

MOUNT THORLEY WARKWORTH

INDEPENDENT ENVIRONMENTAL AUDIT REPORT

for Yancoal Mount Thorley Warkworth July 2020



MOUNT THORLEY WARKWORTH

INDEPENDENT ENVIRONMENTAL AUDIT REPORT

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July 2020

for:

Yancoal Mount Thorley Warkworth PO Box 267 SINGLETON NSW 2330

EXECUTIVE SUMMARY

Hansen Bailey was approved by Department of Planning, Industry & Environment (DPIE) to conduct an Independent Environmental Audit (IEA) against the conditions of both Development Consent SSD 6464 and SSD 6465 for Yancoal Mount Thorley Warkworth (MTW).

The IEA also assessed compliance with other licences. Warkworth required compliance with: Environment Protection Licence (EPL) 1376, Consolidated Coal Lease (CCL) 753 and Mining Lease (ML) 1751. Mount Thorley required compliance with: EPL 1976 and Coal Lease (CL) 219.

The IEA was conducted by Dianne Munro (Exemplar Global Certified Auditor 107622) and Theresa Folpp from Hansen Bailey with the field visit component completed between 27 April to 30 April 2020. Ecology specialist Alex Cockerill from WSP contributed to the IEA.

The IEA consisted of a detailed desktop review of documentation, both structured and opportunistic interviews with MTW staff and a field inspection of relevant activities and processes. The IEA was conducted generally consistent with the '*Independent Audit Guideline, October 2015*' (Audit Guidelines) (DPIE, 2015).

The field inspection revealed that that housekeeping in and around the workshop, storage areas and CHPP were good. The office complex, store and workshop were in good condition and constructed generally consistent with infrastructure proposed within the relevant approvals. Water carts were observed during the main pit inspection with low visible dust observed.

A comparison of the proposed mine plans between the Mining Operations Plan and relevant approval documents showed that the progression of mining is generally consistent with the progression shown in MTW's Planning Approvals.

There were four blast non-compliances during the IEA period under SSD 6464. Two blasts exceeded the blast criteria of 120 dBA (28/12/18, 4/4/19). One blast was an administrative non-compliance for failure to capture the blast at the monitor (5/7/18). One blast was a non-compliance for its resultant dust that left the premises (7/8/19). Penalty notices were issued for the blast exceedances occurring on the 4/4/19 (DPIE) and 7/8/19 (EPA).

For the blast dust incident on 7/8/19. The blast dust travelled to the east over land associated with Warkworth Coal Mine, Putty Road, and the Mount Thorley Industrial Estate before dissipating over farmland east of the licenced premises.

All noise monitoring results complied with the LAeq,15minute criteria during the IEA period.

All air quality short term and annual average results were compliant with the impact assessment criteria in accordance with the approved air quality management plan.

Weed control is an ongoing management issue for both rehabilitation and biodiversity offset areas (BOAs). Significant infestations of a variety of pasture and exotic high threat weeds were observed within the Southern and Northern BOAs in areas, predominately in disturbed condition areas including WSW Transition sites. The current weed management controls on site are generally acceptable and in accordance with key guidelines. However, successfully management and tracking of improvement in these areas against performance and long-term completion criteria may require more intensive control actions.

Annual heritage inspections were conducted during the IEA period. There were three salvages undertaken in accordance with ACHMP methodologies and in consultation with Upper Hunter Aboriginal Cultural Heritage Working Group (CHWG) for which final salvage reports are yet to be finalised.

The NSW Resources Regulator undertook an inspection of rehabilitation areas at MTW which identified there were ongoing delays in the progression of rehabilitation areas. As a result of the observation, MTW was directed via two section 240 notices to undertake corrective actions. These are being progressed.

Four reportable incidents occurred during the audit period, including: 30 March 2019 Water Discharge Incident, 4 April 2019 Blast Incident, 28 Dec 2018 Blast Incident and 4 Dec 2017 Water Incident. All were reported in accordance with relevant conditions. Outstanding actions are being progressed.

Key actions and recommendations from the previous IEA completed for MTW in 2017 were reviewed and have generally been completed as described in **Section 4**. There is one outstanding item from the previous audit which should be addressed as soon as possible.

This IEA identified some non-compliances against conditions of Development Consent SSD 6464 and SSD 6565, and other licences and approvals. Non-compliances to be addressed are summarised in **Section 6** and detailed in **Appendix E** of this report.

Of the 28 non-compliances against a condition of a licence or approval was identified, 12 were low risk and eight were identified as administrative in nature. The remaining seven noncompliances were assessed to be medium risk, of which three were duplicative in two or more licences or approvals. Of the 13 low risk non-compliances, three were duplicative of two or more licences and approvals.

At the time of the audit, MTW staff were aware of the identified non-compliances against conditions, licences and approvals and were actively working to address a number of the issues identified in this report.

Recommendations arising from a review of environmental management documentation, the IEA site inspections and identified non-compliances is provided in **Section 7**.

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LIMITATIONS OF REPORT

In preparing this IEA report, Hansen Bailey has assessed all activities appropriate and necessary to evaluate the environmental status of the site and operations on it. Hansen Bailey has addressed all technical matters which might reasonably be considered to be relevant to such an assessment conducted to standards which apply in NSW.

Based on observations of the site, interviews with appropriate staff and a review of available documentation, it is Hansen Bailey's opinion that the potential critical environmental issues associated with the site and operations are those discussed in this report. However, Hansen Bailey can only advise on the basis of the information available to them and therefore cannot dismiss absolutely the possibility that parts of the site, or adjacent properties, may give rise to additional issues.

The conclusions presented in this report are professional opinions based solely upon Hansen Bailey's visual observations of the site and the immediate site vicinity, and upon Hansen Bailey's interpretations of the documentation reviewed, interviews and conversations with personnel knowledgeable about the site and other available information, as referenced in this report. These conclusions are intended exclusively for the purposes stated herein, at the site listed, and for the project indicated.

Opinions presented in this report apply to the site's conditions and features as they existed at the time of Hansen Bailey's site visit from 27 April to 30 April 2020, and those reasonably foreseeable. They necessarily cannot apply to conditions and features which Hansen Bailey is unaware of and has not had the opportunity to evaluate.

This report does not, and does not purport to, give legal advice on the actual or potential environmental liabilities of any individual or organisation, or to draw conclusions as to whether any particular circumstances constitute a breach of relevant legislation.

MOUNT THORLEY WARKWORTH INDEPENDENT ENVIRONMENTAL AUDIT for Yancoal Mount Thorley Warkworth

1 INTRODUCTION

1.1 BACKGROUND

Hansen Bailey was commissioned by Yancoal Mount Thorley Warkworth (MTW) to conduct an Independent Environmental Audit (IEA) against Development Consent SSD 6464 (Warkworth Mine) and SSD 6465 (Mount Thorley), collectively referred to as Mount Thorley Warkworth. Yancoal Mount Thorley Warkworth manages the operations on behalf of joint venture partners.

The original supporting documentation for Warkworth SSD 6464 is the 'Warkworth Continuation 2014 EIS' (EMM, June 2014) (Warkworth EIS).

The original supporting documentation for Mount Thorley SSD 6465 is the 'Mount Thorley Operations 2014 EIS' (EMM, June 2014) (Mount Thorley EIS).

The timeframe that this IEA Report applies to is from 5 May 2017 to 30 April 2020 (IEA period). The IEA was conducted by Dianne Munro (DM) (Lead Auditor – Exemplar Global Certified Auditor 107622), and Theresa Folpp (TF) (Auditor) from Hansen Bailey.

Ecology specialist Alex Cockerill from WSP audited the ecological performance of MTW operations in relation to his specialist area.

The IEA team was approved by the Department of Planning, Industry and Environment (DPIE) on 24 February 2020 (see **Appendix A**).

The IEA consisted of a detailed desktop review of documentation and scheduled and opportunistic interviews with a significant number of available staff including:

- Brendan Behringer (BB) Operations Support & Projects (OS&P) Manager (Acting);
- John Campbell (JC) Technical Services Manager;
- Paul Davis (PD) Coal Handling & Preparation Plant (CHPP) Manager;
- Craig Sheedy (CS) CHPP Superintendent Production North;
- John Burgess (JB) CHPP Superintendent Production South;
- David Bennett (DB) Mine Manager;
- Damian Prance (DP) Maintenance Manager;
- Martin Phillips (MP) Maintenance Superintendent Support;
- Adam Rice (AR) Health and Safety Manager;

- Thomas Holz (TH) Tenements and Land Access Manager;
- Gary Mulhearn (GM) Environment & Community Manager;
- Douglas Fenton (DF) Environmental Advisor (Monitoring);
- Olivia Lane (OL) Environment and Community Coordinator;
- Wade Covey (WC) Environment and Community Coordinator;
- Bill Baxter (BB) Environmental Specialist Rehabilitation;
- Jessica Blair (JB) Environmental Advisor (Land Management); and
- Kelly Adamthwaite (KA) Specialist, Tenements and Land Access.

A field inspection of the mining area and other infrastructure areas was undertaken generally in accordance with 'ISO 14010 – Guidelines and General Principles for Environmental Auditing', and 'ISO 14011 – Procedures for Environmental Auditing'.

The field inspection was conducted between 27 April to 30 April 2020 by Hansen Bailey and a one-day site inspection was undertaken by WSP on 28 April 2020. Stringent COVID19 practices were in place during the site visit, including social distancing.

Photos from the field inspection are shown in **Appendix B**.

There was 97 mm of rainfall recorded in March 2020. During the site inspection there was light rainfall and temperatures were mild (19-22°).

An Opening and Closing Meeting was held at site with the Senior Management Team (SMT) and Environmental staff in attendance. A significant number of MTW employees attended the closeout meeting via web service. The Audit Itinerary is presented in **Appendix C**.

1.2 **REPORT STRUCTURE**

Section 1 provides an introduction, background, describes and provides a guide to the structure of the report;

Section 2 describes approved operations, approvals documents for SSD 6464 and SSD 6465, and provides a site description and layout of MTW;

Section 3 outlines audit requirements and applicable auditing guidelines;

Section 4 summarises recommendations made during the previous IEA (2017);

Section 5 outlines the identified non-compliances and the status against SSD 6464 and SSD 6465, its supporting documents and other licences and approvals. It also includes a high level risk assessment in accordance with the '*Independent Audit Guideline, October 2015*' (Audit Guidelines) (DPIE, 2015);

Section 6 lists required management plans, programs and strategies; and

Section 7 summarises key recommendations from the IEA.

2 SITE DESCRIPTION

This section provides a description of each of Warkworth Mine and Mt Thorley Mine.

2.1 WARKWORTH MINE

Warkworth Mine is an open cut mine located approximately 8 km south west of Singleton in the Hunter Valley. It has been continuously operating since 1981.

The area immediately surrounding the mine is dominated by coal mines and associated infrastructure, agriculture and other mining-related industry. Hunter Valley Operations, the now disused Redbank Power Station and Wambo Mine are to the north and north-west, respectively. Mount Thorley and the Bulga Coal Complex are located to the south. Mount Thorley Industrial Estate (MTIE) is to the east.

The nearest settlement is the Bulga village, which is located approximately 5 km to the west. The majority of residents are located off The Inlet Road. The residences at the western limit of The Inlet Road are slightly elevated and have direct views of the Bulga and Mt Mount Thorley mine overburden emplacement areas. There are also several rural-residential properties in proximity to Warkworth Mine.

Warkworth Mine currently operates under SSD 6464 issued by the then Planning Assessment Commission (PAC) on 26 November 2015 which allows for the following activities:

- An extension of the approved mining disturbance footprint by approximately 698 ha to the west;
- Extraction of a further 230 million tonnes of coal over 21 years;
- Continued extraction of up to 18 million tonnes of run of mine coal per year;
- Existing use of coal transportation infrastructure;
- Tailings and overburden to be transferred to Mount Thorley's final landform;
- The closure of Wallaby Scrub Road;
- An option to develop an underpass beneath Putty Road for the third bridge crossing;
- Minor changes to the design of the Northern out-of-pit dam; and
- The continued use of secondary access gates to the mine site and offsets for activities such as drilling, offset management, and equipment shutdown pad access;

Warkworth Mine is shown in Figure 1 reproduced from Appendix 2 of SSD 6464.

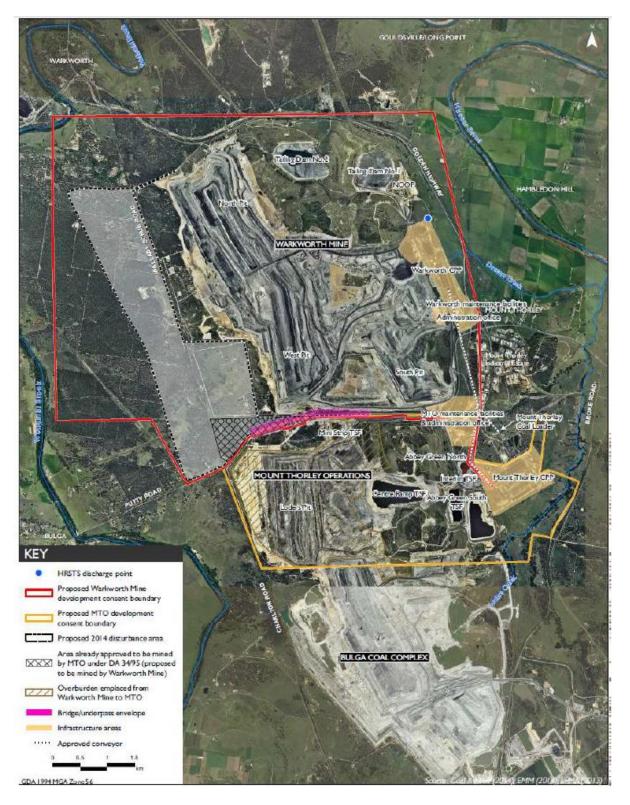


Figure 1 Warkworth SSD 6464 Project Layout

2.2 MOUNT THORLEY MINE

Mount Thorley Mine (Mount Thorley) is an open cut mine located approximately 10.5 km southwest of Singleton.

Mount Thorley currently operates under SSD 6465 issued by the then Planning Assessment Commission (PAC) on 26 November 2015 which allows for the following activities:

- Maintain existing extraction rate of 10 million tonnes per year (Mtpa) of ROM coal;
- Completion of mining in Loders Pit;
- Maintain integrated MTW water management and tailings management systems; and
- Continuation of coal transfer between Warkworth Mine and Mount Thorley and transportation of coal to the Port of Newcastle.

Mount Thorley is shown in Figure 2 reproduced from Appendix 2 of SSD 6465.

2.3 OTHER APPROVALS AND LICENCES

Warkworth operates in accordance with EPL 1376 under the *Protection of the Environment Operations Act 1997* (POEO Act). Mount Thorley operates in accordance with EPL 1976.

Key MLs considered in this IEA include: CCL753, CL219, ML1412, ML1590, ML1751, ML1752.

2.4 AUDIT PERIOD SUMMARY OF MINING AND REHABILTATION

Mining activities at Warkworth advanced in a westerly direction in both North and West Pits. Within Mount Thorley, two small areas in the northern and southwestern extents of the mining lease are anticipated to reach their final limits during 2020 with remaining reserves to be mined to depth during 2020.

Exploration drilling was conducted within the relevant mining leases: Consolidated Coal Lease (CCL 753) and Mining Lease (ML) 1751; ahead of mining and within the pit to gain further information on the resource.

As per Section 7.3 of the 2019 Annual Review (AR), progressive rehabilitation commitments are outlined in the Warkworth Continuation 2014 and Mt Thorley Operations 2014 Environmental Impact Statements. These documents modelled a total of 1,103 ha of rehabilitation to be completed by the end of 2017, and a further 505.8ha to be completed by the end of 2023. At the end of the 2019 there had been 1,282 hectares of rehabilitation completed across MTW, 179 ha ahead of the EIS forecast for the end of 2017 and tracking well to achieve the forecast total rehabilitation area at the end of 2023.

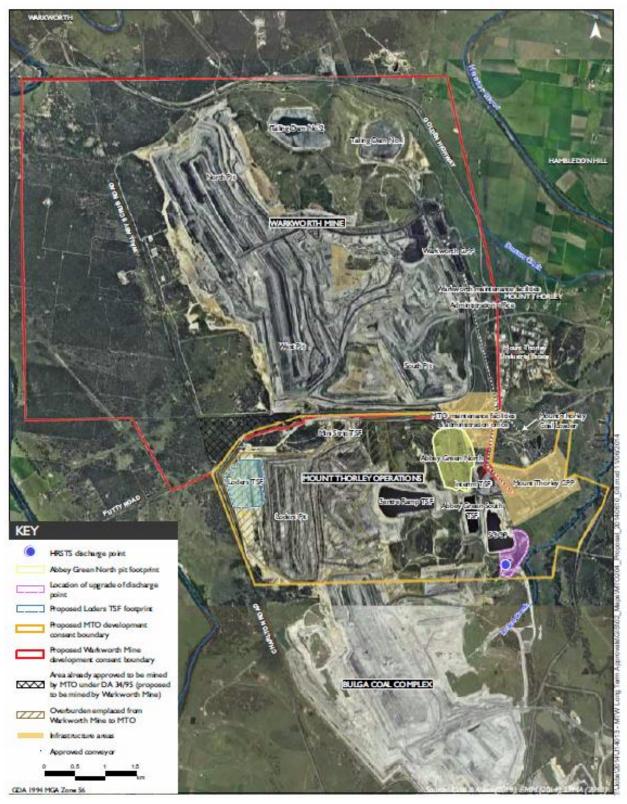


Figure 2 Mount Thorley SSD 6465 Project Layout

3 AUDIT REQUIREMENTS

This section describes the IEA requirements for Warkworth (SSD 6464) and Mount Thorley (SSD 6465) and where each is addressed in this report.

3.1 DEVELOPMENT CONSENT

This assessment and subsequent report have been compiled pursuant to Schedule 5 Condition 9 of SSD 6464 and Schedule 5 Condition 9 of SSD 6465.

Each requirement is listed for the respective conditions is in **Table 1** and **Table 2** along with where each is addressed in this report.

	Description	Where Addressed
З у со	thin 1 year of the commencement of development under this consent. and every vears thereafter, unless the Secretary directs otherwise, the Applicant shall mmission and pay the full cost of an Independent Environmental Audit of the velopment. This audit must:	
a)	be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;	Appendix A Appendix D
b)	include consultation with the relevant agencies;	Appendix A
c)	assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);	Appendix E
d)	include an assessment - undertaken by an independent expert whose appointment has been endorsed by OEH - of the progress towards implementation of the biodiversity offset strategy in particular the regeneration of the Warkworth Sands Woodland against the detailed performance and completion criteria under the Biodiversity Management Plan (see condition 36 of schedule 3);	Appendix F
e)	review the adequacy of strategies, plans or programs required under the abovementioned approvals; and	Section 4 Appendix E
f)	recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under the above-mentioned approvals.	Section 7
	ote: This audit team must be led by a suitably qualified auditor and include perts in any field specified by the Secretary.	Appendix A Appendix D

Table 1Warkworth SSD 6464 IEA Requirements

Table 2Mount Thorley SSD 6465 IEA Requirements

	Description	Where Addressed
3 yea comr	n 1 year of the commencement of development under this consent. and every ars thereafter, unless the Secretary directs otherwise, the Applicant shall nission and pay the full cost of an Independent Environmental Audit of the lopment. This audit must:	
and the second		Appendix A Appendix D
(b)	include consultation with the relevant agencies;	Appendix A
 (c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); 		Appendix E
(d)	review the adequacy of strategies, plans or programs required under the above mentioned approvals; and	Section 4 Appendix E
(e)	recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under the abovementioned approvals.	Section 7
	: This audit team must be led by a suitably qualified auditor and include rts in any field specified by the Secretary.	Appendix A Appendix D

3.2 AUDIT GUIDELINES

This audit report has also been prepared generally in accordance with the '*Independent Audit Guideline, October 2015*' (Audit Guidelines) (DP&E, 2015). **Table 3** lists key requirements from the Audit Guidelines, the relevant Section of the Guidelines which references the requirement and indicates where each is addressed in this report.

Table 4 reproduces the "risk levels" from Section 4.1 of the Audit Guidelines which were attributed to the non-compliances identified during the audit period as described in **Section 6**.

Table 3Audit Guidelines Requirements

Section	Description	Where Addressed	
	Assess the operator's compliance with the requirements of regulatory approvals, including (as applicable):		
0	Development Consent;	Section 6 &	
2	Environment Protection Licence;	Appendix E	
	Mining Lease; and		
	Water licences and approvals.		
2, 3	The scope of the audit and the audit team (including any technical specialists) to be determined by the lead regulator.	Section 1.1	
3.3	The auditor team must be independent of the development being audited and audit findings must be based on verifiable evidence.	Section 6 & Appendix D	
4.1	The compliance status of each requirement or commitment should be assessed in accordance with the compliance assessment criteria and risk levels in the audit guidelines.	Section 6	
4.2	Consultation with key regulatory agencies prior to commencement of the audit site inspection.	Section 3.3	
5.1	The audit outcomes to be documented in a thorough, accessible and accurate audit report that is written in a neutral tone reflecting facts gathered by the audit team.	This IEA Report	
	The audit report should include the following sections:		
	 Introduction, providing a brief overview of the development, audit scope and objectives; 		
	 Methodology, describing the audit team, methodology applied, document reviews, site inspections and interviews; 		
5.1	 Audit findings, including documentation of consultation, response to actions from the previous audit, assessment of compliance status against the conditions and commitments in relevant documents and a discussion of environmental incidents and performance; and 	This IEA Report	
	 Recommendations, identifying any opportunities for improvement identified in the audit. 		
5.2	Audit reports submitted to the lead regulator must be certified by the lead auditor on an attached 'Independent Audit Submission Form'.	Appendix D	
5.3	Copies of the final audit report to be distributed to regulatory agencies within two weeks of finalisation and placed on the development's website.	MTW	
6	The operator of the development to respond to the lead regulator responding to the audit findings and recommendations with an action plan within four weeks of receiving the final audit report.	MTW	

Risk Level	Colour Code	Description
High	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence	
Medium unlikely to occur; or potential for moderate environmental consequences, likely to occur Low Non-compliance with: potential for moderate environmental consequences, unlikely to occur; or potential for moderate environmental consequences, unlikely to occur; or potential for low environmental consequences, but is to occur Administrative Only to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to any risk of environmental harm (e.g. submitting a report to any risk of environmental harm (e.g. submitting a report to any risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to any risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to any risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to any risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitting a report to be applied where the non-compliance does not reany risk of environmental harm (e.g. submitt		 potential for serious environmental consequences, but is unlikely to occur; or potential for moderate environmental consequences, but is
		 potential for moderate environmental consequences, but is unlikely to occur; or potential for low environmental consequences, but is likely
		Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

 Table 4

 Audit Guidelines Risk Levels for Non-Compliances

3.3 AGENCY CONSULTATION

During the preparation for this IEA, input was sought from regulatory agencies to confirm any areas of compliance or environmental management at MTW that should be a particular focus. The following agencies were approached directly by Hansen Bailey for input as part of the scoping phase of this IEA:

- DPIE;
- DPIE Resources Regulator;
- Environment and Protection Authority (EPA);
- Natural Resources Access Regulator (NRAR);
- Biodiversity and Conservation Division (BCD);
- Heritage Council;
- Transport for NSW (TfNSW);
- MTW Community Consultative Committee (CCC) and
- Singleton Shire Council (SSC).

Where issues were raised during consultation, these are listed in **Table 5** and where each has been addressed. DPIE, BCD, EPA and TfNSW replied with no issues to address.

Table 5Agency Requirements and Where Addressed

Ref	Key Requirement	Where Addressed
Reso	burces Regulator	
1.	Review relevant mining leases and exploration licences as agreed with Resources Regulator (CCL753, CL219, ML1412, ML1590, ML1751, ML1752	Appendix E Table C
2.	Undertake an assessment of compliance against the conditions of title related to environmental management	Appendix E Table C
3.	Verify that there is a current Mining Operations Plan (MOP) in place and it has been approved by the Regulator – review compliance against any conditions of approval of the MOP	Appendix E Table A & C
4.	 Undertake a critical review of the MOP, including an assessment of its compatibility with the description of operations contained in the planning approval. In particular: Review the rehabilitation strategy as outlined in the MOP to determine if it is consistent with the Project Approval in terms of progressive rehabilitation schedule; and proposed final land use(s); and Review the rehabilitation objectives and completion criteria as outlined in the MOP to determine if they have been developed in accordance with the proposed final land use(s) as outlined in the Project Approval 	Appendix E Table A Cond 56 & 57
5.	Review the development and implementation of any rehabilitation monitoring programs to assess performance against the nominated objectives and completion criteria – verified by reviewing monitoring reports and rehabilitation inspection records	Appendix E Table A Cond 56 & 57
6.	Determine if a rehabilitation care and maintenance program has been developed and implemented based on the outcomes of monitoring program – verified by reviewing Annual Rehabilitation Programs or similar documentation	Viewed 'Rehabilitation Maintenance Program 201719' which shows native vegetation rehabilitation monitoring listing number of species, stems per hectare and natives sown. The presentation also shows evidence of tree thinning in response to high stem densities and weed control conducted on high exotic plant cover levels.

Ref	Key Requirement	Where Addressed
		Vegetation cover scores and habitat features are recorded against MOP criteria.
7.	Confirm that mining operations are being conducted in accordance with the approved MOP (production, mining sequence etc.), including within the designated MOP approval boundary – to be verified by site plans and site inspection	Appendix E Table A Sch 2 Cond 2 & Cond 57
8.	Confirm that rehabilitation progress is consistent with the approved MOP as verified by site plans and a site inspection. This should include an evaluation against rehabilitation targets and whether the final landform is being developed in accordance with conceptual final landform in the Project Approval	Appendix E Table A Cond 57
9.	Based on a visual inspection, determine if there are any rehabilitation areas that appear to have failed or that have incurred an issue that may result in a delay in achieving the successful rehabilitation outcomes	Appendix E Table A Cond 57
10.	Note observations where rehabilitation procedures, practices and outcomes represent best industry practice	Appendix E
NRA	R	
11.	Review any approved and/or in draft Groundwater/Water Management Plans	Appendix E Table A Sch 3 C.27 (b)(iii)
12.	Review relevant site monitoring and incident reporting	Appendix E Table A Cond.26-27 & Sch 5 C.7
13.	Review of Water Access Licences, associated conditions and current take of water	Appendix E Table A Sch 3 C.22
14.	Review all Conditions of Approval	Appendix E
Herit	age Council	
15.	 Whether the proponent complied with mitigation measures relating to heritage issues discussed in: The letter from the Heritage Council to DPIE dated 24 July 2014 titled 'Heritage Council comments on Environmental Impact Statement for Warkworth Continuation Project (SSD 6464)' and The letter from OEH dated 3 July 2017 titled 'SSD-6464/6465 – Coal & Allied - Mount Thorley Warkworth Project Approvals – Historic Heritage Management Plan (SSD 6464, Schedule 3, Condition 46)' 	Appendix E Table A Sch3 C.38-46
16.	Ensure that if any historic heritage was uncovered during the operation of the mines, the unexpected finds protocol for historical	Appendix E Table A Sch 3 C.46

Ref	Key Requirement	Where Addressed
	archaeology was complied with in accordance with s146 of the <i>Heritage Act 1977</i> (notification of discovery of relics)"	
SSC		
-	Council would like to see evidence that the following matters have been satisfactorily addressed by the Applicant in the audit report, particularly the extent to which the Applicant has considered and adopted advice and/or recommendations from council.	-
17.	S94 contributions	Appendix E Table A Sch 2 C.15
18.	Community enhancement contribution	Appendix E Table A Sch 2 C.15
19.	Blast management, including planning and management within 500m of a council road	Appendix E Table A Sch 3 C.8-16
20.	Car parking (specific to Warkworth only)	Appendix E Table A Sch 3 C.2
21.	Coal haulage on public roads	Appendix E Table A Sch 2 C.7
22.	Bushfire management	Appendix E Table A Sch 3 C.54
23.	Rehabilitation management planning	Appendix E Table A Sch 3 C.56 & 58
24.	Visual screening (Mount Thorley only)	Appendix E Table A Sch 3 C.52

4 MANAGEMENT PLANS, PROGRAMS AND STRATEGIES

SSD 6464 and SSD 6465 requires preparation of management plans and strategies. All currently approved management plans developed for MTW in accordance with the requirements of SSD 6464 and SSD 6465 were reviewed during this IEA, including:

- Air Quality Management Plan (AQMP) (August, 2019);
- Noise Management Plan (NMP) (August, 2019);
- Blast Management Plan (BMP) (August, 2019);
- Water Management Plan (WMP) (September, 2018);
- WML Biodiversity Management Plan (WML BMP) (September, 2018);
- Rehabilitation Management Plan (addressed in MOP) (RMP) (June, 2019)
- Environmental Management Strategy (EMS) (August, 2018);
- MTW Historic Heritage Management Plan (HHMP) (October, 2017);
- MTW Aboriginal Heritage Management Plan (AHMP) (August, 2019);
- Wollombi Brook Aboriginal Cultural Heritage Conservation Area Conservation Management Plan (ACHCAMP) (October, 2017);
- Management Plan for Goulburn River Biodiversity Area (June, 2017) (DP&E)
- Management Plan for Bowditch Biodiversity Area (June, 2017) (DP&E);
- Management Plan for Southern Biodiversity Area (June, 2017) (DP&E);
- Management Plan for Northern Biodiversity Area (June, 2017) (DP&E);
- Management Plan for North Rothbury Biodiversity Area (June, 2017) (DP&E);
- Warkworth Sands Woodland Integrated Management Plan Pending (Submitted to OEH July, 2018); and
- Warkworth Sands Woodland Performance Criteria (Pending (Submitted to OEH July, 2018).

The status of each plan and any relevant recommendations in relation to each is provided in **Appendix E** at the relevant condition.

EPL 1376, EPL1976 and the 'Mount Thorley Warkworth Mining Operations Plan Amendment B' (23 May 2019 – 30 November 2021) (MOP) documents relevant to MTW operations during the audit period were also reviewed.

5 PREVIOUS AUDIT RECOMMENDATIONS AND STATUS

The key recommendations from the 2017 IEA and the status of each at the time of this IEA are summarised in Table 6.

Table 6			
Status of 2017 IEA Recommendations			

Ref	Reference and Response	Status	Status			
2017	2017 IEA NON-COMPLIANCE RECOMMENDATIONS					
1.	SSD 6464 Sch. 3 C24(a), WMP 7.4.3.1 An internal investigation was undertaken in response to an incident in the previous audit period (on 6/1/2016 a sediment dam overtopped resulting in an uncontrolled discharge). The investigation and subsequent action plan has been completed to rectify the issues at this dam and to prevent reoccurrence not only at this dam but other dams being constructed or modified. No further action is required in response to this finding.	Compliant	Complete (2019 AR, Appendix 8).			
2.	SSD 6464 Sch.3 C.27(b)(ii) SSD 6465 Sch.3 C.25(b)(ii) MTW to update the WMP to include further detail on the performance objectives and management objectives for Final Voids, as indicated in the development consents and the EIS commitments.	Compliant	The MTW Mining Operations Plan (MOP) includes detailed plans and rehabilitation objectives for the site, including for final voids. To address this item, a link to the MOP was included in an update to the Water Management Plan (WMP) approved by DP&E on 20 September 2018 (2019 AR, Appendix 8). Viewed Section 7.6 of the WMP which includes link to MOP. Reviewed MOP, see response to Sch 3 Cond 58(g) of SSD 6464 (Appendix E)			

Ref	Reference and Response	Status	Status
3.	MT EIS 2.4.4 (iii Extensive geochemical testing of overburden has been carried out across MTW with results showing very low risk of Acid Rock Drainage (ARD) in the overburden material being mined at MTW. The results of sampling conducted to date will be presented to DP&E to justify why ongoing characterisation of overburden materials across MTW is not required.	Compliant	As stated in the 2019 AR, Appendix 8, a "Presentation made to DP&E Compliance Team on 09/10/2018 to present results of overburden and interburden ARD assessments and testing conducted at MTW to illustrate why ongoing characterisation of overburden materials across MTW is not required. No further action required." During the IEA, the presentation was viewed. DPIE were satisfied (BB pers comms).
4.	AHMP 9 MTW to ensure that the AHMP and the MTW induction will cover all specific Cultural Heritage awareness requirements and that suitable training records are maintained	Compliant	See response to Sch 3 Cond 43(b) of SSD 6464 (Appendix E)
5.	BMP 5.2.3 An internal investigation identified the cause of the data loss to be isolated to a GPS fault on a single blast monitoring unit. This fault has since been corrected and no further action is required in response to this finding.	Compliant	Complete (2019 AR, Appendix 8)
6.	BMP 5.2.2 MTW to review process for documenting training records for training required by BMP to ensure that suitable training records are maintained.	Compliant	Viewed BMP training procedures listing the role and purpose for Drill and Blast Engineer, Environment and Community Coordinator and Drill Coordinator.

Ref	Reference and Response	Status	Status
7.	NMP 6.2 Car-pooling occurs however MTW do not run programs to specifically encourage car-pooling nor is it deemed to be necessary to do so. The Noise Management Plan will be revised to reflect this.	Compliant	The NMP was updated on 31/3/2014 (Secretary approval on 6/8/2014) to include this requirement. The NMP was updated on 30/11/2017 (Secretary approval on 6/8/2018) to remove this requirement as it is not an EIS requirement and MTW considers it impractical as all traffic travels via the Golden Highway (which is a busy road).
8.	20BL170012 C.9, 20BL170011 C.9, 20BL171930 C.8, 20BL171932 C.8. Following commencement of the North Coast Fractured and Porous Rock Groundwater Sources Water Sharing Plan on 1/7/2016, Licences 20BL170011 and 20BL170012 have been converted to Water Access Licences (WALs 40464 and 40465 respectively). Revised licence conditions issued by DPI Water are to be reviewed; to reflect that groundwater inflows to a pit excavation cannot be measured using a flow meter. Licences 20BL171930 and 20BL171932 are related to a historical methane extraction project; the bores are not in use. An investigation will be undertaken to determine if the bores should be formally abandoned and the licences relinquished, or if used for monitoring, an application sought to modify the licence purpose and conditions to reflect no water is to be abstracted.	Compliant	20BL170011 was cancelled and replaced by WAL40464 (GM pers comms). Viewed WAL40464 Certificate of Title. Revised licences do not include a condition that groundwater inflows to pit excavation require to be measured using a flow meter. No flow meter is installed to measure in pit water take. EIS predictions based on a numerical model are used (MTW Annual Groundwater Review 2019). In regards to Licences 20BL171930 and 20BL171932, one was mined and the other not in use, therefore, no action required (GM pers comms).

Ref	Reference and Response	Status	Status
9.	20BL170011 C.8 and C.10 20BL170012 C.8 and C.10 Following commencement of the North Coast Fractured and Porous Rock Groundwater Sources Water Sharing Plan on 1/7/2016, Licences 20BL170011 and 20BL170012 have been converted to Water Access Licences (WALs 40464 and 40465 respectively). Revised licence conditions issued by DPI Water are to be reviewed; to reflect that groundwater inflows to a pit excavation cannot be measured using a flow meter.	See response to Ref 8	
2017	IEA CONTINUAL IMPROVEMENT RECOMMENDATIONS		
10.	A final report will be compiled to bring together the results and completed compliance actions relating to the MTW 2016 ACH salvage	Compliant	As stated in Appendix 8 of the 2019 AR, the 2016 Compliance and Salvage Report was updated and finalised on 21/8/18. There were 19 cultural heritage sites within the Stage 1 AHMP area. Viewed 2016 Cultural Heritage Site Compliance Inspections and Salvage Fieldwork Report.
11.	Determine the Wollombi Brook Probable Maximum Flood (PMF) RL at the Charlton levee and ensure there is 500mm of freeboard (from PMF to levee top RL).	Compliant	See response to Sch 3 Cond 26 of SSD 6464 (Appendix E).
12.	Review process for documenting training records for training required by approvals. Implement process for documenting these training records as required.	Not Compliant	Review of process has been completed by MTW, and progress has been made but not finalised (e.g. Viewed BMP training procedures listing the role and purpose for Drill and Blast Engineer, Environment and Community Coordinator and Drill Coordinator). ` See response to Sch 5 Cond 1 of SSD 6464 (Appendix E).

6 NON-COMPLIANCES AGAINST APPROVALS AND LICENCES

This section provides a discussion on the identified non-compliances and status against SSD 6464, SSD 6465 and other licences approvals available for review at the time of the IEA.

Table A and B of **Appendix E** provides a complete tabulated list of conditions of SSD 6464 and SSD 6465, respectively with the compliance status and comments against each. Table C in **Appendix E** provides a list of the other licences and approvals assessed as part of this IEA, with the compliance status and comments against each.

A summary of the non-compliances against each document is summarised in **Table 7**. Recommendations arising from the non-compliances are included in **Section 7**.

