in copyright to publish, print and reproduce all exploration reports lodged in any forms for the full duration of copyright.	Not required	Noted	Note	
8b	The non-exclusive licence will operate as a consent for the purposes of Section 365 of the Mining Act 1992.	Not required	Noted	Note	
Confi	dentiality				
9a	<ul> <li>All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where:         <ul> <li>(i) the lease holder has agreed that specified reports may be made non-confidential.</li> </ul> </li> </ul>	Not required	Noted	Note	
	<ul> <li>(ii) reports deal with exploration conducted exclusively on area that have ceased to be part of the lease.</li> </ul>				
9b	Confidentiality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow –on title or any subsequent flow-on title, has terminated.	Not required	Noted	Note	
9c	The Director-General may extend the period of confidentiality.	Not required	Noted	Note	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Terms	of the Non-Exclusive Licence				
10a	The terms of the non-exclusive copyright licence granted under condition 8 (a) are: The Minister may sub-licence other to publish, print, adapt	Not required	Noted	Note	
	and reproduce but not on-licence reports.				
10b	The Minister and any sub-licensee will acknowledge the lease holder's and any identifiable consultant's ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database.	Not required	Noted	Note	
10c	The lease holder does not warrant ownership of all copyright in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright.	Not required	Noted	Note	
10d	There is no royalty payable by the Minister for the licence.	Not required	Noted	Note	
10e	If the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non- exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period not less that three months notice.	Not required	Noted	Note	
Blastin	ng	·	·		·
11a	<u>Ground Vibration</u> The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does	Environmental Blast Monitoring 2017	Auditor reviewed blast monitoring records. No exceedances of ground vibration of 10mm/s.	C	

No	Assessment Requirement	Reference/	Comments	Compliance	Recommendations
		Evidence		Status	
	not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any	Environmental Blast Monitoring 2018			
	dwelling or occupied premises as the case may be, unless determined otherwise by the Department of	Environmental Blast Monitoring 2019			
	Environment and Conservation.	Environmental Blast Monitoring 2020			
11b	Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment and Conservation.	Environmental Blast Monitoring 2017 Environmental Blast Monitoring 2018 Environmental Blast Monitoring 2019 Environmental Blast Monitoring 2020	Auditor reviewed blast monitoring records. No exceedances of 120 dB. No exceedances of 115 dB in more than 5% of the total number of blasts at each dwelling.	С	
Safety					
12	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director- General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Rehab	litation				
13a	Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan so that:- there is no adverse environmental effect outside the disturbed area and that the land is properly drained and protected from soil erosion. the state of the land is compatible with the surrounding land and land use requirements. the landforms, soils, hydrology and flora require no greater maintenance than that in the surrounding land. in cases where revegetation is required and native vegetation has been removed or damaged, the original species must be re- established with close reference to the flora survey included in the Mining Operations Plan. If the original vegetation was not native, any re-established vegetation must be appropriate to the area and at an acceptable density. The land does not pose a threat to public safety.	Field inspection (rehabilitation areas) Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	The MOP (2015-2020) (Amendment E) (TCPL 2019) includes rehabilitation planning with objectives to ensure public safety and to ensure a safe, stable, non-polluting mine site which has constructed landforms that drain to the natural environment. Field inspection of impact areas identified rehabilitation areas containing drainage control structures. TCM received a Section 240 Notice (Resources Regulator DPIE 18 April 2019) relating to risks of an adverse impact on the environment caused by activities including tube stock planting in multiple areas of the site consistent with the methodology employed in the Southern Emplacement Area of the site, which was a revegetation strategy that was not successful, and inconsistent with the successful and effective revegetation	C	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			strategy employed in the tail of the dump adjacent to the Tarrawonga/Boggabri lease boundary of the site. TCM was directed to prepare and submit a Tarrawonga Coal Mine Rehabilitation Report by 29 November 2019. TCM received an email (Resources Regulator 18 May 2020) acknowledging that the Report was received on 29 November 2019. Refer to Biodiversity Audit Report.		
13b	Any topsoil that is removed must be stored and maintained in a manner acceptable to the Director- General.	Interview: Site Environmental Superintendent Section 240 Notice (Resources Regulator DPIE 18 April 2019) Acknowledgement of email (Email from the Resources Regulator 18 May 2020)	TCM received a Section 240 Notice (Resources Regulator DPIE 18 April 2019) relating to risks of an adverse impact on the environment caused by activities including management of topsoil at the site. TCM was directed to prepare and submit a <i>Tarrawonga Coal</i> <i>Mine Rehabilitation Report</i> by 29 November 2019. TCM received an email (Resources Regulator 18 May	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			2020) acknowledging that the Report was received on 29 November 2019. Refer to Biodiversity Audit Report.		
14	The lease holder must comply with any direction given by the Director-General regarding the stabilisation and revegetation of any mine residues, tailings or overburden dumps situated on the lease area.	Section 240 Notice (Resources Regulator DPIE 18 April 2019) Acknowledgement of email (Email from the Resources Regulator 18 May 2020)	TCM received a Section 240 Notice (Resources Regulator DPIE 18 April 2019) directing TCM to (1) prepare and submit a <i>Tarrawonga Coal Mine</i> <i>Rehabilitation Report</i> by 29 November 2019, (2) prepare and submit a draft version on the Report by 23 September 2019, and (3) submit the names and relevant qualifications of the proposed person(s) to be engaged to prepare the Report by 30 May 2019. Evidence that direction 3 was satisfactorily completed is included in the Notice. TCM received an email (Resources Regulator 18 May 2020) acknowledging that the Report was received on 29 November 2019.	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Explor	atory Drilling				
15.1	At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Natural Resources regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes.	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
15.2a	If the lease holder drills exploratory drill holes he must satisfy the Director- General that- all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established;	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
15.2b	all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface;	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
15.2c	all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters;	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
15.2d	if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape;	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
15.2e	if any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers.	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
15.2f	once any drill hole ceases to be used the hole must be sealed in accordance with Departmental guidelines. Alternatively, the hole must be sealed as instructed by the Director-General.	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
15.2g	once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition.	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1579 for the reporting period.	NT	
Prevent	tion of Soil Erosion and Pollution				
16.	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site observation of water cart operation and sediment basins, rehabilitations commenced in locations on-site.	Site inspection by the auditor identified that erosion and sediment control on-site is managed with basins and progressive rehabilitation. Water carts were observed working on site to manage dust. A dust suppressant is also utilised. An exceedance of the EPL limits for oil and grease was recorded for Dam SD14 on 8 February 2020. An uncontrolled discharge from Dam SD2 occurred on 10 February 2020 due to a wall failure after a significant rainfall event. A penalty notice was issued by the EPA.	NC	Duplicate NC. Refer to conditions of approval.

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			Areas of significant erosion were observed above SD14. TCM is currently working with environmental professionals to implement water management improvements including staff training, risk assessments and water pumps. Environmental Superintendent indicated that weather conditions monitored prior to blasts such that the blast is only carried out during conditions to prevent fugitive dust migration.		
Transı	mission lines, Communication lines and Pipelines				
17.	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Not required	Not triggered as none on site.	NT	
Fence	s, Gates			· 	
18a	Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate.	Not required	Noted	Note	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
18b	Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	Not required	Noted	Note	
Roads	and Tracks		'		
19a	Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate.	Not required	Noted	Note	
19b	The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Not required	Noted	Note	
20.	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Natural Resources.	Not required	Noted	Note	