Ref	Non-Compliance	Risk
SSD 6464		
Sch 2 Cond 2(b)	Some non-compliances identified in SSD 6464 as described below.	N/A
Sch 2 Cond 9	The application to surrender DA-300-9-2002-i has not been approved by DPIE. Email from DPIE dated 3/3/20 states that DPIE does not have capacity to complete the surrender and will complete in "the near future".	Administrative
Sch 3 Cond 8	Three blast non-compliances during the IEA period. Two blasts exceeded the blast criteria of 120 dBA (28/12/18, 4/4/19). One blast was an administrative non-compliance for failure to capture the blast at the monitor (5/7/18). A penalty notice was issued from DPIE for the blast exceedance occurring on the 4/4/19.	Medium
Sch 3 Cond 14(a)	Blast dust incident on 7/8/19. The blast dust travelled to the east over land associated with Warkworth Coal Mine, Putty Road, and the Mount Thorley Industrial Estate before dissipating over farmland east of the licenced premises. A penalty notice was issued by the EPA for the blast dust incident.	Medium
Sch 3 Cond 26	Two water management incidents (4/12/17 and 30/3/19) which incurred MTW three penalty notices and one caution.	Medium
Sch 3 Cond 28	The condition requires retirement of the required biodiversity credits within 3 years of the development commencing (i.e. by 14 February 2019). Although correspondence with regulators has occurred regarding progress to date, including issues with changing biodiversity legislation, possible timelines to complete, and correspondence on impending administrative non-compliance with this condition, there is no evidence available that the timelines proposed for the retirement of biodiversity credits has been achieved. No formal extension to the 3 year timeframe can be granted by DPIE as the condition does not allow the Secretary to grant one.	Administrative

Table 7Non-Compliances Identified

Ref	Non-Compliance	Risk
Sch 3 Cond 30	No evidence that offset areas listed in Table 12 have been secured under an in-perpetuity conservation mechanism in accordance with the relevant provisions of the <i>Threatened Species Conservation Act.</i>	Low
Sch 3 Cond 34	2017 audit confirmed it sighted evidence of consultation with neighbouring mines and OEH. OEH has not confirmed whether the Integrated Management Plan for the Warkworth Sands Woodland EEC is to their satisfaction.	Low
Sch 3 Cond 43(c)	The research program as part of the AHMP has not been progressed and was due to be implemented in August 2017.	Low
Sch 3 Cond 51b	At the time of the IEA site visit, coal transport amounts were not reported on the website or in the Annual Review. The Annual Review has since been updated and coal transport amounts are now included in Section 4.3.	Administrative
Sch 3 Cond 55(c)	No evidence that waste minimisation and management measures are reported in the Annual Review.	Administrative
Sch 3 Cond 57	There were ongoing delays in the progression of rehabilitation areas identified by the Resources Regulator for which MTW received a Section 240 notice.	Low
Sch 5 Cond 5(a)	 No evidence that a revision of the strategies, plans and programs was undertaken following the: 4 Dec 2017 Water Incident; and 28 Dec 2018 Blast Incident. 	Administrative
Sch 5 Cond 7	In regards to the 4 December 2017 Water Incident, no evidence that Secretary was notified within 7 days.	Low
SSD 6465		
Sch 2 Cond 2(b)	Some non-compliances identified in SSD 6464 as described below.	N/A
Sch 3 Cond 6	At the end of the 12 month 2019 calendar year, one Mt Thorley blast at the Wollemi Peak Road monitoring location exceeded 5 mm/s. This represented 6.3% of blasts which his greater than the allowable 5% of blasts. DPIE have advised that no further action would be taken at this time regarding the incident.	Low
Sch 3 Cond 27	No evidence that the Loders Creek Aboriginal Cultural Heritage Conservation Area has been entered into a Conservation Agreement.	Medium
Environment Protection Licence (EPL) 1376		
L.5	As reported in the EPL Annual Returns, during the IEA period, there were two non-compliances against L5.2 for blast events on 4/4/19 and 28/12/18, discussed in Sch 3 Cond 8 of SSD 6464). A further Non- compliance in 2017 for low level fume emitted from West Pit. This is the same non-compliance as for SSD 6464 Sch 3 Cond 8 and 14a.	Medium

Ref	Non-Compliance	Risk
O1.1	As reported in the EPL Annual Returns, during the IEA period, there were two non-compliances against O1.1 for sediment dam overtop at Dam 53N and for separate water incident on 4/12/17.	Medium
	This is the same non-compliance as for SSD 6464 Sch 3 Cond 26.	
M2.1 M2.2	As reported in the EPL Annual Returns, during the IEA period, there was a non-compliance against M2.2 for non-continuous data capture and non-compliance against M2.3 for not providing quarterly effluent monitoring samples.	Low
M4.1	As reported in the EPL Annual Returns, during the IEA period, there was one non-compliance against M4.1 for failure to capture continuous data at the Charlton Ridge met station. This has been resolved.	Low
G2 E1	As reported in the EPL Annual Returns, during the IEA period, there was one non-compliance against E1.1 for dam 46N. This is the same non-compliance as for SSD 6464 Sch 3 Cond 26.	Low
EPL 1976		
L5	Non-compliance for 5% of blasts <5mm/sec in EPL reporting period, reported in Annual Return for MTO 1976 submitted to EPA on 29/5/20. Discussed further in SSD 6465 Sch 3 Cond 6. This is the same non-compliance as for SSD 6465 Sch 3 Cond 6.	Low
M2	As reported in the EPL Annual Returns, during the IEA period, there was one non-compliance against M2.2 for non-continuous data capture and against M2.3 for failure to sample at monitoring point 3. There were also non-compliances against Condition M.2 for failure to sample at monitoring point 3. This has been resolved.	Low
M4	As reported in the EPL Annual Returns, during the IEA period, there were two non-compliances against M4.1 for failure to capture continuous data at the Charlton Ridge met station. This has been resolved.	Low
Consolidate	d Coal Lease (CCL) 753	
Cond 56	Dam 48N was constructed in 2017 within CCL 753 to control sediment within Warkworth Pit in accordance with the Water Management Plan. The Water Management Plan (WMP) states that erosion and sediment controls will be designed generally in accordance with the 'Blue Book': Managing Urban Stormwater: soils and construction, but there is no evidence that Mining, Exploration and Geoscience (MEG) (or the District Inspector of Coal Mines) approved the WMP or the construction of Dam 48N. It is noted that this temporary sediment Dam 48N has been mined through during the audit period.	Administrative
Mining Lease (ML) 1751		

Ref	Non-Compliance	Risk	
Cond 5	No evidence that the Secretary or was notified within seven days of the 4/12/17 Water Incident. This is the same non-compliance as for SSD 6464 Sch 5 Cond 7	Low	
Coal Lease	Coal Lease (CL) 219		
Cond 21	Section 240 notice received from the Resources Regulator during the IEA period. This is the same non-compliance as for SSD 6464 Sch 3 Cond 57.	Medium	

7 AUDIT RECOMMENDATIONS

Table 8 includes a consolidated list of recommendations relating to non-compliances identified during this IEA (as shown in **Table 7**). Outstanding actions for non-compliances from the 2017 IEA are discussed in **Section 4**.

Table 8 also includes recommendations that are related to continuous improvement.

Ref	Recommendation		
NON-COMPLIANC	NON-COMPLIANCE RECOMMENDATIONS		
Previous IEA			
Table 6	No outstanding recommendations from previous IEA.		
SSD 6464			
Sch 2 Cond 2(b)	Work with relevant regulators to resolve non compliances in this table.		
Sch 2 Cond 9	Follow up with DPIE to seek surrender notice.		
Sch 3 Cond 8	Implement continuous improvement practices with the aim to avoid any blast exceedances.		
Sch 3 Cond 14(a)	Implement continuous improvement practices with the aim to avoid dust blast events.		
Sch 3 Cond 26	Implement continuous improvement practices with the aim to avoid any water management incidents and implement improvements.		
Sch 3 Cond 28	At next modification consider to request amendment to condition to facilitate extension to time by adding "or with the agreement of the Secretary" after "approval" consistent with other contemporary approvals.		
Sch 3 Cond 30	Continue to progress long term security mechanism for ecology offset areas with relevant regulators.		

Table 8 IEA Recommendations

Ref	Recommendation		
Sch 3 Cond 34	Follow up with OEH to confirm that Integrated Management Plan for the Warkworth Sands Woodland EEC is to their satisfaction.		
Sch 3 Cond 43(c)	Access to the sand bodies with HVO should be resolved. If access cannot be granted, discussions should occur with relevant regulators and modify the ACHMP to relocate the Research Program requirement. The Research Program on MTW should be progressed.		
Sch 3 Cond 51b	Continue to report coal transport amounts in Section 4.3 of the Annual Review.		
Sch 3 Cond 55(c)	Waste minimisation and management measures should be described in future ARs.		
Sch 3 Cond 57	Complete undertaking actions described in Section 240 notice issued by the Resource Regulator. Actions are being processed as described in Appendix E.		
Sch 5 Cond 5(a)	Records should be kept that review undertaken after each AR (could be included in AR), incident report (could be included in report) and audit to fulfil this condition in future.		
Sch 5 Cond 7	Ensure future incidents are reported to DPIE within 7 days.		
SSD 6465			
Sch 2 Cond 2(b)	Work with relevant regulators to resolve non compliances in this table.		
Sch 3 Cond 6	Implement continuous improvement practices with the aim to avoid blasting events that generate unacceptable dust.		
Sch 3 Cond 27	Progress establishment of the Loders Creek Heritage Conservation Area Agreement with relevant regulators.		
Environment Prot	ection Licence (EPL) 1376		
L.5	As per recommendation for Sch 3 Cond 8 of SSD 6464.		
O1.1	As per recommendation for Sch 3 Cond 26 of SSD 6464.		
M2.1 M2.2	Ensure non continuous data capture for quarterly effluent monitoring samples is collected.		
M4.1	Implement continuous improvement practices with the aim to capture all met station data.		
G2 and E1	Implement continuous improvement practices with the aim to meet water quality monitoring criteria.		
EPL 1976	EPL 1976		
L.5	As per recommendation for SSD6465 Sch 3 Cond 6.		
M2	Implement continuous improvement practices with the aim to capture all monitoring data.		
M4	Implement continuous improvement practices with the aim to capture all met station data.		
Consolidated Coa	I Lease (CCL) 753		

Ref	Recommendation
Cond 56	Seek approval from District Inspector of Coal Mines for any new dams required to be constructed within this lease prior to construction. This may form part of a revised MOP.
Mining Lease (ML) 1751
Cond 5	As per recommendation for Sch 5 Cond 7 of SSD 6464.
Coal Lease (CL) 2	19
Cond 21	As per recommendation for Sch 3 Cond 57 of SSD 6464.
CONTINUAL IMPR	ROVEMENT RECOMMENDATIONS
Previous IEA	
Table 6	As per recommendation for Sch 5 Cond 1 of SSD 6464.
SSD 6464	
Sch 2 Cond 14	Recommend that where a management plan is updated and WML can justify that consultation with all parties under another condition is not required, ensure that written approval from DPIE is granted.
Sch 3 Cond 6(c)	Due to the higher percentage of invalid results in the sample of monthly attended noise results reviewed, although trending downwards, it is recommended that % of valid results be regularly reviewed to ensure that a high percentage of invalid readings are not being received.
Sch 3 Cond 6(d)	Recommend toolbox talk (or similar) distributed to relevant personnel in relation to reminder for need for sound suppression on mobile fleet.
	Undertake a regular comparison of real time monitoring as part of regular, external noise monitoring to validate real time monitoring results and discuss in Annual Review which is the intent of this condition.
Sch 3 Cond 7(e)	Recommend showing maximum monitored result from the three quarterly readings (LAeq 15 min) in all tables in section 6.5 of the Annual Reviews, instead of an average of the three.
	The link in the AR should also be updated to facilitate ease of finding detailed noise results to https://insite.yancoal.com.au/document-library/monthly-reporting-mtw.
Sch 3 Cond 13(a)	If modification to SSD 6464 is sought, recommend consideration to apply to modify condition to within 2km consistent with condition 12.
Sch 3 Cond 16(c)	Add statement in Road Closure Management Plan at next update that occupancy licences are updated annually.
Sch 3 Cond 17	The Warkworth TEOM (OEH operated) is located adjacent three receptors (77, 102 and 264). As such, we recommend that the monitor be moved outside the predicted exceedance zone, or only utilised for internal monitoring and another monitor be utilised as representative for the closest receivers to the north which are not predicted to be impacted above criteria.
	If modification to SSD 6464 is sought, amend (a) "total impact" criteria of 50 ug/m2 to (b) "incremental impact" for PM10 24 hr consistent with other NSW coal mine consent conditions

Ref	Recommendation
Sch 3 Cond 18(a)	Tenant and landowner or mine owned land be re-notified of any health risks associated with such exceedances in accordance with the notification requirements under schedule 4 of this consent; at least 5 yearly (i.e. 2020).
Sch 3 Cond 18(c)	MTW's TEOM's are located in positions that are representative of privately owned properties. The TEOM results should be utilised to calculate results for the closest tenant to be available should a regulator, tenant or landholder request this data.
Sch 3 Cond 19(c)	Ensure equipment downtime logging includes all environmental alerts.
Sch 3 Cond 19(d)	Process to co-ordinate the air quality management on site with the air quality management at nearby mines (including the Mt Thorley, Bulga, Wambo and Hunter Valley Operations mines) to minimise any cumulative air quality impacts is formalised and included in next revision to AQMP as per condition Sch 3 Cond 20f below.
Sch 3 Cond 19(d)	Document protocols to minimise the cumulative air quality with neighbouring mines within the AQMP
Sch 3 Cond 22	Annual Review should state for each category what the Warkworth EIS water take prediction was, then the annual calculated impact from the project and confirmation of water licences held for that volume, where required. The water balance recommended at condition 27 should be updated cognisant of actual data.
Sch 3 Cond 27(b)(i)	Site water balance update commenced in April 2020, this should be completed and validated with onsite results in the next IEA period.
Sch 3 Cond 27(b)(ii)	Progress the SLR recommendations in the annual Stream Health and Channel Stability report.
	The recommendations in the 2019 Annual Groundwater Review conducted by SLR Consulting should be progressed:
	 MTW changed its sampling methodology during the 2019 reporting period following recommendations in the 2018 review. It is recommended that a review of the trigger be undertaken in light of the revised sampling methodology.
	 Further investigation into the ground conditions, bore construction and loggers at PZ7S and PZ7D is recommended.
Sch 3 Cond 27(b)(iii)	 Grab samples have been taken for monitoring bores WOH1239A, WOH2141A, WOH2153A, WOH1254A, WOH2155A, WOH2156A, WD622P, MBW02 and MBW03 within the network. This approach is not in line with industry standards and may not provide a representative water quality sample. The justification for this methodology should be reviewed to determine if more suitable methods (i.e. full purge or low flow) can be applied. A review into the requirement of these bores for the collection of water quality data for the WMP should be undertaken. If it is found that the continued collection of water quality data is required from a bore and suitable sampling methods cannot be adopted, then bore rectification works should be considered.
	 A review of the construction details and lithological logs for each bore should be undertaken to confirm that each bore is targeting the Blakefield Seam." At the next Annual Groundwater Review, bore GW98MTCL2 is reviewed and discussed
	in the AR.

Ref	Recommendation
Sch 3 Cond 28	Adding a table to Section 4 of the Biodiversity MP summarising the specific ecosystem/species credit obligations and where they are being met across each offset property to confirm all credit obligations are being met by the offset package.
	At next modification, to ensure compliance, consider seeking to amend the mechanism as NSW Biodiversity Offsets Policy for Major Projects no longer applies (in this and subsequent relevant conditions).
Sch 3 Cond 32	Collect attributes as part of monitoring include additional measures such as stem classes and groundcovers. Given data is available, suggest adding some of these to the performance criteria or provide discussion on using data to aid in adaptive mgt e.g. stem class count threshold to aid in determining whether future thinning actions are required to increase vegetation in groundcover.
Sch 3 Cond 35	Follow up Saving Our Species contribution with OEH by end July 2020, to seek evidence that contribution received in Saving Our Species program.
	Implement the monitoring reports recommendations for the restoration of WSW and generally the Biodiversity Offset Area (BOA)s including:
	Habitat restoration monitoring for the southern and northern BOAs (Niche 2018).
	 A more finely detailed assessment of management zones (Warkworth Sands Grassland (Management Zones 2 and 4) be undertaken in order to target management works appropriately;
	Direct seeding of grassland areas may be required; and
Sch 3 Cond 36(e)	 An assessment of the canopy recruitment at each transition site should be undertaken to determine if further planting or seeding is required.
50(8)	Vegetation and habitat monitoring for the Goulburn and Condon View BOAs (Niche 2016 and 2018).
	 Management intervention involving increased weed management should be considered to prevent weed incursions impacting on vegetation; and
	 F\or intensive management including intensive weed would be needed to assist in regeneration.
	Provide information relating to salinity in Biodiversity Management Plan or link to Plan where this is addressed.
Sch 3 Cond 39	Progress and complete conservation agreement relating to Wollombi Brook Aboriginal Cultural Heritage Conservation Area prior to entering the area beyond the "Proposed Initial Mining Area" west of Lot 1/2 DP 124545.
Sch 3 Cond 42	No reports were available for the first and second salvages (defined in Table A of Appendix E) were available at the time of this IEA. Recommend these are finalised asap and submitted to BCD to update AHIMS Register.
Sch 3 Cond 43(a)	In future version of AHMP, evidence of consultation with OEH and/or approval not to consult should be included.

Ref	Recommendation	
	Original GDP forms and spreadsheet are updated following field inspection by Environmental team to confirm that all GDPs actions are completed and signed off.	
Sch 3 Cond 43(b)	 A requirement of the AHMP is for the long-term management of Aboriginal Objects. The objects are in storage at HVO. A new care agreement has been approved with OEH, 26 April 2019, and communicated to the Registered Aboriginal Parties in October 2019, however the objects are yet to be relocated. Recommend this is progressed. 	
	Add labels for the RAAF Base Bulga, Great Northern Road, the Brickhouse and Springwood Homestead to figures in the HHMP at next review.	
Sch 3 Cond 46(d)	 Action recommendations from 'Archaeological Investigations of the Former RAAF Base Bulga' report dated March 2018 and report on in Annual Review. 	
	• Action recommendations from ' <i>Mount Thorley Warkworth Historic Heritage</i> <i>Management Plan 2019 Compliance Audit Inspection</i> ' in the next period and report on in Annual Review.	
Sch 3 Cond 52(a)	Amend internal Procedures and CRO Work Instruction to refer to revised ' <i>Lighting and Management Leaders document</i> ' and training rolled out to relevant personnel.	
Sch 3 Cond 52(b)	Additional plantings designed and undertaken to reduce view at the third crossing into Mt Thorley.	
	Update rehabilitation procedures to include requirements of biosolids guidelines. Recommend fly ash and other waste conditions from EPL are also included.	
Sch 3 Cond 56	As per Appendix F , the current weed management controls on site is generally acceptable and in accordance with key guidelines. However, successfully management and tracking of improvement in these areas against performance and long term completion criteria may require more intensive control actions. Potential options for investigation may include:	
	 Additional trials areas and analysis of spoil compost Vs no compost VS topsoils in weed cover and density; 	
Sch 3 Cond	The TARP is shown in Table 44 of the MOP, and does not clearly delineate between tier one and tier two trigger values, recommend this is amended to clarify.	
58(d)	Within the MOP, it is also unclear how the rehabilitation of the site is integrated with the implementation of the biodiversity offset strategy, the next amendment should clarify this.	
Sch 3 Cond 58(e)	Update topsoil inventory record to include topsoil establishment date, volume of topsoil and maintenance activities (i.e. soil amelioration, weed control etc.)	
Sch 3 Cond 58(g)	Although the MOP is approved, no relevant level of mine closure strategy is included. Recommend this is undertaken and included at next Amendment.	
Sch 4 Cond 2(a)	Tenants are advised of the potential health and amenity impacts associated with living on the land, and provided a copy of the NSW Health fact sheet regularly (e.g. five yearly).	

Ref	Recommendation
Sch 5 Cond 1	As proposed, prepare a risk based environmental training program focusing on high priority areas. Program should be completed regularly as toolbox talks (or other preferred methods) and training recorded.
Sch 5 Cond 9(d)	 Northern Biodiversity Area The current weed management controls on site is generally acceptable and in accordance with key guidelines. However, successfully management and tracking of improvement in these areas against performance and long term completion criteria may require more intensive control actions. Potential options for investigation may include: A digitised register of application area linked to proposed return frequency prior to consecutive seed set may further assist in medium to long term planning of weed control on site; Trials of dedicated repeat control Vs non control to determine effort reward
	 improvements; and Trail areas of scalping, burning and or supplementary native seeding in BOAs with significant pasture and understorey weed infestations. To ensure year 15 performance targets of 75% survival and minimum number of tube stock are met, increased number of plantings are proposed. These additional plantings should reflect the survival rates for species diversity across each of the different structural layers of the WSW.
EPL 1376	
P1.3	Update Water and Land Table as follows: Location Description for Discharge to pipe (EPA Identification No. 24), is required by Special Condition E2, not E3. Include mine name where discharge of mine water will occur to.
O4	Inspection / maintenance forms required under this condition be updated to specifically refer to ponding (O4.3).
EPL 1976	
U1.1	Recommend to remove completed condition if EPL varied.

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for HANSEN BAILEY

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Theresa Folpp Environmental Scientist

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Dianne Munro Principal

APPENDIX A Regulatory Correspondence



Gary Mulhearn Environment and Community Manager Mount Thorley Warkworth Yancoal Australia Ltd PO Box 267 Singleton NSW 2330 Contact: Ann Hagerthy Phone: 02 6575 3407 Email: ann.hagerthy@planning.nsw.gov.au compliance@planning.nsw.gov.au Our ref: SSD 6464, SSD 6465

Email: Gary.Mulhearn@yancoal.com.au

Dear Mr Mulhearn

MT THORLEY WARKWORTH COMPLEX (SSD 6464 AND SSD 6465) – 2020 INDEPENDENT ENVIRONMENTAL AUDIT

Reference is made to correspondence from Yancoal Mount Thorley Warkworth (MTW) submitted to the Department of Planning, Industry and Environment (the Department) on 19 February 2020 seeking endorsement of the proposed audit team for the upcoming Independent Environmental Audit (IEA) required by Schedule 5, Conditions 9 and 10 of development consents SSD 6464 and SSD 6465 (the consents) for the Mount Thorley Warkworth mine complex (the site).

The Secretary has considered MTW's request and endorses the following audit team from Hansen Bailey for the 2020 IEA:

- Ms Dianne Munro Lead auditor (including a review of blast and water management);
- Ms Theresa Folpp Assistant auditor; and
- Mr Alex Cockerill Ecological specialist.

The IEA is to be conducted in accordance with the conditions of the consents, and the Department's *Independent Audit Guideline* (October 2015). Further, the Secretary requests that in undertaking the IEA, the Auditor:

• Only use the compliance status descriptors "compliant", "non-compliant" or "not triggered". The terms "partial compliance", "partial non-compliance", "not verified" or other similar terms are not to be used.

The IEA period shall be from 5 May 2017 to the IEA audit inspection date, which shall coincide with the end of the audit period, and be completed on or around 1 May 2020 and no later than 4 May 2020, unless otherwise agreed by the Secretary.

The IEA report, together with responses to any recommendations (RAR) contained in the IEA report, should be submitted to the NSW Government's Major Project Website (<u>https://www.planningportal.nsw.gov.au/major-projects</u>) by **15 June 2020**.

Should you need to discuss the matter, please contact Ann Hagerthy, Senior Compliance Officer, as per the details provided above.

Yours sincerely

Alatters 24/2/2020

Heidi Watters Team Leader Northern Compliance, Planning & Assessments

From:Dianne MunroSent:Friday, 24 April 2020 4:57 PMTo:Theresa FolppSubject:FW: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

From: Ann Hagerthy <Ann.Hagerthy@planning.nsw.gov.au>
Sent: Friday, 24 April 2020 4:53 PM
To: Dianne Munro <DMunro@hansenbailey.com.au>
Subject: RE: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Hi Dianne,

No, nothing additional.

Thanks,

Ann Hagerthy Senior Compliance Officer

(Mon-Thu) Planning & Assessment - Compliance | Department of Planning, Industry and Environment T 02 6575 3407 | M 0428 976 540| E ann.hagerthy@planning.nsw.gov.au PO Box 3145 | Singleton NSW 2330

Please direct all email correspondence to compliance@planning.nsw.gov.au

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.

From: Dianne Munro <<u>DMunro@hansenbailey.com.au</u>>
Sent: Friday, 24 April 2020 8:23 AM
To: Ann Hagerthy <<u>Ann.Hagerthy@planning.nsw.gov.au</u>>
Subject: RE: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Good morning Ann,

Just a follow-up on our email below.

We are heading out to site on Monday. Please let us know if you have any instructions.



AREQ0008022

Ms Dianne Munro Hansen Bailey 6/127-129 John Street Singleton NSW 2330 By email: dmunro@hansenbailey.com.au

Dear Ms Munro

Subject: Mount Thorley Warkworth Mine

Thank you for your email dated 23 April 2020 requesting consultation on the independent audit to be undertaken of the Mount Thorley Warkworth Mine.

The Mount Thorley Warkworth Mine is covered by the titles listed below.

- CCL753 ML1590
- CL219 ML1751
- ML1412 ML1752

The Resources Regulator requires that the following issues be addressed in independent environmental audits undertaken in accordance with a planning consent condition.

- Review relevant mining leases and exploration licences as agreed with Resources Regulator;
- Undertake an assessment of compliance against the conditions of title related to environmental management;
- Verify that there is a current Mining Operations Plan (MOP) in place and it has been approved by the Regulator – review compliance against any conditions of approval of the MOP;
- Undertake a critical review of the MOP, including an assessment of its compatibility with the description of operations contained in the planning approval. In particular:
 - Review the rehabilitation strategy as outlined in the MOP to determine if it is consistent with the Project Approval in terms of progressive rehabilitation schedule; and proposed final land use(s);

- Review the rehabilitation objectives and completion criteria as outlined in the MOP to determine if they have been developed in accordance with the proposed final land use(s) as outlined in the Project Approval;
- Review the development and implementation of any rehabilitation monitoring programs to assess performance against the nominated objectives and completion criteria – verified by reviewing monitoring reports and rehabilitation inspection records;
- Determine if a rehabilitation care and maintenance program has been developed and implemented based on the outcomes of monitoring program – verified by reviewing Annual Rehabilitation Programs or similar documentation;
- Confirm that mining operations are being conducted in accordance with the approved MOP (production, mining sequence etc.), including within the designated MOP approval boundary – to be verified by site plans and site inspection;
- Confirm that rehabilitation progress is consistent with the approved MOP as verified by site plans and a site inspection. This should include an evaluation against rehabilitation targets and whether the final landform is being developed in accordance with conceptual final landform in the Project Approval; and
- Based on a visual inspection, determine if there are any rehabilitation areas that appear to have failed or that have incurred an issue that may result in a delay in achieving the successful rehabilitation outcomes.

In addition to the above, the audit should note observations where rehabilitation procedures, practices and outcomes represent best industry practice.

Yours sincerely

Jenny Ehmsen

Principal Compliance Auditor

30 April 2020



DOC20/274517, EF13/3817 and EF16/906

Hansen Bailey Email: dmunro@hansenbailey.com.au Attention: Ms Dianne Munro

6 April 2020

Dear Ms Munro

Mount Thorley Warkworth Environmental Audit

I refer to your email dated 6 April 2020 regarding input to the Independent Environmental Audit of Mount Thorley Warkworth ("MTW").

MTW hold three environment protection licences ("EPL") under the Protection of the Environment Operations Act 1997 ("the Act) which are:

- EPL 24 Mount Thorley Coal Loading Ltd;
- EPL 1376 Warkworth Mining Ltd; and
- EPL 1976 Mount Thorley Operations Pty Ltd.

The Environment Protection Authority ("EPA") encourages independent audit towards proponents improving their environmental performance. We do not provide input as our role is to set environmental objectives for environmental/conservation management and manage outcomes.

I refer you to the EPA's public register http://www.epa.nsw.gov.au/prpoeo/index.htm where you can search for regulatory activity undertaken by the EPA for EPLs 24, 1376 and 1976 for MTW.

If you require any further information regarding this matter, please me on (02) 4908 6833.

Yours sincerely

NATASHA RYAN Operations Officer – Regional North Environment Protection Authority

Phone131 555Phone02 4908 6800

117 Bull Street Newcastle West NSW 2302 Australia info@epa.nsw.gov.au www.epa.nsw.gov.au

From:Dianne MunroSent:Friday, 24 April 2020 9:52 AMTo:Theresa FolppSubject:FW: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

From: Ellie Randall <ellie.randall@dpi.nsw.gov.au>
Sent: Friday, 24 April 2020 9:50 AM
To: Dianne Munro <DMunro@hansenbailey.com.au>
Cc: Alison Collaros <alison.collaros@nrar.nsw.gov.au>
Subject: Re: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Hi Dianne,

Can you please include a review of the following:

- 1. Any approved and/or in draft Groundwater/Water Management Plans;
- 2. Relevant site monitoring and incident reporting;
- 3. Review of Water Access Licences, associated conditions and current take of water;
- 4. All Conditions of Approval;

Thank you.

Kind regards,

Ellie Randall | Water Regulation Officer

Natural Resources Access Regulator | Water Regulation (East)

Level 0 | 84 Crown Street | Wollongong NSW 2500

PO Box 53 Wollongong NSW 2520

T: +61 2 4275 9308 | F: +61 2 4224 9740

E: ellie.randall@nrar.nsw.gov.au

W: www.industry.nsw.gov.au



From: Alison Collaros <alison.collaros@nrar.nsw.gov.au</pre>
Sent: Friday, 24 April 2020 8:39 AM
To: Ellie Randall <<u>ellie.randall@dpi.nsw.gov.au</u>
Subject: Fw: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

From:	Dianne Munro
Sent:	Tuesday, 7 April 2020 2:08 PM
То:	Theresa Folpp
Subject:	FW: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

From: Steven Cox <Steven.Cox@environment.nsw.gov.au>
Sent: Tuesday, 7 April 2020 1:45 PM
To: Dianne Munro <DMunro@hansenbailey.com.au>
Subject: RE: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Hi Dianne,

Thank you for the opportunity to provide input into the audit process, however in this case we don't have any specific concerns to raise for the audit.

Good luck with the audit.

Also, please send any future requests for advice to <u>rog.hcc@environment.nsw.gov.au</u> rather than directly to individual team members or me. Such emails will be saved in our document management system and will be forwarded to me within 24 hrs. If I'm on leave they will go to the Acting Team Leader (so they can't be missed or lost if someone is away).

Regards Steven

Steven Cox Senior Team Leader Planning, Hunter Central Coast Branch

Biodiversity and Conservation Division | Department of Planning, Industry and Environment T 02 4927 3140 | M 0472 800 088 | E steven.cox@environment.nsw.gov.au Level 4/26, Honeysuckle Drive Newcastle NSW 2309 Locked Bag 1002, Dangar NSW 2309 www.dpie.nsw.gov.au

Currently working from home and can be contacted on both above phone numbers.

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.

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.

From: Dianne Munro <<u>DMunro@hansenbailey.com.au</u>> Sent: Monday, 6 April 2020 11:08 AM To: Steven Cox <<u>Steven.Cox@environment.nsw.gov.au</u>>

From:	Dianne Munro
Sent:	Monday, 20 April 2020 7:30 AM
То:	Theresa Folpp
Subject:	FW: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation
Attachments:	Heritage Council comments - EIS Warkworth Extension Project - SSD 6464 - July 2014.pdf; Heritage CouncilDivision - Comment on EIS - Mount (Mt) Thorley Continuation Project - July 2014.pdf; OEH response - Review of Historic Heritage Management Plan Mt Thorley Warkworth.pdf

From: Gary Hinder <Gary.Hinder@environment.nsw.gov.au>
Sent: Friday, 17 April 2020 6:25 PM
To: Dianne Munro <DMunro@hansenbailey.com.au>
Cc: Adrian Hohenzollern <Adrian.Hohenzollern@environment.nsw.gov.au>
Subject: RE: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Dear Ms Munro,

The Heritage Council of NSW provided DPIE with comments on the Mount Thorley Continuation Project (SSD 6465) on 14 July 2014. The Heritage Council agreed with the statement on page 246 of the supporting EIS that read 'as the proposal is not anticipated to impact any registered, or non-registered, historic heritage items or places... no mitigation measures specific to the proposal are warranted'. It was considered appropriate that implementing a 'Chance Finds Procedure' (currently referred to as the Unexpected Finds Protocol) in the unlikely event that sites of potential historic heritage value are encountered or uncovered unexpectedly during operation. I have attached a copy of that correspondence for your information.

The Heritage Council was requested to provide comment on the Historic Heritage Management Plan (HHMP) for the project in accordance with condition 46 of the consent. The review of the HHMP by the Heritage Division indicated that it provided appropriate mitigation measures for the historic items identified within the already Approved Project. I have attached a copy of that correspondence for you also.

The Heritage Council provided comment on the exhibition of the EIS for the Warkworth Extension project (SSD 6464) on 24 July 2014. I won't paraphrase those comments here, but I have attached a copy of that correspondence also.

From our records I cannot see any further recommendations made to DPIE in relation to these projects.

As part of the audit, I would consider it appropriate to focus on whether the proponent complied with mitigation measures relating to heritage issues discussed in the documentation referenced in the attached correspondence, and also ensure that if any historic heritage was uncovered during the operation of the mines, the unexpected finds protocol for historical archaeology was complied with in accordance with s146 of the Heritage Act 1977 (notification of discovery of relics).

Please do not hesitate to contact me should you require any clarification.

Regards

Gary Hinder

From: Dianne Munro <<u>DMunro@hansenbailey.com.au</u>> Sent: Monday, 6 April 2020 11:10 AM



3 Marist Place Parramatta NSW 2150 Telephone: 61 2 9873 8500 Facsimile: 61 2 9873 8599

Locked Bag 5020 Parramatta NSW 2124 DX 8225 PARRAMATTA heritage@heritage.nsw.gov.au www.heritage.nsw.gov.au

 Contact:
 Katrina Stankowski

 Phone:
 (02) 9873 8569

 Fax:
 (02) 9873 8550

 Email:
 Katrina.Stankowski@environment.nsw.gov.au

 File No:
 EF14/9876

 Job ID:
 DOC14/18618

 Your Ref:SSD6464

Ms Elle Donnelley Planner- Mining Projects Department of Planning & Environment GPO Box 39 SYDNEY NSW 2001

Dear Ms Donnelley

RE: Heritage Council comments on Environmental Impact Statement for Warkworth Continuation Project (SSD 6464).

I refer to your email of the 25th of June inviting the Heritage Council to provide any comments it may have on the Environmental Impact Statement (EIS) by EMGA Mitchell McLennan (dated 15th June 2014) for the Warkworth Continuation project. It is noted that hard copies of the EIS and its Appendices were forward to the Heritage Council under separate cover.

It is noted that the Heritage Council has provided comments on this proposal (the Warkworth Extension Project) on several occasions when it was under a previous approval pathway.

The current EMGA Mitchell McLennan EIS identifies 50 historic features within the surrounding area of the proposal. However within the proposed 2014 disturbance area there are four non-registered historic features, two with local significance (P1 Huts) and two which have been assessed as being of State significance (former RAAF Base Bulga Complex and a section of the Great North Road- Wallaby Scrub Road).

The proposed works will impact these four items. In addition, there are a number of other locally significant items surrounding the proposal which may be indirectly impacted via exploration blasting and vibration from blasting such as former Springwood Homestead and the Brick Farm House.

Accordingly, after a thorough reading of the EIS, the following comments are provided to the Department of Planning & Environment:

- 1. The Proposed Warkworth Mine Development Consent Boundary appears to abut the State Heritage Listed Wambo Homestead in Figures 19.1 and 19.2 in the EIS. The impacts of this, if any, have not been considered within the EIS and this must be rectified.
- 2. Table 19.2 in the EIS states that the impacts to the two state significant items will be a 'partial direct impact (mining)', however Section 19.3 states that the heritage impacts on these two items 'are likely to be minor'. The Heritage Council is unable

to understand how impacts to these two items will be minor when they are going to be directly mined. Furthermore, given that other sections of the Great North Road have also been impacted by mining in this locality, it would appear that the cumulative impacts on the expansion of the Warkworth Mine over Wallaby Scrub Road would be major and this should be discussed in the EIS.

- 3. Given the cumulative impact which mining has had on sections of the Great North Road alignment in this area, and the significance of the road alignment, the Heritage Council considers that the Warkworth Continuation Project should be redesigned around Wallaby Scrub Road so that the road alignment can be left in situ.
- 4. The mitigation measures proposed in Section 19.4 of the EIS to manage the impacts on this heritage range from conservation management plans (CMPs) for specific heritage items, archaeological investigations, salvage of moveable heritage items, a chance find procedure, heritage interpretation, community participation and heritage conservation funds.
 - These mitigation measures are not considered inappropriate, however, they lack specific detail such as who will be undertaking the archaeological investigations and will they appropriately qualified and experienced? If the Singleton Local Historical Society and Museum do not want the moveable heritage items, where will they go? What does the chance finds procedure comprise? How much funding will the two Conservation Funds have?
 - This detail should be provided so that a fuller understanding of the mitigation measures can be obtained with meaningful comments then made, prior to any project approval.
 - It is also considered that any heritage interpretation should be undertaken by suitably qualified individuals with specific experience in the heritage interpretation field to ensure that the interpretation is fully able to help a variety of users understand the significance of the heritage in the area which the proposed mine will destroy.
- 5. The proposed archaeologist undertaking any historical archaeological excavations they should be able to meet the Heritage Council's Excavation Directors Criteria for excavation of state significant sites.
- 6. A review of the Conservation Management Plans supplied as Annex B and C of Appendix N (Historic heritage Study by ERM) show that they have not been updated to reflect the current planning pathway that the project now finds itself in as they reference Conditions of Approval issued in 2012.

The CMPs do not appear to comply with Heritage Council guidelines in terms of their methodology and do not reference relevant pieces of legislation such as the 'relics' provisions of the Heritage Act.

The management policies in both CMPs are predicated on the fact that these items will be destroyed and do not contain relevant long term polices such as interpretation which might potentially offset this destruction.

Overall, the two CMPs presented as Annex B and C are not considered to be adequate and should be extensively revised to ensure that they are useful and relevant management documents.

7. There are discrepancies between the mitigation measures outlined in Section 19.4 of the EIS and the measures outlined in Table 22.1. Section 19.4 states that CMPs have been undertaken for the Great North Road Complex, the former RAAF Base Bulga Complex and the Brick Farm House. Table 22.1 states that it will adopt the measures of the existing CMPs for the GNR and the RAAF base, but does not

mention the CMP for the Brick Farm House and nor is this CMP present as an Annex to Appendix N as the other two CMPs are. This should be rectified.

- 8. A review of Appendix N and its Annexures (Historic Heritage Study by ERM) to the EIS also shows a number of issues such as incorrect terminology.
 - The use of NSW Heritage Office is incorrect. This Office has not existed since 2008. The correct term is the Heritage Division of the Office of Environment & Heritage. This should be fixed in all instances.
 - The ERM report also leaves out pertinent detail regarding the 'relics' provisions of the Heritage Act in Chapter 2 (Legislation)
 - Despite proposing a number of archaeological programmes as mitigation measures, it is unclear if a historical archaeologist has been consulted regarding the viability of these mitigation measures.
- 9. The Heritage Division is pleased with the increased area set aside for the proposed Wollombi Brook Cultural Heritage Conservation Area which includes the Bulga Bora Ground. The proponents statement of commitments outlined in Section 18.4.1 of the EIS are considered very positive and will ensure that the site is protected and accessible to the Aboriginal community in the long term

The Heritage Division particularly applauds the commitment to continue to engage with Wambo Coal regarding a collaborative management protocol for the area and would be happy to provide comment on this, once the protocol is finalised.

If you have any questions regarding the above advice, please feel free to contact Katrina Stankowski at Katrina.Stankowski@environment.nsw.gov.au.