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Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Trees	and Timber				
21a	The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden.	Interview: Site Environmental Superintendent	Whitehaven is the landowner, therefore no other landowner consent is required.	С	
21b	The lease holder must not cut, destroy ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Act 2003.	Interview: Site Environmental Superintendent Land Disturbance Protocol 2020	Site Environmental Superintendent indicated in interview that all clearing is undertaken is manage through the Land Disturbance Protocol which includes heritage, flora and fauna, and soil studies.	С	
21c	The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.	Interview: Site Environmental Superintendent	No Crown Reserves in ML 1579.	NT	
Resou	irce Recovery				
23a	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for	Interview: Site Environmental Superintendent	No notice has been received during the audit period.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	environmental are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals.				
23b	The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery.	Interview: Site Environmental Superintendent	No notice has been received during the audit period.	NT	
23c	The lease holder must, when requested by the Director- General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.	Interview: Site Environmental Superintendent	No notice has been received during the audit period.	NT	
23d	The Director-General shall issue no such notice unless the matter has firstly been thoroughly discussed with and a report to the Director-General has incorporated the views of the lease holder.	Interview: Site Environmental Superintendent	No notice has been received during the audit period.	NT	
23e	The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minister shall refer it to a Warden for inquiry and report under Section 334 of the Mining Act, 1992.	Interview: Site Environmental Superintendent	No notice has been received during the audit period.	NT	
23f	After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original notice and shall give the lease holder written notice of the decision. The lease holder must comply with the requirements of this notice.	Interview: Site Environmental Superintendent	No notice has been received during the audit period.	NT	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Indem	nity				
24.	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	Not required	Noted	Note	
Secur	ty				
25a	A security in the sum of <b>\$100,000</b> must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under this lease. If the lease holder fails to fulfil any one or more of such obligations the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of this lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or	Interview: Site Environmental Superintendent	The security letter was verified during the previous audit. The security letter is for the life of ML1579.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	provision hereof or of any provision of the Act or regulations made thereunder.				
25b	The lease holder must provide the security required by sub- clause (a) in one of the following forms: (i) cash,	Not required	Noted	Note	
	<ul> <li>(ii) a security certificate in a form approved by the Minister and issued by an authorised deposit-taking institution.</li> </ul>				

No	Assessment Requirement	Reference/	Comments	Compliance	Recommendations
		Evidence	Comments	Status	Recommendations
Mining Lea	ase Conditions 2010				
Notice to L	andholders				
1.	<ul> <li>(a) Within a period of three months from the date of grant/renewal of this lease or within such further time as the Minister may allow, the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice.</li> <li>(b) If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this lease has been granted/renewed; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.</li> </ul>	Interview with Environmental Superintendent	Not related to this audit as this is outside the audit period.	ΝΤ	
Environme	ental Harm				
2.	<ul> <li>(a) The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease.</li> <li>(b) For the purposes of this condition: <ul> <li>(i) environment means components of the earth, including:</li> <li>(A) land, air and water, and</li> <li>(B) any layer of the atmosphere, and</li> </ul> </li> </ul>		Refer to CoA		

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>(C) any organic or inorganic matter and any living organism, and</li> <li>(D) human-made or modified structures and areas, and includes interacting natural ecosystems that include components referred to in paragraphs (A)-(C).</li> <li>(i) harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution, contributes to the extinction or degradation of any threatened species, populations or ecological communities and their habitats and causes impacts to places, objects and features of significance to Aboriginal people.</li> </ul>				
Mining	Operations Plan				
3a.	Mining operations must not be carried out otherwise than in accordance with a Mining Operations Plan (MOP) which has been approved by the Director-General.	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	The Director-General satisfaction of performance is gained though the approval of the MOP (2015-2020) (TCPL 2019). Director-General acceptance of performance against the MOP reported in Annual Reviews. Based on the auditor's inspection, mining operations appear to be in accordance with	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			the approved MOP. Refer to CoA		
3b.	<ul> <li>The MOP must: <ul> <li>(i) identify areas that will be disturbed by mining operations;</li> <li>(ii) detail the staging of specific mining operations;</li> <li>(iii) identify how the mine will be managed to allow mine closure;</li> <li>(iv) identify how mining operations will be carried out in order to prevent and or minimise harm to the environment;</li> <li>(v) reflect the conditions of approval under: <ul> <li>the Environmental Planning and Assessment Act 1979</li> <li>the Protection of the Environment Operations 1997</li> <li>and any other approvals relevant to the development including the conditions of the lease; and</li> <li>have regard to any relevant guidelines adopted by the Director-General.</li> </ul> </li> </ul></li></ul>	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (Section 5), implementation (Section 7) and MOP Plans 3(a- f) (annual timeslices) and 4 (post mining land use)	C	
3c.	The leaseholder may apply to the Director- General to amend an approved MOP at any time.	Noted.	Noted	С	
3d.	It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order or direction given under the <i>Mining Act 1992,</i> the	Noted.	Noted	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>Environmental Planning and Assessment Act 1979, Protection of the Environment Operations Act 1997, Mine Health and Safety Act 2004, Coal Mine Health and Safety Act 2002 and Mine Health and Safety Regulation 2007 Coal Mine Health and Safety Regulation 2006 or the Occupational Health and Safety Act 2000; and</li> <li>(ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out.</li> </ul>				
3e.	A MOP ceases to have effect 7 years after date of approval or other such period as identified by the Director-General.	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	The MOP is in effect.	С	
Non-co	npliance Reporting				
4.	<ul> <li>(a) The lease holder must notify the Department upon becoming aware of any breaches of the conditions of this mining lease or breaches of the Mining Act or Regulations;</li> <li>(b) Notifications under condition 4(a) must be provided in the form specified on the Department's website within seven (7) days of the mining lease holder becoming aware of the breach.</li> </ul>	Correspondence with regulators Interview with Environmental Superintendent	Non-compliance reports have been field in accordance with this condition during the audit period.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
5. Enviro	onmental Incident Report				
	The lease holder must provide environmental incident notifications and reports to the Secretary no later than seven (7) days after those environmental incident notifications and reports are provided to the relevant authorities under the Protection of the Environment Operations Act 1997. <b>Definitions</b> <b>Environmental incident notifications and</b> <b>reports</b> means any notifications and reports required to be provided to relevant authorities under Part 5.7 or Part 5.7A of the <i>Protection of</i> <i>the Environment Operations Act 1997.</i>	Correspondence with regulators Interview with Environmental Superintendent	Incident report have be submitted in accordance with this condition during the audit period.	C	
Addition	al Environmental Reports				
6.	Additional environmental reports may be required from time to time as directed in writing by the Director-General and must be lodged as instructed.	Not required	Not triggered - S240 gap analysis	Note	
Rehabilit	tation				
7.	Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.	Field inspection (rehabilitation areas) Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (section 5) and implementation (section 7).	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Subsiden	ice Management				
8a.	The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface.	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
8b.	Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar" extractions, and are otherwise defined by the <i>Applications for Subsidence Management</i> <i>Approvals guidelines (EDG17).</i>	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
8c.	The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the <i>Coal Mine Health &amp; Safety Act 2002</i> , or the document <i>New Subsidence Management Plan</i> <i>Approval Process</i> - Transitional Provisions (EDP09).	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
8d.	Subsidence Management Plans are to be prepared in accordance with the <i>Guideline for Applications for Subsidence Management Approvals</i> .	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
8e.	Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 3 and will be subject to the Environmental Management Report process as set out under Condition 4. The SMP is also subject to the	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	requirements for subsidence monitoring and reporting set out in the document <i>New Approval Process for</i> <i>Management of Coal Mining Subsidence – Policy.</i>				
Working I	Requirement				
9a.	The lease holder must: Ensure that at least 17 competent people are efficiently employed in relation to the mining process or mining operations on the lease area.	Interview with Environmental Superintendent Annual Review 2019	Site Environmental Superintendent indicated in interview 150 people work on site on average. AEMR recorded that open cut mining activities generally occur between the hours of 6:30 am and 5:00 pm (day shift) and 4:30 pm and 3:00 am (night shift) from Monday to Friday. Processing of coal day shifts run almost every Saturday, mining activity day shifts have only occurred on occasion to meet production deadlines.	C	
9b.	Expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than \$297,500 per annum whilst the lease is in force.	Annual Group Exploration Report Tarrawonga Open Cut Mine 2017 – 2018 Annual Group Exploration Report Tarrawonga Open Cut Mine 2018 – 2019	Auditor reviewed the annual exploration reports for TCM between 2017 and 2020 and identified that the expenditure on operations per annum is well above criteria of \$297,500.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
		Annual Group Exploration Report Tarrawonga Open Cut Mine 2019 – 2020			
9.	The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Not required	Noted	note	
Blasting					
10a.	<u>Ground Vibration</u> The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	Environmental Blast Monitoring 2017 Environmental Blast Monitoring 2018 Environmental Blast Monitoring 2019 Environmental Blast Monitoring 2020	Auditor reviewed blast monitoring records. No exceedances of ground vibration of 10mm/s.	С	
10b.	Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any	Environmental Blast Monitoring 2017 Environmental Blast Monitoring 2018	Auditor reviewed blast monitoring records. No exceedances of 120 dB. No exceedances of 115 dB in more than 5% of the total number of blasts at each dwelling.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	Environmental Blast Monitoring 2019			
		Environmental Blast Monitoring 2020			
Safety					
11.	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director- General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director- General.	Email from senior mine geologist (24 July 2020)	No exploration drilling has been completed on ML1693 for the reporting period.	NT	
Preventio	on of soil erosion and pollution				
12.	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan.	Site observation of water cart operation and sediment basins, rehabilitations commenced in locations on-site.	Site inspection by the auditor identified that erosion and sediment control on-site is managed with basins and progressive rehabilitation. Water carts were observed working on site to manage dust. A dust suppressant is also utilised.	NC	Duplicate NC. Refer to EPL.

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			An exceedance of the EPL limits for oil and grease was recorded for Dam SD14 on 8 February 2020.		
			An uncontrolled discharge from Dam SD2 occurred on 10 February 2020 due to a wall failure after a significant rainfall event. A penalty notice was issued by the EPA. Areas of significant erosion were observed above SD14.		
			TCM is currently working with environmental professionals to implement water management improvements including staff training, risk assessments and water pumps.		
			Environmental Superintendent indicated that weather conditions monitored prior to blasts such that the blast is only carried out during conditions to prevent fugitive dust migration.		

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Transmiss	ion lines, communication lines and Pipelines				
13.	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions stipulated.	Not required	Not triggered as none on site.	NT	
Roads and	Tracks				
14a.	The lease holder must pay to the relevant roads authority in control of the road or track the reasonable costs incurred by the roads authority in making good any damage to roads or tracks caused by operations carried out under this lease less any amount paid or payable from the Mine Subsidence Compensation Fund.	Not required	Noted	Note	
14b.	During wet weather the use of any road or track must be restricted so as to prevent damage to the road or track.	Noted	Noted	Note	
14c.	Existing access tracks should be used for all operations where reasonably practicable. New access tracks must be kept to a minimum and be positioned in order to minimise damage to the land, watercourses or vegetation	Noted	Noted	Note	
14d.	Temporary access tracks must be rehabilitated and revegetated to the satisfaction of the Director- General as soon as reasonably practicable after they are no longer required under this lease.	Noted	Noted	Note	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Trees and	Vegetation				
15a.	The lease holder must not fell trees, strip bark or cut timber on any land subject of this lease without the consent of the landholder who is entitled to the use of the timber.	Interview with Environmental Superintendent	Whitehaven is the landowner; therefore, no other landowner consent is required.	С	
15b.	The lease holder must contact Forests_NSW and obtain any required permit, licence or approval before taking timber from any Crown land within the lease area.	Interview with Environmental Superintendent	No Crown Reserves in ML 1693.	NT	
Resource	Recovery				
17a.	Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, notice in writing to the lease holder may be given requiring the holder to recover such minerals.	Interview with Environmental Superintendent	No notice has been received during the audit period.	NT	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
17b.	The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery.	Interview with Environmental Superintendent	No notice has been received during the audit period.	NT	
17c.	The lease holder must, when requested by the Director- General, provide such information as the Director- General may specify about the recovery of the mineral resources of the lease area.	Interview with Environmental Superintendent	No notice has been received during the audit period.	NT	
Indemnity					
18.	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction , maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	Not required	Noted	Noted	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Single Se	ecurity (extended)				
21.	The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under Mining Lease 1579 is extended to apply to this lease.	Interview with Environmental Superintendent	The security letter was verified during the previous audit. The security letter is for the life of ML1693.	С	
Suspensi	on of Mining Operations				
23.	The holder of a mining lease may not suspend mining operations in the mining area other than in accordance with the consent of the Minister.	Not required	Not triggered	NT	
Cooperat	ion Agreement				
24.	The lease holder must make every reasonable attempt, and be able to demonstrate their attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts and • rehabilitation issues.	Not required	Not triggered as there are no overlapping titles.	NT	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Exploratior	n Reporting				
	Note: <u>Exploration Reports (Geological and</u> <u>Geophysical)</u> The lease holder must lodge reports to the satisfaction of the Director-General in accordance with section 163C of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010. Reports must be prepared in accordance with <u>Exploration Reporting: A guide for reporting on</u> <u>exploration and prospecting in New South</u> <u>Wales (Department of Trade and Investment;</u> Regional Infrastructure and Services 2010).	<ul> <li>Annual Group</li> <li>Exploration Report</li> <li>Tarrawonga Open Cut</li> <li>Mine 2017 – 2018</li> <li>Annual Group</li> <li>Exploration Report</li> <li>Tarrawonga Open Cut</li> <li>Mine 2018 – 2019</li> <li>Annual Group</li> <li>Exploration Report</li> <li>Tarrawonga Open Cut</li> <li>Mine 2018 – 2019</li> </ul>	Auditor reviewed the annual exploration reports for TCM between 2017 and 2020 and these were lodged to the satisfaction of the Minister.	C	

#### TABLE A5 – MINING LEASE 1685 COMPLIANCE WITH MINING LEASE 1685

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Mining	Lease Conditions 2004				
Notice t	o Landholders				
1.	<ul> <li>(a) Within a period of three months from the date of grant/renewal of this mining lease, the lease holder must serve on each landholder a notice in writing indicating that this mining lease has been granted/renewed and whether the lease includes the surface. A plan identifying each landholder and individual land parcel subject to the lease area, and a description of the lease area must accompany the notice.</li> <li>(b) If there are ten or more landholders, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area. If a notice is made under condition 1(b), compliance with condition 1(a) is not required.</li> </ul>	Interview with Environmental Superintendent	Verified in pervious audit period	NT	
Rehabil	itation				
2.	Any disturbance resulting from the activities carried out under this mining lease must be rehabilitated to the satisfaction of the Minister.	Field inspection (rehabilitation areas) Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (section 5) and implementation (section 7).	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Mining Op	erations Plan and Annual Rehabilitation Report				
3a.	The lease holder must comply with an approved Mining Operations Plan (MOP) in carrying out any significant surface disturbing activities, including mining operations, mining purposes and prospecting. The lease holder must apply to the Minister for approval of a MOP. An approved MOP must be in place prior to commencing any significant surface disturbing activities, including mining operations, mining purposes and prospecting.	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	The Director-General satisfaction of performance is gained though the approval of the MOP (2015-2020) (TCPL 2019). Director-General acceptance of performance against the MOP reported in Annual Reviews. Based on the auditor's inspection, mining operations appear to be in accordance with the approved MOP. Refer to CoA.	C	
3b.	<ul> <li>The MOP must identify the post mining land use and set out a detailed rehabilitation strategy which: <ol> <li>i. identifies areas that will be disturbed;</li> <li>ii. details the staging of specific mining operations, mining purposes and prospecting;</li> <li>iii. identifies how the mine will be managed and rehabilitated to achieve the postmining land use;</li> <li>iv. identifies how mining operations, mining purposes and prospecting will be carried out in order to prevent and or minimise harm to the environment; and</li> <li>v. reflects the conditions of approval under:</li> <li>the Environmental Planning and Assessment Act 1979;</li> </ol> </li> </ul>	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (Section 5), implementation (Section 7) and MOP Plans 3(a- f) (annual timeslices) and 4 (post mining land use)	C	

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>the Protection of the Environment Operations Act 1997; and</li> <li>any other approvals relevant to the development including the conditions of this mining lease.</li> </ul>				
3c.	The MOP must be prepared in accordance with the ESG3: Mining Operations Plan (MOP) Guidelines September 2013 published on the Department's website at www.resources.nsw.gov.au/environment.	Interview: Site Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	Mining Operations Plan (2015- 2020) (Amendment E) (TCPL 2019) Section 1 states that the document was prepared in accordance with the Mining Operations Plan (MOP) Guidelines (DTIRIS 2013).	С	
3d.	The lease holder may apply to the Minister to amend an approved MOP at any time.	Noted.	Noted.	С	
3e.	<ul> <li>It is not a breach of this condition if:</li> <li>i. the operations which, but for this condition 3(e) would be a breach of condition 3(a), were necessary to comply with a lawful order or direction given under the Environmental Planning and Assessment Act 1979, the Protection of the Environment Operations Act 1997, the Mine Health and Safety Act 2004 ICoal Mine Health and Safety Regulation 2007 I Coal Mine Health and Safety Act 2011; and</li> <li>ii. the Minister had been notified in writing of the terms</li> </ul>	Noted.	Noted.	С	
	of the order or direction prior to the operations constituting the breach being carried out.				