Yours sincerely

f. Jurche

24/07/2014

Dr Siobhan Lavelle, OAM A/Manager, Conservation Heritage Division Office of Environment & Heritage

As Delegate of the NSW Heritage Council



File No: EF14/22150 Ref No: DOC17/334973-1

Mr Joel Deacon Specialist Cultural Heritage Rio Tinto PO Box 315 SINGLETON NSW 2330

Sent by e-mail to: joel.deacon@riotinto.com

Dear Mr Deacon

RE: SSD-6464/6465 – Coal & Allied - Mount Thorley Warkworth Project Approvals – Historic Heritage Management Plan (SSD 6464, Schedule 3, Condition 46)

Reference is made to your letter dated 19 June 2017 which attached a draft of the Mount Thorley Warkworth Historic Heritage Management Plan Prepared by Rio Tinto Coal Australia, June 2017, for the review and comment by the Heritage Division. It is understood that a Historic Heritage Management Plan (HHMP) is required under Condition 46 of the Approval and the plan is prepared in consultation with the Heritage Division, Council and relevant historical and community heritage advisory groups.

The HHMP notes that Comprehensive Historic Heritage impact assessments were undertaken to inform the Warkworth Continuation and Mount Thorley Operations 2014 Environmental Impact Statements. The purpose of the HHMP is to set out the principles, processes and measures through which Historic Heritage will be managed at Mount Thorley Warkworth (MTW) with respect to all lands that are subject to the consent conditions of the Warkworth Continuation SSD-6464 and Mount Thorley Operations SSD-6465.

The Historic Heritage Management Plan is supported by a detailed Inventory that documents the identification number, location, attributes and specific management for each historic heritage site subject to the HHMP. The Inventory works as a 'live' database recording each site as management actions are implemented (such as salvage mitigation) and it is updated over time including inclusion of chance finds.

Review of the HHMP indicates it contains a comprehensive range of measures for site management. These include measures to control Ground Disturbance, Relocation & Management of Historical Objects, Photographic Recording, Sub-Surface Investigations, Fencing and Barricading Historic Heritage Sites, Places and Areas, Signage for Historic Heritage, HHMP Compliance Inspections, Procedural Breaches and Incident Reporting and Minimisation of Blasting Impacts. The HHMP also identifies places within the approved project areas for which Conservation Management Plans will be prepared. These include a number of rural homesteads or complexes.

It is noted that some items such as the former RAAF Base at Bulga and the Wallaby Scrub Road are also subject to additional consent conditions and that Interpretation Plans for those items are not currently included in the HHMP. The HHMP has included methodologies for Further Survey, Archaeological Excavations and Conservation, for Wallaby Scrub Road, Well 2 and the Former RAAF Base Bulga Complex although mining impacts on the complex would be minor.

The HHMP identifies (page 46) that there is potential for the northern section of Wallaby Scrub Road to remain undisturbed by the mine extension. Where this occurs, a program of maintenance and conservation is to be implemented to ensure the future preservation of the Great North Road in this location. The Heritage Division strongly supports preservation and conservation of Wallaby Scrub Road where possible.

During review of the HHMP some errors were noted. These are as follows:

Page 11 – Definition of Historic Heritage. This definition is not given in the NSW Heritage Act, 1977. The Heritage Act, 1977 defines 'environmental heritage'.

Page 43 – reference to the Heritage Office Guidelines for Management of Human Skeletal Remains (2008) should be 1998, which is the date of the publication.

Review of the HHMP by the Heritage Division indicates that it provides appropriate mitigation measures for the historic items identified within the already Approved Project.

If you have any questions arising from this letter, please contact Siobhan Lavelle, Senior Team Leader, Archaeological Heritage at the Heritage Division, Office of Environment and Heritage on telephone (02) 9873 8546 or by e-mail: siobhan.lavelle@environment.nsw.gov.au.

Yours sincerely

Rajeev Maini Acting Manager, Conservation Heritage Division Office of Environment & Heritage 3 July 2017

 From:
 Dianne Munro

 Sent:
 Monday, 20 April 2020 7:30 AM

 To:
 Theresa Folpp

 Subject:
 FW: TfNSW Response - RE: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

From: Development hunter <Development.hunter@rms.nsw.gov.au>
Sent: Saturday, 18 April 2020 8:09 PM
To: Dianne Munro <DMunro@hansenbailey.com.au>
Subject: TfNSW Response - RE: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Hi Dianne,

Transport for NSW have no specific environmental areas we require focus on in the IEA.

Regards,

Land Use Assessment Hunter Regional and Outer Metropolitan **Transport for NSW**

T 02 4908 7688 | M 0428 260 461 Level 8, 266 King Street Newcastle NSW 2300



Use public transport... plan your trip at transportnsw.info

From: Dianne Munro [mailto:DMunro@hansenbailey.com.au]
Sent: Monday, 6 April 2020 11:14 AM
To: Development hunter <<u>Development.hunter@rms.nsw.gov.au</u>>
Cc: Theresa Folpp <<u>TFolpp@hansenbailey.com.au</u>>
Subject: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Attention: Jamie Toole

Good morning Jamie,

Hansen Bailey has been approved by the Department of Planning, Industry & Environment to conduct the 2020 Independent Environmental Audit (IEA) for Mount Thorley Warkworth in accordance with Schedule 5 Condition 9 of Development Consent SSD 6464 and SSD 6465 which states:

"Within 1 year of the commencement of development under this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Audit of the development. This audit must:

(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;

(b) include consultation with the relevant agencies;

(c) assess the environmental performance of the project and assess whether it is complying with the relevant requirements in this approval and any relevant EPL

or Mining Lease (including any assessment, plan or program required under these approvals); (d) include an assessment – undertaken by an independent expert whose appointment has been endorsed by OEH – of the progress towards implementation of the biodiversity offset strategy, in particular the regeneration of Warkworth Sands Woodland against the detailed performance and completion criteria under the biodiversity management plan (see condition 36 of schedule 3); (e) review the adequacy of strategies, plans or programs required under the abovementioned

approvals;

(f) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under the abovementioned approvals.

Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary."

In accordance with condition (9b), as part of consultation with key regulators, could you please provide any request you have in relation to any specific environmental areas you require any particular focus on as part of the IEA.

Douglas Fenton at Yancoal has kindly provided your email address to facilitate this email.

If you could respond by 17 April, it would be appreciated. Please do not hesitate to call to discuss.

Kind Regards, Dianne.

Dianne Munro Principal Environmental Scientist MEnvLaw BSc

HANSEN BAILEY Tel: 02 6575 2000 Mobile: 0428 772 566 Email: <u>dmunro@hansenbailey.com.au</u>



Before printing, please consider the environment

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From:	Dianne Munro
Sent:	Friday, 24 April 2020 10:53 AM
То:	Theresa Folpp
Subject:	FW: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

From: Mary-Anne Crawford <mcrawford@singleton.nsw.gov.au>
Sent: Friday, 24 April 2020 10:41 AM
To: Dianne Munro <DMunro@hansenbailey.com.au>; Mark Ihlein <mihlein@singleton.nsw.gov.au>
Subject: RE: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Hi Dianne

Thanks for touching base on this reminder. On quick review of the two approvals, council is required to be consulted on a number of different conditions, including:

- S94 contributions
- Community enhancement contribution
- Blast management, including planning and management within 500m of a council road
- Car parking (specific to Warkworth only)
- Coal haulage on public roads
- Bushfire management
- Rehabilitation management planning
- Visual screening (Mount Thorley only)

Council would like to see evidence that these matters have been satisfactorily addressed by the Applicant in the audit report, particularly the extent to which the Applicant has considered and adopted advice and/or recommendations from council.

FYI - the NSW Department of Planning use the Major Projects Planning Portal for post approval management actions for state significant development, particularly when seeking responses from agencies. This tool is really helpful to ensure that requests to council aren't directed to one individual, and we can track our response.

MAC

From: Dianne Munro <<u>DMunro@hansenbailey.com.au</u>>

Sent: Friday, 24 April 2020 8:27 AM

To: Mark Ihlein <<u>mihlein@singleton.nsw.gov.au</u>>

Cc: Mary-Anne Crawford <<u>mcrawford@singleton.nsw.gov.au</u>>

Subject: RE: Mount Thorley Warkworth Mine - Independent Environmental Audit Consultation

Good morning,

Just a follow-up on our email below.

We are heading out to site on Monday. Please let us know if you have any instructions.

Kind Regards, Dianne.

APPENDIX B Plates from Site Inspection



Plate 1 Warkworth North Pit in foreground, West Pit in background



Plate 2 Mount Thorley Loders Pit`



Plate 3 Mount Thorley CHPP and CHPP mid sized circuit



Plate 4 Hydrocarbon bunding and waste management at the Warkworth Mine workshop



Plate 5 Waste management bin near Warkworth workshop



Plate 6 Warkworth haul roads



Plate 7 ROM Hopper in use, sprays operating



Plate 8 Warkworth Watered haul roads



Plate 9 Operating mobile plant fitted with noise attenuation (front grill panel)



Plate 10 A second water pump installed at Dam46N in response to incident 30/3/19



Plate 11 Western sediment dams constructed in 2018



Plate 12 Newly constructed water management system south of Dam 9s



Plate 13 Creek stability improvement works at Dam 9s HRSTS discharge location



Plate 14 Protection of Aboriginal Heritage sites west of North Pit



Plate 15

Fencing and signage around Cultural Heritage sites associated with a tributary of Loders Creek at MTO



Plate 16 Putty Road tree screening, including newly planted vegetation



Plate 17 Putty Road third underpass constructed during the IEA period



Plate 18 Mature rehabilitation along the south side Putty Road



Plate 19 Areas of Geofluv and natural habitat construction on rehabilitation



Plate 20 Area of rehabilitation adjacent to the explosive's facility

APPENDIX C Site Itinerary



ENVIRONMENTAL CONSULTANTS

Mount Thorley Warkworth Department of Planning, Industry & Environment Independent Environmental Audit

ITINERARY

Site Component to be held from Monday, 27 April to Thursday, 30 April 2020

INVITEES

Jason McCallum		General Manager
Brendan Behringer		Operations Support & Projects (OS&P) Manager (Acting)
John Campbell		Technical Services Manager
Paul Davis (PD)		CHPP Manager
Craig Sheedy		CHPP Superintendent Production North
John Burgess		CHPP Superintendent Production South
David Bennett (DB)		Mine Manager
Damian Prance		Maintenance Manager
Martin Phillips (MP)		Maintenance Superintendent Support
Adam Rice		Health and Safety Manager
Thomas Holz (TH)		Tenements and Land Access Manager
Gary Mulhearn (GM)		Environment & Community Manager
Douglas Fenton (DF)		Environmental Advisor (Monitoring)
Olivia Lane (OL)		Environment and Community Coordinator
Wade Covey (WC)		Environment and Community Coordinator
Bill Baxter (BB)		Environmental Specialist Rehabilitation
Jessica Blair (JB)		Environmental Advisor (Land Management)
Dianne Munro (DM)	Hansen Bailey	Lead Auditor
Theresa Folpp (TF)	Hansen Bailey	Assistant Auditor
Alex Cockerill (AC)	WSP	Ecology Specialist Auditor

DAY 1 – Monday, 27 April

Time	Description	Location	Attendees
8 –	Opening Meeting	Teleconference	All
8:30am	 Introductions (GM) IEA scope and purpose (DM) Confidentiality Arrangements (DM) IEA process and timing (DM) Meeting Confirmation (All) 	(WW Boardroom for Auditor)	
8:30 -	MTW Presentation	WW	Auditors:
9am	Overview of current operations by site personnel	Boardroom	<i>(DM, TF),</i> GM, DF,

Time	Description	Location	Attendees
			OL, WC,
			BB, JB
9am –	Compliance Review	WW	Auditors:
12pm	Warkworth Continuation (SSD-6464)	Boardroom	(DM, TF),
	Individual Conditions		DF, OL
12 –	Lunch	WW	Auditors:
12:15pm	Lunch	Boardroom	(DM, TF),
12:15 –	Compliance Review (cont.)	WW	Auditors:
5pm	SSD-6464 Individual conditions (cont.)	Boardroom	(DM, TF),
	Supporting documents review (EIS)		DF, OL

DAY 2 – Tuesday, 28 April

Time	Description	Location	Attendees
8 – 8:15am	Day 2 Overview Meeting	WW MR1	Auditors:
	 Confirm arrangements for Day 2 		(DM, TF),
			DF, OL
8am – 3pm	Specialist Site Visit - Ecology	Field	Ecologist:
	EIS Conditions		<i>AC</i> , BB,
	 Management Plan / MOP Procedures 		JB
	 Field review 		
8:15am –	Compliance Review (cont.)	WW MR1	Auditors:
11.45pm	 Mt Thorley Continuation (SSD-6465) 		(DM, TF),
	Individual Conditions		DF, OL
11:50am –	Supporting documents review (EIS)	WW MR1	Auditors:
12pm	Lunch		(DM, TF),
12 –	Site Inspection	Field	Auditors:
3:30pm	Mining Areas		(DM, TF),
0.00pm	Main Infrastructure Areas		DF, DB (or
	Rehabilitation		delegate),
	 Noise, blast, visual and air quality management 		MP (or
	managementWater and tailings management		delegate),
	Onsite Ecological Offsets		WC, JB,
	Heritage		BB, OL
	Monitoring Key private paighbourg		,
3:30 – 3:45	Key private neighbours	WW MR1	Auditors:
p:m	Auditor Brief discussion with Specialist		(DM, TF,
. I			AC)
3:45 – 4:30		WW MR1	DM, TF,
pm	Compliance Review (cont.)		GM, DF,
	Actual, EA and MOP Comparison		BB, OL
4:45 – 5pm	Auditors Revision Day 2	WW MR1	DM, TF

Time	Description	Location	Attendees
8 – 8:15am	Day 3 Overview Meeting	WW MR1	DM, TF,
	 Confirm arrangements for Day 3 		GM, DF, OL
8:15am –	Compliance Review	WW MR1	DM, TF,
12pm	 Management Plan Commitments 		DF, OL, BB,
			JB, WC
12 –	Lunch	WW MR1	-
12:15pm			
12:15 –	CHPP Discussion	CHPP/ Field	<i>DM, TF,</i> DF,
1:15pm	Processing		PD (or
	Waste Management		delegate),
	 Water / Tailings Management Dust and Noise Management (Alarm and 		BB, OL,
	trigger responses)		
	Rehabilitation		
	Training and Communications		
	CHPP Site Inspection	WW MR1	DM, TF,
1:15 —	Compliance Review (cont.)		DF, OL, TH
4:30pm	 Mining Tenements EPLs 		(or delegate)
4:30 – 5pm	Auditors Revision Day 3	WW MR1	DM, TF
4.50 – 5pm	Auditors Nevision Day 5		

DAY 3 – Wednesday, 29 April

DAY 4 – Thursday, 30 April

Time	Description	Location	Attendees
8 –	Day 4 Overview Meeting	WW MR1	DM, TF,
8:15am	Confirm arrangements for Day 4		GM, DF, OL,
			WC, BB,
8:15 –	Mining/Technical Services Discussion	WW MR1	DM, TF,
10:00am	Processing		DF, OL,
	Waste Management		WC, BB, PD
	 Water and Tailings Management Dust and Noise Management (Alarm and 		(or
	trigger responses)		delegate),
	Rehabilitation		MP (or
	Training and Communications		delegate),
9:30am –	Outstanding Items	WW MR1	DM, TF,
1pm	Discussion of outstanding issues		GM, DF, OL
1 – 2pm	Closeout Preparation	WW MR1	DM, TF
(TBC)	• Lunch		
	 Auditors Revision and Preparation for Closeout Meeting 		
2 – 2:30	Close Out Meeting	Teleconference	All
pm (TBC	Overview of preliminary findings	(WW)	
Day 3)	Outstanding items or documents required	Boardroom for	
	Confirm Audit Completion Process	Auditors)	

APPENDIX D DPIE Certification Form

Independent Environmental Audit Submission Form			
Project			
Consent No.:	Development Consent SSD-6464 and SSD-6465		
Description of Project:	Mount Thorley Warkworth		
Project Address:	Putty Rd, Mt Thorley, NSW, 2330		
Proponent	Warkworth Mining Ltd and Mount Thorley Operations Pty Ltd		
Proponent Address:	PO Box 267, Singleton NSW, 2330		
Independent Audit			
Title of Audit:	Mount Thorley Warkworth Independent Environmental Audit		
Certificate	 I certify that I have prepared the contents of the attached independent audit and to the best of my knowledge: It is in accordance with relevant approval condition(s) I have acted professionally, accurately and in an unbiased manner in conducting the audit I am not related to any owner or operator of the project as a spouse, partner, parent, child, sibling, employer, employee, business partner, in sharing a common employer, or in a contractual arrangement outside the audit I do not have any pecuniary interest in the project, including where there is a reasonable likelihood or expectation of appreciable financial gain or loss to me or to a person to whom I am related Neither I nor my employer have provided consultancy services for the project that were subject to this audit 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 project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so. 		
Signature:	Allunois.		
Name:	Dianne Munro		
Address:	6/127-129 John Street, Singleton NSW 2330		
Email Address:	dmunro@hansenbailey.com.au		
Auditor Certification (Body, No. Grade):	Auditor for Environmental Management, EMS, Compliance and ISO14001:2015 Audit. Exemplar Global No. 107622		
Date:	17 July 2020		

APPENDIX E Compliance Tables

Coal Extraction

Coal Transport

Ref: 200717 MTW IEA Report Final

calendar year.

The Applicant Shall:

The Applicant shall:

(a)

(b)

8

(a)

(b)

			Table A
			vorth SSD 6464
Condition	Requirement	Status	Evidence
	Continuation Project (SSD-6464), November 2015 2 - ADMINISTRATIVE CONDITIONS		
	to Minimise Harm to the Environment		
1	In addition to meeting the specific performance criteria established under this consent, the Applicant	Complaint	No incidents resulted in material harm to the environment during the audit per
1	shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to	Complaint	
	the environment that may result from the construction, operation, or rehabilitation of the development.		
Terms of C			
2	The Applicant shall carry out the development:		
(a)	generally in accordance with the EIS; and	Compliant	 Within Warkworth, during the IEA period, mining activities advanced in a wess reached its final limit with regards to excavation and the area is currently bein Exploration drilling was conducted within the relevant mining leases: Consolid of mining and within the pit to gain further information on the resource. Viewed 22/8/19 which states exploration within approved development areas within Manager of Environmental Operations of the Resource Regulator dated 28, current Mining Operations Plan. Warkworth EIS reviewed, 2017-2020 represents approximately years 3-6 of t plans in the EIS. It was agreed that the year 3 mine plan is most representation Plan 3F of the 'Mount Thorley Warkworth Mining Operations Plan Amendment mining area and rehabilitation phases for 2020. Mining progression within the 21/1/20, is generally consistent with mining areas shown in the MOP and Ye visit, a Mine Services Technical Discussion was held with the Technical Seremain in alignment with the EIS and MOP. The Northern out of pit (NOOP) dam is proposed to be constructed in the net constructed at any time over the life of the Project and its construction noise work on the day of the site visit, adequate parking was available at the main Wark areas
(b)	in accordance with the conditions of this consent Note: The general layout of the development is shown in Appendix 2.	Not Compliant	Some non-compliances identified in this table. Recommend to work with re
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.	Not Triggered	There are no inconsistencies with the above documents (GM pers comms).
4	The Applicant shall comply with any reasonable requirement/s of the Secretary arising from: any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in	Not Triggered	During the IEA period, all directives from the Department were discussed in the
(a)	accordance with this consent;		
(b)	any reports, reviews or audits commissioned by the Department regarding compliance that are submitted in accordance with this consent;	Not Triggered	During the IEA period, all directives from the Department were discussed in the
(c)	the implementation of any actions or measures contained in these documents.	Not Triggered	During the IEA period, all directives from the Department were discussed in the
LIMITS ON			
Mining Ope			
5	The Applicant may carry out mining operations on site for 21 years from the date of commencement of development under this consent. Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of the Secretary and the DRE. Consequently, this consent 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.	Compliant	Commencement of development 15 February 2016 (2017 IEA), therefore ope
On al Esstera			

Compliant

Compliant

Compliant

Not Triggered

Not Triggered

Section 4.3 2017 AR - 13.59 Mtpa ROM

Section 4.3 2018 AR - 14.59 Mtpa ROM

Section 4.3 2019 AR - 16.90 Mtpa ROM

There is no other method to transport the coal (GM, pers comms).

COMMENCEMENT OFDEVELOPMENT UNDER THIS CONSENT

export and/or domestic markets

The Applicant shall not extract more than 18 million tonnes of ROM coal from the Mt Thorley mine in a

ensure that the coal produced on site is only sent to Mt Thorley Coal Loader for transport by rail to

notify the Secretary in writing of the date of commencement of development under this consent; and

may only commence development under this consent once the Secretary has agreed in writing that all

not transport any coal produced at the development by public road; and

lit period.

westerly direction in both North and West Pits (Plate 1). South Pit has being utilised for dumping activity.

nsolidated Coal Lease (CCL 753) and Mining Lease (ML) 1751; ahead Viewed email from Yancoal Resource Knowledge Superintendent dated within CCL753 and ML1751 are approved, and viewed an email from ed 28/8/19 agreeing to that position providing drilling is detailed in the

6 of the mine plan. Only Year 3 and Year 9 are included as progress entative year for audit period.

ment B' (23 May 2019 - 30 November 2021) (MOP) shows the expected in the North, West and South Pits, as viewed on an aerial image dated nd Year 3 (see condition 56 for further discussion). During the IEA site al Service Manager who described methods for the mining process to

ne next period and is shown in Figure 2.3 of the Warkworth EIS, can be oise was modelled with Year 3 mining (Warkworth EIS). Warkworth offices building with no vehicles observed in non designated

ith relevant regulators to resolve non compliances in this table.

d in the Annual Review (GM pers comms).

d in the Annual Review (GM pers comms).

d in the Annual Review (GM pers comms).

e operations can take place until 15 February 2037.

It is anticipated that 17.57 Mtpa will be extracted from Warkworth in 2020 (Section 4.3 2019 AR).

There was no coal transported via public road during the IEA period (GM pers comms). Coal is transported via conveyor to the Mount Thorley Coal Loader and railed to Port (Section 4.1 2017, 2018 and 2019 AR).

2017 IEA viewed letter from Coal and Allied to DPE dated 3/2/2016, with a commencement date of 15 February 2016. As per the 2017 IEA, "Sighted letter from DP&E dated 8/2/16 notifying MTW that all required documentation was in place'

Condition	Requirement	Status	Evidence
9	By the end of January 2017, unless the Secretary agrees otherwise, the Applicant shall surrender the existing development consent (DA-300-9-2002-i) for the Warkworth mine in accordance with Section 104A of the EP&A Act. Following the commencement of development under this consent, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of DA-300-9-2002-i.	Not Complaint	 Viewed letter from DPE dated 11/10/17 rejecting the surrender of DA-300-9-200 landowner. In the same letter, the surrender deadline was extended till end Ja The applications to surrender both consents were resubmitted to DPE on 13/6/19 accepting surrender of development consent DA 34/95. In regards to SSD 6464, the application to surrender DA-300-9-2002-i made or landholders; Warkworth Mining Limited; Miller Pohang Coal Company Ptd Ltd Roads and Maritime Service; Singleton Shire Council; and Department of Industry -Lands At the time of this IEA, the application to surrender DA-300-9-2002-i has not bee DPIE does not have capacity to complete the surrender and will complete in "the surrender notice.
10 DEMOLITIO	 The Applicant 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 and MSB. Notes: Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates (where applicable) for the proposed building works• Part 8 of the EP&A Regulation sets out the requirements for the certification of the development. The development is located in the Patrick Plains Mine Subsidence District, and under Section 15 of the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Certificant is required to obtain the Subsidence Certificant is required to o	Compliant	 The following activities under this condition occurred during the audit period SSD 6464 - "Construction Putty Road underpass commenced in 2017 with RMS owned infrastructure. Viewed works authority deed dated 21/7/16. Vie 21/5/18. See response to Sch 3 Cond 49 for further discussion. See Plate SSD 6465 - A mid-sized circuit was installed at the Warkworth Coal Handlin AcroCert dated 5/11/19, requiring a Structural Certificate (Completed Works submitted to council following completion of the works. Viewed Design Cert Application for a Construction Certificate dated 15/10/19. Viewed Occupation sighted during site visit (Plate 3).
11	The applicant shall ensure that all demolition work on site is carried out in accordance with AS 2601-	Not Triggered	No demolition works occurred during the IEA period (GM, pers comms).
	2001: The Demolition of Structures, or its latest version.		
	ON OF PUBLIC INFRASTRUCTURE		
12	Unless the Applicant and the applicable authority agree otherwise, the Applicant shall: repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the	Not Triggorod	No public infrastructure was demaged by the development during the IEA period
(a)	development; and	Not Triggered	No public infrastructure was damaged by the development during the IEA period
(b)	relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.	Not Triggered	No public infrastructure was relocated as a result of the development during the
	Note: This condition does not apply to any damage to public infrastructure subject to compensation payable under the Mine Subsidence Compensation Act 1961, or to damage to roads caused as a result of general road usage.		
	N OF PLANT AND EQUIPMENT		
13	The Applicant shall ensure that all plant and equipment used on site, or to monitor the performance of the development, is maintained and operated in a proper and efficient manner	Compliant	Assets Viewed Mine Maintenance and CHPP List of Assets spreadsheet. Viewed Plant Procedures Viewed the following procedure documents: Lifecycle Principal Control Plan (PCP), document controlled by Manager Mathematical Engineering PCP, last revised 18/6/19; Electrical Engineering, last revised 20/6/19; Defect Management, last revised 30/8/18; and Planned Maintenance and Maintenance Inspection, last revised 30/8/18. Routine Work Orders (Maintenance) Viewed Fixed Plant Maintenance Register that outlines timing of when maintenant Viewed SPL Equipment Supply Agreement contracts for sound attenuation on existing conducted during the IEA period.
	& STAGING STRATEGIES, PLANS AND PROGRAMS		
14 (a)	With the approval of the Secretary, the Applicant may: submit any strategy, plan or program required by this consent on a progressive basis; and	Not Triggered	There have been various updates to management plans throughout the IEA per
(a)	submit any strategy, plan or program required by this consent of a progressive basis; and	not mggerea	pers comms). See Section 4 for a full list of management plans.
	combine any strategy, plan or program required by this consent with any similar strategy, plan or	Not Triggered	There were no strategies, plans or programs requested to be submitted on a p

002-I and DA 34/95 as there was no signed statement from each January 2019.
n 4/6/19. In regards to SSD 6465, viewed letter from DPE dated
on 4/6/19 contains signed statements from each of the following
een approved by DPIE. Email from DPIE dated 3/3/20 states that he near future". Recommend to follow up with DPIE to seek
n planned project completion in May 2018" (Section 4, 2017 AR). /iewed letter from RMS "Notice of Practical Completion" dated
ks) and Preparation Plant (CHPP). Viewed certification from ks) and an Application for an Occupation Certificate be ertification – Structural Engineering certificate dated 22/9/19 and tion Certificate for the completed works issued 19/5/20. Works
od (GM, pers comms).
od (GM, pers comms). e IEA period (GM, pers comms).
e IEA period (GM, pers comms).
e IEA period (GM, pers comms).
e IEA period (GM, pers comms).
e IEA period (GM, pers comms). t Register. Maintenance, last revised 18/6/19; 0-hour routine maintenance: brake checks, fluid sampling. hance due. Allocated via work orders. 1/4/2020. Notes a corrective work order required. excavator, 793 trucks purchased in IEA period.
e IEA period (GM, pers comms). nt Register. Maintenance, last revised 18/6/19; 0-hour routine maintenance: brake checks, fluid sampling. hance due. Allocated via work orders. 1/4/2020. Notes a corrective work order required.
e IEA period (GM, pers comms). t Register. Maintenance, last revised 18/6/19; 0-hour routine maintenance: brake checks, fluid sampling. hance due. Allocated via work orders. 1/4/2020. Notes a corrective work order required. excavator, 793 trucks purchased in IEA period.
e IEA period (GM, pers comms). t Register. Maintenance, last revised 18/6/19; 0-hour routine maintenance: brake checks, fluid sampling. hance due. Allocated via work orders. 1/4/2020. Notes a corrective work order required. excavator, 793 trucks purchased in IEA period.

a progressive basis or combined during the IEA period (GM pers

	any time submit revi With the agreement	sed strategies, plans or pro	are updated on a regular basis, the Applicant may at	Compliant	See below for revised strategies.
	 any time submit revised strategies, plans or programs to the Secretary for approval. With the agreement of the Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all parties under the applicable condition of this consent. Notes: While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times. 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 relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program. 				 The following management plans were updated during the IEA period and requireceived for the following where consultation was required but not undertaken: AQMP (28/6/17 and 28/6/18) BMP (26/8/16, 17/7/17 and 20/7/18) NMP (25/7/17, 18/7/18) WMP (27/7/18) Recommend that where a management plan is updated and WML can justic is not required, ensure that written approval from DPIE is granted.
15 (a)	enter into a VPA with	he date of this consent, un h Council in accordance wi of the EP&A Act; and	less the Secretary agrees otherwise, the Applicant shall th:	Compliant	Not completed at last audit. Viewed letter from DPIE dated 29/6/17, extending the date that Coal and Allied Viewed signed VPA, dated 5/6/17 signed by MTW and SSC.
(b)	the terms of Applican The VPA shall include contributions under t the area surrounding	nt's offer in its letter to the i de provisions for the payme the agreement, with a focus g, including Bulga Village.	Department dated 4 May 2015 ent, collections, management and distribution of the s on funding community infrastructure and services in ontribution of \$11 million over 21 years for both the	-	The VPA payment schedule is outlined in Schedule 4 of the VPA which allocates the Singleton Economic Development Fund. At the time of the IEA, the VPA Contribution Timing was at Year 4 (i.e Year 1 wa Viewed SSC VPA Community Committee Minutes dated 5 February 2020 whi were to the value of \$2,821,836.70. This is generally consistent with Schedule
	development and the	e Warkworth Continuation	Project (SSD-6464).		Viewed tax invoice from SSC dated Dec 2017 (\$1.1M), Jan 2018 (\$1.1M), Jan 2 As per clause 5 of the VPA, "the payment of subsequent Contribution Amounts i Year, in accordance with the Contribution Timing". Schedule 4 and clause 5 Economic Development Fund by Year 4 (i.e 28 Jan 2020).
	<u>3 - ENVIRONMENTA</u> IN UPON REQUEST	L PERFORMANCE CONL	DITIONS		
1	Upon receiving a wri		from the owner of the land listed in Table 1, the Applicant rocedures in conditions 5 and 6 of schedule 4.	Compliant	Land 34 and J were acquired during the IEA period, on 22/8/19 and 31/1/18 r Viewed certificate of titles provided in email from Property team for Property 34 – Lepisto, settled 22/8/2019 and
	Table 1: Land subject to a	acquisition upon request			Property J – Berry, settled 31/1/2018.
	Acquisition Bas	is	Land		Land 190 and F were acquired prior to the IEA period.
	Noise & Air		77, 102, D, E, F		
	Noise	34	4, 81, 148, 150, 190, 192, J A, B		
	Note: To interpret the land	d referred to in Table 1, see the app			
2			ty 77 if the owner no longer has voluntary land acquisition o mine or its associated rail facilities.	Not Triggered	Property 77 is located in Warkworth Village; this property is identified as Prop Consent SSD 7142. Property 19 holds Acquisition Rights under Wambo Mine (DA 305-7-2003) Part In August 2019, Property 19 had not been acquired by Wambo Mine (refer to DA No approach for acquisition from Property 77 to MTW has occurred (GM pers co
3	Table 2, the Applicant the vicinity of the resi with the measures out reasonable and feasib If within 3 months of r on the measures to be	t shall implement additional nois idence in consultation with the tlined in the <i>Voluntary Land Acc</i> le and proportionate with the lev receiving this request from the c	owner, the Applicant and the owner cannot agree bute about the implementation of these measures,	Compliant	All landholders have been notified of their mitigation rights (GM pers comms). Viewed example Notification of Mitigation Rights to landholder's letter dated 17/ Viewed example Mitigation Agreement with ID 12 dated 19/11/18, includes list and reimbursement of cost of electricity used by air conditioning system. Viewed Zone of Mitigation maintenance schedule spreadsheet. Two residents have requested mitigation in the IEA period; ID 130 and 12 (GM p In 21 Feb 2020 (ID 217) triggered mitigation. A discussion around mitigation un provided 27 March 2020 and a meeting with lawyer scheduled for May 2020. Viewed MTW Noise and Dust Mitigation Maintenance tracking spreadsheet sho contract commencement.
	Table 2: Land subject to	additional mitigation upon request			
	Mitigation Basis	Characterisation of Impact	Land		
	Noise	Moderate	12, 14, 15, 126, 128, 130, 139, 152, 183, 191, 192, 217, 262, 263		
		referred to in Table 2, see the applic nal and moderate mitigation are g	cable figures in Appendix 3. iven in the Voluntary Land Acquisition and Mitigation		

quired consultation with other parties. No approval from DPIE was

stify that consultation with all parties under another condition

ed was required to enter into a VPA with Council until 31/12/17.

tes financial contribution to the Bulga Community Project Fund and

was immediately on VPA signing in 2017). which states that the Bulga Community Project Fund contributions ile 4 of the VPA i.e \$2.9M at Year 4. in 2019 (\$385k) and Dec 2019 (\$385k) ts is to be made within 28 days of the start of the relevant Calendar

5 of the VPA requires \$2.7M to be contributed to the Singleton

espectively.

Property 19 in the United Wambo EIS that supports Development

art C but not under United Wambo Open Cut SSD 7142. DA 305-7-2003 Notice of Modification signed 29 August 2019). s comms).

17/12/15 to property ID 130. ist of mitigation measures such as double glazing, air conditioning

M pers comms). In under consent is ongoing. A response to landowner ID 217 was

showing property, system type and date of installation, and date of

ondition	Requirement							Status	Evidence
DISE	- 1/-	ia							
oise Crite	eria								
	Before 1 Jan	uary 2017, except for t	the land	in Table '	1. the App	licant sha	I ensure that the noise	Not Triggered	1 January 2017 is outside the IEA period. Condition 18 of DA-300-9-2002-i was audited in 2016 and deemed not complia
		Before 1 January 2017, except for the land in Table 1, the Applicant shall ensure that the noise generated by the development does not exceed the noise criteria in condition 18 of DA-300-9-2002-i.							
	Notes:								
		ced noise criteria in conditio					opendix 9. noise attenuation program,		
							lary 2017, the noise criteria		
	in condition	5 will apply.					•		
		ary 2017, except for the the development does not						Compliant	2017 (Source: Section 6.2.3, 2017 AR) In 2017, there were no non-compliances. 2018 (Source: Section 6.2.2 2018 AR) "The application of the modifying factor resulted in one (1) exceedance of the W
	Table & Market								A subsequent measurement was taken on 10 August 2018 at 00:23. The re-mea
	Table 3: Noise cr Location	Land	Day	Evening (Lee mend)	Night (Langton)	Night			criteria. Follow up monitoring was conducted at Bulga Village on the night of and no further action was required. As both there-measure and follow up mon
		17, 19	40	40	(LAeg((Beeg)) 40	50			a non-compliance, as per MTW's approved Noise Management Plan. DP&E wa
		37, 43, 52, 62, 63, 64, 66, 71, 72, 73, 75, 82, 210, 211, 236, 252, 920	39	39	39	49			Viewed email to DPE letter 10 Aug 2018 which notes exceedance was not a n from DPIE has been received (GM pers comms). As per section 5 of the Noise Monitoring Program, the procedure for this exce 2019 (Source: Section 6.2.2 2019 AR) "The application of the modifying factor resulted in one (1) exceedance of the on 17 January 2019 at 21:41 at Inlet Road. A subsequent measurement w compliance was achieved with the LAeq, 15minute criteria. Follow up monitori
	Bulga	12, 14, 15, 16, 18, 20, 21, 22, 23, 24, 25, 28, 31, 35, 36, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 53, 54, 55, 55, 57, 58, 60, 61, 67, 70, 74, 80, 84, 89, 215, 217, 229, 221, 234, 235, 237, 238, 243, 253, 254,	38	38	38	48			
		903, 917, 918, 919, 921 929 8, 9, 225, 226, 227, 228, 230, 266, 922	37	37	37	47			with the LAeq,15minute criteria and no further action was required. As both the exceedance does not constitute a non-compliance, as per MTW's approved
		4, 6, 7, 10, 221, 222, 223	36	36	36	46			exceedance on 18 January 2019, and the result of follow up monitoring on 25 Viewed notification to DPIE dated 18/1/19, and follow up notification on 24/1/19 (GM pers comms). As per section 5 of the Noise Monitoring Program, the procedure for this exce 2020 (Source: Jan, Feb 2020 MEMR and March Attended Noise Results website confirmed that all measurements complied with the relevant criteria.
		All other residences on privately owned land	35	35	35	45			
	Mibrodale	111	36	36	36	46			
		All other residences on privately owned land	35	35	35	45			
	Warkworth	All other residences on privately owned land	38	38	38	48			
	Malson Dieu	All other residences on privately owned land	35	35	35	45			
		126, 262	41	41	41	51			
	Gouldsville, Long Point	128	39	39	39	49			
	Long Point	130, 139 All other residences on	38	38	38	48			
		privately owned land	35	35	35	45			
		192	40	40	40	50			
		152, 191, 263	39	39	39	49			
	Hambledon HII/ Wylles	183	38	38	38	48			
	Flat	181, 182, 184, 185, 186, 187, 937a, 937b	37	37	37	47			
		155, 156, 157, 180, 937d, 937e	36	36	36	46			
		All other residences on privately owned land	35	35	35	45			
		*144, *915	43	43	43	53			
	Mount	* 146	42	42	42	52			
	Thoriey	148, 188	36	36	36	46			
		All other residences on privately owned land	35	35	35	45			
		the land referred to in Table 3, see the developed relative to current acquisiti		ures in Appendir	3	22 3			
	Note: To int	orbrot the land ref-	od to in	Table 0	000 #-	onnlinet	la figuroa in Annadia a		
							le figures in Appendix 3 in the relevant requirements		
		, ,					1	•	•

liant.

WML LAeq Impact Assessment Criteria during the reporting period. neasure confirmed compliance was achieved with the LAeq,15minute of 13 August 2018. MTW complied with the LAeq,15minute criteria onitoring were compliant, the initial exceedance does not constitute was notified in writing of the exceedance on 10 August 2018." non-compliance against consent. At the time of the IEA, no response

eedance was appropriately followed.