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
3f.	<ul> <li>The lease holder must prepare a Rehabilitation Report to the satisfaction of the Minister. The report must: <ol> <li>provide a detailed review of the progress of rehabilitation against the performance measures and criteria established in the approved MOP;</li> <li>be submitted annually on the grant anniversary date (or at such other times as agreed by the Minister); and</li> <li>be prepared in accordance with any relevant annual reporting guidelines published on the Department's website at www.resources.nsw.gov.aulenvironment.</li> </ol> </li> <li>Note: The Rehabilitation Report replaces the Annual Environmental Management Report.</li> </ul>	Interview: Site Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	TCM was directed to prepare and submit a Tarrawonga Coal Mine Rehabilitation Report by 29 November 2019. TCM received an email (Resources Regulator 18 May 2020) acknowledging that the Report was received on 29 November 2019.	С	
Non-Compl	liance Reporting				
4.	<ul> <li>(a) The lease holder must notify the Department upon becoming aware of any breaches of the conditions of this mining lease or breaches of the Mining Act or Regulations;</li> <li>(b) Notifications under condition 4(a) must be provided in the form specified on the Department's website within seven (7) days of the mining lease holder becoming aware of the breach.</li> </ul>	Correspondence with regulators Interview with Environmental Superintendent	Notifications have been made in accordance with this report during the audit period.	С	
Environme	ntal Incident Report				
5.	The lease holder must provide environmental incident notifications and reports to the Secretary no later than seven (7) days after those environmental incident notifications and	Correspondence with regulators.	Incident reports have been filed in accordance with this	С	

Νο	Asse	essment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	Prote	rts are provided to the relevant authorities under the ection of the Environment Operations Act 1997. nitions	Interview with Environmental Superintendent	condition during the audit period.		
	any i relev	<b>Fronmental incident notifications and reports</b> means notifications and reports required to be provided to vant authorities under Part 5.7 or Part 5.7A of the ection of the Environment Operations Act 1997.	reports required to be provided to nder Part 5.7 or Part 5.7A of the			
Subside	ence Mana	agement			1	
6.	unde of the Subs Gene		Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
		he purposes of this condition, an 'Eligible Subsidence agement Plan' means:				
	(i)	A Subsidence Management Plan prepared in accordance with current government guidelines for the preparation of Subsidence Management Plans; or				
	(ii)	Those parts of an Extraction Plan or another type of plan:				
		<ul> <li>prepared, either in whole or in part, with reference to current government guidelines for the preparation of a Subsidence Management Plan; and</li> </ul>				
		<ul> <li>approved for the purposes of the Environmental Planning and Assessment Act 1979 (or any planning legislation which</li> </ul>				

No	Assessment Requirement	Reference/	Comments	Compliance	Recommendation
		Evidence		Status	
	replaces that Act) by the Minister or Director-				
	General of the Department of Planning &				
	Infrastructure, or another officer of that Department authorised to approve such a				
	plan, which relate to issues of subsidence.				
Resourc	e Recovery				
7.	The lease holder must optimise recovery of the minerals that	Note	Noted	Note	
	are the subject of this mining lease to the extent				
	economically feasible.				
Single S	ecurity				
8.	The lease holder is required to provide and maintain a	Interview with	The security letter was verified	С	
	security deposit to secure funding for the fulfilment of	Environmental	during the previous audit. The		
	obligations of all or any kind under the mining lease, including obligations of all or any kind under the mining lease	Superintendent	security letter is for the life of ML1685.		
	that may arise in the future.		ME 1000.		
	The amount of the security deposit to be provided as a single				
	security has been assessed by the Minister at \$4,364,000.				
	The leases covered by the single security include:				
	Mining Lease 1579 (Act 1992)				
Coopera	tion Agreement				
9.	The lease holder must make every reasonable attempt, and	Not required	Not triggered as there are no	NT	
	be able to demonstrate its attempts, to enter into a		known overlapping titles.		
	cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not				
	be limited to issues such as:				

Νο	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>access arrangements</li> <li>operational interaction procedures</li> <li>dispute resolution</li> <li>information exchange</li> <li>well location</li> <li>timing of drilling</li> <li>potential resource extraction conflicts; and</li> <li>rehabilitation issues.</li> </ul>				
Special	Conditions				
10.	The lease holder must submit a security review (in accordance with ESU guidelines and policy) within one month of the granting of the new mining lease.	Not required	Not triggered Compensation agreement with NSW Forestry – monetary compensation based on amount of land cleared and administrative work invoiced annually.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Exploration	on Reporting				
	Note: Exploration Reports (Geological and Geophysical) The lease holder must lodge reports to the satisfaction of the Minister in accordance with section 163C of the Mining Act 1992and in accordance with clause 57 of the Mining Regulation 2010. Reports must be prepared in accordance with Exploration <u>Reporting: A guide for reporting on exploration and prospecting in New South Wales (Department of Trade and Investment; Regional Infrastructure and Services 2010).</u>	Annual Group Exploration Report Tarrawonga Open Cut Mine 2017 – 2018 Annual Group Exploration Report Tarrawonga Open Cut Mine 2018 – 2019 Annual Group Exploration Report Tarrawonga Open Cut Mine 2019 – 2020	Auditor reviewed the annual exploration reports for TCM between 2017 and 2020 and these were lodged to the satisfaction of the Minister.	C	

No	Assessr	nent Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Miniı	ng Lease C	onditions 2013				
Notio	ce to Landh	olders				
1.	(a) (b)	Within a period of three months from the date of grant/renewal of this mining lease, the lease holder must serve on each landholder a notice in writing indicating that this mining lease has been granted/renewed and whether the lease includes the surface. A plan identifying each landholder and individual land parcel subject to the lease area, and a description of the lease area must accompany the notice. If there are ten or more landholders, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area. If a notice is made under condition 1(b), compliance with condition 1(a) is not required.	Interview with Environmental Superintendent	Transferred on 4 September 2017 from Boggabri coal. No landholders on the lease.	NT	
Reha	bilitation					
2.	-	urbance resulting from the activities carried out under ng lease must be rehabilitated to the satisfaction of the	Field inspection (rehabilitation areas) Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (section 5) and implementation (section 7).	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Minin	g Operations Plan and Annual Rehabilitation Report				
3a.	The lease holder must comply with an approved Mining Operations Plan (MOP) in carrying out any significant surface disturbing activities, including mining operations, mining purposes and prospecting. The lease holder must apply to the Minister for approval of a MOP. An approved MOP must be in place prior to commencing any significant surface disturbing activities, including mining operations, mining purposes and prospecting.	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	The Director-General satisfaction of performance is gained though the approval of the MOP (2015-2020) (TCPL 2019). Director- General acceptance of performance against the MOP reported in Annual Reviews. Based on the auditor's inspection, mining operations appear to be in accordance with the approved MOP. Refer to CoA	С	
3b.	<ul> <li>The MOP must identify the post mining land use and set out a detailed rehabilitation strategy which: <ul> <li>(i) identifies areas that will be disturbed;</li> <li>(ii) details the staging of specific mining operations, mining purposes and prospecting;</li> <li>(iii) identifies how the mine will be managed and rehabilitated to achieve the post mining land use;</li> <li>(iv) identifies how mining operations, mining purposes and prospecting will be carried out in order to prevent and or minimise harm to the environment; and</li> <li>(v) reflects the conditions of approval under:</li> <li>the Environmental Planning and Assessment Act 1979;</li> </ul> </li> </ul>	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	MOP (2015-2020) (TCPL 2019) details rehabilitation planning (Section 5), implementation (Section 7) and MOP Plans 3(a-f) (annual timeslices) and 4 (post mining land use)	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>the Protection of the Environment Operations Act 1997; and</li> <li>any other approvals relevant to the development including the conditions of this mining lease.</li> </ul>			Status	
3c.	The MOP must be prepared in accordance with the <i>ESG3:</i> <i>Mining Operations Plan (MOP) Guidelines September 2013</i> published on the Department's website at <u>www.resourcesandenergy.nsw.gov.au/miners-and-</u> <u>explorers/rules-and- forms/pgf/environmental-guidelines</u>	Interview: Site Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019) Section 1 states that the document was prepared in accordance with the Mining Operations Plan (MOP) Guidelines (DTIRIS 2013).	С	
3d.	The lease holder may apply to the Minister to amend an approved MOP at any time.	Noted.	Noted.	Note	
3e.	<ul> <li>It is not a breach of this condition if:</li> <li>(i) the operations which, but for this condition 3(e) would be a breach of condition 3(a), were necessary to comply with a lawful order or direction given under the <i>Environmental Planning and Assessment Act 1979, the Protection of the Environment Operations Act 1997, the Work Health and Safety (Mines and Petroleum Sites) Act 2013 and Work Health and Safety (Mines and Petroleum Sites) Regulation 2014 or the Work Health and Safety Act 2011; and Work Health and Safety Regulation 2011;</i></li> <li>(i) the Minister had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out.</li> </ul>	Noted.	Noted.	Note	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
3f.	<ul> <li>The lease holder must prepare a Rehabilitation Report to the satisfaction of the Minister. The report must: <ul> <li>(ii) provide a detailed review of the progress of rehabilitation against the performance measures and criteria established in the approved MOP;</li> <li>(iii) be submitted annually on the grant anniversary date (or at such other times as agreed by the Minister); and</li> <li>(iv) be prepared in accordance with any relevant annual reporting guidelines published on the Department's website at www.resourcesandenergy.nsw.gov.au/miners-and-explorers/rules-and-forms/pgf/environmental-guidelines</li> </ul> </li> <li>Note: The Rehabilitation Report replaces the Annual Environmental Management Report.</li> </ul>	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	TCM was directed to prepare and submit a Tarrawonga Coal Mine Rehabilitation Report by 29 November 2019. TCM received an email (Resources Regulator 18 May 2020) acknowledging that the Report was received on 29 November 2019.	С	
Non	compliance reporting			1	
4.	<ul> <li>(a) The lease holder must notify the Department upon becoming aware of any breaches of the conditions of this mining lease or breaches of the Mining Act or Regulations;</li> <li>(b) Notifications under condition 4(a) must be provided in the form specified on the Department's website within seven (7) days of the mining lease holder becoming aware of the breach.</li> </ul>	Correspondence with regulators Interview with Environmental Superintendent	Non-compliance reports have been filed in accordance with this condition during the audit period.	С	
Envir	onmental Incident Report			1	
5.	The lease holder must provide environmental incident notifications and reports to the Secretary no later than seven (7) days after those environmental incident notifications and reports are provided to the relevant authorities under the <i>Protection of the Environment</i> <i>Operations Act 1997</i> .	Correspondence with regulators Interview with Environmental Superintendent	Incident reports have been filed during the audit period.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Extra	action Plan	1		1	
6.	<ul> <li>(a) In this condition:</li> <li>(i) approved Extraction Plan means a plan, being: <ul> <li>A. an extraction plan or subsidence management plan approved in accordance with the conditions of a relevant development consent and provided to the Secretary; or</li> <li>B. a subsidence management plan relating to the mining operations subject to this lease: <ul> <li>I. submitted to the Secretary on or before 31 December 2014; and</li> <li>II. approved by the Secretary.</li> </ul> </li> <li>(ii) relevant development consent means a development consent or project approval issued under the Environmental Planning &amp; Assessment Act 1979 relating to the mining operations subject to this lease.</li> <li>(b) The lease holder must not undertake any underground mining operations that may cause subsidence except in accordance with an approved Extraction Plan.</li> <li>(c) The lease holder must ensure that the approved Extraction Plan provides for the effective management of risks associated with any subsidence resulting from mining operations carried out under this lease.</li> </ul> </li> <li>(d) The lease holder must notify the Secretary within 48 hours of any:</li> </ul>	Not applicable	No underground mining has commenced on the site so subsidence management is not an issue requiring management.	NT	
	<ul> <li>(i) incident caused by subsidence which has a potential to expose any person to health and safety risks;</li> <li>(ii) significant deviation from the predicted nature, magnitude,</li> </ul>				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>distribution, timing and duration of subsidence effects, and of the potential impacts and consequences of those deviations on built features and the health and safety of any person; or</li> <li>(iii) significant failure or malfunction of a monitoring device or risk control measure set out in the approved Extraction Plan addressing: <ul> <li>A. built features;</li> <li>B. public safety; or</li> <li>C. subsidence monitoring.</li> </ul> </li> </ul>				
Reso	urce Recovery				
7.	The lease holder must optimise recovery of the minerals that are the subject of this mining lease to the extent economically feasible.	Interview with Environmental Superintendent Mining Operations Plan (2015-2020) (Amendment E) (TCPL 2019)	As per MOP	С	
Grou	o Security				
8.	The lease holder is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations of all or any kind under the mining lease, including obligations of all or any kind under the mining lease that may arise in the future. The amount of the security deposit to be provided as a group security has been assessed by the Minister at <b>\$21,150,000</b> . The leases covered by the group security include:	Interview with Environmental Superintendent	The security letter was verified during the previous audit. The security letter is for the life of ML1749.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendation
	Mining Lease 1579, Mining Lease 1685 and Mining Lease 1693 (Act 1992)				
	This group security is extended to apply to this lease.				
Соор	eration Agreement				
9.	<ul> <li>The lease holder must make every reasonable attempt, and be able to demonstrate its attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as:</li> <li>access arrangements</li> <li>operational interaction procedures</li> <li>dispute resolution</li> <li>information exchange</li> <li>well location</li> <li>timing of drilling</li> <li>potential resource extraction conflicts; and</li> <li>rehabilitation issues.</li> </ul>	Not required	There are no overlapping titles.	NT	
Explo	pration Reporting				
	Note: <u>Exploration Reports (Geological and Geophysical)</u> The lease holder must lodge reports to the satisfaction of the Minister in accordance with section 163C of the Mining Act 1992 and in accordance with clause 59 of the Mining Regulation 2016. Reports must be prepared in accordance with Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales.	Annual Group Exploration Report Tarrawonga Open Cut Mine 2017 – 2018 Annual Group Exploration Report	Auditor reviewed the annual exploration reports for TCM between 2017 and 2020 and these were lodged to the satisfaction of the Minister.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	SPECIAL CONDITIONS Note: The standard conditions apply to all mining leases. The Division of Resources & Geoscience (DRG) reserves the right to impose special conditions, based on individual circumstances, where appropriate.	Tarrawonga Open Cut Mine 2018 – 2019 Annual Group Exploration Report Tarrawonga Open Cut Mine 2019 – 2020			

APPENDIX B DEPARTMENTAL CORRESPONDENCE



Mr Tony Dwyer Group Manager - Approvals and Environment Whitehaven Coal Limited PO Box 56 BOGGABRI NSW 2382

Via Email Only: tdwyer@whitehavencoal.com.au

27/07/2020

Dear Mr Dwyer

## Agreement of Independent Auditor Tarrawonga Mine (PA 11\_0047)

I refer to Whitehaven Coal Limited's (WCL) submission, dated 2 June 2020, seeking the agreement of the Secretary of the Department of Planning, Industry and Environment (the Department) of a suitably qualified, experienced and independent audit team to undertake the 2020 independent environmental audit (IEA) of Tarrawonga Mine and further submission dated 10 July 2020 seeking a replacement support auditor.