WML LAeq Impact Assessment Criteria during the reporting period vas taken at 22:40, on the same night. The re-measure confirmed ing was conducted on the night of 24 January 2019, which complied the re-measure and follow up monitoring were compliant, the initial ved Noise Management Plan. DPIE was notified in writing of the 5 January 2019."

19. At the time of the IEA, no response from DPIE has been received

eedance was appropriately followed.

ts, Global Acoustics)). A review of monthly results from WML's

Condition	Requirement	Status	Evidence
	of the NSW Industrial Noise Policy (as may be updated from time-to-time) or an equivalent NSW		
	Government noise policy, as amended by Appendix 7 which sets out the metrological conditions under		
	which these criteria apply. However, these criteria do not apply if the Applicant has an agreement with		
	the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.		
Operating C			
6	The Applicant shall:		
(a)	implement all reasonable and feasible measures to minimise the operational, low frequency and road	Compliant	Section 6 of the NMP describes mitigation measures and management control.
	noise of the development;		and response to Sch 3 Cond 6d).
			There have been no complaints about road and traffic noise (GM pers comms). Highway (a major road) with limited private receivers in close proximity to the road
			comms).
			MTW utilises personnel (Community Response Officers) (CRO) to undertake
			communities. CRO attended monitoring data is published on the website daily
			required (controlled by the OCE). Viewed example of CRO shift report dated
			Training Letter of Competency dated 1/4/20. Viewed CRO Work Instruction last
			The IEA site visit included a discussion with PK (CRO) which included the follow community complaints), reporting hierarchy, procedure for responding to alarms,
			throughout the previous shift).
(b)	operate a comprehensive noise management system on site that uses a combination of predictive	Compliant	The CRO, OCE, shift coordinator and drill blast team receives daily metrological f
	meteorological forecasting and real-time noise monitoring data to guide the day to day planning of		operational controls required (orange or red cell) and additional management re
	mining operations and the implementation of both proactive and reactive noise mitigation measures to		and verified on-site.
	ensure compliance with the relevant conditions of consent;		Data and response entered into software "Insight" which was viewed. Viewed Calibration Certificate C19029 from Acoustic Research Labs for the atter
(C)	minimise the noise impacts of the development during meteorological conditions when the noise limits	Compliant	CRO's in use 24/7.
× /	in this consent do not apply (see Appendix 7); and		Between January and April 2020 sample reports reviewed (inclusive), the nois
			monitoring results (4 times at 8 locations 28% of results), due to adverse weather
			conditions, noise consultant currently does not re-monitor. During winter 2019
			the noise criteria did not apply due to adverse weather conditions). The number conditions are not reported in the Annual Review, but is reported in the Monthly R
			Although trending downwards, it is recommended that % of valid results
			invalid readings are not being received.
(d)	ensure that;	Compliant	There were some additional and replacement heavy equipment purchased durin
	 all new trucks, dozers, drills and excavators purchased for use on the site after the date of this consent are commissioned as noise suppressed (or attenuated) units; and 		one 360t excavator (Section 4.4, 2018 AR). Viewed SPL Equipment Supply Agre purchased in IEA period.
	• the existing fleet of trucks, dozers, drills and excavators on site at the date of this approval is		Viewed sound testing schedule, listing plant and year since last SPL test.
	progressively fitted with suitable noise attenuation packages to ensure that 100% of the fleet being		Viewed Standard Build Specification for Emeco CAT 793D OHT, Sound Power le
	used on site is attenuated by the end of 2016; and		performed by Global Acoustics in 2019.
			Reviewed Sound Attenuation Inspections: there has been work completed on e components. However, as per email from Maintenance dated 20/4/20 "there
			missing". Recommend toolbox talk (or similar) distributed in relation to re
			Reviewed Sound Testing Schedule, majority plant tested in the last three year
			noticeably best practice.
			Viewed email from MTW Maintenance Mechanical Engineer dated 3/6/20 which
			up with a hole in transmission. Two dozers have not been tested but will be cap
			Viewed Global Acoustics report dated 6/11/17 - Hitachi 3600 review. Viewed co SPL (Schedule 2 of contract describes sound suppression devices required).
(e)	carry out regular monitoring to determine whether the development is complying with the relevant	Compliant	As reported in Section 6.2 of the 2019 AR, Community Response Officers' (
	conditions of this consent and, if necessary, adjust the scale of operations on site to meet the criteria in		handheld noise measurement and audible observations. A summary of supple
	this consent		shown in Table 6.1 of the AR.
			As reported in Section 6.2 of the Annual Review, in 2019 there were 4,239 noise downtime "to manage noise". As per the Monthly Environment Monitoring Repo
			commensurate with the nature and severity of the noise event but can includ
			equipment numbers and shutting down of a task. Equipment downtime is reco
			measurements undertaken by an independent acoustic specialist in 2017, 201
			measurements undertaken by an independent acoustic specialist in 2017, 20 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook
			measurements undertaken by an independent acoustic specialist in 2017, 201 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook parking up of some exploration drill and trucks" (Aug 2018, MEMR)
			measurements undertaken by an independent acoustic specialist in 2017, 20 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook parking up of some exploration drill and trucks" (Aug 2018, MEMR) The following community complaints were made in relation to noise:
			 measurements undertaken by an independent acoustic specialist in 2017, 207 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook parking up of some exploration drill and trucks" (Aug 2018, MEMR) The following community complaints were made in relation to noise: 191 complaints in 2017
			measurements undertaken by an independent acoustic specialist in 2017, 201 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook parking up of some exploration drill and trucks" (Aug 2018, MEMR) The following community complaints were made in relation to noise:
			 measurements undertaken by an independent acoustic specialist in 2017, 201 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook parking up of some exploration drill and trucks" (Aug 2018, MEMR) The following community complaints were made in relation to noise: 191 complaints in 2017 171 complaints in 2018 112 complaints in 2019 eight complaints in 2020 (Jan, Feb only)
			 measurements undertaken by an independent acoustic specialist in 2017, 201 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook parking up of some exploration drill and trucks" (Aug 2018, MEMR) The following community complaints were made in relation to noise: 191 complaints in 2017 171 complaints in 2018 112 complaints in 2019 eight complaints in 2020 (Jan, Feb only) Results for March, as presented in the MEMR, was not available at the time of the function of the functi
			 measurements undertaken by an independent acoustic specialist in 2017, 201 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook parking up of some exploration drill and trucks" (Aug 2018, MEMR) The following community complaints were made in relation to noise: 191 complaints in 2017 171 complaints in 2018 112 complaints in 2019 eight complaints in 2020 (Jan, Feb only) Results for March, as presented in the MEMR, was not available at the time of the Noise complaints have been reducing during the audit period.
			 measurements undertaken by an independent acoustic specialist in 2017, 201 condition. For the potential noise exceedance of 10 Aug 2018, "MTW undertook parking up of some exploration drill and trucks" (Aug 2018, MEMR) The following community complaints were made in relation to noise: 191 complaints in 2017 171 complaints in 2018 112 complaints in 2019 eight complaints in 2020 (Jan, Feb only) Results for March, as presented in the MEMR, was not available at the time of the function of the functi

I. Mobile equipment is fitted with sound attenuation (see Plate 9)

). Traffic speed is limited coming into site which is via the Golden road i.e. there is limited opportunity to control road noise (OL pers

ke proactive and reactive noise monitoring in the neighbouring aily and includes details on operational changes when these are ed 8/10/19 sent out to relevant mining personnel. Viewed CRO ast revised 7/1/19.

llowing topics: receiving of alarms (includes dust, noise, blast and is, training, CRO shift handover (which includes highlighting issues

al forecasts e.g daily dust alert (wind, rain). If dust / noise risk high, t required. A weather report is also delivered showing inversions

ttended noise Sound Calibrator

noise criteria did not apply to nine out of the 32 attended noise er conditions. If exceedance occurs during adverse meteorological 9 (June and July), only one result out of 16 (6%) was invalid (i.e. ber of times when noise limits do not apply due to meteorological ly Environmental Monitoring Reports on the company website. ts be regularly reviewed to ensure that a high percentage of

uring the IEA period including five 320t haul trucks, one 500t and greement contracts for sound attenuation on excavator, 793 trucks

level (SPL) measurement of Caterpillar 793D and Hitachi EX3600

n equipment exhaust systems in regards to cracked mufflers and ere were a few sound attenuation panels that appear to be reminder for need for sound suppression on mobile fleet. ears. All key fleet have been tested in the IEA period. This is

ch states all RTD's have been tested except 577 due being parked aptured in the 2020 campaign.

contract to purchase equipment from Hitachi, contain section on

' (CRO's) validate real-time noise alerts through supplementary plementary attended noise monitoring conducted by the CRO is

se assessments, which resulted in up to 1,203 hours of equipment eport (MEMR), the actions taken in response to exceedances are lude; changing the haul route to a less sensitive haul, reducing ecorded in the AR and the MEMR. There were 293 compliance 2018 and 2019. The results are discussed under part a of this ok actions in response to the elevated measurement including the

the IEA.

erations are proposed to continue to the west towards Bulga and

Condition	Requirement				Status	Evidence
Noiso Mana	agement Plan					Each complaint is responded to by the CRO. The CRO is the primary contact w
7				elopment to the satisfaction of the an. The plan must:	,	Reviewed NMP.
(a)	be prepared in consultation w commencement of any develo			Secretary for approval prior to the	e Compliant	Viewed EPA consultation letter dated 19 July 2018. Viewed approval letter from
(b)		ould be implemer		ance with the relevant noise criteria	Compliant	Section 6 of the NMP
(c) (d)	describe the proposed noise r include provisions for keepi management system and m	nanagement syst ng the local co onitoring progra ling regular briefi	mmunity informed a ms (including any c	about the operation of the noise orrection factors under the NSM rmation session within 6 months o	/	Section 8.1.3 of the NMP Appendix A of the NMP Stakeholder consultation includes the CCC (discussed further in Sch 5 Cond 6)
(e) BLASTING	 include a noise monitoring program that: evaluates and reports on: the effectiveness of the noise management system; the effectiveness of the noise attenuation program (see condition 6(d)); compliance against the noise criteria in this consent; and compliance against the noise operating conditions; includes a program to calibrate and validate the real-time noise monitoring results with the attended monitoring results over time (so the real-time monitoring program can be used as a trigger for further attended monitoring where there is a risk of non-compliance with the Nosie criteria in this consent); and defines what constitutes a noise incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any noise incidents. 			nonitoring results with the attended can be used as a trigger for furthe Nosie criteria in this consent); and	r 1	The noise monitoring program is outlined in Appendix A of the NMP. The noise the 2017,2018 and 2019 AR. Real time monitoring uses Barn Owls (since 2000) and 'noise compass'. There is no formal process for comparing attended noise monitoring to re validation surveys are undertaken on an as required basis . Surveys are co monitoring to enable comparison with measured levels at the corresponding rea GM noted that the CROs monitor regularly. Handheld noise monitoring results noise measurements provide feedback on the real-time noise measurements wh on noise levels from the real-time monitoring system, which trigger them to take located, and a noise level is recorded. Feedback on real time noise level vs CI noise from MTW (they are directional noise monitors at present), in an attempt the real time system is used presently for triggering an inspection and measure The CRO handheld and feedback to operations is used for that purpose. Re monitoring as part of regular, external noise monitoring to validate real time is the intent of this condition. Recommend showing maximum monitored result from the three quarter! Annual Reviews . Viewed spreadsheet for 2019 Compliance Noise Monitoring, re
BLASTING Blasting Cr	itoria					-
8	Applicant shall ensure that the blasting on site does not cause exceedances of the criteria in Table 4. However, these criteria do not apply if the Proponent has a written agreement with the relevant owner and has advised the Department in writing of the terms of this agreement. Table 4: Blasting criteria Location Airblast overpressure (mm/s) Allowable exceedance				-	 There were three incidents and one penalty notice issued in relation to blast. In 2017 "All blasts returned results below the relevant airblast overpressure / AR Section 6.3.2) 1. "One (1) blast event on 28 December 2018 recorded an air blast over threshold for air blast overpressure at the Bulga Village blast monitor (20 to the EPA on 28 December 2018 as a precautionary measure based or subsequently provided to DP&E and to the EPA for this blast which note before and during the blast. The investigation determined that it is probable.
	Residence on privately owned land	(dB(Lin Peak)) 120	10	0%		the air pressure level recorded by the Bulga Village monitor. In December 2 2018 MEMR). At the time of the IEA, there had been no response from DPIE (GM, pers c
Blasting Ho		115	5	5% of the total number of blasts over a period of 12 months		 On 5 July 2018 an administrative non-compliance was recorded when magnitude blast event (2018 AR, Section 6.3.2). The data was unavailab 0.2mm/sec which triggers the automated capture of blast results. Blast resule event, which is the storage limit of the blast monitors." In response MTW d required to validate daily. Noted email from O.Lane reviewing blast data from 3. One (1) blast event on 4 April 2019 recorded an air blast overpressure preliminary notification of the suspected airblast overpressure exceedance written report was subsequently provided to DPIE and to the EPA for this b resulted at the Warkworth monitoring station was greater than predicted was the actual effects of meteorology, were different from that predicted." WML incident, which was received in September 2019. The penalty notice was the Warkworth Development Consent (SSD 6464). EPA directed MTW to investigate internally and externally. An internal meteor predictive meteorology. Meeting attendees included experts in blast. An o recommendations detailed in a report dated 18/9/18 (included nine change Viewed EnvMET image of predictions for 4 April 2019 and confirmed meteor Recommend to implement continuous improvement practices with the ain There have been no exceedances in January and February 2020 (MEMR). Results for March, as presented in the MEMR, was not available at the time of the second to implement on the MEMR.

with complainants.

om Secretary dated 28 Aug 2018.

se monitoring program is evaluated and reported in Section 6,2 of

real-time (GM pers comms). As stated in Section 6.4.5, real time conducted upon request by way of either attended or unattended eal time monitoring location.

Its are shown in the Annual Review Table 6.5 as averages. CRO which GM stated is a validation. The CRO's react to alerts provided ke a reading in the area that the alert from the real-time system is CRO reading is used to modify how the real time system records pt to improve the alerts provided to the CRO team. In any event, rement, and is not the primary tool used for managing operations. Recommend to undertake a regular comparison of real time time time monitoring results and discuss in Annual Review which

erly readings (LAeq 15 min) in all tables in section 6.5 of the reviewed for Bulga Village and inlet Road, and compared attended

uring the IEA period.

round vibration criteria for all monitoring locations". (Source: 2017

rpressure result of 120.1 dB(L), exceeding the 120 dB(L) 18 AR, Section 6.3.2). The event was reported to the DP&E and the monitored results at this monitor. A written report was d that wind gusts produced substantial air pressure peaks both ble that a wind gust during the period of air blast arrival increased r 2018, there were six complaints for blast, date unknown (Dec

comms).

EXAMPLE 1 A blast monitor failed to capture blast data from a small able as the peak vibration level was below the trigger threshold of esults were also not manually captured within 20 days of the blast doubled the software memory which the Drill and Blast team are from March 2019.

re result of 121.2 dB(L) (Source 2018 AR, Section 6.3.2). A be was reported to the DPIE and to the EPA on 5 April 2019. A blast which concluded that "The reason that the AOP level that was due to the fact that the actual meteorological data, and hence **IL received a penalty notice for the AOP exceedance** was issued by DPIE for a non-compliance of the blasting limits of

eeting was held to discuss blast findings, blast processes and outcome of the meeting was a number of blast control ges to blast procedure)

eorological data within blasting limits. im to avoid any blast exceedances.

the IEA.

Condition	Requirement	Status	Evidence
9	The Applicant shall only carry out blasting on site between 7am and 5pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.	Compliant	 "Warkworth Mining Limited carried out blasting on site between 7am and 5pm M on public holidays" (Section 6.3.2 – 2018 and 2019 AR). Note that Blasting Hours within EPL 1376 differ (7am – 6pm). Mt Thorley Operations Limited carried out blasting on site between 7am and 5pm or on public holidays" (Section 6.3.2 – 2018 and 2019 AR). Viewed Blasting Data Spreadsheets for the IEA period at six blast locations. All carried out on a public holiday.
Blasting Fr			
10	The Applicant may carry out a maximum of:	Ormaliant	
(a)	3 blasts a day; and	Compliant	 "Warkworth Mining Limited carried out not more than 3 blasts per day and not n (Section 6.3.2 - 2018 2019 AR) Mt Thorley Operations carried out not more than 2 blasts per day and not more t 6.3.2 - 2018 2019 AR).
(b)	12 blasts a week, averaged over a calendar year, at the site.	Compliant	Warkworth Mining Limited carried out not more than 3 blasts per day and not more than 2 blasts per day and not more than 2 blasts per day and not more than 2.2 - 2018 2019 AR).
	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, blasts misfires or blasts required to ensure the safety of the mine, its workers or the general public.		
	 Notes: 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. For the avoidance of doubt, should an additional blast be required after a blast misfire, this additional blast and the blast misfire are counted as a single blast. In circumstances of recurring unfavourable weather conditions (following planned but not completed blast events), to avoid excess explosive sleep times and minimise any potential environmental impacts, the Applicant may seek agreement from the Secretary for additional blasts to be fired on a given day. 	N/A	
11	The Applicant shall not carry out more than 1 blast a day within 500 metres of the Putty Road/ and or Golden Highway.	Compliant	Viewed figure MTW Blast Radius Review" which shows 500 m buffer from active period: Putty Road between Mt Thorley and Warkworth and short section of Go Reviewed "Ref #33 Blasts within 500m public roads spreadsheet (2017 – 2020 Putty Road and Golden Highway. Both of these roads are also closed when dus
Property In	spections		
12	If the Applicant receives a written request from the owner of any privately-owned land within 2 kilometres of the approved open cut mining pit/s 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 updated, then within 2 months of receiving this request the Applicant shall:	Not Triggered	This was not requested during the IEA period (GM pers comms)
(a)	 Commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to: establish the baseline condition of any buildings and other structures on the land, or update the previous property inspection report; and identify measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and 		
(b)	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 Applicant or the landowner disagrees with the findings of the property inspection report, either party may refer to the Secretary for resolution.		
Property In	vestigations		
13	If the owner of any privately-owned land claims that buildings and/or structures on his/her land have been damaged as a result of blasting on the site, then within 2 months of receiving this claim the Applicant shall:		
(a)	commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to investigate the claim; and	Compliant	 There have been six claims made to MTW within the IEA period (GM pers comm To ensure independence, landholders were afforded choice of four engineering Viewed signed selection forms for six residents: Inlet Rd (20/6/19), Inlet Road (1 (17/11/17), Turnball Rd (1/8/18). Note that there is no distance limit on this condition and if modification to modify condition to within 2km consistent with previous condition.
(b)	give the landowner a copy of the property investigation report.	Compliant	Six property investigation reports were prepared for the claims outlined in part a Viewed evidence that Blast Damage Investigation Report emailed to Inlet Rd (26/8/19), Turnball Rd (6/12/18) One dispute (for Milbrodale Rd) went to DPIE. Viewed letters showing that prop 5/3/2020. DPIE response accepted the conclusions of the property investigation no further action was required.
	If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Applicant shall repair the damage to the satisfaction of the Secretary.		

Monday to Saturday inclusive. No blasts occurred on Sundays or

pm Monday to Saturday inclusive. No blasts occurred on Sundays

All blasts were carried out between 7am and 5pm. No blasting was

t more than 12 blasts per week (averaged over a calendar year)".

re than 6 blasts per week (averaged over a calendar year) (Section

more than 12 blasts per week (averaged over a calendar). re than 6 blasts per week (averaged over a calendar year) (Section

tive mining areas to roads. Two areas potentially affected in audit Golden Highway immediately north of Warkworth Mine. 20)", there were no more than one blast event within 500m of the dust is predicted to be within 500m (GM pers comms).

nms). Majority of claims came from within the township of Bulga. ng companies. (13/5/19), Putty Rd (21/5/19), Wambo Rd (6/8/19), Milbrodale Rd

to SSD 6464 is sought, recommend consideration to apply to

a and provided to the landholder (GM pers comms) Rd (20/9/19), Inlet Road (4/7/19), Putty Rd (2/9/19), Wambo Rd

roperty investigation report was issued and DPIE response dated ion report that the landholder had not been damaged by blast and

Condition	Requirement	Status	Evidence
	If there is a dispute over the selection of the suitably qualified, experienced and independent person, or		
	the Applicant or the landowner disagrees with the findings of the independent property investigation,		
Operating C	then either party may refer the matter to the Secretary for resolution		
14	During mining operations on site, the Applicant shall:		
		Not Compliant	No livestock has had to be removed (GM pers comm)
(a)	 implement all reasonable and feasible measures to: protect the safety of people and livestock in the surrounding area; protect public or private infrastructure/property in the surrounding area from any damage; and minimise the dust and fume emissions of any blasting; 	Not Compliant	No livestock has had to be removed (GM pers comm). Kaboom blast software used at site. No damage to private property within the IE During the IEA period, no blasts produced visible post-blast fume with a post (Section 6.3.2.1, 2018 and 2019 SR, Section 6.3.3 2017 AR). On 7 August 2019 a blast was detonated in the North Pit of the Warkworth associated with Warkworth Coal Mine, Putty Road, and the Mount Thorle the licenced premises (Source 2018 AR, Section 6.3.2). No fume was associa via a community complaint. A Penalty Infringement Notice (PIN) was received (addition of wind direction toward Mount Thorley Industrial Estate (MTIE)) and MET station was installed Jan 2020 and is being trailed as an input into Bla Permissions being undertaken. The following community complaints were made in relation to blasting: 68 complaints in 2017, 69 complaints in 2017, 69 complaints in 2018 94 complaints 2020 (Jan/Feb) Results for March, as presented in the MEMR, was not available at the time of f Significant increase in blast complaints was noted in 2019 - One regular compla property investigation complaints (see Sch 3 Cond 13) and are mainly located within criteria except exceedance listed in Sch Cond 8. Some blast results with an Airblast overpressure between 115dB and 120dB a 5% allowable exceedance. If the allowable exceedance percentage is tracking f In 2019, the annual average allowable exceedance was 2.4%. Other years were updated and revised AR viewed. During the IEA site visit, the Mine Services Technical Discussion included bl Manager and Environment and Community Manager. The discussion included bl Manager and Environment and Community Manager. The discussion included of GDP's originate from Technical Services Technical Discussion included bl Manager and Environment and Community Manager. The discussion included of GDP's originate from Technical Services Technical Discussion included bl
(b)	 (b) ensure that blasting on the site does not damage historic heritage sites outside the disturbance area including the Wambo Homestead, Bulga Bridge, St Phillips Church or the following Aboriginal grinding groove sites: MTW-268-WSW-09-22; MTW-268-WSW-09-22; MTW-268-WSW-209-23; and Aboriginal grinding groove site Mt Thorley M 37-6-0163 (prior to its relocation); 	Compliant	Recommend to Implement continuous improvement practices with the aim The impacts to heritage features in this condition are determined by ground viti (see response to Sch 3 Cond 8). St Phillips Church As per Section 4,3,1 of the BMP, a ground vibration limit of 5mm/sec is applied location. Wambo Homestead As per Section 4.3.2 of the BMP, to ensure MTW blasts do not approach the crimonth period, there will be an internal threshold of 4 mm/s. Monitored at Warkwer Bulga Bridge As per section 4.2 of the BMP, the Bulga Bridge is monitored at the existing impacts with nearby receptors simultaneously. The limits for privately owned rest Grinding Grooves M 37-6-0163 was relocated during 2018 (Section 4.3.3 of the BMP). For the reproposed management measures are that the grinding grooves will remain inflyrock impacts"
(c)	minimise the frequency and duration of any road closures, and	Compliant	Road closures are managed by the Road Closure Management Plan. There is or potential to occur. To minimise the impact of road closures, speed limits are not minimised where Duration of the road closure is documented in a Road Closure Checklist. View shows time road closed and re-opened. Road closed for 13 minutes. Roads are closed most days of the week (3-4 closures / week). Road closures are discussed frequently during CCC meetings. Most common times. Community notifications include: Web services, text services and blast H how community notifications are updated.
(d)	operate a suitable system (including a hotline and website updates) to enable the public to get up-to- date information on the proposed blasting schedule on site.	Compliant	Viewed MTW website 27 April 2020. Road Closure Plans available. Internally, up-to-date information is available through Drill and Blast team send Blast team and text messaging service. Viewed letter dated 7/1/2020 to near neighbours which contains road closure available on website to confirm if blasting schedule included.

IEA period (see response to Sch 3 Cond 12 and 13). ost-blast ranking Level 4 or higher according to the AEISG Scale

th Mine. The resulting blast dust travelled to the east over land reley Industrial Estate before dissipating over farmland east of stated with this blast (GM pers comms). The blast issue was raised red from the EPA. MTW responded by updating Blast Permissions and prior blast approval from Mine Manager. The North Warkworth Blast Permissions. There is also an external review of the Blast

of the IEA.

- plainant made 38 blast complaints. Complainants have also made ed in Bulga (GM pers comms). Viewed Bulga blast results and all
- are not investigated because under Sch 3 Cond 8. MTW have a ghigh, MTW will investigate.
- ere unable to be determined. 2019 Annual Review report has been
- blasting procedures between Mine Manager, Technical Services of procedures for pre-strip as per the MOP, GDP process (majority cking between Environment and Blast teams to ensure all blasts
- im to avoid any blast exceedances vibration limits. All ground vibration limits were within the criteria
- ed and the impacts will be assessed at the "Warkworth" monitoring
- criteria of 5mm/s limit with 5% allowable exceedances during a 12kworth.
- ng "Bulga Village" monitoring location, allowing for assessment of residents have been assigned (5mm/sec and 10mm/sec).
- remaining grinding grooves, as per Section 4.3.3 of the BMP, the n-situ, and they are "not considered at risk of ground vibration or
- is a commitment to set up for road closure if fume event predicted
- re road closures have the potential to occur. ewed example of the Road Closure Checklist dated 23/9/19, which
- on issue raised is providing community with accurate road closure at hotline. Section 7.2 of the BMP does not outline the process for
- nding daily updates to CRO. Drill and Blast Notifier updates the
- re info, how to subscribe to blast text notification. Newsletters not

Condition	Requirement			Status	Evidence
	Note: To identify the historic heritage Appendix 4	sites referred to in this	condition, see the applicable figure in		
15	The Applicant shall not undertake blast (a) any public road; or (b) any land outside the site that is not • the Applicant has a written agreement allow blasting to be carried out closer to Department in writing of the terms of th • the Applicant has: - demonstrated to the satisfaction of the infrastructure or land without compromi and/or structures; and - updated the Blast Management Plant while blasting is being carried out within	owned by the Applicant, t with the applicable infra to the infrastructure or lar is agreement; or e Secretary that the blas ising the safety of people to include the specific me	unless: astructure authority or landowner to nd, and the Applicant has advised the ting can be carried out closer to the e or livestock, or damaging buildings easures that would be implemented	Complaint	During the IEA period, WML undertook blasting in the northern out of pit dam (Ne (letter to DPE dated 21/8/19). WML contacted RMS, Transgrid and DPIE to ob Transgrid and RMS approved the blasting works on 6/8/18 and 9/8/18 respec works within the road reserve for blasting purposes, consent was granted by SS Viewed Application for the use of a Council Road approval from SSC for the pu
	agement Plan				
16	The Applicant shall prepare a Blast M. Secretary, and carry out the developme	ent in accordance with th	nis plan. This plan must:		
(a)	be prepared in consultation with the EF out any development under this conser	nt;			Viewed approval letter from Secretary dated 28 Aug 2018. Viewed consultation
(b)	describe the measures that would be in operating conditions of this consent;	mplemented to ensure c	ompliance with the blasting criteria and	/ Compliant	 Appendix D of the BMP. During the IEA site visit, a discussion was held with meteorological considerations from the BMP are utilised. MTW are developing blast. During the IEA period, Transgrid requested that towers be monitored for blastir NOOP, a Blast Impact Monitoring Plan dated 6 May 2019 was developed to en including the TransGrid Powerline (included in Section 8 of the monitoring plan)
(c)	include a road closure management plan for blasting within 500 metres of a public road, that has beer prepared in consultation with the RMS and Council;				The Road Closure Management Plan is located in Appendix D of the BMP and c Road (Council own the road reserve). Viewed letter of consultation to SSC dated 26/6/19. Consultation with RMS validated through Occupancy Licenses included in Road Recommend adding statement in Road Closure Management Plan at next
(d)	include a monitoring program for evalua • compliance with the applicable criteria • avoiding any blasting impacts on the <i>I</i> • minimising the fume emissions from the fume emissions from the fume emissions from the fume emissions from the fume emission from the fume emissi	a; historic heritage items re		Compliant	 The Blast Monitoring Program is outlined in Appendix E of the BMP. Section 6 assessment criteria. A blast impact assessment on Wambo Homestead, St Phillips Church and Bulg MTW Post blast fume generation mitigation and management plan is located in prior to blasting. An internal BMP for Blast Permissions associated with the NOOP has been prior MTW has fired test shots for the NOOP in April and May 2019. Viewed monitor within limits.
AIR QUAL					
<u>Air Quality</u> 17	Criteria Except for the land in Table 1, The Ap, and mitigation measures are employ development do not cause exceedance privately owned land. Table 5: Long term impact assessment criteria for μ Pollutant Total suspended particulate (TSP) matter Particulate matter < 10 μm (PM ₁₀) Table 6: Short term impact assessment criterion for pollutant	yed so that particulate es of the criteria listed in particulate matter Averaging period Annual Annual	matter emissions generated by the		Particulate Matter (Source: Section 6.4.3.3 2017 AR, Section 6.4.2.4 2018 and 2019 AR) During 2017, 2018 and 2019, all short term and annual average results were concerning 2020 (Jan, Feb) all short-term particulate matter exceedances were detered of the AQMP the potential contributions from MTW were less than 75%. A review of data shows 59 for 2018 (16% of recordings) and 11 for 2019 (3%) PN assessment criteria. The origin and justification for the 75% is unclear. A review of the EIS (2014) A (i.e. non modelled dust sources) was utilised in the model. Against a criteria of Warkworth and other mines) or 77%. If Warkworth is required only to report contribution for other mines. Table 5.2 of the EIS AQIA shows modelled contributions from other mines w contributions at Year 3 of 9.7 kg of TSP. Of the total 39.7 kg TSP burden at acknowledged that TSP is not directly proportional to PM10. None of the above exceedances were reported as incidents which is consistent An email from the Department of Planning and Environment, dated 7/11/16 star

(NOOP) which was within 500m of Putty Road and Golden Highway bbtain relevant approvals.

ectively. Two applications were also made to SSC on 20/8/18 for SSC on 21/8/18.

purpose of Mine Blasting Road Closure dated 26/6/19.

ion letter to EPA dated 19 July 2018.

th the Dragline, Drill and Blast Superintendent who confirmed the ng a new system to improve metrological forecasting to assist with

ting near NOOP (GM pers comms). As part of development of the enable monitoring of potentially impacted infrastructure in the area n) and Ausgrid Poles (included in Section 9 of the monitoring plan). d covers Charlton, Wallaby Scrub Road, Golden Highway and Putty

bad Closure Management Plan. xt update that occupancy licences are updated annually. 6.3 of the Annual Review reports on blasting compliance with the

ulga Bridge is located in Appendix G of the BMP. in Appendix C of the BMP. Notifications to Bulga mine is completed

prepared. It includes a temporary monitor at the main powerline. toring results for the NOOP test shots at BMP locations which were

compliant with the impact assessment criteria. determined compliant as consistent with Section 7 and Appendix A

PM₁₀ measurement results exceeded the 24-hour short-term impact

AQIA at section 8 states that a background of 6.9 ug/m3 for PM10 of 30 ug/m³ this leaves 23.1 ug/m³ for modelled sources (including ort where the contribution is more than 75%, this leaves only 2%

which total 30 kg TSP at Year 3. Table 5.1 shows Warkworth's at Year 3, the other mine's contribution is 76% of the total. It is

ent with Section 7 and Appendix A of the approved AQMP.

states that the Department requires sites to only report where their on compliances, where the Mines Contribution is greater than 75% evaluation section of the AQMP will be revised with the next update

Ind

Condition	Requirement	Status	Evidence
	concentrations due to all other sources); • ^b Incremental impact (i.e. incremental increase in concentrations due to the development on its own); • ^c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and • ^d Excludes extraordinary events such as bushfire, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.		 The Warkworth TEOM (OEH operated) is located adjacent all three recept monitor be moved outside the predicted exceedance zone, or only utilised representative for the closest receivers to the north which are not predicte <u>TSP</u> (Source: Section 6.4.3.2, 2017 AR, Section 6.4.2.3 2018 and 2019 AR) There were three exceedances of the TSP annual impact assessment criteria du 2017 at Long Point HVAS, 95 µg/m³; 2018 at Long Point HVAS, 106 µg/m³; and 2019 at Warkworth HVAS, 98.6 µg/m³. Each exceedance was investigated to determine the level of contribution from M relevant criterion. There was a round horse stable at Long Point which was exped During the IEA period 15 out of 910 TSP measurements were not able to be cod frequency of every six days) due to power failure and equipment issues with the Long term assessment criteria results for 2020 (Jan, Feb and Mar) will be report <u>Deposited Dust</u> (Source: Section 6.4.2.2, 2018 and 2019 AR, Section 6.4.3.1 2017 AR) During 2017,2018 and 2019, there were four exceedance was investigated to were determined to be compliant with the relevant criterion. Monthly dust deposition rates equal to or greater than the long-term impact asset This is consistent with well below average rainfall totals recorded in 2017 (444 m Long term assessment criteria results for 2020 (Jan, Feb and Mar) will be report Deposited dust is monitored in accordance with AS3580.10.1 (2003) (Section 6.4.2.2. Recommend that if modification to SSD 6464 is sought, amend (a) "total in the term and the term intervent exceeding in the term intervent exceeding ending in the term intervent exceeding in the term int
Mine owned	d Land		PM ₁₀ 24 hr consistent with other NSW coal mine consent conditions
18	The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria listed in Tables 5, 6 and 7 at any occupied residence on mine-owned land (including land owned by another mining or petroleum company, unless and to the extent that:		
(a)	the tenant and landowner by another mining or petroleum company) have been notified of any health risks associated with such exceedances in accordance with the notification requirements under schedule 4 of this consent;	Compliant	Viewed Tenancy Agreement letter to Wambo Mine dated 17/12/15 requesting tenants. Recommend that tenant and landowner or mine owned land be re-notified accordance with the notification requirements under schedule 4 of this cor
(b)	the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice and cause;	Compliant	Viewed Residential Tenancy Agreement dated 3/4/20 for property (ID 1 Wambo tenants can vacate any time.
(c)	air quality monitoring is regularly undertaken to inform the tenant or landowner (if the residence is owned by another mining or gas company) of the particulate emissions at the residence; and	Compliant	MTW's TEOM's are located in positions that are representative of privately owned representative of occupied residences on mine owned land. The particulate errenvironmental monitoring reports. All HVAS and TEOM results were compliar Management Plan. Recommended that this existing network's results be use available should a regulator, tenant or landholder request this data.
(d)	date from this monitoring is presented to the tenant and landowner in an appropriate format for a medical practitioner to assist the tenant and landowner in making informed decisions on the health risks associated with occupying the property.		See response to Sch 3 Cond 18(c)
Operating of			
<u>19</u> (a)	The Applicant shall: implement all reasonable and feasible measures to minimise the: • odour, fume and dust emissions of the development; and • release of greenhouse gas emissions from the development;	Compliant	 As per the approved AQMP, in order to mitigate potential impacts from dust gene minimising disturbed areas, use of correct handling of materials, imposing spee conditions (as discussed in Sch 3 Cond 14), design of the CHPP, truck actival sprays (Plate 7), water sprays on haul roads (Plate 8) and proactive measure di During topsoil stripping, and as committed to the AQMP, the Projects Team of significant dust lift occurs (GM, pers comms). In 2019, MTW undertook a \$200k upgrade on suppression sprays, a further \$500 Additionally, and as per committed to in the AQMP, rehabilitation of the following road and South Pit Ramp (MTW-IEA 2020 RFI36 Rehab of Obsolete Roads, E term stockpiles have been re-vegetated (MTW-IEA 2020 RFI18 Rehab and Vis 2020), In 2017 and 2018, an aerial seeding programme was undertaken to reduce airbo The area (as shown in Figure 12 of the 2018 AR) was seeded using an exotic starter fertiliser was mixed with the seed prior to loading to provide sufficient nutrie 2017 AR) Mobile plant is regularly serviced as discussed in Sch 2 Cond 13. During the IEA period, the EPA requested specific information in relation to dust relation to dust: 80 complaints in 2017,

eptors mentioned above. As such, we recommend that the ed for internal monitoring and another monitor be utilised as sted to be impacted above criteria.

during 2017,2018 and 2019:

MTW activities and all were determined to be compliant with the proceed be causing the exceedance.

collected on the scheduled sampling date (based on a sampling ne monitors.

orted in the 2020 Annual Review.

assessment criteria. 2017 at the DW20A and Warkworth Monitors; to determine the level of contribution from MTW activities and all

sessment criteria of 4g/m2/month were recorded at multiple sites. 4 mm), 2018 (457 mm) and 2019 (304 mm). 5 orted in the 2020 Annual Review. 6.4.2.2, 2019 AR) 6 **impact** criteria of 50 ug/m2 to (b) "incremental impact" for

ng tenant notification. No evidence that Wambo has notified the

ied of any health risks associated with such exceedances in consent; at least 5 yearly (i.e. 2020).

nbo Rd Bulga) which outlines mining impacts and agreement that

ned properties. MTW also has HVAS monitors that are considered emissions as recorded by the HVAS are provided in the monthly ant during the audit period, as per MTW's approved Air Quality e utilised to calculate results for the closest tenant so that to

nerating activities, MTW implement a number of controls including beed limits on roads (see **Plate 6**), conducting blast in favourable vated sprays on ROM coal stockpiles, transfer and rotor breaker discussed in part b of this condition.