Reference is also made to correspondence received on 24 July 2020 from WCL seeking an administrative amendment to the original endorsement letter dated 5 June 2020 and endorsement of a replacement support auditor dated 13 July 2020 to include endorsement under an additional condition of consent.

As such, in accordance with Schedule 5, Condition 10 and Schedule 3, Condition 50 of PA 11\_0047 (the Approval) and the *Post-approval requirements for State significant developments* (Department, October 2015), the Secretary has agreed to the following audit team:

- Heather McKay Lead Auditor;
- Brigitte Healey Support Auditor;
- Oliver Moore Technical Review;
- Wijnand (Vey) Gemson Hydrogeologist;
- Sebastien Madden Ecologist;
- Aaron Mckenzie Noise and Vibration;
- Robert Smith Back-up Lead Auditor.

Please ensure this letter, and all previous correspondence regarding the 2020 IEA, is appended to the IEA Report.

The IEA must be prepared, undertaken and finalised in accordance with the *Post-approval requirements for State significant developments (Department, October 2015).* Failure to meet these requirements will require revision and resubmission.

If you have any questions, please contact James Epstein, Senior Compliance Officer, on (02) 6575 3419 or email to <u>compliance@planning.nsw.gov.au</u>

Yours sincerely,

attus

Heidi Watters Team Leader Northern Compliance <u>As nominee of the Secretary</u>



Mr Tony Dwyer Group Manager - Approvals and Environment Whitehaven Coal Limited PO Box 56 BOGGABRI NSW 2382

Via Email Only: tdwyer@whitehavencoal.com.au

05/06/2020

Dear Mr Dwyer

## Agreement of Independent Auditor Tarrawonga Mine (PA 11\_0047)

I refer to Whitehaven Coal Limited's (WCL) submission, dated 2 June 2020, seeking the agreement of the Secretary of the Department of Planning, Industry and Environment (the Department) of a suitably qualified, experienced and independent audit team to undertake the 2020 independent environmental audit (IEA) of Tarrawonga Mine.

In accordance with Schedule 5, Condition 10 of PA 11\_0047 (the Approval) and the *Post-approval requirements for State significant developments* (Department, October 2015), the Secretary has agreed to the following audit team:

- Heather McKay Lead Auditor;
- Dean Kerr Support Auditor;
- Oliver Moore Technical Review;
- Wijnand (Vey) Gemson Hydrogeologist;
- Sebastien Madden Ecologist;
- Aaron Mckenzie Noise and Vibration;
- Robert Smith Back-up Lead Auditor.

Please ensure this correspondence is appended to the IEA Report.

The IEA must be prepared, undertaken and finalised in accordance with the *Post-approval requirements for State significant developments (Department, October 2015).* Failure to meet these requirements will require revision and resubmission.

If you have any questions, please contact James Epstein, Senior Compliance Officer, on (02) 6575 3419 or email to <u>compliance@planning.nsw.gov.au</u>

Yours sincerely,

attus

Heidi Watters Team Leader Northern Compliance

As nominee of the Secretary



Mr Tony Dwyer Group Manager - Approvals and Environment Whitehaven Coal Limited PO Box 56 BOGGABRI NSW 2382

Via Email Only: tdwyer@whitehavencoal.com.au

13/07/2020

Dear Mr Dwyer

## Agreement of Independent Auditor Tarrawonga Mine (PA 11\_0047)

I refer to Whitehaven Coal Limited's (WCL) submission, dated 10 July 2020, seeking the agreement of the Secretary of the Department of Planning, Industry and Environment (the Department) of a replacement Support Auditor to undertake the 2020 independent environmental audit (IEA) of Tarrawonga Mine.

In accordance with Schedule 5, Condition 10 of PA 11\_0047 (the Approval) and the *Post-approval requirements for State significant developments* (Department, October 2015), the Secretary has agreed to the following replacement Support Auditor:

• Brigitte Healey.

Please ensure this correspondence is appended to the IEA Report.

If you have any questions, please contact James Epstein, Acting Team Leader, on (02) 6575 3419 or email to <u>compliance@planning.nsw.gov.au</u>

Yours sincerely,

James Epstein A/Team Leader Northern Compliance, Planning & Assessment As nominee of the Secretary

From:	James Hutchinson-Smith
To:	Heather McKay; admin.northwest@lls.nse.gov.au
Cc:	Lynden Cini (LCini@whitehavencoal.com.au); Sebastien Moreno; Oliver Moore; Sebastian Madden
Subject:	Re: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit and Independent Biodiversity Audit
Date:	Friday, 24 July 2020 12:22:43 PM
Attachments:	image003.jpg

Heather,

The Team and I will review what you have provided and try and get back to you before the deadline.

Regards James.

James Hutchinson-Smith | General Manager North West Local Land Services Tamworth Agriculture Institute | 4 Marsden Park Road PO Box 500 | Calala NSW 2340 T: 02 6764 5970 | M: 0428 485 985 E: James.hutchinson-Smith@lls.nsw.gov.au W: www.northwest.lls.nsw.gov.au

From: Heather McKay <Heather.McKay@erm.com>

Sent: Friday, 24 July 2020 12:13

**To:** James Hutchinson-Smith < james.hutchinson-smith@lls.nsw.gov.au>;

admin.northwest@lls.nse.gov.au <admin.northwest@lls.nse.gov.au>

**Cc:** Lynden Cini (LCini@whitehavencoal.com.au) <LCini@whitehavencoal.com.au>; Sebastien Moreno <smoreno@whitehavencoal.com.au>; Oliver Moore <Oliver.Moore@erm.com>; Sebastian Madden <Sebastian.Madden@erm.com>

**Subject:** Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit and Independent Biodiversity Audit

Dear James,

I am currently completing the Independent Environmental Audit (IEA) and Biodiversity Audit on the Conditions of Approval issued to Tarrawonga Coal Mine, PA 11\_0047.

One of the requirements of the audit is that it is to be undertaken in consultation with relevant agencies. To that end, this email invites you to raise any questions or concerns regarding this project from an environmental management aspect.

The attached Terms of Reference outlines the audit process, and also introduces the approved team of suitably qualified, experienced and independent experts who will be undertaking the audit. It would be appreciated if there are any concerns, areas of focus etc., they are raised by 3 August 2020.

I can be contacted at the details outlined below to discuss further.

Kind regards,

Heather

Heather McKay Senior Environmental and Social Governance Consultant

#### ERM

Level 4, 201 Leichhardt St | Spring Hill | QLD 4000 PO Box 1400 | Spring Hill | QLD 4004 **T** +61 (0)7 3007 8486 **M** +61 (0)420 532 113 **E** Heather.McKay@erm.com | **W** www.erm.com

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Please take a look at our 2019 Sustainability Report: https://www.erm.com/en/sustainability-report-2019/

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From:	Renee Shepherd
То:	Heather McKay
Cc:	Samantha Wynn; Liz Mazzer
Subject:	RE: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit and Independent Biodiversity Audit
Date:	Monday, 3 August 2020 6:06:03 PM
Attachments:	image005.ipg image006.ipg

Hi Heather,

Thank you for providing us with the opportunity to contribute to the Independent Environmental Audit and Biodiversity Audit for the Tarrawonga Coal Mine.