n organise dust suppression options to increase soil moisture if

500k in capital is required to complete the works (JB pers comms). ing obsolete roads has occurred during the audit period: CD Haul , Environmental Specialist Rehabilitation, 8 May 2020), and long-Visual Screening, Environmental Specialist Rehabilitation, 8 May

borne dust from inactive waste dumps and ahead of mining areas. tic pasture grass and legume mix suitable for autumn sowing. A trients for plant growth". (Section 6.4.1.2 2018 AR, Section 6.4.2.2,

ust control and the following community complaints were made in

Condition	Requirement	Status	Evidence
			 76 complaints in 2018 146 complaints in 2019
			 Ten complaints in Q1 2020 (Jan only)
			During the site inspection, spontaneous combustion was sighted in Loders Pit (
			details in shift report. Viewed OCE shift report for 28 April 20 describing spon of
			discussed during the Mine Services Technical Discussion, Spontaneous combus
(1.)			to Mine Safety. Reporting in the Annual Review would be in relation to Mine Sa
(b)	operate a comprehensive air quality management system that uses a combination of predictive meteorological forecasting and real- time air quality monitoring data to guide the day to day planning of	Compliant	The air quality management system uses Real Time PM10 monitors that contin generating internal alerts when particulate matter levels exceed internal trigger li
	mining operations and the implementation of both proactive and reactive air quality mitigation measures		comms).
	to ensure compliance with the relevant conditions of this consent;		In Q1 2020, the Wambo Road TEOM was replaced and moved to a repres
			Environmental Report). The new location is representative of the nearest private
			mine advancement to the west). The location also reduces the need for contract
			(Feb 2020, CCC Minutes). This relocation of the TEOM was submitted to D
			Management Plan and was subsequently approved by DPIE on 28 August 2019 Pre-start inspections include dust predictions and a daily .ppt is distributed to M
			pers comms). The hourly delays are entered into Minview and OCEs keeps a d
			MTW also utilise CRO's to undertake proactive and reactive dust monitoring. The
			As discussed in Sch 3 Cond 6 The CRO, OCE, shift coordinator and drill blast t
			If dust / noise risk high, operational controls required (orange or red cell) and add showing inversions and verified on-site.
			Data and response entered into software "Insight".
			Viewed examples of DustTrak, Met Station and TEOM calibration certificates. Th
			operated by OEH, as part of the industry funded Upper Hunter Air Quality Me
			available upon request. MTW have a direct data feed to these TEOM's.
(c)	minimise the air quality impacts of the development during adverse meteorological conditions and	Compliant	There were 43 alerts for adverse meteorological conditions in December 2019. additional management. As reported in the Dec MEMR, there was 4900 hours
	extraordinary events (see note d to Tables 5-7 above); and		to record and categorise for dust, noise or other.
(d)	co-ordinate the air quality management on site with the air quality management at nearby mines	Compliant	This condition is managed in response to a complaint and documented as a cor
()	(including the Mt Thorley, Bulga, Wambo and Hunter Valley Operations mines) to minimise any		MTW share data with HVO and Bulga mine if there is a power outage or equip
	cumulative air quality impacts		sharing dust data with Glencore.
			Viewed email from E&C Coordinator to Wambo Mine, showing photos of dust ov Recommend process to co-ordinate the air quality management on site w
			the Mt Thorley, Bulga, Wambo and Hunter Valley Operations mines) to mi
			each operation in next revision to AQMP as per condition Sch 3 Cond 20f
	/ Management Plan		
20	The Applicant shall prepare a detailed Air Quality Management Plan for the development to the satisfaction of the Secretary, and carry out the development in accordance with this plan. This plan		
	must:		
(a)	be prepared in consultation with the EPA, and be submitted to the Secretary for Approval prior to	Compliant	Viewed approval letter from Secretary dated 28 Aug 2018. Appendix C of the approved the secretary dated 28 Aug 2018.
(1.)	carrying out any development under this consent;		
(b)	describe the measures that would be implemented to ensure compliance with the relevant air quality criteria and operating conditions of this consent;	Compliant	Section 5 and 6 of the AQMP describes management and mitigation measures 19).
(c)	describe the project air quality management system;	Compliant	Section 5 and 6 of the AQMP
(d)	include provisions for keeping the local community informed about the operation of the air quality	Compliant	Section 8 of the AQMP
	management system and monitoring programs, including regular briefings and a public information		
	session within 6 months of the granting of this development consent;		
(e)	include an air quality monitoring program that:	Compliant	Section 7 and Appendix A of the AQMP describes the air quality monitoring prog
	 adequately supports the proactive and reactive air quality management system; 		Air quality results are reported in Table 6.13 of the AR and compared to the Yea The exceedances identified in Sch 3 Cond 17, were reported in MEMR and an e
	• evaluates and reports on:		As per Section 7 and Appendix A of the AQMP, MTW is considered non-compli
	evaluates and reports on: the effectiveness of the air quality management system; and		AS DEL SECTION / AND ADDENDIX A OF THE AQIVIE. IN TWIS CONSIDERED NOT-COMDIN
	 evaluates and reports on: the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and 		
	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying 		matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3
	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and 		matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment
	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying 		matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment dust concentration (as measured by Depositional Dust gauges), (excluding conta
	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying 		matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment dust concentration (as measured by Depositional Dust gauges), (excluding conta annual average criterion, or the maximum allowable increase in deposited dust
(f)	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying 	Compliant	 matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment dust concentration (as measured by Depositional Dust gauges), (excluding conta annual average criterion, or the maximum allowable increase in deposited dust WML or MTO. Section 3.2 of the AQMP states that neighbouring mines were consulted to cre
(f)	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents; and include a protocol that has been prepared in consultation with the owners of nearby mines (including the Mt Thorley, Bulga, Wambo and Hunter Valley Operations) to minimise the cumulative air quality 	Compliant	 matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment dust concentration (as measured by Depositional Dust gauges), (excluding conta annual average criterion, or the maximum allowable increase in deposited dust WML or MTO. Section 3.2 of the AQMP states that neighbouring mines were consulted to creat documented within the AQMP (although included internally in the CROs work)
(f)	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents; and include a protocol that has been prepared in consultation with the owners of nearby mines (including 	Compliant	 matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment of dust concentration (as measured by Depositional Dust gauges), (excluding conta annual average criterion, or the maximum allowable increase in deposited dust WML or MTO. Section 3.2 of the AQMP states that neighbouring mines were consulted to creat documented within the AQMP (although included internally in the CROs work with HVO and Bulga mines to control dust.
	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents; and include a protocol that has been prepared in consultation with the owners of nearby mines (including the Mt Thorley, Bulga, Wambo and Hunter Valley Operations) to minimise the cumulative air quality impacts of these mines and the development. 	Compliant	 matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment of dust concentration (as measured by Depositional Dust gauges), (excluding conta annual average criterion, or the maximum allowable increase in deposited dust WML or MTO. Section 3.2 of the AQMP states that neighbouring mines were consulted to credit documented within the AQMP (although included internally in the CROs work with HVO and Bulga mines to control dust.
METEORO	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents; and include a protocol that has been prepared in consultation with the owners of nearby mines (including the Mt Thorley, Bulga, Wambo and Hunter Valley Operations) to minimise the cumulative air quality impacts of these mines and the development. 		 matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment of dust concentration (as measured by Depositional Dust gauges), (excluding contational average criterion, or the maximum allowable increase in deposited dust WML or MTO. Section 3.2 of the AQMP states that neighbouring mines were consulted to creation documented within the AQMP (although included internally in the CROs work with HVO and Bulga mines to control dust. Recommend protocols to minimise the cumulative air quality with neighbouring mines
	 the effectiveness of the air quality management system; and compliance against the air quality operating conditions; and defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents; and include a protocol that has been prepared in consultation with the owners of nearby mines (including the Mt Thorley, Bulga, Wambo and Hunter Valley Operations) to minimise the cumulative air quality impacts of these mines and the development. 	Compliant Compliant	 matter when investigation into a measured PM10 exceedance determines W contribution of >75%) to the measured result. See recommendations at Sch 3 MTW will be considered non-compliant with the long term impact assessment of dust concentration (as measured by Depositional Dust gauges), (excluding conta annual average criterion, or the maximum allowable increase in deposited dust WML or MTO. Section 3.2 of the AQMP states that neighbouring mines were consulted to creat documented within the AQMP (although included internally in the CROs work)

t (**Plate 2**). Spontaneous combustion is reported to the OCE who a com, plan to monitor and cap when clay becomes available. As ustion is managed through a Hazard and Control Plan and reported Safety Reporting.

tinuously log information and transmit data to a central database, limits. The MTW TEOMS have been recently upgraded (GM pers

esentative location west of Wollombi Brook (Jan 2020, Monthly ately owned receptor, and is further from the active mine area (with actors to access the Southern Biodiversity Area given fire risk etc. DPIE on 31 July 2019 during an update to the MTW Air Quality 19 (Jan 2020, Monthly Environmental Report).

Mine Planning, CROs, Mine Manager, Tech Services, OCEs (GM diary.

The role of the CROs is discussed in Sch 3 Cond 6.

t team receives daily met forecast e.g daily dust alert (wind, rain). dditional management required. A weather report is also delivered

The Warkworth OEH and Bulga OEH TEOM's are maintained and Monitoring Network. Certificates for these TEOM's can be made

9. Viewed dust summary showing red alerts. Red alerts require rs of equipment downtime logged. **Recommend this is updated**

omplaint / trigger (GM pers comms). ipment being repaired. Viewed email dated 9/11/16 in relation to

over North Pit with the air quality management at nearby mines (including minimise any cumulative air quality impacts is formalised for

minimise any cumulative air quality impacts is formalised for If below.

approved AQMP includes consultation with the EPA.

es to ensure compliance with criteria (as discussed in Sch 3 Cond

rogram.

ear 3 Mine Plan (Warkworth EIS).

external consultant reviewed.

bliant with the short term impact assessment criteria for particulate WML or MTO to have been a significant contributor (estimated **3 Cond 17.**

nt criteria for deposited dust where the annual average deposited ntaminated gauges and extraordinary events) exceeds the relevant st criterion, and the non-compliant result is attributable to either of

reate communications protocol however these **protocols are not** rk instruction). As discussed in Sch 3 Cond 19d, MTW share data

bouring mines is documented within the AQMP.

ical (weather) station which is located on Charlton Ridge. The nidity, solar radiation, rainfall, and sigma theta. The meteorological elevant Australian Standard AS 3580.14 (2011)."

Condition	Requirement	Status	Evidence
			"A new meteorological station has been installed at North Warkworth, and is be and comparison has occurred, the wind speed and direction data from the met s is intended to assist the Drill and Blast team with decisions regarding firing bla relevant site personnel by providing better visibility of the variability in rainfall red
(a)	complies with the requirement in the Approved Methods for Sampling of Air Pollutant in New South Wales guidelines; and	Compliant	Viewed Benchmark Monitoring calibration certificate dated 2/4/20 which states "Methods for sampling and analysis of ambient air Meteorological monitoring for cycle is 6 monthly.
(b)	is capable of continuous real-time measurement of temperature inversions in accordance with the NSW Industrial Noise Policy, unless a suitable alternative is approved by the Secretary following consultation with the EPA.		Viewed Section 2.4 of Global Acoustic's Attended Environmental Noise Monitor was obtained from Charlton Ridge automatic weather station which allowed com The met station measures the standard deviation of wind direction, from which NSW Industrial Noise Policy ('MTW June 2020 Evidence Spreadsheet')The Ch updated by the sites monitoring contractor so that stability class is calculated co
WATER			
Water Supp	ly The Applicant shall ensure that is has sufficient water for all stages of the development, and if necessary,	Compliant	Hunter River Take
	adjust the scale of mining operations to match its available water supply. Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licenses for the development.		 Table 17.3 of the Warkworth EIS predicted 1,251 ML take at year 0, 1,807 ML ta Viewed minutes for MTW Monthly Water Management Meeting dated 20/4/20.1 from a River Allocation of 1,801ML (to 30 June 2020). In Dec 2019, MTW purchased a number of high security licences via the market SSC has operated a joint venture system on the Hunter River since 10/12/81. St Hunter River. MTW has a share of the water allocation licence of the joint ventur This arrangement does not include sharing with surrounding mines. As per Table 3.6 of the 2019 AR, MTW hold four Water Access Licences (WAL: Sharing Plan (WSP). The total water allocation under these licences is 3,257 ML (WAL43056) and 5ML (WAL10544). This comprises how much water has been th As MTW does not have its own pump station water is temporarily traded into the Lemington Underground (HVO) Take Table 17.3 of the Warkworth EIS does not include this take. Condition 25 facilities The LUG Bore Water Licence Status was 1,362ML extracted from an allocation of Licence to reset July 2020. Water licence accounting is responsibility of HVO. Groundwater Take Table 17.3. Key findings from the independent groundwater report summarised in the Annual • North Coast Fractured and Porous Rock – 270 ML (2019). As per table 3.6 of the 2019 AR, MTW holds two WALs for the North Coast Fractured and Porous Rock – 270 ML (2019). WaL40465, previously 20BL170012, 750ML.
			 Alluvial Take As predicted in the Warkworth EIS (Section 16.3.2), there would be a maximum 68 ML/year from the Hunter River Alluvium. Key findings from the independent groundwater report summarised in the Annual • Hunter Regulated – 1,597.5 ML (2019); and • Hunter Unregulated – 11 ML (2019). It is unclear what maximum Hunter Regulated and Unregulated takes for Wollon period. MTW holds one licence for the Hunter River Alluvium under the Hunter Unregulation of 60ML. It holds another licence for the Wollombi Brook under 50ML. Both are less than EIS predictions. MTW also hold another WAL under for the Unregulated River under the Hunter a licence allocation of 60ML. Harvestable Use Rights As per Section 5.5 of the WMP, "The MTW contiguous land holdings for the I catchment and 2,667 ha in the Wollombi Brook water Sources respectively". The WMP states "Dams solely for the capture, containment and recirculation of to prevent the contamination of a water source are "excluded works" and are ex and WALs under the Water Management Act 2000. On this basis, water capture of rainfall runoff from undisturbed natural catchments, is not subject to licensing.

being integrated into MTW's systems. Once sufficient data review t station will be tested with the sites blast permissions pages. This blasts. The rainfall data from the new met station will also assist received across the site." (Feb 2020, CCC Presentation). es that Charlton Ridge monitor complies with AS 3580. 14-2011

for ambient air quality monitoring applications". The maintenance

itoring Report dated Feb 2020 which states "meteorological data prrelation of atmospheric parameters and measured noise levels". h a stability class can then be determined, in accordance with the Charlton Ridge meteorological station datalogger program will be continuously.

take at Year 3 and 1,720 ML at Year 9. D. The Hunter River Water Licence Status was 1,470ML extracted

tet mechanism for future requirements. SSC operate the system and charge MTW for water take from the ture, and if MTW reach allocation they can transfer other water in.

ALs) for the Hunter River under the Hunter Regulated River Water IL consisting of 243ML (WAL963), 1,009ML (WAL10543), 2,000ML transferred into the Council WAL for the reporting period by MTW. he MTJV WAL as required from its other holdings.

lities take of water from HVO. o of 1,800ML (MTW Monthly Water Management Meeting 20/4/20).

ndwater take of 187 ML take at year 0, 10 ML take at Year 3 (2023)

ake of 736 ML/year from the Permian strata. This is inconsistent

ual Review (2019) state take of:

Fractured and Porous Rock under the Sydney Basin North Coast L, consisting of (WAL40464, previously 20BL170011, 180ML) and

um water take from the Wollombi Brook Alluvium of 124 ML/year,

ual Review (2019) state take of:

ombi Brook and Hunter River Alluvium occurred in the audit

ulated and Alluvial Water Sources WSP (WAL18233) with a der the same WSP, WAL18558, with a licence allocation of

er Unregulated and Alluvial Water Sources WSP, WAL19022, with

e harvestable rights calculation are 4,007 ha in the Hunter River ght of 0.07ML/year, this equates to a volume of 280ML and 187ML

of mine affected water consistent with best management practice exempt from the requirement for water supply works approvals ured in the site water management structures, with the exception a."

Condition	Requirement	Status	Evidence
			Recommend Annual Review clearly state for each category what the Wark calculated impact from the project and confirmation of licences held for tha at condition 27 should be updated cognisant of actual data.
Compensat	tory Water Supply		
23	The Applicant shall provide a compensatory water supply to the owner of any privately-owned land whose basic landholder water rights as defined in the Water Management Act 2000 are adversely and directly impacted as a result of the development. This supply must be provided in consultation with NOW, 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 attributable to the development. Equivalent water supply should be provided (at least on an interim basis) as soon as practicable from the loss being identified, unless otherwise agreed with the landowner. If the Applicant 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 Applicant is unable to provide an alternative long-term supply of water, the Applicant shall provide alternative compensation to the satisfaction of the Secretary. Note: The Water Management Plan (see condition 25) is required to include trigger levels for investigation potentially adverse impacts on water supplies.		There were ten-privately owned groundwater bores identified in the Warkworth E EIS predicted that water levels at all privately owned water supply bores would n No basic landholder rights were identified as impacted during the audit period (C
Water Disc	harges		
24	Unless an EPL or the EPA authorises otherwise, the Applicant shall ensure that all surface water discharges from the site comply with the:		
(a)	discharge limits (both volume and quality) set for the development in any EPL; and	Not Triggered	 MTW maintains two licenced HRSTS discharge monitoring locations: Dam 1N, located at WML North, which discharges to Doctor's Creek Dam 9S, located at MTO South, which discharges to Loders Creek. MTW did not discharge in 2017, 2018 or 2019 (Section 7.2.3 2017 AR, Section 1)
(b)	relevant provisions of the POEO Act or Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002	Not Triggered	No discharge, see response to part a.
	Note: For the avoidance of doubt, it is noted that the EPA will determine the cumulative allowable salinity discharges to the Hunter River catchment, according to rules of the Hunter River Salinity Trading Scheme and the respective quantities of tradeable salinity credits held by participants in the scheme (including the Bulga mine and other nearby mining operations).		
Water Tran	sfers		
25	The Applicant may receive water from, and transfer water to, the Mt Thorley mine, Hunter Valley Operations mine, Bulga mine and Redbank Power Station.	Complaint	Water is transferred between Mt Thorley and Warkworth, and Warkworth and H Redbank Power Station is not operating and no water was transferred to Bulga In 2017, 2018 and 2019 there was 4,139ML imported from the LUG Bore (Lemin There was also 215ML outputted to another mine in 2018. The Annual Review does stipulate which mine the water was transferred to.

arkworth EIS prediction was (if none, state so), then the annual that volume, where required. The water balance recommended

h EIS (Section 16.2.5). The modelling undertaken for the Warkworth Ild reduce by less than 2m. d (GM pers comms).

on 6.7.2.2 2018 and 2019 AR) or during 2020 (GM pers comms).

d HVO. Figures are reported in the Annual Review Iga Mine in the audit period. emington Underground Bore located at HVO).

Requirement	2011/20	Status	Evidence
	ply with the performance measures in Table 8 to the satisfaction of the	Not Compliant	The WMP quotes this table and states that its requirements are addressed in Water management includes clean water, catch drains and sediment drains observed in the site inspection. Clean water is diverted around the site (as far
Table 8: Water management	performance measures		MTW have not discharged during the IEA period. Mine water is used for the ope
Feature	Performance Measure		Three sediment basins and associated diversion drains were constructed in 20 employed within the pre-strip areas and designed in accordance with Blue Book
Water management – General	Minimise the use of clean water (i.e. water not in contact with disturbed areas) on site Minimise the need for make-up water from external supplies (apart		testing" which confirms water management procedures adhered to at MTW. The area is located within the sites clean water catchmentit is noted that clean w
	from permissible mine water transfers) Maximise the use of mine water		these areas and care must be taken to ensure drains not obstructed no ground area without an endorses ESCP".
Construction and operation of infrastructure	Design, install and maintain erosion and sediment controls generally in accordance with the series Managing Urban Stormwater: Soils and Construction including Volume 1, Volume 2A – Installation of Services and Volume 2C – Unsealed Roads		The previous IEA recommended that MTW determine the Probable Maximum 500mm freeboard. Viewed email from Darren Lyons dated 17/10/18 confirming The overburden emplacements and tailings storage facilities were reviewed durin sighted in the inspection to suggest any non-compliance.
	Design, install and maintain the infrastructure within 40 m of watercourses generally in accordance with the <i>Guidelines for Controlled Activities on Waterfront Land (DPI 2007)</i> , or its latest version		No evidence of unbunded hydrocarbons or other environmentally harmful chemi During the IEA period, there were two incidents, which incurred MTW three management. There have been no community complaints (Section 8.1, 2019 A 1. <u>4 December 2017 Water Incident Stormwater had pooled across a light veh</u>
	Version Design, install and maintain any creek crossings generally in accordance with the Policy and Guidelines for Fish Habitat Conservation and Management (DPI, 2013) and Why Do Fish Need To Cross The Road? Fish Passage Requirements for Waterway Crossings (NSW Fisheries 2003), or their latest versions		intending the water to report to a sediment dam via a contour drain. The co- under Wallaby Scrub Road and contained in a farm dam and gully on mine recovered (Section 11.1, 2017 AR). EPA, DP&E and DRG were notified an in May 2018 for breach of Condition 0.1.1 of EPL 1376 (Section 11.1, 2017
Clean water diversion & storage infrastructure	Design, install and maintain the clean water system to capture and convey the 100 year ARI flood Maximise as far as reasonable and feasible the diversion of clean water around disturbed areas on site		 of the incident was a communications issue, as there was no prior contact communications on this issue and penalty notice to share learnings on this (GM per comms). <u>30 March 2019 Water Discharge Incident</u> Discharge from two boundary da greater than design rainfall event. A total of 52mm of rainfall was recorded received <u>two Penalty Notices</u> for the water discharge incident dated 30 M the EPA in September 2019. One penalty notice was issued by the EPA for issued by DPIE for a breach of the Warkworth Development Consent". (Se management plan and undertook the actions in AR table 10.1 including ins camera monitoring system which relays information to pumping crew and E emptive planning includes pre-pumping. Regular pump inspections undert sediment dam has also been reclassified in the WMP to a mine dam water area to prevent the issue re-occurring. Final design due in 2020.
Sediment dams	Sediment damsDesign, install and maintain the dams generally in accordance with the series Managing Urban Stormwater: Soils and Construction – Volume 1 and Volume 2E Mines and QuarriesMine water storagesDesign, install and maintain mine water storage infrastructure to ensure no unlicensed or uncontrolled discharge of mine water off-site (except in accordance with condition 20) On-site storages (including mine infrastructure dams and treatment dams) are suitably designed, installed and maintained to minimise permeability		
Mine water storages			
Flood mitigation measures	Maintain adequate freeboard within the pit void at all times to minimise the risk of discharge to surface waters Design, install and maintain flood mitigation measures along the		Additionally, the overtopping of surface water from two sedimentation dams (Dar event. Viewed letter from WML dated 17/2/10 outlining incident details, inciden incident.
r loou miligation measures	western side of the development, to ensure there is adequate freeboard (at least 500mm) between the Probable Maximum Flood level in Wollombi Brook and the crest levee or peak of the flood mitigation infrastructure Residual impacts downstream must be managed in an appropriate manner	adequate Note - The 2017 II um Flood regulatory investigation the flood in the Land and En ppropriate 7.3.4 2017 AR). In	Note - The 2017 IEA identified a non-compliance in "relation to uncontrolled or regulatory investigation into unauthorised release of water from a failure in a dar in the Land and Environment Court during the 2017 reporting period. MTW was the breach of license conditions. Resulting actions in response to the incident ind 7.3.4 2017 AR). In response, MTW updated the dam construction standards. Future Works
Overburden emplacements	Design, install and maintain emplacements to encapsulate and prevent migration of tailings, acid forming and potentially acid forming materials, and saline and sodic material		North Out of Pit Dam (NOOP) works will commence in Q2 2020 to provide impro Recommend to implement continuous improvement practices with the ain improvements.
	Design, install and maintain emplacements to prevent offsite migration pf saline groundwater seepage		
Chemical and hydrocarbon storage	Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standards	-	
agement Plan			
The Applicant shall prepa	re a Water Management Plan for the development to the satisfaction of the		
	he development in accordance with this plan. The plan must:		
prior to carrying out any d	on with the EPA, NOW and OEH and submitted to the Secretary for approval evelopment under this consent; and	Compliant	Evidence of consultation provided in Appendix A of the WMP. WMP approved b
in addition to the standard include a:	I requirements for management plans (see condition 3 of schedule 5),		
	t: water supply, including contingency planning for future reporting periods; nent on site, including details of water sharing between neighbouring mining	Compliant	Section 6 of the WMP The site water balance model has not been updated since late 2015, how Management Meeting minutes dated 20/4/20). This should be completed and

Sections 5.2, 7.4.2 and 8.3.

- for pre-strip areas. The segregation of clean and dirty water was as reasonable and feasible).
- pperation. 2018 (see **Plates 11**). Erosion and sediment controls have been bok (GM pers comms). Viewed GDP for "WML sediment dam geo The GDP specifically states "A formal ESCP will be required as the in water diversion drains are required to be crossed for access into and disturbance to be undertaken within any clean water catchment
- um Flood (PMF) RL at the Charlton Levee and ensure there is a ng flood levee is 70.5m AHD and PMF is 70.0. luring the site inspection. Design was discussed. No evidence was
- emicals were noted during the site inspection (see **Plate 4**) ee penalty notices and one caution issued in relation to water (AR).
- vehicle gravel road. An operator opened a hole in the windrow contour drain overtopped and the water reported through a culvert ne owned land within the EPL boundary. All water (23KL) was and MTW received a **Penalty Notice from the EPA**
- 17 AR). This incident was discussed during the IEA. The cause ct with the environmental department. MTW undertook a site-wide his water management regulatory action to prevent reoccurrence
- dams at Warkworth (Dam 46N and Dam 53N) as a result of a ed on the day of the incident (Section 10, 2019 AR) "WML March 2019 during August 2019 **and an official caution from** for a breach of EPL 1376 and a second Penalty Notice was Section 10, 2019 AR). In response, MTW updated the water Installation of two additional manual pumping units (**Plate 10**), d Environmental Department. If heavy rainfall predicted, preertaken, viewed example inspection checklist dated 17/1/20. The er. Earth works regrade may be required at North Pit Crib park up
- Dam 50N and Dam 53N) occurred on 9 /2/20 as a result of a rainfall dent notifications to regulators and actions taken as a result of the
- d discharge of sediment water from site on 6th January 2016. A dam wall located at MTW on 6th January 2016 was also concluded as ordered to pay a penalty of \$50,000 plus investigation costs for indicated no further action necessary to satisfy the finding" (Section
- proved water security / balance position at MTW. aim to avoid any water management incidents and implement

d by DPE in letter dated 20/9/18.

nowever WRM has commenced an update (MTW Monthly Water nd validated with onsite results in the next audit period. Section

Condition	Requirement	Status	Evidence
	operations; - any off-site water transfers and discharges; - reporting procedures, including the preparation of a site water balance for each calendar year; and		6.5 of the WMP, states that the site water balance will be reviewed annually, we performance is presented in Section 6.7.2 of the AR.
	 investigates and implements all reasonable and feasible measures to minimise water use on site; 		
	 (ii) Surface Water Management Plan, that includes: • detailed baseline data on surface water flows and quality in the watercourses that could potentially be affected by the development; • a detailed description of the water management system on site, including the: • clean water diversion systems; • erosion and sediment controls (mine water system); and • mine water management systems including irrigation areas; • detailed plans, including design objectives and performance criteria, for: • design and management of final voids; • design and management of the emplacement of coal reject materials; • reinstatement of drainage lines on the rehabilitated areas of the site; and • control of any potential water pollution from the rehabilitated areas of the site; • performance criteria for the following, including trigger levels for investigating any potentially adverse impacts associated with the development: • surface water quality of Loaders Creek; and • channel stability, stream and riparian vegetation health of Loaders Creek; • a program to monitor and report on: • the effectiveness of the mine water management system; and • surface water flows and quality, stream and riparian vegetation health in Loaders Creek potentially affected by the development; • a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the development; 	Compliant	 Section 6, 7 and 9 of the WMP. Routine surface water monitoring was undertaken from 21 sites in 2017 (Section Due to well below average rainfall only two sampling runs were completed in ead Water quality in all years was evaluated through the assessment of pH, electrica There are three surface water monitoring sites with elevated results: W28 Wallaby Scrub – pH trend has decreased since 2016 (See Figure 26, 1 ANZECC criteria trigger limit in 2017 and 2019. Results presented in in ME W5 Loders Creek - exceeded the EC 95th and pH 5th percentile criteria trigg pH) (see results in Table 28 of the 2017 AR). W5 also exceeded the TSS A Section 6.7.4 of the Annual Review). MTW undertook an investigation into t reporting period (Section 6.7.4 2019 AR). The investigation concluded that i methodology at this location as samples were taken from a shallow pooled slightly downstream of this location to avoid this issue. Wollombi Brook – multiple exceedances of EC in all years. "It is expected t conditions with minimal flow recorded within Wollombi Brook during the rep 2019 AR). MTW does not discharge to Wollombi Brook, the Wollombi Brook Upstream - multiple exceedances of EC and pH in all years. There is an annual Stream Health and Channel Stability programme to monitor a Creek and Wollombi Brook. The 2019 Report prepared by SLR concluded tha vulnerable to further erosion with areas of significant erosion observedThe points on Loder Creek were classified as poor and average It is recommende mitigation measures and/or improvement works are required at the monitoring pp There was no evidence at this IEA that the SLR recommendations contain report have been progressed. This should be documented and progressed During 2018, MTW undertook creek stability improvements works at the HRST stability (Section 6.7.4.1, 2018 AR). (See Plate 13) Further, electrical conductivity showed an increasing trend during 2017 in inter weather conditions that resulted in evap
	 (iii) Groundwater Management Plan, which includes: detailed baseline data on groundwater levels, yield and quality in the region, and privately-owned groundwater bores, that could be affected by the development; groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts; a program to monitor and report on: groundwater inflows to the open cut pits; the seepage/leachate from water storages, emplacements. backfilled voids, and final voids; the impacts of the development on: o regional and local (including alluvial) aquifers; o groundwater dependent ecosystems and riparian vegetation; o base flows to Loders Creek; a plan to respond to any exceedances of the groundwater assessment criteria; and a program to validate the groundwater model for the development. including an independent review of the model with every independent environmental audit, and compare the monitoring results with modelled predictions. 	Compliant	 Section 8 and 9 of the WMP detail the baseline data and assessment criteria re Appendix C of the WMP. In accordance with this condition, the WMP includes requirements to review monitoring results with modelled predictions. The original numerical model was An independent review of the model was conducted in the 2019 and reported in Pty Ltd (Appendix 4 of the 2019 AR). As part of this review, SLR recommender The required works are outlined in Section 6.5 of the 2019 Annual GW Review. is not yet complete (WC pers comms). Additionally, the results of the Annual GW Review are discussed as follows: MTW changed its sampling methodology during the 2019 reporting period for recommended that a review of the trigger be undertaken in light of the revise. Further investigation into the ground conditions, bore construction and logg. Grab samples have been taken for monitoring bores WOH1239A, WOH214 WD622P, MBW02 and MBW03 within the network. This approach is not in I representative water quality sample. The justification for this methodology stull purge or low flow) can be applied. A review into the requirement of these should be undertaken. If it is found that the continued collection of water qu methods cannot be adopted, then bore rectification works should be consid Recommend that the above-mentioned recommendations are actioned and During the IEA, the bores within the Bayswater Seam and Blakefield Seam were Bayswater Seam Bores Bore GW98MTCL2 has been consistently below the pH – 5th percentile Trig results at this bore are not discussed in the 2019 Annual Groundwater Review specific investigation if professional judgement determines that a developing the the next Annual Groundwater Review, bore GW98MTCL2 is reviewed and ot Blakefield Seam Bores

with the results to be presented in the AR. The water balance

ion 7.3.2 AR) and 12 sites in 2018 and 2019 (Section 6.7.4 AR). each year.

cal conductivity and total suspended solids.

5, 2019 AR) and exceeded the pH 5th percentile and TSS IEMR.

gger limit multiple times in 2017 (3 times for EC and 6 time for S ANZECC criteria trigger limit four times in 2018 and 2019 (see o the elevated TSS readings at W5 (Loder Creek) during the at the elevated results were most likely attributed to the sampling ed section on the creek bed. This sampling location was moved

d that the readings were a result of the prolonged dry climatic eporting period and not related to mining impacts" (Section 6.7.4 bok is located on the west site of the mining areas, the discharge

ars. See response to Wollombi Brook.

r and report on the stream and riparian vegetation health in Loders hat "some sections of Loder Creek are currently eroding and are e RARC stream health assessment identified that the monitoring ded that MTW adopt a risk based approach to determine whether points where erosion was observed."

ained within the annual Stream Health and Channel Stability sed.

STS discharge location to improve the stream health and channel

ternal mine water Dams 6S and 9S which was attributed to drier er, combined with reduced fresh-water inputs from rainfall runoff inued to increase in these two dams and is approximately 1,000 50% capacity (MTW Monthly Water Management Meeting dated SOOP which was viewed during the IEA.

As per the Surface Water Monitoring Program, Dam 9s is required for a Comprehensive Analysis. Results are presented un Figures

respectively. The groundwater monitoring program is provided in

ew the numerical groundwater model every 3 years comparing as developed in 2014 and updated in 2015.

in the Annual Groundwater Review conducted by SLR Consulting aded further works be undertaken to refine the model predictions. w. The review of recommendations and action plan development

d following recommendations in the 2018 review. It is vised sampling methodology.

ggers at PZ7S and PZ7D is recommended.

141A, WOH2153A, WOH1254A, WOH2155A, WOH2156A,

n line with industry standards and may not provide a

y should be reviewed to determine if more suitable methods (i.e. ese bores for the collection of water quality data for the WMP quality data is required from a bore and suitable sampling sidered.