Given that Aboriginal cultural heritage responsibilities have transferred to Heritage NSW, BCD's main area of interest centres around biodiversity. As such, the items we request to be considered in the audit are:

- 1. Assess the adequacy and effectiveness of the implementation of the Biodiversity Management Plan (Schedule 3 Condition 47), in particular regarding:
  - a. delivery of the proposed management and monitoring actions, and performance and completion criteria
  - b. whether any of the trigger points in the TARP have been exceeded and whether the corresponding response was adequate
- 2. Determine whether an updated version of the BMP has been finalised as per Schedule 3 Condition 48 following completion of Stage 2 of the Leard Forest Regional Biodiversity Strategy (the Strategy was approved on 1 September 2017 and the version of the BMP on the website is 9 April 2015).
- 3. Determine whether an updated version of the Biodiversity Offset Strategy has been prepared as per Schedule 3 Condition 42 following completion of Stage 2 of the Leard Forest Regional Biodiversity Strategy (version on the website is 28 August 2013).
- 4. Update on IEA recommendations from the 2017 audit (Table 3.2 in the 2017 IEA) and whether findings and recommendations have been implemented by the proponent, including:
  - a. 3.40 additional detail provided in the annual reviews as requested
  - b. 3.49 confirm the conservation and biodiversity bond has been lodged
  - c. 3.64(h) confirm that the MOP has been revised to describe implementation, monitoring and auditing of rehabilitation
  - d. 1.2.33 confirm that the annual monitoring schedule has been developed, and there is evidence of regular monitoring of ecological rehabilitation risks

Regards, Renee. Renee Shepherd Senior Project Officer – Special Projects, North West

Biodiversity and Conservation Division | Department of Planning, Industry and Environment **T** 02 6883 5355 | **M** 0488 444 953 | **E** renee.shepherd@environment.nsw.gov.au 48-52 Wingewarra Street, Dubbo NSW 2830 www.dpie.nsw.gov.au



**Our Vision:** Together, we create thriving environments, communities and economies. **We work flexibly.** I'm sending this message now because it's a good time for me. I don't expect that you will read, respond to, or action this message outside of your own regular hours.

From: Heather McKay <Heather.McKay@erm.com>

Sent: Friday, 24 July 2020 12:13 PM

**To:** Renee Shepherd <Renee.Shepherd@environment.nsw.gov.au>

**Cc:** Lynden Cini (LCini@whitehavencoal.com.au) <LCini@whitehavencoal.com.au>; Sebastien Moreno <smoreno@whitehavencoal.com.au>; Oliver Moore <Oliver.Moore@erm.com>; Sebastian Madden <Sebastian.Madden@erm.com>

**Subject:** Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit and Independent Biodiversity Audit

Dear Renee,

I am currently completing the Independent Environmental Audit (IEA) and Biodiversity Audit on the Conditions of Approval issued to Tarrawonga Coal Mine, PA 11\_0047.

One of the requirements of the audit is that it is to be undertaken in consultation with relevant agencies. To that end, this email invites you to raise any questions or concerns regarding this project from an environmental management aspect.

The attached Terms of Reference outlines the audit process, and also introduces the approved team of suitably qualified, experienced and independent experts who will be undertaking the audit. It would be appreciated if there are any concerns, areas of focus etc., they are raised by 3 August 2020.

I can be contacted at the details outlined below to discuss further.

Kind regards, Heather

Heather McKay Senior Environmental and Social Governance Consultant

## ERM

Level 4, 201 Leichhardt St | Spring Hill | QLD 4000 PO Box 1400 | Spring Hill | QLD 4004 T +61 (0)7 3007 8486 M +61 (0)420 532 113 E Heather.McKay@erm.com | W www.erm.com

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

From:	Mark Buchan
То:	Heather McKay
Subject:	RE: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit
Date:	Monday, 27 July 2020 5:08:49 PM
Attachments:	image003.png image004.png image005.png image006.jpg image007.jpg

Hi Heather,

Thank you for the email and the opportunity to provide any concerns with the site.

The Tarrawong Coal Mine has had various Government Agencies including the Resources Regulator involved in undertaking regulatory actions against the title on Conditions of Approval. I suggest you seek a copy of these regulatory actions to assist you with your environmental audit.

Regards

#### **Mark Buchan**

#### **Senior Inspector Environment**

NSW Resources Regulator | Department of Regional NSW **T** 02 6360 9526 | **M** 0427 327 718 | **E** <u>mark.buchan@planning.nsw.gov.au</u> 161 Kite Street (Locked Bag 21) Orange NSW 2800 <u>www.resourcesregulator.nsw.gov.au</u>



The Department of Regional New South Wales acknowledges that it stands on Country which always was and always will be Aboriginal land. We acknowledge the Traditional Custodians of the land and waters, and we show our respect for Elders past, present and emerging. We are committed to providing places in which Aboriginal people are included socially, culturally and economically through thoughtful and collaborative approaches to our work..

**Please Note:** All applications made under the *Mining Act 1992*, and any related correspondence or inquiries must be submitted via email to <u>nswresourcesregulator@service-now.com</u> If you require any assistance lodging applications or have a general inquiry please call 1300 814 609 (Option 2 then 5).



From: Heather McKay <Heather.McKay@erm.com>Sent: Monday, 27 July 2020 4:25 PMTo: Mark Buchan <mark.buchan@planning.nsw.gov.au>

Subject: FW: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

Dear Mark,

I would like to provide a reminder for the below request. I would appreciate if you could provide any items for input into the IEA by Thursday 30 July.

Kind regards, Heather

From: Heather McKay

**Sent:** Friday, July 10, 2020 6:01 PM

To: mark.buchan@planning.nsw.gov.au; nswresourcesregulator@service-now.au
 Cc: Lynden Cini (LCini@whitehavencoal.com.au) <LCini@whitehavencoal.com.au>; Sebastien Moreno
 <<u>SMoreno@whitehavencoal.com.au</u>>; Oliver Moore <<u>Oliver.Moore@erm.com</u>>
 Subject: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

Dear Mark,

I am currently completing the Independent Environmental Audit (IEA) on the Conditions of Approval issued to Tarrawonga Coal Mine, PA 11\_0047.

One of the requirements of the audit is that it is to be undertaken in consultation with relevant agencies. To that end, this email invites you to raise any questions or concerns regarding this project from an environmental management aspect.

The attached Terms of Reference outlines the audit process, and also introduces the approved team of suitably qualified, experienced and independent experts who will be undertaking the audit. The site inspection will be completed over the period 29-30 July 2020, therefore it would be appreciated if there are any concerns, areas of focus etc., they are raised by 24 July 2020.

I can be contacted at the details outlined below to discuss further.

Kind regards, Heather

Heather McKay Senior Environmental and Social Governance Consultant

#### ERM

Level 4, 201 Leichhardt St | Spring Hill | QLD 4000 PO Box 1400 | Spring Hill | QLD 4004 T +61 (0)7 3007 8486 M +61 (0)420 532 113 E Heather.McKay@erm.com | W www.erm.com

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Please take a look at our 2019 Sustainability Report: https://www.erm.com/en/sustainability-report-2019/

## Leanne Jeffrey

From:	David Ross - VUCA Strategist <david.ross@phoenixstrategic.com.au></david.ross@phoenixstrategic.com.au>
Sent:	Thursday, 23 July 2020 2:57 PM
То:	Heather McKay
Subject:	Re: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

## Hi Heather

as requested, I've approached the CCC members to gain their input into the IEA.

Many on the CCC have been very happy with the mine's social and environmental efforts and consequently, did not provide any input. However, there was one request for the Audit to review bushfire management, on site. There have been concerns in the area with respect to the need to revegetate (offsets, for example) and the risk this is perceived to create for bushfires.

Otherwise, obviously the management of water is a significant concern within the region as well.

regards David

Chair, Tarrawonga CCC

On Tue, Jul 14, 2020 at 11:11 AM Heather McKay <<u>Heather.McKay@erm.com</u>> wrote:

Hi David,

If you are able to collate their input that would be appreciated.

## Many thanks.

#### Regards,

## Heather

From: David Ross - VUCA Strategist <<u>david.ross@phoenixstrategic.com.au</u>
Sent: Monday, July 13, 2020 5:07 PM
To: Heather McKay <<u>Heather.McKay@erm.com</u>
Subject: Re: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

Thanks Heather.

Would you like to forward your email to the members of the community consultative committee for them to provide input? Or would you prefer for me to collate their input?

Warm regards

David

Chair, Tarrawonga CCC

On Fri, 10 Jul 2020, 6:01 pm Heather McKay, <<u>Heather.McKay@erm.com</u>> wrote:

Dear David,

I am currently completing the Independent Environmental Audit (IEA) on the Conditions of Approval issued to Tarrawonga Coal Mine, PA 11\_0047.