Id also those included in Section 7.2 of the Annual GW Review. ere reviewed and results discussed below.

rigger Limit during the audit period (Figure 33, 2019 AR). The ew. The WMP (Section 9.2) states that MTW will initiate a site-trend could result in environmental harm. It is recommended at discussed in the AR.

tion R	Requiremen	nt						Status	Evidence
									pH values for WOH2139A exceeded the pH 95th percentile trigger limit almo 2019. "Groundwater quality trends outside of historical trends were observed for groundwater levels" (2019 Annual GW Monitoring Report, SLR). The 2019 Ann construction details and lithological logs for each bore should be undertaken to should be undertaken and reported on in the Annual Review.
ersity	Creatite								
ment of		ors of	the date	of	commen	como	nt of development under this approval, the applicant will	Not Compliant	WSP
Within 3 years of the date of commencement of development under this approval, the applicant we retire biodiversity credits of a class and number specified in Tables 9 and 10 below to the satisfactio of OEH.					 Date of commencement was 15 Feb 2016, therefore biodiversity credits commencement). This condition does not permit an extension to the 3 yea Department of Planning and Environment acknowledging the issues with chan extension. This letter included an extension timeframe and timeline that estimated register 2020. No evidence this timeline has been met or achieved. Cited Email from the Department of Environment dated 29 November 2018 a compliance. Currently Not Compliant however actions are being undertaken to fulfil this compliance. Currently Not Compliant however actions are being undertaken to fulfil this compliance and need for extension of timeframe required to secure in perpetuity conservation Cited a Letter to BCD on equivalence drafted but not submitted, including a rev April 2021. Viewed letter to the Biodiversity Conservation Division (BCD) dated 1/6/20 wh retiring biodiversity credits. Page 11 outlines proposed approach to securing off than VCAs. No response received as at 9 July 2020. 				
7	The retireme	nt of	these cre	dits	s must he	carrie	ed out in accordance with the NSW Biodiversity Offsets	Not Triggered	WSP
	Policy for Ma a) acquiring b) making p b) making p c) providing Tale 2 Eccepton Community Warkooth Sands Woodand Warkooth Sands Woodand Warkooth Sands Grassland Central Hurter Grey Box - Torbark Woodand Regenerating Central Hurter Grey Box - Torbark Woodand Central Hurter Grey Box - Torbark Spothed Gum - Grey Box Foreved Grassland Central Hurter Grassland Central Hurter Central Hurter Grassland Central Hurter Cen	ajor P. or re ayme supp edination edination HU372 B	rojects all tiring cre- nts into a lementar s ametric Vegetation pe uph-barted Apple- moveleaved Ironbark listery's Rd Gum- 10 Dat- Coast row-leaved Ironbark listery's Rd Gum- 10 Dat- Coast row-leaved Ironbark biadry's Reid Gum- 10 Dat- Coast row-leaved Ironbark biadry's Reid Gum- 10 Dat- Grey Box tub - grass open est of the central and wer Hunter row-leaved Ironbark bill Cak- Grey Box tub - grass open est of the central and wer Hunter row-leaved Ironbark bill Cak- Grey Box tub - grass open est of the central and wer Hunter row-leaved Ironbark bill Cak- Grey Box tub - grass open est of the central and wer Hunter row-leaved Ironbark and wer Hunter row-leaved Ironbark and coast of the central diower Hunter	nd c dits an o y m 72.12 0.67 614.6 4 8.43 378.6 16.61	can be ac under the offset func- fiset func- ecological community (EEC) Warkworth Sands Woodand in the Sydrey Basin Bioregion EEC NA Central Hunter Grey Box-Ionbark Woodand in the New South Wales North Coast and Sydrey Basin Bioregions EEC Central Hunter Grey Basin Bioregions EEC NA Central Hunter Grey Basin Bioregions EEC NA Central Hunter Grey Basin Bioregions EEC NA	hieven e BioE 1 that 1 that 3,043 16 ^b 12,150 105 4,516 633 some of these	d by : Banking Scheme in the TSC Act; has been developed by the NSW Government, or		 Credits will be retired using the BioBanking Scheme and providing additional fur. Section 4.3 of WML BMP – overview of biodiversity credits generated I Section 5.3 of WML BMP – Saving our Species – Regent Honeyeater' Condition 35a. Receipt of payment to DPIE for the regent honeyeater sighed. No receipt provided by DPIE acknowledging payment. Table 11 of WML BMP provides an overview of the area of each offset area a generated by each offset. Tables 2 and 3 of Letter to BCD 1/6/20 outline or development consent. Table notes detail variation rules that have been used to credits generated for Eastern cave Bat, Little-bent-wing Bat and Large-eared Pi Actions are being undertaken to progress this condition i.e. Letter to DPIE acknowledging issues with BBAM to BAM conversion, changes in and need for extension of timeframe required to secure in perpetuity conservatii Cited a Letter to BCD on equivalence drafted but not submitted, including a rev April 2021. Recommend adding a table to Section 4 of the WML Biodiversity MP sum and where they are being met across each offset property to confirm all cit At next modification, to ensure compliance, consider seeking to amend th Projects no longer applies (in this and subsequent relevant conditions).

most every month in 2019. It also recorded a 5.7m decline in for bore OH1138 and WOH2139A, which likely relate to declining annual GW Monitoring Report recommended that "a review of the to confirm that each bore is targeting the Blakefield Seam." This

ts to be retired by 14 February 2019 (i.e. within 3 years of ear period. However, letter dated 26 November 2018 submitted to anges in legislation outside of the proponent control and need for

ter of conservation agreements and retiring of credits by 1 March

acknowledging this letter and the impending administrative non-

ndition i.e.

in the permissible conservation agreements specified in conditions ation agreement.

evised time line to secure conservation agreements and credits by

which outlines WML's approach for securing offset properties and offset properties using Biodiversity Stewardship Agreements rather

vith the agreement of the Secretary" after "approval".

funds for supplementary measures as specified in:

d by the BioBanking Agreements lodged. Refer above for details.

er' conservation program. Contribution of \$1 million. Refer to

a and Table 19 provides a summary of ecosystem/species credits credits supplied by each offset to meet the requirements of the to provide sufficient credits generated by the site e.g. over 30,000 Pied-bat.

in the permissible conservation agreements specified in conditions ation agreement.

evised time line to secure conservation agreements and credits by

Immarising the specific ecosystem/species credit obligations credit obligations are being met by the offset package. the mechanism as NSW Biodiversity Offsets Policy for Major

Condition	dition Requirement abilitation Offsets						Status	Evidence	
ehabilita)		re of the corr	plotion of mini-	a operations	under this conser	t the Applicant shall retire	Not triagered	W/SD	
	Within 10 years of the completion of mining operations under this consent, the Applicant shall retire ecosystem credits of a number and class specified in Table 11 to the satisfaction of OEH.						Not triggered	WSP Will be delivered through the implementation of progressive rehabilitation of the 29 will be fulfilled by the 'Rehabilitation Area – Woodland EEC' secondary dor	
	Table 11: Ecosys Vegetation Community	tem Credit Requir	Biometric Vegetation Type	Area (ha)	Endangered Ecological Community	°Credits Required		 Re-creating approx. 2100 ha of EEC Woodland to a standard similar t Establishing network of trees to connect woodland areas Provide additional habitat for threatened species. The Rehab and Disturbance Summary (Ref#6 MTW_AR_2019_APP7) states th 	
	Central Hunter Grey Box - Ironbark Woodland	HU817	Narrow- leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower	2,100	(EEC) Central Hunter Grey Box- Ironbark Woodland in the New South Wales North Coast and Sydney Basin Bioregions EEC	11,204		 works have included landform construction, insertion of erosion controls, surface and direct seeded with native woodland seed mix (15.7 kg/ha). The Annual Review (Ref#6 MTW_Annual Review_2019) notes that the 82.7 assume due to rounding) was higher than the projected 79.2 ha which was plan The Rehab Report Summary (Ref6# MTW_AR_APP6) document identifies that continue to add to the progress outlined above. Additionally, the 80 ha of rehat weed management in the coming period. Table 7.1 of the Annual Review details that at the end of 2019: 	
	Note: • ^a Or as otherw	Hunter			nt.		 159.1 ha of land is being prepared for rehabilitation – landform constru- 1142.3 ha of land is under active rehabilitation i.e. being managed for Based on the above mine rehabilitation is progressing towards achieving Condi This is supported by field inspections within rehabilitation undertaken for this au An Independent review of rehabilitation undertaken in 2019 following discrepa establishment specified in the MOP. Largely reflects interpretation of phase of further discussion. All findings were addressed and or adopted and presented in revised 2020 MOP on 11/6/19. 		
	The retirement of these credits must be carried out in accordance with the NSW Biodiversity Offsets Policy for Major Projects and can be achieved by:(a) retiring credits generated by mine rehabilitation;(b) acquiring or retiring credits under the biobanking Scheme in the TSC Act;(c) making payments into an offset fund that has been developed by the NSW Government; or(d) providing supplementary measures.				ng credits generate e in the TSC Act;(c	ed by mine rehabilitation;(b) making payments into an	Not triggered	WSP Section 1.3 of WML BMP identified that BioBanking Agreement or equivalent will offsets within 10 years of completion of mining operations (i.e. 2027). Note that these mechanisms to retire credits may have changed due to recent bio new legislation and conservation mechanisms available to retire credits su	
.al	nd-Based Offsets							Agreements through BAM. Based on experience establishing BioBanking Agr credits. See response to condition Sch 3 Cond 28 of SSD 6464.	
t Lai	Within 3 years secure offset a into a biobank based offsets development.	of the date of areas listed in agreement, i may be use	Table 12 under n accordance w ed as offsets i	r an in perpetu vith the relevar	ity conservation m nt provisions of the	consent, the Applicant shall echanism such as entering a TSC Act. The direct land- er the EPBC Act for this	Not Compliant	Agreements through BAM. Based on experience establishing BioBanking Agr credits. See response to condition Sch 3 Cond 28 of SSD 6464.	
Laı	Within 3 years secure offset a into a biobank based offsets development. Table 12: Direct L	of the date of areas listed in agreement, i	Table 12 under n accordance w ed as offsets i	r an in perpetu vith the relevar for any appro	ity conservation m nt provisions of the oval required unde	echanism such as entering TSC Act. The direct land-	Not Compliant	Agreements through BAM. Based on experience establishing BioBanking Agreedits. See response to condition Sch 3 Cond 28 of SSD 6464. t WSP Date of commencement was 15 Feb 2016, therefore biodiversity credits to be rewide the will be prepared (during 2015-2017) and number of credits generated. Table 20 details that applications to retire credits updated details as stated above. MTW Audit Protocol Spreadsheet specifies that MTW are still going through the agreements (VCAs). BARs were completed and submitted through the Biodivers No evidence supplied that these applications have been lodged/approved	
Lai	Within 3 years secure offset a into a biobank based offsets development.	of the date of areas listed in agreement, i may be use and-based Offsel	Table 12 under n accordance w ed as offsets i	r an in perpetu vith the relevar for any appro	ity conservation m nt provisions of the	echanism such as entering TSC Act. The direct land-	Not Compliant	Agreements through BAM. Based on experience establishing BioBanking Agreedits. See response to condition Sch 3 Cond 28 of SSD 6464. t <u>WSP</u> Date of commencement was 15 Feb 2016, therefore biodiversity credits to be rewide the wide the second sec	
ct Lai	Within 3 years secure offset a into a biobank based offsets development. <u>Table 12: Direct L</u> Offset Area	of the date of areas listed in agreement, i may be use and-based Offsel	Table 12 under n accordance w ed as offsets i	r an in perpetu vith the relevar for any appro Minimur	ity conservation m nt provisions of the oval required unde	echanism such as entering TSC Act. The direct land-	Not Compliant	Agreements through BAM. Based on experience establishing BioBanking Agreedits. See response to condition Sch 3 Cond 28 of SSD 6464. t <u>WSP</u> Date of commencement was 15 Feb 2016, therefore biodiversity credits to be rewide the work of the states BioBanking Agreements will be prepared (during 2015-2017) and number of credits generated. Table 20 details that applications to retire creding provides updated details as stated above. MTW Audit Protocol Spreadsheet specifies that MTW are still going through the agreements (VCAs). BARs were completed and submitted through the Biodivers. No evidence supplied that these applications have been lodged/approved Currently Not Compliant however actions are being undertaken to fulfil this to BAM conversion, changes in the permissible conservation agreements specifies to secure in perpetuity conservation agreement. Sighted a Letter to BCD to on equivalence drafted but not submitted, including a	
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<u>irect Lai</u>	Within 3 years secure offset a into a biobank based offsets development. Table 12: Direct I Offset Area Northern Biod Southern Biod Goulburn Rive Bowditch Biod Putty Road Bio 2003 Warkwoo North Rothbur Note: To identify The Applicant perpetuity com from those creating Area, to retire a and species cr Putty Road Bio	of the date of areas listed in agreement, ii may be use and-based Offset iversity Area liversity Area er Biodiversity Area odiversity Area odiversity Area odiversity Area rth Sands Wood ry Biodiversity Area may use the servation med adits generate the biodiversity Area codiversity Area	Table 12 under n accordance w ed as offsets in s s rea land Area rea (Hanwood Est to in Table 12 see ecosystem an chanism such a d for Putty Roa y credit requirer ed by the estab a and 2003 Wa	r an in perpetu vith the relevan for any appro 303 705 1,063 520 94 155.8 tate) 40 the applicable figur d species created and Biodiversity ments of the definition of an rkworth Sands	ity conservation m nt provisions of the oval required under m Size (hectares) m Size	echanism such as entering TSC Act. The direct land-	Not Compliant	Agreements through BAM. Based on experience establishing BioBanking Agreedits. See response to condition Sch 3 Cond 28 of SSD 6464. t <u>WSP</u> Date of commencement was 15 Feb 2016, therefore biodiversity credits to be rewide the work of the states BioBanking Agreements will be prepared (during 2015-2017) and number of credits generated. Table 20 details that applications to retire creding provides updated details as stated above. MTW Audit Protocol Spreadsheet specifies that MTW are still going through the agreements (VCAs). BARs were completed and submitted through the Biodiver. No evidence supplied that these applications have been lodged/approved Currently Not Compliant however actions are being undertaken to fulfil this to BAM conversion, changes in the permissible conservation agreements specifies to secure in perpetuity conservation agreement. Sighted a Letter to BCD to on equivalence drafted but not submitted, including a by April 2021 Some minor changes to the areas and properties in Table 12 due to Land surver	

e site in accordance with the RMP contained in the MOP. Condition main. This will include: to that reference sites

hat 82.6 ha was rehabilitated during the 2019 period. Rehabilitation ace preparation, topsoil application (as required), soil amelioration

7 ha (0.1 ha discrepancy from Rehab and Disturbance Report – anned for 2019.

hat 64 ha is planned for rehabilitation during the next period which hab established in 2019 will receive maintenance activities such as

truction and prep for seeding

or relinquishment.

dition 29. audit.

epancies in the areas of ecosystem development and ecosystem of rehabilitation development. See response to Sch 3 Cond 57 for

P Amendment B submitted approved by the Resources Regulator

vill be used as a mechanism to secure and retire mine rehabilitation

biodiversity reforms. Suggest that this section be revised to discuss such as conservation agreements or Biodiversity Stewardship greements are no longer an option for existing projects to retire

e retired by 14 Feb 2019 (i.e. within 3 years of commencement) 17) for all offsets sites. Table 19 provides an overview of the class redits were proposed to be lodged in 2018. The letter to BCD 1/6/20

the process of securing the offsets through voluntary conservation ersity Portal.

this condition i.e. Letter to DPIE acknowledging issues with BBAM ecified in conditions and need for extension of timeframe required

a revised time line to secure conservation agreements and credits

rvey, and easement removed cut out. However total revised areas ed details as stated above.

en separated in Table 19 of the WML BMP as not being available

on mechanism and no credits from these direct land-based offsets

Condition	Requirement	Status	Evidence
32	Within 6 months of the commencement of development under this consent, the Applicant shall: (a) develop suitable performance criteria to the satisfaction of OEH for determining the successful regeneration of the Warkworth Sands Woodland EEC in the Northern Biodiversity Area within 15 years from the commencement of development under this consent; and (b) lodge a bond (in the form of a bank guarantee) of \$1 million (indexed to CPI) with OEH. Note: The Applicants biodiversity offset strategy involves the regeneration of 159 hectares of Warkworth Sands Woodland in the Northern Biodiversity Area, and the production of an additional 19.5 hectares of existing Warkworth Sands Woodland in the Southern Biodiversity Area.	Compliant	 WSP a) Performance criteria developed and submitted for approval on time (this was documents relating to submission). WSW Performance Criteria document (Dec 2) WSW in the Northern Offset within 15 years of commencement. The performance criteria are suitable in their alignment with BBAM benchmarks Recommend attributes collected as part of monitoring include additional data is available, suggest adding some of these to the performance criteria e.g. stem class count threshold to aid in determining whether future groundcover. b) evidence of bond provided and cited
33	If, at the end of 15 years from the commencement of development under this consent, the regeneration of Warkworth Sands Woodland EEC in the Northern Biodiversity Area meets the performance criteria to the satisfaction of OEH, the OEH shall refund the bond to the applicant. If, however, the regeneration does not meet the performance criteria to the satisfaction of OEH, then the Applicant will forfeit the bond to OEH for use by OEH for the regeneration of Warkworth Sands Woodland EEC in the local area, or equivalent strategic conservation initiatives in the region.		<u>WSP</u> Required by year 2031. Only three rounds of monitoring completed to date and another scheduled for 2
34	Within 12 months of the commencement of the development under this consent, the Applicant shall prepare an Integrated Management Plan for the Warkworth Sands Woodland EEC to the satisfaction of OEH. This plan must be prepared in consultation with the owners of Wambo and Bulga Mines, and outline the measures that would be implemented to coordinate management and recovery efforts for the EEC.	Not Compliant	WSP The 2017 IEA response stated, the plan "developed and consultation and meeti Plan developed (Feb 2017 Integrated MP provided) in consultation with relevant was undertaken in 2016 via meetings with Bulga Coal Complex, Wambo Coal M Annual WSW forum has been established to integrate management actions and Viewed email from RTCA dated 9/2/17 confirming consultation with Peabody En Rehabilitation dated 24/4/20, OEH has not confirmed whether the manage Management Plan for the Warkworth Sands Woodland EEC was provided satisfaction. No response has been received as at 9/7/20. Recommend re-providing plan and follow up with OEH to confirm that Woodland EEC is to their satisfaction.
35	Within 6 months of the commencement of development under this consent, the Applicant shall contribute \$1 million to OEHs Saving Our Species - Regent Honeyeater conservation program. The Contribution may be used as a supplementary measure for any approval required under the EPBC Act for this development.	Compliant	Viewed MTW Regent Honeyeater Conservation Program internal proposal, no of As per 2017 audit, money was sent and collected. PO raised 6/7/16. Recomm 2020, to seek evidence that contribution received in Saving Our Species p
Biodiversit	y Management Plan		
36	The Applicant shall prepare a Biodiversity Management Plan for the development to the satisfaction of the Secretary, and carry out the development in accordance with this plan. The Plan must:	Compliant	WSP MTW currently operates under the 2018 BMP, viewed approval letter from DPE
	(a) be prepared in consultation with OEH and submitted to the Secretary for approval prior to the commencement of any development under this consent;	Compliant	In Section 1.3.1 it states that consultation with OEH commenced on 3 December B). It notes that these comments were incorporated.
	 (b) describe the short, medium and long term measures that would be implemented to: manage the remnant vegetation and fauna habitat on the site; implement the biodiversity offset strategy described in the EIS; regenerate and conserve Warkworth Sands Woodland EEC in the biodiversity areas; integrate the implementation of the biodiversity offset strategy to the greatest extent practicable within the rehabilitation of the site; 	Compliant	Short term measures described in Section 4 of the WML BMP. Specific measure Actions to implement BOS (including rehab) provided in Section 2.5, 4 and 5 of WSW regeneration measures detailed in Section 4 of BMP. Specific measures OMPs.
	(c) include detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy (including the regeneration of Warkworth Sands Woodland) and triggering remedial action if necessary;	Compliant	Provided in Section 3.3.2 for operational lands (mine rehabilitation) and Section actions provided in Attachment A. Specific performance criteria also given in ea WSW specific performance criteria detailed in WSW Performance Criteria 2017
	 (d) include a detailed description of the measures that would be implemented over the next 3 years for: regenerating Warkworth Sands Woodland in the biodiversity offset areas; protecting vegetation and fauna habitat outside the approved disturbance area on-site; enhancing the quality of existing vegetation and fauna habitat on the site and in the biodiversity offset areas; minimising clearing and avoid unnecessary disturbance; maximising the salvage of resources within the approved disturbance area - including vegetative and soil resources - for beneficial use in the enhancement of any land based offsets or the rehabilitation of the site; collecting and propagating seed; minimising the impacts on fauna on-site, including undertaking pre-clearance surveys; managing salinity using best practise dryland salinity management revegetation measures; controlling weeds and feral pests; controlling erosion; managing grazing and agriculture on site; 	Compliant	 WML BMP details measures to be implemented over first three years for: WSW – Section 4 and 5 Enhancement – Section 3 and 4 Minimise clearing – Section 3.2 Salvaging resources – Section 3.2.3 Seed collection Section 3.2 Progressive clearing Weeds and pests – Section 3.2.4 (in accordance with MTW Enviro Progression – Section 3.2.6 (in accordance with 'Blue Book') Grazing – Section 3.2.7 Controlling access – Section 1.3.4 and Section 4 Bush fire management – Section 3.2.5 (in accordance with MTW Bush An overview of these measures for offsets is provided in Table 17. Specific measures for control BMP and OMPs do not appear to provide any specific measures for control salinity in BMP or link to Plan where this is addressed.

as triggered in previous audit where auditor received message and 2017) supplied which details performance criteria for regenerating rks and reference sites. nal measures such as stem classes and groundcovers. Given eria or provide discussion on using data to aid in adaptive mgt ire thinning actions are required to increase vegetation in 2020 (Table 4 of WSW Performance Criteria doc). etings with other parties is underway". ant parties - Section 1 of the MP states that consultation on the plan Mine and OEH. and knowledge to coordinate recovery efforts. Energy, and Glencore. As per email from Environmental Specialist gement plan is to their satisfaction. A copy of the Integrated ed to OEH on 24/4/20 to request confirmation that it is to their hat Integrated Management Plan for the Warkworth Sands o date, requesting payment contribution be made prior to 15/8/16. mmend the contribution is followed up with OEH by end July program. PE dated 20/9/18. er 2015 and OEH provided comments in January 2016 (Attachment sures thereafter provided in OMP for each offset area. of BWML BMP. es are provided in WSW Integrated MP and Northern and Southern

tion 4 for biodiversity offset areas. Trigger, response and remedial each OMP. 17 document as discussed above.

Procedure 10.4 and quarterly pest reports)

Ishfire MP (2015) not supplied. neasures are provided in each OMP. Measures for regeneration of thern OMP.

trolling salinity. Recommend providing information relating to

Condition	Requirement	Status	Evidence
	- controlling access; and		Many of the performance criteria are general in nature e.g 'Ecological mo
	- bushfire management.		all attributes over three consecutive assessments (the average of all plots
			Recommend a measurable target needs to be added to the performance
	(e) include a seasonally based program to monitor and report on the effectiveness of these measures,	Compliant	condition it must reach as a minimum not just a trajectory, comparable to Summarised in Section 3.3.2.3 and Section 4.2.3 of BMP. Specific monitoring
	and progress against the detailed performance and completion criteria; and	Compliant	requirements have been undertaken and reports cited.
			The audit site inspection observed areas of the southern and northern BOAs wit
			unclear of the timing of placement and or need to trigger the post 12 month mon
			Summary Report clearly identified when and where supplementary habitat is p
			accordance with the Table 18 of BMP.
			A number of the monitoring reports incorporate recommendations for the restora
			these are implemented, specifically;
			Habitat restoration monitoring for the southern and northern BOAs (Niche
			recommended that a more finely detailed assessment of management zone
			be undertaken in order to target management works appropriately;
			Direct seeding of grassland areas may be required; and
			 An assessment of the canopy recruitment at each transition site should be required.
			Vegetation and habitat monitoring for the Goulburn and Condon View BOA
			 recommended management intervention involving increased weed manage importing on vegetation, and
			impacting on vegetation; and
			recommendations for intensive management including intensive weed woul
	(f) identify the potential risks to the successful implementation of the biodiversity offset strategy	Compliant	Risk assessment and corrective actions to mitigate these risks are provided in S
	(including regeneration of the Warkworth Sands Woodland), and to include a description of the		
	contingency measures that would be implemented to mitigate these risks; a		
	(g) include details of who would be responsible for monitoring, reviewing, and implementing the plan.	Compliant	Provided in Section 1.3.3 of the WML BMP.
	Note: management measures relating to the biodiversity offset strategy may be addressed via		
	equivalent measures required by OEH as part of a Biobanking Agreement or similar conservation		
	agreement.		
Conservatio	on Rond		
Conservatio			
	Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the	Compliant	WSP
	Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the Secretary, the Applicant shall lodge a Conservation Bond with the Department to ensure that the	Compliant	Bank Guarantee number 802/GTE/7738 dated 29 July 2016 sighted for pro
	Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the Secretary, the Applicant shall lodge a Conservation Bond with the Department to ensure that the biodiversity offset strategy is implemented in accordance with the performance and completion criteria	Compliant	
	Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the Secretary, the Applicant shall lodge a Conservation 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 shall be determined by:	Compliant	Bank Guarantee number 802/GTE/7738 dated 29 July 2016 sighted for pro
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	 Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the Secretary, the Applicant shall lodge a Conservation 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 shall be determined by: (a) calculating the full cost of implementing the biodiversity offset strategy (other than land acquisition costs); and 	Compliant	Bank Guarantee number 802/GTE/7738 dated 29 July 2016 sighted for prop
	 Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the Secretary, the Applicant shall lodge a Conservation 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 shall be determined by: (a) calculating the full cost of implementing the biodiversity offset strategy (other than land acquisition costs); and (b) employing a suitably qualified quantity surveyor to verify the calculated costs, 	Compliant	Bank Guarantee number 802/GTE/7738 dated 29 July 2016 sighted for pro
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37	 Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the Secretary, the Applicant shall lodge a Conservation 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 shall be determined by: (a) calculating the full cost of implementing the biodiversity offset strategy (other than land acquisition costs); and (b) employing a suitably qualified quantity surveyor to verify the calculated costs, to the satisfaction of the Secretary. 	Compliant	Bank Guarantee number 802/GTE/7738 dated 29 July 2016 sighted for prop
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HERITAGE	Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the Secretary, the Applicant shall lodge a Conservation 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 shall be determined by: (a) calculating the full cost of implementing the biodiversity offset strategy (other than land 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, will release the bond. If the offset strategy is not completed 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. Notes: - Alternative funding arrangements for long-term management of the biodiversity offset strategy, such as provision of capital and management funding as agreed by OEH 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 Management Plan. trook Aboriginal Cultural Heritage Conservation Area The Applicant shall prepare a conservation Management plan for the Wollombi Brook Aboriginal Cultural Heritage Conservation Area to the satisfaction of the Secretary, and carry out the		Bank Guarantee number 802/GTE/7738 dated 29 July 2016 sighted for proposition of the constraint of the cons

nonitoring demonstrates a trajectory to benchmark values for ts)'.

to Table 6 of the BMP and OMPs so that it is clear to what ing programs for offset areas provided in OMPs. All monitoring

with supplementary habitat stockpiled for placement. However, it is ponitoring for habitat use is provided. It is recommended the Annual placed within BOAs and subsequent monitoring is undertaken in

pration of WSW and generally the BOAs. It is recommended that

he 2018).

nes (Warkworth Sands Grassland (Management Zones 2 and 4)

e undertaken to determine if further planting or seeding is

OAs (Niche 2016 and 2018).

gement should be considered to prevent weed incursions

ould be needed to assist in regeneration.

Section 6 of each OMP.

roposed conservation bond and acknowledged as appropriately

ated June 2017. Consultation included an ad in the newspaper 8 d ppt. presentation which outlines management plan contents, gistered.

book ACHCA. MTW are currently determining a mechanism for ers comms). Stakeholders have been identified and an initial his area, land management plan activities have been occurring in

Condition	Requirement	Status	Evidence
	 (c) include a program/procedures for: protection and management of aboriginal sites, including protocols for the establishment of strictly controlled non-access zones and protocols around culturally sensitive areas; maintaining and managing access to the area by the relevant Aboriginal stakeholders, including establishment of areas for active Aboriginal cultural heritage and landscape management; and ongoing consultation and involvement of the relevant Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage in the area. (d) investigate the potential for collaborative management of the Aboriginal heritage values of the land within the Southern Biodiversity Area and the adjoining Wambo-owned land adjacent to the conservation area, in consultation with the owner of the Vambo mine; and (e) include an action plan for the implementation of the plan, including establishment and ole of the Wollombi Brook Aboriginal Cultural Heritage Conservation Area management committee in overseeing implementation of the plan. 		 c) Program and procedures are outlined in Section 7, 3, 5 and 5 of the We geo testing" which confirms Cultural Heritage authorisation was underta within the GDP area" d) Section 4.2.2 and 5 of the Wollombi Brook ACHCA. e) Section 8 of the Wollombi Brook ACHCA. During the IEA, viewed examples of signage and fencing protecting cultural heritage authority is a section of the test of the section of the test of the test of the test of test of the test of test of the test of test of
39	Prior to carrying out any development to the west of Wallaby Scrub Road under this consent, unless the Secretary agrees otherwise, the Applicant shall enter into a conservation agreement or agreements pursuant to section 69B of the National Parks and Wildlife Act 1974 relating to the Wollombi Brook Aboriginal Cultural Heritage Conservation Area, recording the obligations assumed by the Applicant under the conditions of this consent in relation to the conservation area, and register the agreement/s pursuant to section 69F of the National Parks and Wildlife Act 1974.	Compliant	Outlined in Section 3.2.1 of the Wollombi Brook ACHCA. Viewed letter from DPIE dated 12/1/18 which notes that MTW is currently negotive development (non mining activities) west of Wallaby Scrub Road. MTW has conserved by Scrub Road within ML 1751. Viewed letter from DPIE dated 30/11/18 which permits mining in the Proposed I The Aboriginal Heritage Conservation Agreement (CA) is in progress (GM person plans showing lot/dp and draft CA. In order to register the CA on relevant land all relevant landowners and the Minister (being progressed). Recommend this area beyond the "Proposed Initial Mining Area" west of Lot 1/2 DP 124545.
Human ren			
40	This consent does not allow the Applicant to disturb any in-situ human remains on site.	Not Triggered	There were no human remains found during the IEA period (GM pers comm).
41	of Heritage Items Applicant shall protect the heritage items identified in Table 1 of Appendix 5.	Not Triggered	There were no items required to be protected during the IEA period (GM, pers c Viewed figure of cultural heritage showing mitigated and non-mitigated sites of Plate 14 provides evidence of protection of Aboriginal Heritage sites west of No
Salvage			Thate 14 provides evidence of protection of Aboriginal Hentage sites west of No
42	Prior to carrying out any development on site that could affect the heritage items identified in Table 2 of Appendix 5, the Applicant shall salvage those items in accordance with the approved program under the Aboriginal Heritage Management Plan.	Compliant	 During the IEA period, there were three salvage programs conducted at MTW (f 1) 22 - 23/07/17 - salvage covering 25 isolated artefact sites to the west of the 2) 26/02 -1/03/18 - salvage covering 37 isolated artefact sites to the west of W relocation of Site M grinding grooves (Section 6.5, 2018 AR); 3) 9 -12/10/18 - salvage covering 14 isolated artefact sites within the WSR co The following sites, as shown in Table 2 of Appendix 5, were salvaged during th MTW-54, MTW-61, MTW-67, MTW-68, MTW-77, MTW-87, MTW-128, MTW-13 Salvages were undertaken in accordance with ACHMP methodologies and in co No reports were available for the first and second salvages were available and submitted to BCD to update AHIMS Register. Viewed "Wallaby Scrub Road Aboriginal Cultural Heritage Assessment and West Program" (Salvage Report) dated October 2018. As per Section 9 of the Salvage MTW utilises hand held tablets with cultural Heritage layers on GIS to refer to i Pre-strip which shows the location of Cultural Heritage Sites.
	Heritage Management Plan		
43	The Applicant shall prepare an Aboriginal Heritage Management Plan for the development to the satisfaction of the Secretary, and carry out the development in accordance with this plan. The plan must:		
(a)	be prepared in consultation with OEH and Aboriginal stakeholders. and submitted to the Secretary for approval prior to carrying out any development under this consent;		Viewed approval letter from Secretary dated 28 August 2018. Schedule 18 is stakeholders. Recommend in future version, evidence of consultation with OEH and/or a
(b)	 include a program to: salvage, investigate and/or manage Aboriginal sites and potential archaeological deposits within the project disturbance area; assess and remove scarred trees within the disturbance area; protect and monitor Aboriginal sites outside the project disturbance area; manage the discovery of any new Aboriginal objects or skeletal remains during the development; facilitate access to archaeological sites on site for Aboriginal stakeholders; and Aboriginal stakeholders are consulted and involved in the conservation and management of Aboriginal cultural heritage on the site. 	Compliant	The program described in this condition is outlined within the provisions of the A In 2018, there were two salvage programs and an Aboriginal and Cultural Heritage are discussed in Sch 3 Cond 42. In 2019 there was one new cultural heritage site (artefact scatter) identified and The site was barricaded and MTW arranged for an inspection by a qualified arch was developed and submitted in accordance with the provisions outlined in the management GIS layer. The Site was subsequently placed on AHIMS, <u>(Section</u> Viewed GDP 0011, dated 22/11/ 2017 for the salvage of grinding grooves. GD has not been signed off. Viewed GDP spreadsheet showing GDP close out se Recommend that original GDP forms and spreadsheet are updated follow all GDPs actions were completed and signed off. A requirement of the AHMP is for the long-term management of Aboriginal Obje (GM pers comms). A new care agreement has been approved with OEH, 26 Ap in October 2019, however the objects are yet to be relocated. Recommend The 2017 Audit identified "One administrative non-compliance in relation to C requirements of consents SSD-6464 and SSD-6465 and associated Aboriginal

Wollombi Brook ACHCA. Viewed GDP for "WML sediment dam ertaken and that there were "no known cultural heritage sites

eritage sites at MTW (Plate 15).

gotiating the terms of the VCA with OEH. The letter permits minor onstructed a powerline, water infrastructure and RFS track west of

d Initial Mining Area west of Lot 1 and 2 in DP1245465. rs comms). MTW met with BCD on 11/3/20 to discuss. Viewed CA nd titles, a standard form (Form 13NP) is required to be signed by his should be progressed and completed prior to entering the 15.

s comm) s dated 31/7/19. Figure is shown in Schedule 1 of the ACHMP. North Pit.

(from Annual Reviews): the existing West Pit (Section 6.5 2017 AR) f Wallaby Scrub Road (WSR) along with the removal and

corridor and to its west (Section 6.5, 2018 AR). g the third salvage (MTW-2, MTW-3, MTW-51, MTW-52, MTW-53, -130, MTW-103, MTW-60, MTW-65) o consultation with CHWG (GM pers comms). ole at the time of the IEA. Recommend these are finalised asap

Vest of Wallaby Scrub Road Aboriginal Site Salvage and Excavation vage Report, "there are no outstanding actions". to in the field. Reviewed GDP for North Pit Pre-Strip and West Pit

8 in the AHMP provides presentation and newspaper articles to

r approval not to consult should be included in ACHMP.

tage inspection. The results of the October 2018 Salvage Program

nd recorded.

rchaeologist to record and document the site. An AHIMS site card he ACHMP and the site was added to the MTW cultural heritage on 6.5.2 2019 AR).

DP includes instructions for salvage and salvage area however it section was not always completed.

owing field inspection by Environmental team to confirm that

bjects. The **relevant objects are still in storage at a HVO** facility April 2019, and communicated to the Registered Aboriginal Parties **ad this is progressed.**

Cultural Heritage Awareness Training materials not meeting the al Heritage Management Plan" (Section 6,5,1, 2017 AR). Viewed

Condition	Requirement	Status	Evidence
			current new employee induction presentation dated 16/3/2020 and confirmed if c training is provided in Sch 5 Cond 1.
(c)	Include a research program, that has been prepared by suitable qualified and experienced persons whose appointment has been approved by the Secretary, for locating and evaluating sand bodies of likely early Pleistocene and early Holocene age that may contain evidence of Aboriginal habitation in the Upper Hunter Valley.		The Research Program is described in Provision 38 and Schedule 17 of the ACH However, the Research Program required within the plan has not progressed Research Program was due to be implemented in August 2017. The sand bodies are located on both Warkworth and HVO land. MTW has discu agreement on the access has not been granted to date (GM pers comms). Recommend that access to the sand bodies on HVO be resolved. If access regulators and modify the ACHMP to relocate the Research Program re progressed.
Mount Tho	rley Warkworth Historic Heritage Conservation Fund		
44	The Applicant shall establish and contribute \$500,000 under the Mount Thorley Warkworth Historic Heritage Conservation Fund in consultation with Council and the CHAG to the satisfaction of the Secretary.	Compliant	Viewed Partnering Agreement (PA1) with SSC dated 21/2/17. Schedule 2 of the At the time of the IEA, three invoices had been issued from SSC. Viewed third ta (including GST). MTW has funding obligations for two more years, with invoices
	rley Warkworth Great Northern Road Conservation Fund		
45	The Applicant shall establish and contribute \$200,000 under the Mount Thorley Warkworth Great Northern Road Conservation Fund to be administered by the Applicant in consultation with Council, CHAG, Convict Trail Project and Heritage Branch, to the satisfaction of the Secretary.	Compliant	Viewed Partnering Agreement with the Convict Trail Project Incorporated dated Viewed letter from Project Director of the Convict Trail Project Incorporated dated stated that "at this stage, no funds have been utilised from the trust account esta
	ritage Management Plan		
46	The Applicant shall prepare a Historic Heritage Management Plan for the development to the satisfaction of the Secretary, and carry out the development in accordance with this plan. This plan must:		
	(a) be prepared by suitable qualified and experienced persons whose appointment has been endorsed by the Secretary;		2017 IEA, sighted approval letter. Approval letter for manager Heritage and About
	(b) be prepared in consultation with the Heritage Branch, Council, CHAG and local historical organisations;	Compliant	Recital J of the HHMP states that consultation was undertaken with DPE, Herita Viewed email to CHAG participants dated 6/5/16 inviting participants to a HHMP
	(c) be submitted to the Secretary for approval prior to carrying out any mining to the west of Wallaby Scrub Road;	Compliant	Mining through Wallaby Scrub Road was approved by DPIE 30/11/18. HHMP w Viewed approval letter from DPIE dated 11/10/17 stating HHMP satisfied the rec
	 (d) Include the following: conservation management plans for the former RAAF Base Bulga, Great Northern Road (Wallaby Scrub Road portion), Brick House and Springwood Homestead, and a program/procedures for: -archaeological investigations of Wallaby Scrub Road, Well 2, and the former RAAF Base Bulga Complex; photographic recording of all historic heritage sites within the disturbance areas prior to disturbance; relocation and storage of moveable heritage items; managing the discovery of any new heritage items during the development; ongoing consultation and involvement of the relevant historical groups in the conservation and management of historic heritage on the site; developing an interpretation programme of the heritage Conservation Fund and the Mount Thorley Warkworth Great Northern Road Complex; establishing the dout Thorley Warkworth Historic Heritage Conservation Fund and the Mount Thorley Warkworth Great Northern Road Conservation Fund; and protecting the other heritage items sourcide the disturbance area. Note: It is accepted that the conservation Management plan for the Springwood Homestead and interpretation programme for the RAAF Base Bulga Complex will not be submitted with the initial Historic Heritage Management Plan. These should be progressively added to the plan once completed. 	Compliant	 The program and procedures as required under this condition are outlined in var 19. RAAF Base Bulga is located west of the approved mining area; Great Northern Road; the Brickhouse is located east of WW Preparation Plant on the eastern side north west of the approved mining area, near Wambo Rail Loop. Recommend adding labels for the abovementioned features to figures in th The management plans for the abovementioned features, describes the proinfrastructure. Maintenance actions include regular rehab, slashing and replace: A commitment of the HHMP, is to conduct annual compliance inspections with m Bulga, Brick House and Springwood Homestead. The results of these inspection: Management Plan 2019 Compliance Audit Inspection', appended to the Annual One historic heritage survey and investigation was conducted during the IEA archaeological potential (Section 6.5.2, 2018 AR). See response to Sch 3 Cond Viewed the RAAF Bulga Archival Recording dated Nov 2013; Archaeological Investigation the archaeological potential (Section 6.5.2, 2018 AR). See response to Sch 3 Cond Viewed the RAAF Bulga Archival Recording dated Nov 2013; Archaeological Investigations at Mt Thorley Warkworth Well 2 Histo Archaeological Works: Excavations at Mt Thorley Warkworth Well 2 Histo Archaeological Works: Excavation Results dated Dec 2018, no actions. The IEA site visit confirmed that there are no corrective actions register for Heritt Recommend action recommendations from Archaeological Investigations of the next period and report on in Annual Review; Thorough and comprehensive survey of the potential disturbance area present; Where heritage features are identified and likely to be impacted; Where movable items of historical interest are located within the potent Historical Society and Museum for retention in their collection. And Mount Thorley Warkworth Historic Heritage Management Plan 2019 Coll. Install or reinstall/repair barricade, wire and/or signage at sites MTW-4107; vic

f contains cultural heritage section process. Further discussion on

CHMP as required by this condition. seed (GM pers comms). As per Section 17 of the ACHMP, the

cussed approval to access the sand bodies on HVO land however

ss cannot be granted, discussions should occur with relevant requirement. The Research Program on MTW should be

he PA1 describes Funding Allocation (\$100k/year over five years). d tax invoice from SSC dated 25/11/19 for the sum of \$113,911.12 res being due on 26/11/20 and 26/11/2021.

ed 3/5/17.

ted 24/01/20 confirming that \$203k has been paid. The letter also stablished for the fund".

poriginal Relations sighted.

itage Division of OEH and SSC.

/IP meeting discussion.

was submitted on 7/7/17.

equirements under this condition.

various Schedules and Provisions including Schedule 5, 6, 12, 14,

ern Road is located within the northern portion of Wallaby Scrub ide of the Golden Highway; and Springwood Homestead is located

the HHMP at next review.

process for survey only. There are no requirements to restore cement of degraded plywood (GM pers comms).

members of the community through the CHAG on the RAAF Base ons are provided in the Mount Thorley Warkworth Historic Heritage al Review.

EA, in 2018 – following the closure of Wallaby Scrub Road an sub-surface investigation of an area identified as having high nd 42.

nvestigations of the Former RAAF Base Bulga dated March 2018. report.

storic Site dated Nov 2017, no actions; and Great North Road

eritage. Is of the Former RAAF Base Bulga report dated March 2018 in

rea to identify any historic objects or features that may be

mpacted, salvage will be undertaken to ensure that any

I where archaeological excavation would be beneficial in considered to mitigate any impacts on those features; and tential disturbance area, they will be offered to the Singleton

Compliance Audit Inspection' recommendations: *I-*4; 8; 69; 71; 72; 86; 89; 90; 138; 142; 144; 145; 163-5; 167-71;

40; 141; 143; 146-62; and 172-6 if activity increases in their

2; 86; 89; 90; 222; 724; and WS7;

scarred trees MTW-8; 70; 80; and 523, considering the and

those noted in the report.

Condition	Requirement	Status	Evidence
			6. Increase the extent of the barricade around the new find at Charlton R
			There were no incidents nor any unauthorised disturbance caused to historic he
TRANSPOR	27		2018 and 2019 AR). Heritage items have not been required to be relocated or s
Wallaby Sc			
47	This consent allows open cut mining through the existing alignment of Wallaby Scrub Road. Note: the Applicant also required other related approvals in order to undertake mining within the existing road alignment including an approval under the Roads Act 1993 to close Wallaby Scrub	Compliant	See response to Sch 3 Cond 39 regarding the Proposed Initial Mining Area. A portion of Wallaby Scrub Road was gazetted as closed by the Minister for purchased from Singleton Shire Council (SSC) on the same date (Section 4.4, 2 was required as the parcel of land was no longer a road after the gazettal of road
	Road. It also needs to obtain mining lease over the Road under the Mining Act 1992 for mining from surface to 20 metres depth.		Mining has progressed through Wallaby Scrub Road in the northern end of CC planning superintendent dated 17 April 2020). In total, there has been 76.9 ha of disturbance west of Wallaby Scrub Road (Fel
Intersection	ns		
48 Puttu Poad	Unless the Secretary agrees otherwise, the Applicant shall: (a) close the intersection of Lydes Lane and the Golden Highway in consultation with Council and to the satisfaction of RMS, within 6 months of the date of this consent; and (b) pay the RMS \$375,000 towards the upgrade of the intersection of the Golden Highway (Putty Road) and Mitchel Line of Road within 12 months of the date of this consent.	Compliant	 a) Lydes Lane is located adjacent to the MTW admin building and has been close the intersection and was completed seven weeks post the required gate within the road reserve of Lydes Lane, Singleton dated 21 June 20 An extension to close the intersection was sought and approved by DP section 138 approval under the <i>Roads Act</i> was required. Viewed council minutes dated 26/5/16 which discussed installation of th to RMS to P.Smith (at RMS) dated May 2016, requesting review of report No evidence that a section 138 approval under the <i>Roads Act</i>. b) As stated in the 2017 IEA, \$374,100 was paid towards RMS dated 21st Delays due to change in invoicing systems.
Putty Road 49		Compliant	Construction activities completed in 2018 included the Butty Boad third crossing
49	If the Applicant decides to construct a third crossing of Putty Road between the Warkworth and Mount Thorley Mines, then this crossing must be constructed to the satisfaction of the RMS, and the Applicant shall bear all the costs associated with the construction, maintenance and subsequent removal of this crossing during rehabilitation of the site.	Compliant	Construction activities completed in 2018 included the Putty Road third crossing
Rural Fire S	Service - Emergency Access Track/Fire Trail		
50	Prior to the closure of Wallaby Scrub Road, the Applicant shall do the following in consultation with Council, RMS and the RFS:	Compliant	a) As described in Sch 3 Cond 47, a portion of Wallaby Scrub Road was g September 2018. The RFS Emergency Access Track / Fire Trail was
	 (a) develop a suitable emergency access track/fire trail to the west of the approved mining pit in general accordance with the indicative trail/track shown in Appendix 8, and ensure that this track/trail complies with the relevant standards in the RFS Planning for Bush Fire Protection publication and the Bushfire Coordinating Committees Fire Trails Policy No. 2/2007, or its latest version; (b develop a protocol with RFS that: provided for ongoing access and use of the new emergency access track/fire trail following the closure of Wallaby Scrub Road; provides for access to the site during emergencies on site to assist with any emergency response; and 		 on aerial at site visit, its alignment is generally consistent with the file tradated 16/10/17 with fire trail standards attached. RMS and SSC were costakeholders provided no comment. Correspondence from RFS dated pers comms). b) Viewed email to RFS dated 7/9/18 detailing protocol and access arrange one after, RMS were consulted for both protocols and approved the access arrange one after.
	- provides for the Applicant to use the emergency response equipment and appropriately trained personnel on site to assist the RFS (and any other emergency agencies) respond to emergencies in the surrounding area, to the satisfaction of the Secretary.		
	Following approval, the Applicant shall carry out the development in accordance with this protocol.		
	of Coal Transport		
51 (a)	The Applicant shall: keep records of the amount of coal transported from the development in each calendar year; and	Compliant	MTW keep records of the amount of coal transported from the development in Spreadsheets were sighted during the IEA.
(b)	make these records available on its website at the end of each calendar year.	Not Compliant	At the time of the IEA, coal transport amounts were not reported on the website been updated and coal transport amounts are now included in Section 4.3. Reserved Section 4.3 of the Annual Review.
VISUAL			
Operating (
52	The Applicant shall:		
(a)	implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development, including lighting impacts on road users and impacts of mining voids;		 The following community complaints were made in relation to lighting 33 complaints in 2017 32 complaints in 2018 27 complaints in 2019 No complaints in Jan or Feb 2020 (MEMR) Results for March, as presented in the MEMR, was not available at the time of th During the IEA site visit, the Mine Services Technical Discussion included prochave increased since mining through Saddle Ridge towards Bulga. There is two way interaction between Mine Manager and the CROs. Stoppages The CRO Work Instruction includes a lighting check for issues.

Ridge (MTW-724).

heritage sites at MTW during the IEA period (Section 6.5.2, 2017, r stored during the EIA period (GM pers comms).

or Lands and Forestry on 7 September 2018, and subsequently 4, 2018 AR). No Section 138 approval under the *Roads Act 1993* oad closure (GM pers comms).

CL 753 down to the Redbank Creek coal seam (email from mine

eb 2020, CCC minutes).

been physically closed. The gate was installed on 14/7/16 to uirement to close it. Viewed approval letter from SSC to install a 2016.

DP&E to 29-07-16 (Letter 19-06-16). The letter stated that a

f the gate and recommending that council approve. Viewed email eport and feedback. RMS had no objections. has been acquired, SSC letter 21/6/16 noted that "installation is in

1st December 2016, a further \$900 was paid on 7 February 2017.

ng (Section 4.4, 2018 AR). See response to Sch 2 Cond 10.

s gazetted as closed by the Minister for Lands and Forestry on 7 as constructed in 2018 (Section 4.4, 2018 AR.). Viewed fire trail e trail shown in Appendix 8 of SSD 6464. Viewed email from RFS e consulted 17/10/17 and 14/11/17 respectively, and both ed Aug 2017 directed MTW to use the Fire Trail Standards (GM

angements. There were two protocols, one prior to closure and access protocol's on 7/9/18. MTW maintains the entire trail.

in each calendar year (MTW June 2020 Evidence Spreadsheet).

site or in the Annual Review. The 2019 Annual Review has since **Recommend to Continue to report coal transport amounts in**

f the IEA.

ocedures for how lighting impacts are managed. Lighting issues

ges due to lighting impacts are individually recorded by the CROs.

Condition	Requirement	Status	Evidence
			The Mine Manager is aware of the increased lighting complaints which is due a
			have increased. A revised lighting procedure has been drafted.
			Viewed Tipping and Dumping Work Procedure" which is the lighting operational c
			should be directed on pit dumps. MTW currently working on finalising plan to ind
			Internal lights incident register viewed with acknowledgement that lighting plan
			Procedures.
			Recommend amending internal Procedures and CRO Work Instruction to re
			and training rolled out to relevant personnel.
(b)	establish and maintain vegetated bunds, vegetative screening and/or screen fencing along the boundary	Compliant	Viewed Visual Screening Plan dated June 2016. Additional improvements planne
	of the site including adjoining public roads where appropriate;		Plan. In 2019, a visual screen planting of tube stock (360) and seed plots (440)
			Plate 16).
			Recommend additional plantings designed and undertaken to reduce view
(c)	ensure that all external lighting associated with the development complies with Australian	Compliant	Viewed draft Lighting Audit Review dated March 2020 which was completed aga
	Standard AS4282 (/NT) 1997 - Control of Obtrusive Effects of Outdoor Lighting, or its latest		No improvements were required as a result of the audit, however recommende
	version; and		all lighting is directed below the horizontal, where safe to do so and inspec
(d)	monitor and report on the effectiveness of these measures.	Compliant	Two main controls used to minimise visual amenity are lighting management and
			Section 6.6 of the AR.
	Initial works to establish the vegetative bunds and/or screening referred to in condition 30(b) must be	Not Triggered	Required prior to audit period.
	undertaken within 6 months of the date of commencement of development under this consent (unless		Vegetation bunds/screening in condition 30(b) are illustrated on page 2 of the Rel
	otherwise agreed by the Secretary), in accordance with a tree screening plan that has been prepared		the IEA.
	in consultation with Council and to the satisfaction of the Secretary. The use of screen fencing shall be		The initial works began in 2016 with a shade cloth fitted to security fences from I
	limited to areas where vegetative screening is not feasible, or as an interim measure prior to		1 bund was also constructed along a section of Putty Road.
	establishment of vegetation.		The 2017 audit sighted consultation with Singleton Council.
	-		No evidence that the Tree Screening Plan was prepared to the satisfaction
Additional V	/isual Impact Mitigation		
53	Upon receiving a written request from the owner of any residence on privately-owned land who has, or	Not Triggered	No written request has been received during the IEA period (GM pers comms).
	would have, significant direct views of the mining operations from this residence and/or its associated		
	facilities (such as pool or barbeque area) during the development, the Applicant shall implement		
	additional visual mitigation measures (such as landscaping or vegetation screens) on the land in		
	consultation with the landowner. These measures must be reasonable and feasible, and directed		
	towards reducing the visibility of mining operations from the residence and/or its associated facilities.		
	If within 3 months of receiving this request from the owner, the Applicant 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:	Noted	
	• The additional visual impact mitigation measures must be aimed at reducing the visibility of the mining	liteted	
	operations on site from significantly 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 (i.e. the additional measures could involve		
	the implementation of measures outside the affected property boundary that provide an effective		
	reduction in visual impacts).		
	•Except in exceptional circumstances, the Secretary will not require additional visual impact mitigation		
BUSUEDE	to be undertaken for residences that are more than 5 kilometres from the mining operations.		
54	MANAGEMENT The Applicant shall:		
<u>54</u> (a)	ensure that the development is suitably equipped to respond to any fires on site; and	Compliant	Viewed Bushfire Management Plan revised 17/9/19. Protocol for RFS fire trail
(a)	ליושטור וואג גווב עביבוטאוויביוג וא אמוגמטוץ ביעוואאבע גע ובאטווע גע מוזע ווובא טוו אונל, מווע ביואטרב גוובי גערייביע גערייבי		required on site and a list of trained personnel.
(b)	assist the Rural Fire Service and emergency services as much as practicable if there is a fire in the	Not Triggered	No request to assist (GM pers comms).
(b)		Not i riggered	No request to assist (GM pers comms).
WASTE	vicinity of the site.		
WASTE			
55	The Applicant shall:	Compliant	Conoral wasta contractor is Romandia. Viewad wasta reconsiliation and add
	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated	Compliant	General waste contractor is Remondis. Viewed waste reconciliation spreadshe
55	The Applicant shall:	Compliant	located around site.
55	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated	Compliant	located around site. During the IEA site visit, the Mine Services and CHPP Discussions included curr
55	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated	Compliant	located around site. During the IEA site visit, the Mine Services and CHPP Discussions included curr mine safety, the team responsible for life of main planning, emplacement of fine
55	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated	Compliant	located around site. During the IEA site visit, the Mine Services and CHPP Discussions included curr mine safety, the team responsible for life of main planning, emplacement of fine The CHPP is managed to avoid waste.
55	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated	Compliant	located around site. During the IEA site visit, the Mine Services and CHPP Discussions included curr mine safety, the team responsible for life of main planning, emplacement of fine The CHPP is managed to avoid waste. Coarse rejects are mixed with waste rock and not placed within 5m of the fi
55	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated	Compliant	 located around site. During the IEA site visit, the Mine Services and CHPP Discussions included curr mine safety, the team responsible for life of main planning, emplacement of fine The CHPP is managed to avoid waste. Coarse rejects are mixed with waste rock and not placed within 5m of the fi contractors and there are currently no issues in the dump. Coarse reject is not main the dump.
55	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated	Compliant	 located around site. During the IEA site visit, the Mine Services and CHPP Discussions included curr mine safety, the team responsible for life of main planning, emplacement of fine The CHPP is managed to avoid waste. Coarse rejects are mixed with waste rock and not placed within 5m of the fi contractors and there are currently no issues in the dump. Coarse reject is not m the geotechnical contractors.
55 (a)	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated by the development;		 located around site. During the IEA site visit, the Mine Services and CHPP Discussions included curremine safety, the team responsible for life of main planning, emplacement of fine The CHPP is managed to avoid waste. Coarse rejects are mixed with waste rock and not placed within 5m of the fine contractors and there are currently no issues in the dump. Coarse reject is not me the geotechnical contractors. The Coal and Allied Waste Classification procedures as outlined in the EIS have
55	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated		 located around site. During the IEA site visit, the Mine Services and CHPP Discussions included current mine safety, the team responsible for life of main planning, emplacement of fine The CHPP is managed to avoid waste. Coarse rejects are mixed with waste rock and not placed within 5m of the file contractors and there are currently no issues in the dump. Coarse reject is not method the geotechnical contractors. The Coal and Allied Waste Classification procedures as outlined in the EIS have Waste streams at MTW include: coal reject material, waste tyre and general waste
55 (a)	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated by the development;		 located around site. During the IEA site visit, the Mine Services and CHPP Discussions included curremine safety, the team responsible for life of main planning, emplacement of fine The CHPP is managed to avoid waste. Coarse rejects are mixed with waste rock and not placed within 5m of the fine contractors and there are currently no issues in the dump. Coarse reject is not me the geotechnical contractors. The Coal and Allied Waste Classification procedures as outlined in the EIS have
55 (a)	The Applicant shall: implement all reasonable and feasible measures to minimise the waste (including coal reject) generated by the development; ensure that the waste generated by the development is appropriately stored, handled and		 located around site. During the IEA site visit, the Mine Services and CHPP Discussions included current mine safety, the team responsible for life of main planning, emplacement of fine The CHPP is managed to avoid waste. Coarse rejects are mixed with waste rock and not placed within 5m of the file contractors and there are currently no issues in the dump. Coarse reject is not method the geotechnical contractors. The Coal and Allied Waste Classification procedures as outlined in the EIS have Waste streams at MTW include: coal reject material, waste tyre and general waste

e a decrease in topography ahead of mining and height of dumps

al control, has procedure for operating plant, where focus of lighting include sensitive receivers.

plant was not consistently positioned in accordance with existing

refer to revised Lighting and Management Leaders document

nned for screening are outlined in Section 3 of the Visual Screening 40) was planted along Putty Road (Nov 2019, CCC Minutes) (see

ewed at the third crossing into Mt Thorley pit (see Plate 17-18). against AS4282 (/NT) 1997.

ded that temporary lighting plant be inspected to ensure that pections documented.

and visual screening (Section 6.6 2019 AR). These are reported in

Rehab and Visual Screening Presentation provided by MTW during

m Dragline Crossing to Wallaby Scrub Road intersection. A Stage

on of the Secretary.

ail (as described in Sch 3 Cond 50) also describes fire equipment

sheet for 2019 which shows targets and volumes. Recycling bins

urrent and future planning for the tailings dam and how it relates to ne and coarse rejects.

e final landform. Stability testing is undertaking by geotechnical t mixed with poorer quality material. Historic tailing is managed by

we been replaced (GM pers comms).

vaste. below.

tion L4.3. Tyre waste is managed by the Technical Services team There have been no issues with tyre placement. EPL reporting of

Condition	Requirement		Status	Evidence
				tyre placement has recently changed (see EPL 1376 Cond R5.7). During the IE more than 30 heavy plant-tyres on the premises. Tyre waste is recorded in registree Tyre Processing Procedure.
(c)	monitor and report on effe Review.	ectiveness of the waste minimisation and management measures in the Annual	Not Compliant	No evidence that waste minimisation and management measures are minimisation and management measures are described in future ARs.
REHABILIT	ATION			
Rehabilitati	ion Objectives			
56	generally consistent with	abilitate the site to the satisfaction of the DRE. This rehabilitation must be the proposed rehabilitation strategy described in the EIS (and depicted in Appendix 6), and comply with the objectives in Table 13		WSP Annual Review details progress of mine rehabilitation progress against MOP plan
			Compliant	WSP
	Table 13: Rehabilitation objective	25	•	Annual Review details progress of mine rehabilitation progress against MOP pla
	<i>Feature</i> Mine site (as a whole)	Objective • Safe, stable and non-polluting • Materials (including topsoils, substrates and seeds of the disturbed areas) are recovered, appropriately managed and used effectively as resources in the rehabilitation of the site • Final landforms to: • sustain the intended land use for the post-mining domains; • be designed to minimise the visual impacts of the development; • be in keeping with the natural terrain features of the area; • be integrated with the rehabilitated landforms of		 completed during 2019 against a MOP target of 82.1 ha. Total disturbance undert ha. The additional reported disturbance was due to re-classification of topsoil stoc of rehabilitation resulted from an independent review of rehabilitation progress at I issued by the Resources Regulator on 5 July 2019. Tailings Dam 2 closure activities continued with capping completed on a portion ha of rehabilitation progress (i.e. rehabilitation minus rehabilitation disturbance is 35.6ha lower than the MOP target of 383.4ha. The net rehabilitation result has also been affected by the reporting of rehabilitation to disturbed land. Cumulative new disturbance over the MOP period is 377.9ha which is lower than

e IEA site inspection, it was confirmed that MTW were not storing jister which describes tyre type and x,y coordinates. Viewed Scrap

e reported in the Annual Review. Recommend that waste

olans.

plans at section 7 and states "A total of 82.7 ha rehabilitation was dertaken was 99.7 ha, higher than the 2019 MOP projection of 79.2 tockpiles from rehabilitation to disturbed land. This re-classification at MTW that was commissioned in response to section 240 notices ion of the southern area of the tailings beach. This allowed for 2.2 nce) for the current MOP period (2015 to 2019) is 347.8ha, which bilitation disturbance to account for the re-classification of topsoil

han the MOP forecast of 388.5ha for the same period."

Condition	Requirement		Status	Evidence		
	Feature Water quality	Objective surrounding mines; backfill the gap between the two main emplacements in accordance with the dozer (and dragline) option shown on the applicable figure in Appendix 6; incorporate micro-relief; and incorporate drainage lines consistent with topography and natural drainage where reasonable and feasible water retained on site is fit for the intended land use(s) for the poet micro-		HB The Rehabilitation Table is shown in Section 5 'Post Mining Land Use' and objectives of the defined management practices and re-establishment prog- vegetation, increase the long term fauna habitat and improve ecosystem funct being utilised for agricultural purposes or without conservation management is Section 6 of the MOP details how the MOP objectives (consistent with this co- measures and indicators reported. The Annual Review details progress of mi The Environmental Specialist Rehabilitation described the use/procedure for segregated green waste compost. The biosolid compost is analysed pre- guidelines. Soil testing is undertaken prior to applying the compost which deter Soil testing also calculates contaminant levels pre-application and threshold le		
		 Water discharged from site is consistent with the baseline ecological, hydrological and geomorphic conditions of the creeks prior to mining disturbance Water management is consistent with the applicable regional catchment strategy 		 been added to a procedure manual. Viewed compliance letter dated 10/12/19 letter references guideline. Nitrogen level in compost is controlling application rate to avoid nutrient run of applying 50t/ha. Compost used on spoil and topsoil. Topsoil contains weed a shortfall. There is the possibility that the new compost will not contain the requivience viewed soil sample results March 2020 for CD Dump. During the IEA site visiting Recommend to update rehabilitation procedures to include requirements. 		
	Final volds	 Designed as long term groundwater sinks and to maximise groundwater flows across back-filled pits to the final void Minimise: the size and depth of final voids the drainage catchment of final voids any high wall instability risk risk of flood interaction for all flood events up to and including the 1% AEP 		also included.		
	Biodiversity	 Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems comprising local plant species Vegetation to be established, with the restoration of at least 1,617 hectares of Central Hunter Grey Box – ironbark Woodland EEC Size, location and species of native tree lots and corridors are established to sustain biodiversity habitats Species are selected that re-establishes and complements regional and local biodiversity 				
	Surface Infrastructure	To be decommissioned and removed, unless the DRE agrees otherwise				
	Agriculture	 Land capability classification for the relevant nominated agricultural pursuit for each domain is established and self- sustaining within 5 years of land use establishment (first planting vegetation) 				
	Community	Ensure public safety Minimise the adverse socio-economic effects associated with mine closure				
Progressive	e Rehabilitation					
57	The Applicant shall reha following disturbance. All exposed for dust generat	abilitate the site progressively, that is, as soon as reasonably practicab I reasonable and feasible measures must be taken to minimise the total are ion at any time. Interim rehabilitation strategies shall be employed when area cannot yet be permanently rehabilitated.	a	As per Section 7.3 of the AR, progressive rehabilitation commitments are outline 2014 Environmental Impact Statements. These documents modelled a total of 1 a further 505.8ha to be completed by the end of 2023. At the end of the 2019 th MTW, 179ha ahead of the EIS forecast for the end of 2017 and tracking well to a discussed in Section 7.12 of the 2019 Annual Review, on the 17 June 201 rehabilitation areas at MTW which identified there were ongoing delays in observation, MTW was directed via two section 240 notices to undertake the of the rehabilitation progress to assess the adequacy of progressive rehabil strategies to date and provide a plan displaying the status of progressive rehabil progress was undertaken by Emergent Ecology and report submitted to the Rese issued two subsequent section 240 notices stating that the independent notices and directed MTW to submit a MOP amendment by 31 March 2020 in The Emergent Ecology report dated 30/9/19 defined and mapped the current do MTW site and compared the results to those reported in the 2018 AR. The results indicate that the actual areas of each rehabilitation domain/pt targets. Significant areas of rehabilitation were previously allocated to the Eco		

Section 5.3 'Project Rehabilitation Objectives' of the MOP. The rams contained within the MOP is to increase the quality of the on and resilience of up to 2,419 ha of land in a landscape presently hitiatives (MOP, Section 5.3).

ndition) will be met. Section 6.4 outlines the performance criteria, ne rehabilitation progress against MOP plans at section 7.

or biosolids. Biosolids are used onsite contained within the soil inspection and has a statement attached that it meets specific rmines biosolid amount application to meet the biosolid guidelines. evels. The procedure for biosolid application (and gypsum) has not 19 confirming compost meets requirements of biosolid quality and

off. Application rate of 100t/ha of compost approved but are only and is in shortfall, only 30% of what is disturbed, the compost fills uired amounts of nutrient.

sit, viewed fencing and signposting.

of biosolids guidelines. Recommend fly ash and other waste

ned in the Warkworth Continuation 2014 and Mt Thorley Operations in 1,103 ha of rehabilitation to be completed by the end of 2017, and there had been 1,282 hectares of rehabilitation completed across of achieve the forecast total rehabilitation area at the end of 2023. As 2019, the NSW Resources Regulator undertook an inspection of **in the progression of rehabilitation areas**. As a result of the **e following corrective actions: conduct an independent review** bilitation strategies and performance in implementation of those abilitation. In response, an independent review of the rehabilitation scources Regulator on 30 September 2019. **Resources Regulator t review had met the requirements of the original section 240** incorporating the recommendations of the independent review.

phase differ from the reported 2018 Annual Review and MOP cosystem and Land Use Development phase, however have now

Condition	Requirement	Status	Evidence
			 been re-allocated to the Ecosystem and Land Use Establishment phase. A allocated to grassland have been allocated to Woodland Other. Of the 1,207 H Land Use Establishment phase and 140 ha occurs in Growth Medium Developr Section 7 of the Emergent Ecology report recommended a number of short-and 1. Continue to implement annual weed management programs targeting gale Modify MOP criteria so that commitments in relation to the exotic compone overall objectives of the domain are maintained; Include more detail on the techniques used for each stage of rehabilitation grocess. And long term: Installation of nest boxes to satisfy completion criteria in development phas Consider supplementary seeding/planting/translocation of ground cover spibe low; Monitor tree and shrub density and consider thinning if they are determined. At the time of the audit, the following progress on the above recommendations: 1. Implemented. Weed control in rehabilitation areas is ongoing. Maps showir 2019. Implemented. MTW MOP Amendment C included change to performance has been changed to High threat Exotics (as specified under the Biodiversi Heritage 2017). Still to be implemented. Still to be implemented. Still to be implemented. Implemented. Thinning will be undertaken in response to high overstorey s Recommended the actions be documented and progress documented for The Rehabilitation Cost Estimate was also updated as a result of the independ 10% as a result of the re-classification (BB pers comms). Viewed email from Resources Regulator dated 28/4/20 acknowledging RCS deemed administratively complete. No further update as at 67/20. For geofluv construction (see Plate 19), mining team has initial responsibility fn handed to Project Team to bulk push. Drainage work is contracted. Viewed figure titled "Actual v EIS Rehab Progress 2019" (Rehabilitation Figure the Rehabilitation Progress of t
	Note: It is accepted that some parts of the site that are progressively rehabilitated may be subject to		This area is visible from the Golden Highway.
Rehabilitati	further disturbance at some later stage of the development.		
58	The Applicant shall prepare a Rehabilitation Management Plan for the development to the satisfaction of the DRE. and carry out the development in accordance with this plan. The plan must:		As per Section 1 of the approved MOP, the 'Mount Thorley Warkworth Mining C condition.
(a)	be prepared in consultation with the Department, NOW, OEH and Council and the CCC;	Compliant	Section 1.4.4 states that consultation with these groups occurred. Viewed lett review and OEH provided recommendations for updating matters in the MOP 1.3.1 of BMP).
(b)	be prepared in accordance with any relevant DRE guideline, including any NSW government policy regarding voids;	Compliant	The ESG3: Mining Operations Plan (MOP) Guidelines, September 2013 guidelines of the MOP. This section outlines the Performance Criteria, Measures and India MOP also makes reference to Guidelines for ecological rehabilitation of recognithe Upper Hunter Strategic Assessment' (OEH 2015).

- Additionally, areas of legacy sugar gum forest that were previously ' ha of rehabilitation assessed, 1,067 ha occur in Ecosystem and pment phase.
- nd long-term recommendations including short term:
- lenia, Rhodes grass, golden wreath wattle and prickly/tiger pear; nent of Woodland-Other are achievable, while still ensuring the
- n, including surface preparation, organic material spreading rates ne document, outlining detailed on all aspects of the rehabilitation
- ase. Nest boxes can be installed when trees are >10cm DBH; species in areas that monitoring determines diversity or cover to
- ed to be a threat to understorey/ground cover diversity. s had been made:
- ving weed control conducted in rehabilitation areas in 2018 and
- ce criteria so that previous reference to Exotic Plant Cover levels rsity Assessment Method (BAM) (Office of Environment and
- ature to erect nest boxes.
- stem densities.
- or review at next IEA.
- ndent review (BB pers comms). The RCE has increased around -
- S and MOP applications uploaded. Both applications have been
- for dumping at the correct RL using surveys. Construction then
- re) supplied by BB on 11/5/20. The figure shows a comparison of . The Rehabilitation Figure shows three phases of rehabilitation: velopment. It is unclear of the status of the "Ecosystem and Land habilitation at 2019). The physical location of the rehabilitation at t with that shown in the 2017 Mine Plan. However, the area of t Warkworth is tracking behind the 2017 Mine Plan. GM indicated ve to partially back fill South Pit Void. Autobahn Haulroad will be into South Pit Void. Closure of the Autobahn Haulroad is required Alternative rehabilitation areas have been found in other parts of ns."
- nces are the rehabilitation at the:
- to Plan 3E of the MOP, this area was placed to be within the illitation Figure shows this section to be classified as Growth
- MOP, this area was placed to be within the Ecosystem and Land this section to be classified as Growth Medium Development.

Operations Plan Amendment B' has been prepared to satisfy this

- etter from OEH dated 29/1/16 stating that MOP was provided for P and Biodiversity MP to which WML have incorporated (Section
- *elines* and Director General's Report are referenced in Section 6.4 dicators.
- gnisable and self-sustaining plant community types: Guidance for

Condition	Requirement	Status	Evidence
(C)	be submitted to the DRE for approval prior to carrying out any development under this consent;	Compliant	No NSW government policy exists on voids at the time of the audit. Viewed MOP Amendment B approval letter from Resources Regulator dated 11/
(d)	Describe how the rehabilitation of the site would be integrated with the implementation of the biodiversity offset strategy;	Compliant	Section 4.2.5 of the MOP outlines biodiversity management including the designate However, it is unclear how the rehabilitation of the site is integrated with the site i
			MOP is approved, this is compliant, however the next amendment should cla
(e)	include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);	Compliant	Section 6.3 outlines Domain Rehabilitation Objectives and Section outlines F Section 7 of the Annual Review provides a summary of rehabilitation and rehabili The Rehabilitation TARP is outlined in Section 9 of the MOP and identifies proporto to rehabilitation outcomes. It provides management responses for lower (first tie identify opportunities for closer monitoring or early intervention that may mitigate Second tier trigger values identify when indicators have reached a threshold that remediate or mitigate rehabilitation failure. The TARP is shown in Table 44 of the two trigger values recommend this is amended to clarify. As a result of the NSW Resources Regulator inspection on 30/5/18, it was not monitoring and TARP intervention' and they recommended the following correct
			 procedures for topsoil stripping, management, monitoring, TARP intervention a 7.12 of the 2018 AR, in response, "Topsoil stockpile inventory records are now being maintained to provide the foll topsoil source (including description of stripping area i.e. weed loads etc.); a stockpile establishment date, stockpile location, quantity, maintenance active Rehabilitation records are now being maintained to track the source of topsoil b inform decisions about the timing of sowing of native seed mixes (i.e. delayed sow weed control). Viewed topsoil inventory records for 2018/2019 showing topsoil
(f)	describe the measures that would be implemented to ensure compliance with the relevant conditions of	Compliant	include topsoil establishment date, volume of topsoil and maintenance act Rehabilitation implementation is described in Section 7 of the MOP and describes
(f)	this consent, and address all aspects of rehabilitation including timeframes for achieving specified rehabilitation objectives;		3a – 3g shows mining and rehabilitation timeframes for each domain in years 2 Sch 3 Cond 56 and 57. <u>WSP</u> Broadly discussed in Section 3.3 of the BMP. Annual Review provides details conditions.
(g)	includes a mine closure strategy, that details measures to minimise the long term impacts associated with mine closure, including final landform. final land use and socioeconomic issues;	Complaint	The final void is described in Section 6.2.5 of the MOP. Plan 4 of the MOP sho life (2035). WSP Although the MOP is approved, no mine closure strategy is included. Reco
(h)	include interim rehabilitation where necessary to minimise the area exposed for dust generation;	Compliant	The MOP does not specifically mention interim rehabilitation, if none required WSP Annual review references re-classification of rehabilitation and disturbed areas.
(i)	include a program to monitor, independently audit and report on the effectiveness of the measures, and progress against the detailed performance and completion criteria; and	Compliant	Section 8 of the MOP outlines the Rehabilitation Monitoring and Reporting for M development and EIS predictions. Site based environmental personnel also con <u>WSP</u> Rehabilitation monitoring program outlined in Section 3.3.2.3 of BMP. Section program. Annual Review mentions that the rehabilitation monitoring program in 2020 will be in an independent audit recommendation.
(j)	build to the maximum extent practicable on the other management plans required under this consent.	Compliant	Land preparation described in the MOP is integrated with the BMP (Section 4.2) outlines other management plans. The MOP has incorporated management plan
SCHEDULE	4 - ADDITIONAL PROCEDURES		
Notification	is of Landowners/tenants		
1 (a)	 Within 1 month of the date of this consent, the Applicant shall: notify in writing the owners of: the land listed in Table 1 of schedule 3 that they have the right to require the Applicant to acquire 	Compliant Not Triggered	Compliant last audit
	 their land in accordance with the procedures in conditions 5-6 below at any stage during the development; any residence on the land listed in Table 3 of schedule 3 that they have the right to request the Applicant to ask for additional noise mitigation measures to be installed at their residence at any stage during the development; and any privately-owned land within 2 kilometres of the approved open cut mining pits that they are entitled to ask for an inspection to establish the baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated; 		
(b)	notify the tenants of any mine-owned land of their rights under this consent (see condition 18 of schedule 3); and		Compliant last audit
(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 EIS identify that dust emissions generated by the development are likely to be greater than the relevant air quality criteria in schedule 3 at any time during the life of the development.		Compliant last audit

11/6/19.

gnation of offset areas under both the state and federal approvals. the implementation of the biodiversity offset strategy. As the larify this.

s Rehabilitation Performance Criteria, Measures and Indicators. ibilitation performance over the previous year,

poposed strategies in the event of unexpected variations or impacts tier) and upper (second tier) trigger values. First tier trigger values ate potential impacts before notable impact to rehabilitation occurs. that requires more substantive or widespread remedial actions to the MOP, and does not clearly delineate between tier one and tier

noted that the mine operators 'did not maintain records of topsoil rective action "Develop and implement a strategy for developing n and record keeping of topsoil activities". As reported in Section

following information for MTW stockpiles:

); and

ctivities (i.e. soil amelioration, weed control etc.).

I being applied to rehabilitation areas. This information is used to owing of native seed mixes in weedy topsoils to allow for presowing soiled area and source. **Recommend topsoil inventory record activities (i.e. soil amelioration, weed control etc.)**

bes the status of each domain at the start of the MOP period. Plans 2015 – 2021. The status of rehabilitation is discussed further in

ails of rehabilitation completed during last period to comply with

shows final rehabilitation and post-mining land use at end of mine

ecommend this is undertaken and included. Juired, should be clarified at next amendment.

r MTW. MTW is required to annually report performance against onduct regular inspections of all work areas (Section 4.1.5 MOP).

ion 7.1.1 of the Annual review outlined rehabilitation monitoring

be varied to reflect changes to MOP performance criteria resulting

.2). Risk Management (as described in Section 4.2 of the MOP), blan updates where required (Section 4.4 MOP)

Condition	Requirement	Status	Evidence
2	Prior to entering into any tenancy agreement for any land owned by the Applicant that is predicted to		
	experience exceedances of the recommended dust and/or noise criteria, or for any of the land listed in		
(0)	Table 1 that is subsequently purchased by the Applicant, the Applicant shall: advise the prospective tenants of the potential health and amenity impacts associated with living on the	Coo rooponoo to	Fact shasts were issued to residences on 19/12/2015 (2017 IEA)
(a)	land, and give them a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be	See response to Sch 3 Cond 18.	Fact sheets were issued to residences on 18/12/2015 (2017 IEA). Recommended that tenants are advised of the potential health and amenity
	updated from time to time); and		a copy of the NSW Health fact sheet every five years where ongoing tenants
(b)	advise the prospective tenants of the rights they would have under this consent, to the satisfaction of	See response to	
()	the Secretary.	Sch 3 Cond 18.	
3	As soon as practicable after obtaining monitoring results showing:		
(a)	an exceedance of any relevant criteria in schedule 3, the Applicant shall notify affected landowners in	Compliant	Viewed letter to landholder dated 18 April 2019 re: blast overpressure exceedance
	writing of the exceedance, and provide regular monitoring results to each affected landowner until the		
(1-)	development is again complying with the relevant criteria; and	Not Triggered	Net trippered during the IFA period (OM pero compres)
(b)	an exceedance of the relevant air quality criteria in schedule 3, the Applicant shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the	Not Triggered	Not triggered during the IEA period (GM pers comms)
	affected landowners and/or existing tenants of the land (including the tenants of any mine-owned land).		
INDEPEND	ENT REVIEW		
4	If an owner of privately-owned land considers the development to be exceeding the criteria in schedule		
	3 at his/her land, then he/she may ask the Secretary in writing for an independent review of the impacts		
	of the development on his/her land.		
	If the Secretary is satisfied that an independent review is warranted, then the Applicant shall:		
(a)	commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to:	Not Triggered	No requests during the IEA period (GM pers comms)
	consult with the landowner to determine his/her concerns;		
	 conduct monitoring to determine whether the development is complying with the relevant impact 		
	assessment criteria in schedule 3; and		
	• if the development is not complying with these criteria then:		
	o determine if the more than one mine is responsible for the exceedance, and if so the		
	relative share of each mine regarding the impact on the land;		
	o identify the measures that could be implemented to ensure compliance with the relevant criteria; and		
(b)	give the Secretary and landowner a copy of the independent review within 2 months of the Secretary's	Not Triggered	See response to part a of this conditions
LAND ACQ	decision, unless the Secretary agrees otherwise.		
5	Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant		
-	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 this written request, as if	Compliant	As per Sch 3 Cond 1, Land 34 and J were acquired during the IEA period, on the
	the land was unaffected by the development, having regard to the:		provided in email from Property team for
	• existing and permissible use of the land, in accordance with the applicable planning instruments at		Property 34, settled 22/8/2019
	the date of the written request; and		Property J, settled 31/1/2018.
	• presence of improvements on the land and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed		However, negotiations for Property 34 commenced in 2013 (prior to SSD-6464), a In regards to Property J, trigger letter was received 29/2/2016, and letter of offe
	subsequent to that date, but excluding any improvements that have resulted from the implementation		sighted at the time of the IEA.
	of the additional noise mitigation measures in condition 3 of schedule 3;		
(b)	the reasonable costs associated with:	Compliant	See response to Sch 4 Cond 5(a)
- *	• relocating within the Muswellbrook, Singleton or Cessnock local government area, or to any other		
	local government area determined by the Secretary; and		
	• obtaining legal advice and expert advice for determining the acquisition price of the land, and the		
(c)	terms upon which it is to be acquired; and reasonable compensation for any disturbance caused by the land acquisition process.	Compliant	See response to Sch 4 Cond 5(a)
(c)	However, if at the end of this period, the Applicant 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:		
	consider submissions from both parties;		
	• determine a fair and reasonable acquisition price for the land and/or the terms upon which the		
	 land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above; prepare a detailed report setting out the reasons for any determination; and 		
	 prepare a detailed report setting out the reasons for any determination, and provide a copy of the report to both parties. 		
	Within 14 days of receiving the independent valuer's report, the Applicant shall make a binding written		
	offer to the landowner to purchase the land at a price not less than the independent valuer's		
	determination.		1
	However, if either party disputes the independent valuer's determination, then within 14 days of		
	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		
	However, if either party disputes the independent valuer's determination, then within 14 days of		

ity impacts associated with living on the land, and provided nts.
nce in Warkworth
the 22/8/19 and 31/1/18 respectively. Viewed certificate of titles
), and continued until conclusion with certificates of title. ffer complying with SSD-6464 was made 20/5/2016. Letter not

Condition	Requirement	Status	Evidence
	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 Applicant 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 Applicant's binding written offer under this condition within 6 months of the offer being made, then the Applicant's obligations to acquire the land shall cease,		
	unless the Secretary determines otherwise.		
6	The Applicant shall pay all reasonable costs associated with the land acquisition process described in	Compliant	See response to Sch 4 Cond 5(a)
0	condition 5 above, including the costs associated with obtaining Council approval for any plan of	Compliant	
	subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.		
SCHEDULE	5 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING		
ENVIRONM	ENTAL MANAGEMENT		
Environme	ntal Management Strategy		
1	The Applicant shall prepare an Environmental Management Strategy for the development to the		
	satisfaction of the Secretary, and carry out the development in accordance with this strategy. The		
()	strategy must:		
(a)	be submitted to the Secretary for approval prior to carrying out any development under this	Compliant	Viewed approval letter from Secretary dated 28 Aug 2018.
(b)	Consent;	Compliant	
(b)	provide the strategic framework for environmental management of the development; identify the statutory approvals that apply to the development;	Compliant Compliant	The EMS Section 5 of the EMS
(c) (d)	describe the role, responsibility, authority and accountability of all key personnel involved in the	Compliant	Section 5 of the EMS
(u)	environmental management of the development;	Compliant	During the Mine Technical Services discussion and discussion with the Environr
			Viewed new starters training material. However, there is no formal training f
			environmental management and an informal training technique is raising environmental
			controls e.g through water carts.
			Viewed spreadsheet showing skills required for rehabilitation specialist (still bein
			Viewed training manual for blasting and includes permission pages, but pr
			Training on risk processes is provided to new employees, "New starters present
			Recommend to prepare a risk based environmental training program focu
()			regularly as toolbox talks or other methods and training recorded.
(e)	describe the procedures that would be implemented to:	Compliant	Section 6 and 7 of the EMS.
	• keep the local community and relevant agencies informed about the operation and environmental performance of the mine development;		Complaints are bought in via Roxanne and recorded in Intelex. Reviewed record or note, nature of complaint, action. Also reviewed text of complaint. Intelex I
	receive, handle, respond to, and record complaints;		recorded in spreadsheet. Prior to Intelex, all complaints were recorded in accord
	resolve any disputes that may arise;		Insite page has complaints line and instructions on how to make a complaint. V
	respond to any non-compliance;		road closure info, how to subscribe to blast text notification.
	respond to emergencies; and		Viewed complaints summary for 2020, broken down my month, other non-environ
			website not updated with monthly data.
(f)	include:	Compliant	Appendix E and Appendix B of the EMS.
	• copies of any strategies. plans and programs approved under the conditions of this consent; and		
	• a clear plan depicting all the monitoring required to be carried out under the conditions of this consent.		
Adaptive M			
2	The Applicant must assess and manage development-related risks to ensure that there are no		
	exceedances of the criteria and/or performance measures in schedule 3. Any exceedance of these		
	criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.		
	Where any exceedance of these criteria and/or performance measures has occurred, the Applicant		
	must, at the earliest opportunity:		
(a)	take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;	Compliant	See response to exceedances outlined in Sch 3 Cond 8 and 26. None have reo
(b)	consider all reasonable and feasible options for remediation (where relevant) and submit a report to the	Compliant	Broadbrush risk assessment undertaken periodically (GM pers comms). Report
(~)	Department describing those options and any preferred remediation measures or other course of action;		
	and		
(c)	implement remediation measures as directed by the Secretary.	Compliant	See response to exceedances outlined in Sch 3 Cond 8 and 26. Remediation ad
	nt Plan Requirements		
3	The Applicant shall ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:		
(a)		Compliant	Reviewed key management plans:
141	detailed baseline data;	Compliant	AQMP (App B), BMP (App F), NMP (Table 1), WMP (Section 7.2 and 8.1). Baseli
(u)			
(u)			
	a description of	Compliant	2.7 of each OMP. Data provided includes baseline condition against benchmark v AOMP (Section 1.2) BMP (Section 5, App E and Section 7) NMP (App A, Section
(b)	a description of: • the relevant statutory requirements (including any relevant approval, licence or lease conditions):	Compliant	AQMP (Section 1.2), BMP (Section 5, App E and Section 7), NMP (App A, Section
	a description of: • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria;	Compliant	

nment Manager.
for long-term employees. Managers are frequently discussing invironmental awareness through environmental monitoring and
ing prepared, not yet rolled out).
brogram has not been rolled out. htation dated 2019" includes lighting, dust, water management.
using on high priority areas. Program should be completed
rd number 1050 showing date and time, method, personal details has been used for the past two years, prior to that, complaints
rdance with this condition.
Viewed letter dated 7/1/2020 to near neighbours which contains
onment complaints re: wild pigs, hotline engaged, noise complaint
occurred in period.
rts provided to DPIE where requested in audit period.
actins undertaken where requested by the Secretary as above.
line ecological condition of each offect area is provided in Question
line ecological condition of each offset area is provided in Section values in which future monitoring events will be able to compare.
tion 6), WMP (Section 2,9.1 and 9.4).

e and commonwealth legislation. No overview of conditions relating in each OMP each condition is met. ection 4 of each OMP.