One of the requirements of the audit is that it is to be undertaken in consultation with relevant agencies. To that end, this email invites you to raise any questions or concerns regarding this project from an environmental management aspect.

The attached Terms of Reference outlines the audit process, and also introduces the approved team of suitably qualified, experienced and independent experts who will be undertaking the audit. The site inspection will be completed over the period 29-30 July 2020, therefore it would be appreciated if there are any concerns, areas of focus etc., they are raised by 24 July 2020.

I can be contacted at the details outlined below to discuss further.

Kind regards,

Heather

Heather McKay

Senior Environmental and Social Governance Consultant

ERM

Level 4, 201 Leichhardt St | Spring Hill | QLD 4000

PO Box 1400 | Spring Hill | QLD 4004

**T** +61 (0)7 3007 8486 **M** +61 (0)420 532 113

E <u>Heather.McKay@erm.com</u> W <u>www.erm.com</u>

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## Leanne Jeffrey

From:	James Epstein <james.epstein@planning.nsw.gov.au></james.epstein@planning.nsw.gov.au>
Sent:	Monday, 13 July 2020 9:26 AM
То:	Heather McKay
Cc:	Lynden Cini (LCini@whitehavencoal.com.au); Sebastien Moreno; Oliver Moore; Heidi Watters
Subject:	RE: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

Good morning Heather,

Thank you for the opportunity to provide input into the 2020 Tarrawonga Independent Environmental Audit.

The Department requests that ERM pay particular attention during the audit to compliance with the following:

- Site water management and implementation of the water management plan; and
- Implementation of the air quality and greenhouse gas management plan.

If you'd like to discuss further I can be contacted on the details provided below.

Regards

## James Epstein A/ Team Leader Compliance

Planning & Assessment | Department of Planning, Industry and Environment T 02 6575 3419 | M 0429 395 691 | E james.epstein@planning.nsw.gov.au PO Box 3145, Singleton NSW 2330

If you are submitting a compliance document or request as required under the conditions of consent or approval, please note that the Department is no longer accepting lodgement via <u>compliance@planning.nsw.gov.au</u>.

The Department has recently upgraded the Major Projects Website to improve the timeliness and transparency of its post approval and compliance functions. As part of this upgrade, proponents are now requested to submit all post approval and compliance documents online, via the Major Projects Website. To do this, please refer to the instructions available <u>here</u>.

www.dpie.nsw.gov.au



The Department of Planning, Industry and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.

Please consider the environment before printing this e-mail.

From: Heather McKay <Heather.McKay@erm.com>
Sent: Friday, 10 July 2020 6:01 PM
To: James Epstein <James.Epstein@planning.nsw.gov.au>
Cc: Lynden Cini (LCini@whitehavencoal.com.au) <LCini@whitehavencoal.com.au>; Sebastien Moreno <SMoreno@whitehavencoal.com.au>; Oliver Moore
<Oliver.Moore@erm.com>
Subject: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

Dear James,

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I can be contacted at the details outlined below to discuss further.

Kind regards, Heather Heather McKay Senior Environmental and Social Governance Consultant

#### ERM

Level 4, 201 Leichhardt St | Spring Hill | QLD 4000 PO Box 1400 | Spring Hill | QLD 4004 **T** +61 (0)7 3007 8486 **M** +61 (0)420 532 113 **E** Heather.McKay@erm.com | **W** <u>www.erm.com</u>



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## Leanne Jeffrey

From:	Mcllveen - Tracy <tracymcilveen@infogunnedah.com.au></tracymcilveen@infogunnedah.com.au>
Sent:	Tuesday, 14 July 2020 11:03 AM
То:	Heather McKay
Cc:	Lynden Cini (LCini@whitehavencoal.com.au); Sebastien Moreno; Oliver Moore
Subject:	RE: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

#### Dear Ms McKay

#### 1515343 - Tarrawonga Coal Mine - Independent Environmental Audit - Terms of Reference

Council wishes to acknowledge the receipt of your email regarding the above matter.

Your request has been forwarded to Mr Andrew Johns, Director Planning and Environmental Services, as requested.

If you wish to make an enquiry regarding the status of your request, please do not hesitate to contact Council on 02 6740 2100.

You can assist enquiries by quoting the reference number above.

Yours faithfully

Tracy



Tracy McIlveen Executive Assistant to the General Manager and Director Planning and Environmental Services Gunnedah Shire Council, PO Box 63 (63 Elgin Street), GUNNEDAH NSW 2380, AUSTRALIA T +61 2 6740 2100 (ext 115) E tracymcilveen@infogunnedah.com.au www.gunnedah.nsw.gov.au or www.facebook.com/gunnedahshire All correspondence to be emailed to council@infogunnedah.com.au Lacknowledge the Kamilaroi Aboriginal Nation as the traditional custodians of the land on which Llive, work and play. I pay my respect to Elders past and present.

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From: Heather McKay [mailto:Heather.McKay@erm.com]
Sent: Friday, 10 July 2020 6:01 PM
To: Council Email
Cc: Lynden Cini (LCini@whitehavencoal.com.au); Sebastien Moreno; Oliver Moore
Subject: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

#### For the attention of Andrew Jones

Dear Andrew,

I am currently completing the Independent Environmental Audit (IEA) on the Conditions of Approval issued to Tarrawonga Coal Mine, PA 11\_0047.

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I can be contacted at the details outlined below to discuss further.

Kind regards, Heather

Heather McKay Senior Environmental and Social Governance Consultant

ERM

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## Leanne Jeffrey

From:	Mark Buchan <mark.buchan@planning.nsw.gov.au></mark.buchan@planning.nsw.gov.au>
Sent:	Monday, 27 July 2020 5:09 PM
То:	Heather McKay
Subject:	RE: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

Hi Heather,

Thank you for the email and the opportunity to provide any concerns with the site.

The Tarrawong Coal Mine has had various Government Agencies including the Resources Regulator involved in undertaking regulatory actions against the title on Conditions of Approval. I suggest you seek a copy of these regulatory actions to assist you with your environmental audit.

Regards

## Mark Buchan Senior Inspector Environment NSW Resources Regulator | Department of Regional NSW T 02 6360 9526 | M 0427 327 718 | E mark.buchan@planning.nsw.gov.au 161 Kite Street (Locked Bag 21) Orange NSW 2800 www.resourcesregulator.nsw.gov.au



The Department of Regional New South Wales acknowledges that it stands on Country which always was and always will be Aboriginal land. We acknowledge the Traditional Custodians of the land and waters, and we show our respect for Elders past, present and emerging. We are committed to providing places in which Aboriginal people are included socially, culturally and economically through thoughtful and collaborative approaches to our work.

Please Note: All applications made under the *Mining Act 1992*, and any related correspondence or inquiries must be submitted via email to <u>nswresourcesregulator@service-now.com</u> If you require any assistance lodging applications or have a general inquiry please call 1300 814 609 (Option 2 then 5).



From: Heather McKay <Heather.McKay@erm.com>
Sent: Monday, 27 July 2020 4:25 PM
To: Mark Buchan <mark.buchan@planning.nsw.gov.au>
Subject: FW: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

#### Dear Mark,

I would like to provide a reminder for the below request. I would appreciate if you could provide any items for input into the IEA by Thursday 30 July.

Kind regards, Heather

From: Heather McKay Sent: Friday, July 10, 2020 6:01 PM To: mark.buchan@planning.nsw.gov.au; nswresourcesregulator@service-now.au Cc: Lynden Cini (LCini@whitehavencoal.com.au) <LCini@whitehavencoal.com.au>; Sebastien Moreno <SMoreno@whitehavencoal.com.au>; Oliver Moore <<u>Oliver.Moore@erm.com></u> Subject: Whitehaven Coal Tarrawonga Mine - Independent Environmental Audit

Dear Mark,

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#### **ERM's Sydney Office**

Level 15, 309 Kent Street Sydney NSW 2000

T: +61 2 8584 8888 F: +61 2 9299 7502

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