Condition	Requirement	Status	Evidence
	• 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;		Each broad management measure has specific performance criteria to judge performance
(c)	a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Compliant	AQMP (Section 5.2,8.1), BMP (Section 7.3), NMP (Section 6), WMP (Section 2,9.1 in Section 4 of each OMP.
(d)	a program to monitor and report on the: • impacts and environmental performance of the development; • effectiveness of any management measures (see c above);	Compliant	AQMP (Section 8), BMP (App E), NMP (Section 6 and 8), WMP (Section 9.4, App Monitoring program is provided in Section 5 of each OMP to evaluate the effecti area. Monitoring program included in section 3.3.2.3 and 4.2.3 of the BMP for mat (a) above.
(e)	a contingency plan to manage any unpredicted impacts and their consequences;	Compliant	AQMP (Section 6.3), BMP (Section 5.4), NMP (Section 6.5), WMP (Section 9.3). A identified potential unpredicted impacts and their consequences.
(f)	a program to investigate and implement ways to improve the environmental performance of the development over time;	Compliant	AQMP (Section 6.5), BMP (Section 5.5), NMP (Section 6.6), WMP (Section 9.6). of the BMP in relation to the development. Site staff have showed adaptive mana
(g)	protocol for managing and reporting any: • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and	Compliant	AQMP (Section 7,8 and App A), BMP (Section 7 and App E), NMP (Section 7 ar HHMP (Section 20), EMS (Section 7.5). Trigger, Response and Action Plan tables to be reported. These are also reported in the Annual Compliance Report. Exam letter for illegal tree clearing in the Southern BA 3rd October 2017.
(h)	a protocol for periodic review of the plan.	Compliant	AQMP (Section 8.3), BMP (Section 7.3), NMP (Section 8.5), WMP (Section 11). I and end of year 10.
	Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.		
Annual Rev			
4	By the end of March each year, the Applicant shall review the environmental performance of the development for the previous calendar year to the satisfaction of the Secretary. This review must:		
(a)	describe the development (including any rehabilitation) that was carried out in the past calendar year, and the development that is proposed to be carried out over the current calendar year;	Compliant	Reviewed 2019 AR, Rehabilitation described in Section 7, Section 4 describes the to be completed in the current calendar year.
(b)	include a comprehensive review of the monitoring results and complaints records of the development over the past year, which includes a comparison of these results against the: • relevant statutory requirements, limits or performance measures/criteria; • monitoring results of previous years; and • relevant predictions in the EIS;	Compliant	Reviewed key section of the 2019 AR. Section 6.2: Noise (real time noise results, and comparisons to previous years / E Section 6.3: Blast (blast results against criteria, and comparisons to previous year Section 6.4: Air (real time results, criteria and comparisons to previous years / EA
(c)	identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Compliant	Section 10 of the 2019 AR
(d)	identify any trends in the monitoring data over the life of the development;	Compliant	Section 6 of the 2019 AR, shows data since 2016-2017 for key environmental asp
(e)	identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	Compliant	Section 6 includes comparison to results predicted in the EA. See response to part
(f)	describe what measures will be implemented over the next year to improve the environmental performance of the development.	Compliant	Section 11 of the 2019 AR
Revision of	f Strategies, Plans and Programs		
<u>5</u> (a)	Within 3 months of: the submission of an: • annual review under condition 4 above; • incident report under condition 7 below; • audit report under condition 9 below; or	Not Compliant	 Annual review 2017, 2018 and 2019 in audit period. Viewed letter to DPIE for 2017 Four reportable incidents occurred during the IEA period: 4 Dec 2017 Water Incident. No evidence that a review was undertaken. 30 March 2019 Water Discharge Incident. 28 Dec 2018 Blast Incident. No evidence that a review was undertaken. 4 April 2019 Blast Incident - review of blasting permissions documented in BN The previous IEA was undertaken on 1-5/5/17 and did not require an update to the As noted by GM, management plan revisions that were undertaken following sub Event/2018 Annual Review submission. The 2019 Annual Review was submitted required until 30 June, with an additional 4 weeks following this review for revision Recommend record kept that review undertaken after each AR (could be included).
(b) (c)	any modification to the conditions of this consent (unless the conditions require otherwise), or the introduction of any NSW government policy regarding voids, the Applicant shall review, and if	Not Triggered Not Triggered	There were no modifications to SSD 6464 or SSD 6465 during the IEA period. There was no government policy regarding voids released during the IEA period (
	necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Secretary.		
	Where this review leads to revisions in any such document, then within 4 weeks of the review, unless the Secretary agrees otherwise, the revised document must be submitted to the Secretary for approval. 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 document		
Community	development. / Consultative Committee		
20mmunity	The Applicant shall operate a Community Consultative Committee (CCC) for the development to the	Compliant	The CCC met on a quarterly basis during the IEA period (Section 9.2.1 2017 AR,

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performance.

2,9.1 and 9.4). Measures to be implemented to comply ae provided

App B and App C). fectiveness of measures implemented in Section 4 at each offset matters relating to the development area. Refer to other notes in

3). A risk assessment is provided in Section 6 of each OMP which

0.6). Provided in Sections 1.3.2, Section 3.3.2.3 and Section 4.2.3 nanagement and continuous improvement

7 and App A), WMP (Section 9.4 and 9.5), ACHMP (Section 28), bles in the OMPs state when incidents and non-compliances need xample of incident reporting for non-compliance of the OMP is the

1). Included in each OMP – review 4 years after plan is approved

s the operations during the period, Section 11 describes activities

s / EA). years / EA). ν́ΕΑ).

aspects such as noise, air and water. part b of this condition.

2017 confirming review undertaken.

in BMP as a result of this incident.

to the management plans.

submission of the 2017 and the 30 March 2019 Water Discharge nitted in March 2020 and review of the Management Plans is not ision.

e included in AR), incident report (could be included in report)

od (GM pers comms)

AR, Section 8.2.2 2018 and 2019 AR.). The CCC is comprised of tative (Section 8.2.2, 2019 AR). MTW advertised for new members

Condition	Requirement	Status	Evidence
	Establishing and Operating Community Consultative Committees for Mining Projects (Department of Planning, 2007, or its latest version). It may also be combined with any CCC for the Warkworth mine.		to join the CCC over a period between 27 November 2019 to 17 January 2020, in local businesses in Bulga, and at the Singleton Council offices. In 2019, there were no representatives from a recognised environmental group (The CCC is attended by MTW's General Manager or Mine Manager. Long stand near MTIE, the level of the dump, progression of rehabilitation and delivery of re
	Notes: •The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent. •In accordance with the guideline, the Committee should be comprised of an independent chair and appropriate representation from the Applicant, Council, recognised environmental groups and the local community.		
REPORTIN	G		
Incident Re			
7	The Applicant shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Not Compliant	30 March 2019 Water Discharge Incident Notifications to the relevant regulatory authorities was undertaken, in accordance (PIRMP) (Section 10, 2019 AR). MTW self-reported to EPA 30/3/19 (EPL Annual Return). As reported in the incide division within 7 days of the incident i.e by 6/4/19. Incident report not sighted due 4 April 2019 Blast Incident Discussed under Sch 3 Cond 8. Preliminary report provided to DPIE 5/4/19 (EPL Annual Return). 28 Dec 2018 Blast Incident Discussed under Sch 3 Cond 8. Preliminary report provided to DPIE 5/4/19 (EPL Annual Return). 28 Dec 2018 Blast Incident Discussed under Sch 3 Cond 8. Preliminary results provided to DPIE and EPA 28/8/18 (EPL Annual Return) 4 Dec 2017 Water Incident Discussed in Sch 3 Cond 2.
Regular Re	porting		
8	The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Compliant	Viewed website 16 April 2020 with all reports for audit period available. Feb and March 2020 Monthly Environmental Monitoring Report (MEMR) not yet
AUDITING	•		
	nt Environmental Audit		IFA 4 was hold 4 5/05/47. This IFA represents in the 2nd sudit required under t
9	Within 1 year of the commencement of development under this consent. and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:		IEA 1 was held 1-5/05/17. This IEA represents in the 2nd audit required under t
(a)	be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;		D Munro holds Exemplar Certification (see Appendix D of this IEA). The IEA Te
(b)	include consultation with the relevant agencies;	Compliant	Consultation is outlined in Table 5 and Appendix A of this IEA.
(C)	assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);	Compliant	The results of the IEA against the EPL and Mining Lease is provided in Append
(d)	include an assessment - undertaken by an independent expert whose appointment has been endorsed by OEH - of the progress towards implementation of the biodiversity offset strategy in particular the regeneration of the Warkworth Sands Woodland against the detailed performance and completion criteria under the Biodiversity Management Plan (see condition 36 of schedule 3);	Compliant	WSP was endorsed by letter from DPIE dated 24/2/20 and undertook the assess shown in Appendix F .
(e)	review the adequacy of strategies, plans or programs required under the abovementioned approvals; and		This IEA
(f)	recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under the above-mentioned approvals.	Compliant	See Section 7 of this IEA.
	Note: This audit team must be led by a suitably qualified auditor and include experts in any field specified by the Secretary.	Noted.	
10	Within 6 weeks of the completion of this audit, unless the Secretary agrees otherwise. the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Compliant	The 2017 IEA was undertaken 1-5/5/17. MTW sought an extension to submis 16/7/17. MTW submitted the IEA report, together with the Response to Recommendation the IEA by 10/8/18, MTW resubmitted the IEA to DPE 10/8/18 to which DPE was
	O INFORMATION		
11	 From the commencement of development under this consent, the Applicant shall: (a) make the following information publicly available on its website: the EIS; current statutory approvals for the development; current statutory approvals for the development; approved strategies, plans or programs required under the conditions of this consent; a comprehensive summary of the compliance monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; 	Compliant	 Viewed MTW Website on 24 April 2020 at the following URL https://insite.yanco a) All of the documents listed were available on the website except the fol b) March 2020 MEMR, 2019 AR not yet available and should be include.

20, advertisements were placed in the Singleton Argus Newspaper,

up (Section 8.2.2, 2019 AR). anding issues include Putty Road closures, operation of the dragline f rehabilitation targets (DB pers comms).

nce with the MTW Pollution Incident Response Management Plan

ncident report (GM pers comms), DPIE was notified via compliance during IEA.

n 7 days of the incident.

vet available.

er the consent.

Team appointment endorsed by letter from DPIE dated 24/2/20.

ndix E Table C of this IEA.

essment against Sch 3 Cond 36 of SSD 6464. This assessment is

mission date of the IEA and was granted the submission date of

ations on 11/7/17. DPE requested a revision and re-submission of was satisfied.

coal.com.au/document-library following: luded

Condition	Requirement	Status	Evidence
	 the results of real time noise monitoring, updated daily (unless otherwise agreed by the Secretary); a complaints register, which is to be updated monthly; 		
	minutes of CCC meetings;		
	 the last five annual reviews of the development (for the last 5 years, if applicable); any independent environmental audit; and the Applicant's response to the recommendations in any 		
	audit;		
	any other matter required by the Secretary; and		
	(b) keep this information up to date;		



Table B Mount Thorley SSD 6465

		t money SSD 6465	
Condition	Requirement	Status	Evidence
	rley Continuation Project (SSD-6465), November 2015		
	2 - ADMINISTRATIVE CONDITIONS		
Obligation	to Minimise Harm to the Environment	-	
1	In addition to meeting the specific performance criteria established under this	See response to	
	consent, the Applicant shall implement all reasonable and feasible measures	condition in SSD	
	to prevent and/or minimise any material harm to the environment that may	6464	
	result from the construction, operation, or rehabilitation of the development.		
Terms of C			
2	The Applicant shall carry out the development:		
	(a) generally, in accordance with the EIS; and	Compliant	Within Mount Thorley, two small areas in the northern and southwestern extents
			of the mining lease will reach their final limits during 2020 with remaining reserves
			to be mined to depth during 2020 (Section 4.1 2019 AR).
	(b) in accordance with the conditions of this consent	Not Compliant	Some non-compliances identified in this table.
3	If there is any inconsistency between the above documents, the most recent	See response to	
	document shall prevail to the extent of the inconsistency. However, the	condition in SSD	
	conditions of this approval shall prevail to the extent of any inconsistency.	6464	
4	The Applicant shall comply with any reasonable requirement/s of the		
	Secretary arising from:		
	(a) any reports, strategies, plans, programs, reviews, audits or	See response to	
	correspondence that are submitted in accordance with this consent;	condition in SSD	
		6464	
	(b) rts, reviews or audits commissioned by the Department regarding	See response to	
	compliance that are submitted in accordance with this consent;	condition in SSD	
		6464	
	(c) the implementation of any actions or measures contained in these	See response to	
	documents.	condition in SSD	
		6464	
LIMITS ON			
Mining Ope			
5	The Applicant may carry out mining operations on site for 21 years from the	See response to	
	date of commencement of development under this consent.	condition in SSD	
		6464	
	Note:		
	Under this consent, the Applicant is required to rehabilitate the site and		
	perform additional undertakings to the satisfaction of the Secretary and the		
	DRE. Consequently, this consent 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.	1	

Mount Thorley Warkworth Independent Environmental Audit for Yancoal Mount Thorley Warkworth

Condition	Requirement	Status	Evidence
Coal Extra		Status	Lvidence
6	The Applicant shall not extract more than 10 million tonnes of ROM coal from the Mt Thorley mine in a calendar year.	Compliant	2020 forecast 0. 57 Mtpa (Section 4.3 2019 AR) 2019 – 0.71 Mtpa (Section 4.3 2019 AR) 2018 – 3.02 Mtpa (Section 4.3 2019 AR) 2017 – 4.08 Mtpa (Section 4.3 2018 AR)
Coal Trans			
7	The Applicant Shall:		
	(a) not transport any coal produced at the development by public road; and	See response to condition in SSD 6464	
	(b) ensure that the coal produced on site is only sent to Mt Thorley Coal Loader for transport by rail to export and/or domestic markets	See response to condition in SSD 6464	
COMMENC	EMENT OF DEVELOPMENT UNDER THIS CONSENT		
8	The Applicant shall:		
	(a) notify the Secretary in writing of the date of commencement of development under this consent; and	Not triggered	As per the 2017 IEA, "Letter dated 3rd Feb 2016, commencement date 15th Feb 2016."
	(b) may only commence development under this consent once the Secretary has agreed in writing that all perquisites to the commencement of development under this consent have been met.	Not triggered	As per the 2017 IEA, "Sighted letter from DP&E 8th Feb 2016 notifying MTW that all required documentation was in place."
SURREND	ER OF EXISTING DEVELOPMENT CONSENT		
9	By the end of January 2017, unless the Secretary agrees otherwise, the Applicant shall surrender the existing development consent (DA-34/95) for the Mt Thorley mine in accordance with Section 104A of the EP&A Act.	See response to condition in SSD 6464	
	Following the commencement of development under this consent, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of DA-34/95.		
STRUCTUR	RAL ADEQUACY		
10	The Applicant 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 and MSB.	See response to condition in SSD 6464	
	 Notes: Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates (where applicable) for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the development. The development is located in the Patrick Plains Mine Subsidence District, and under Section 15 of the Mine Subsidence Compensation Act 1961, the 		

Condition	Requirement	Status	Evidence
	Applicant is required to obtain the MSB's approval before constructing any improvements on the site.		
DEMOLITI			
11	The applicant shall ensure that all demolition work on site is carried out in accordance with <i>AS 2601-2001: The Demolition of Structures,</i> or its latest version.	See response to condition in SSD 6464	
PROTECTI	ON OF PUBLIC INFRASTRUCTURE		
12	Unless the Applicant and the applicable authority agree otherwise, the Applicant shall:		
	(a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and	See response to condition in SSD 6464	
	(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.	See response to condition in SSD 6464	
	Note: This condition does not apply to any damage to public infrastructure subject to compensation payable under the Mine Subsidence Compensation Act 1961, or to damage to roads caused as a result of general road usage.		
OPERATIC	ON OF PLANT AND EQUIPMENT		
13	The Applicant shall ensure that all plant and equipment used on site, or to monitor the performance of the development, is maintained and operated in a proper and efficient manner	See response to condition in SSD 6464	
DATING &	STAGING STRATEGIES, PLANS AND PROGRAMS		
14	With the approval of the Secretary, the Applicant may:		
(a)	(a) submit any strategy, plan or program required by this consent on a progressive basis; and	See response to condition in SSD 6464	
(b)	(b) combine any strategy, plan or program required by this consent with any similar strategy, plan or program required for the Mt Thorley mine.	See response to condition in SSD 6464	
	To ensure these strategies, plans or programs are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval. With the agreement of the Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all parties under the applicable condition of this consent <i>Notes:</i>		
	 While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times. 		

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Condition		Requirement	Status	Evidence
Condition	If the submission	of any strategy, plan or program is to be staged, then	Clarado	
		egy, plan or program must clearly describe the specific		
		e strategy, plan or program applies, the relationship of		
	this stage to any	future stages, and the trigger for updating the strategy,		
	plan or program.			
	TY ENHANCEMENT			
15		he date of this consent, unless the Secretary agrees ant shall enter into a VPA with Council in accordance		
	(a) Division 6 of P	Part 4 of the EP&A Act; and	One VPA, See	
			response to	
			condition in SSD	
			6464	
		Applicant's offer in its letter to the Department dated 4	See response to condition in SSD	
	May 2015		6464	
	-		0404	
	The VPA shall include provisions for the payment, collections, management and distribution of the contributions under the agreement, with a focus on			
	funding community infrastructure and services in the area surrounding,			
	including Bulga Villag			
	Note:			
		comprises a total contribution of \$11 million over 21		
		evelopment and the Warkworth Continuation Project		
	(SSD-6464).			
		L PERFORMANCE CONDITIONS		
ACQUISITIO	ON UPON REQUEST			
1		ten request for acquisition from the owner of the land	None (GM pers	
	listed in Table 1, the Applicant shall acquire the land in accordance with the procedures in conditions 5 and 6 of schedule 4.		comms)	
	Table 1: Land subject to acquisition upon request			
	Acquisition Basis	Land		
	Noise	144, 146, 149, 915		
	Air	К		
		·		

Mount Thorley Warkworth Independent Environmental Audit for Yancoal Mount Thorley Warkworth

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Condition	Requirement					ent		Status	Evidence
NOISE									
	Noise Criteria								
2	Except for the land in Table 1, the Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned property.							See response to condition in SSD 6464	
	Location	Land	Day (L _{Aeg (15ming})	Evening (L _{Aeg (15min)})	Night (L _{Aeg (15min}))	Night (LAT (Tmin))			
		75	40	40	40	50			
		42, 53, 55, 56, 57, 58, 60, 62, 63, 64, 66, 71, 72, 73, 82, 210, 211, 236, 252, 920	39	39	39	49			
	Bulga	16, 17, 19, 21, 24, 31, 35, 36, 37, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 52, 54, 61, 67, 70, 71, 80, 84, 89, 215, 234, 235, 237, 238, 243, 254, 903, 917, 918, 919, 929	38	38	38	48			
		18, 20, 22, 23, 26, 28, 38, 39, 230, 231, 253, 921, 922	37	37	37	47			
		12, 14, 15, 226, 227, 228, 229, 909, 928, 936	36	36	36	46			
		All other residences on privately owned land	35	35	35	45			
		111	37	37	37	47			
	Milbrodale	All other residences on privately owned land	35	35	35	45			
	Warkworth	All other residences on privately owned land	38	38	38	48			
	Maison Dieu	All other residences on privately owned land	35	35	35	45			
	October	126, 262	38	38	38	48			
	Gouldsville, Long Point	All other residences on privately owned land	35	35	35	45			
	Hambledon Hill/Wylies Flat	All other residences on privately owned land	35	35	35	45			
		148	39	39	39	49			
		190	38	38	38	48			
	Mt Thorley	150	37	37	37	47			
		All other residences on privately owned land	35	35	35	45			
	Note: To interpret the land referred to in Table 2, see the applicable figures in Appendix 3.								
	Note: To interpret the land referred to in Table 2, see the applicable figures in Appendix 3. Noise generated by the development is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy (as may be								

Condition		Require	ement	Status	Evidence
	as amended by which these crite with these crite an agreement	me-to-time) or an equiv Appendix 6 which sets iteria apply, and the req ria. However, these crit with the owner/s of the r vels, and the Applicant h	alent NSW Government noise policy, out the metrological conditions under uirements for evaluating compliance eria do not apply if the Applicant has elevant residence or land to generate has advised the Department in writing		
ADDITION		ATION MEASURES UP	ON REQUEST		
3	listed in Table mitigation measure the landowner outlined in the also be reasons impact. If within 3 mont the owner can dispute about t	1 or Table 3, the Applic sures at or in the vicinity These measures mus <i>Voluntary Land Acquisi</i> able and feasible and pro- hs of receiving this requinot agree on the measu	the owner of a residence on the land ant shall implement additional noise of the residence in consultation with at be consistent with the measures <i>tion and Mitigation Policy.</i> They must oportionate with the level of predicted est from the owner, the Applicant and res to be implemented, or there is a ese measures, then either party may olution.	Not Triggered	ID 148 still has mitigation rights upon request. ID 190 has been purchased. (GM pers comms)
	Table 3: Land subject to	o additional noise mitigation upon req	lest		
	Mitigation Basis	Characterisation of Impact	Receiver		
	Noise	Moderate	148, 190		
	Appendix 3DefinitionsVoluntary 1	3.	Table 3, see the applicable figures in derate mitigation are given in the tigation Policy.		
Operating	Conditions				
4	operatio	ent all reasonable and onal, low frequency and	feasible measures to minimise the road noise of the development;	See response to condition in SSD 6464	
	uses a c time no operation noise m	combination of predictive ise monitoring data to guo ons and the implement	e management system on site that e meteorological forecasting and real- lide the day to day planning of mining ation of both proactive and reactive ensure compliance with the relevant	See response to condition in SSD 6464	

Condition		Requirement	Status	Evidence
	(c)	minimise the noise impacts of the development during meteorological conditions when the noise limits in this consent do not apply (see Appendix 6); and	See response to condition in SSD 6464	
	(d)	ensure that;	See response to condition in SSD 6464	
		 all new trucks, dozers, drills and excavators purchased for use on the site after the date of this consent are commissioned as noise suppressed (or attenuated) units; and 		
		 the existing fleet of trucks, dozers, drills and excavators on site at the date of this approval is progressively fitted with suitable noise attenuation packages to ensure that 100% of the fleet being used on site is attenuated by the end of 2016; and 		
	(e)	carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent and, if necessary, adjust the scale of operations on site to meet the criteria in this consent	See response to condition in SSD 6464	
Noise Man	ageme	ent Plan		
5	to th	Applicant shall prepare a Noise Management Plan for the development ne satisfaction of the Secretary, and carry out the development in ordance with this plan. The plan must:		
	(a)	be prepared in consultation with the EPA, and submitted to the Secretary for approval prior to the commencement of any development under this consent;	See response to condition in SSD 6464	
	(b)	describe the measures that would be implemented to ensure compliance with the relevant noise criteria and operating conditions of this consent;	See response to condition in SSD 6464	
	(c)	describe the proposed noise management system in detail;	See response to condition in SSD 6464	
	(d)	include provisions for keeping the local community informed about the operation of the noise management system and monitoring programs (including any correction factors under the NSW Industrial Noise Policy), including regular briefings and a public information session within 6 months of granting this development consent;	See response to condition in SSD 6464	
	(e)	include a noise monitoring program that:	See response to condition in SSD 6464	
		 evaluates and reports on:- the (effectiveness of the noise management system;- the effectiveness of the noise attenuation program (see condition 4(d));- compliance against 		

Condition	Requirement	Status	Evidence
	the noise criteria in this consent; and- compliance against the noise operating conditions;		
	 includes a program to calibrate and validate the real-time noise monitoring results with the attended monitoring results over time (so the real-time monitoring program can be used as a trigger for further attended monitoring where there is a risk of non-compliance with the Nosie criteria in this consent); and 		
	 defines what constitutes a noise incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any noise incidents. 		
BLASTING			
Blasting C	The Applicant shall ensure that the blasting on site does not cause exceedances of the criteria in Table 4. However, these criteria do not apply if the Proponent has a written agreement with the relevant owner, and has advised the Department in writing of the terms of this agreement. Table 4: Blasting criteria Location Airblast overpressure (dB(Lin Peak)) Ground vibration (mm/s) Allowable exceedance Residence on privately owned land 120 10 0% 115 5 S% of the total number of blasts over a period of 12 months	Not Compliant	At the end of the 12 month 2019 calendar year, there were a total of 16 blast events initiated at MTO, of which a single blast vibration result at the Wollemi Peak Road monitor was recorded in the range of 5-10mm/s (actual result 5.69mm/s). Due to the small number of blasts at MTO, this has resulted in 6.3% of blasts at the Wollemi Peak Road monitoring location being in the range of 5- 10mm/s, which is greater than the requirements of development consent SSD-6465 which permits up to 5% of blasts to record in the range of 5- 10mm/s. Viewed notification to DPIE dated 29/5/20, and this is being updated in the Annual Environmental Review. DPIE advised that no further action at this time would be taken regarding the incident in letter dated 17/6/2020.
Blasting H	ours		
7	The Applicant shall only carry out blasting on site between 7am and 5pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.	See response to condition in SSD 6464	
Blasting Fr			
8	The Applicant may carry out a maximum of: (a) 2 blasts a day; and (b) 6 blasts a week, averaged over a calendar year, at the site.	See response to condition in SSD 6464 See response to condition in SSD	
	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, blasts misfires or	6464	

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Condition	Requirement	Status	Evidence
	blasts required to ensure the safety of the mine, its workers or the general public.		
	 Notes: 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. For the avoidance of doubt, should an additional blast be required after a blast misfire, this additional blast and the blast misfire are counted as a single blast. In circumstances of recurring unfavourable weather conditions (following planned but not completed blast events), to avoid excess explosive sleep times and minimise any potential environmental impacts, the Applicant may seek agreement from the Secretary for additional blasts to be fired on a given day. 		
9	The Applicant shall not carry out more than 1 blast a day within 500 metres of the Putty Road.	See response to condition in SSD 6464	
Property In	spections		
10	If the Applicant receives a written request from the owner of any privately- owned land within 2 kilometres of the approved open cut mining pit/s 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 updated, then within 2 months of receiving this request the Applicant shall: If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Proponent or the landowner disagrees with the findings of the property inspection report, either party may refer the matter to the Secretary for resolution.		
	 (a) Commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to: establish the baseline condition of any buildings and other structures on the land, or update the previous property inspection report; and identify <i>measures</i> that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and 	See response to condition in SSD 6464	
	(b) give the landowner a copy of the new or updated property inspection report.	See response to condition in SSD 6464	
	If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Applicant or the landowner disagrees with the findings of the property inspection report, either party may refer to the Secretary for resolution.		

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Condition	Requirement	Status	Evidence
Property In	ivestigations		
11	If the owner of any privately-owned land claims that buildings and/or structures on his/her land have been damaged as a result of blasting on the site, then within 2 months of receiving this claim the Applicant shall:		
	(a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to investigate the claim; and	See response to condition in SSD 6464	
	(b) give the landowner a copy of the property investigation report.	See response to condition in SSD 6464	
	If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Applicant shall repair the damage to the satisfaction of the Secretary. If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Applicant or the landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.		
Operating			
12	During mining operations on site, the Applicant shall:		
	 (a) implement all reasonable and feasible measures to: protect the safety of people and livestock in the surrounding area; protect public or private infrastructure/property in the surrounding area from any damage; and minimise the dust and fume emissions of any blasting; 	See response to condition in SSD 6464	
	(b) ensure that blasting on the site does not damage any historical heritage sites;	See response to condition in SSD 6464	
	(c) minimise the frequency and duration of any road closures, and avoid road closures during peak traffic periods; and	condition in SSD 6464	
	(d) operate a suitable system (including a hotline and website updates) to enable the public to get up-to-date information on the proposed blasting schedule on site.	See response to condition in SSD 6464	
	Note: To identify the historic heritage sites referred to in this condition, see the applicable figure in Appendix 4.		
13	The Applicant shall not undertake blasting on site within 500 metres of:		
	(a) any public road; or	See response to condition in SSD 6464	

		•	
Condition	Requirement	Status	Evidence
	 (b) any land outside the site that is not owned by the Applicant, unless: the Applicant has a written agreement with the applicable 	See response to condition in SSD	
	infrastructure authority or landowner to allow blasting to be	6464	
	carried out closer to the infrastructure or land, and the		
	Applicant has advised the Department in writing of the		
	terms of this agreement; or		
	the Applicant has:		
	 demonstrated to the satisfaction of the Secretary that the blasting can be carried out closer to the 		
	infrastructure or land without compromising the safety of		
	people or livestock, or damaging buildings and/or		
	structures: and		
	- 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		
	road or land.		
Blast Mana	agement Plan		
14	The Applicant shall prepare a Blast Management Plan for the development		
	to the satisfaction of the Secretary, and carry out the development in		
	accordance with this plan. This plan must:	-	
	(a) be prepared in consultation with the EPA, and submitted to the	See response to	
	Secretary for approval prior to carrying out any development under	condition in SSD	
	this consent;	6464	
	(b) describe the measures that would be implemented to ensure compliance with the blasting criteria and operating conditions of	See response to condition in SSD	
	this consent;	6464	
	(c) include a road closure management plan for blasting within 500	See response to	
	metres of a public road, that has been prepared in consultation with	condition in SSD	
	the RMS and Council;	6464	
	(d) include a monitoring program for evaluating the performance of the	See response to	
	development, including:	condition in SSD	
	 compliance with the applicable criteria; 	6464	
	 avoiding any blasting impacts on the historic heritage items 		
	referred to in condition 12 above; and		
	minimising the fume emissions from the site.		
AIR QUAL			
Air Quality			
15	The Applicant shall ensure that all reasonable and feasible avoidance and	See response to condition in SSD	
	mitigation measures are employed so that particulate matter emissions	6464	
	generated by the development do not cause exceedances of the criteria listed in Tables 5, 6 and 7 at any residence on privately owned land.	0404	
		1	

Condition	Requiremen	nt Sta	tatus Evidence
	Table 2 Long term report exestment refers for particular matter Inter Particular inter Armal 1°00 µg/m² Total supported particular (SD) matter Particular matter Table 2 Long term inpact exestment trefer for particular matter Particular matter Particulare for particular for particular for partic	concentrations due to all other ental increase in concentrations n); as insoluble solids as defined by 3580.10.1:2003: Methods for nbient Air - Determination of tter - Gravimetric Method; and such as bushfire, prescribed	
Mine Owne			
16	The Applicant shall ensure that all reasona mitigation measures are employed so that generated by the development do not cau listed in Tables 5, 6 and 7 at any occupied (including land owned by another mining or to the extent that:	at particulate matter emissions use exceedances of the criteria I residence on mine-owned land petroleum company, unless and	
	 (a) the tenant and landowner by company) have been notified of a such exceedances in accord requirements under schedule 4 of (b) the tenant of any land owned by the tenant owne	any health risks associated with condition i dance with the notification 6464 this consent;	n in SSD
	tenancy agreement without penal- reasonable notice and cause;		

Condition		Poquiroment	Status	Euidenee
Condition	(-)	Requirement	Status	Evidence
	(c)	air quality monitoring is regularly undertaken to inform the tenant or landowner (if the residence is owned by another mining or gas	See response to condition in SSD	
		company) of the particulate emissions at the residence; and	6464	
	(d)	date from this monitoring is presented to the tenant and landowner	See response to	
	(-)	in an appropriate format for a medical practitioner to assist the	condition in SSD	
		tenant and landowner in making informed decisions on the health	6464	
		risks associated with occupying the property.		
Operating				
17	The A	Applicant shall:		
	(a)	implement all reasonable and feasible measures to minimise the:	See response to	
		 odour, fume and dust emissions of the development; and 	condition in SSD	
		• release of greenhouse gas emissions from the	6464	
	(1.)	development;		
	(b)	comprehensive air quality management system that uses a	See response to condition in SSD	
		combination of predictive meteorological forecasting and real- time air quality monitoring data to guide the day to day planning of	6464	
		mining operations and the implementation of both proactive and	0404	
		reactive air quality mitigation measures to ensure compliance with		
		the relevant conditions of this consent;		
	(C)	minimise the air quality impacts of the development during adverse	See response to	
	(-)	meteorological conditions and extraordinary events (see notes to		
		Tables 5-7 above); and	6464	
	(d)	co-ordinate the air quality management on site with the air quality	See response to	
		management at nearby mines (including the Warkworth, Bulga,	condition in SSD	
		Wambo and Hunter Valley Operations mines) to minimise any	6464	
	<u> </u>	cumulative air quality impacts		
		gement Plan		
18		Applicant shall prepare a detailed Air Quality Management Plan for the		
		opment to the satisfaction of the Secretary, and carry out the opment in accordance with this plan. This plan must:		
	(a)	be prepared in consultation with the EPA, and be submitted to the	See response to	
	(a)	Secretary for Approval prior to carrying out any development under	condition in SSD	
		this consent;	6464	
	(b)	describe the measures that would be implemented to ensure	See response to	
	(~)	compliance with the relevant air quality criteria and operating	condition in SSD	
		conditions of this consent;	6464	
	(C)	describe the project air quality management system;	See response to	
			condition in SSD	
			6464	
	(d)	include provisions for keeping the local community informed about	See response to	
		the operation of the air quality management system and monitoring		
		programs, including regular briefings and a public information	6464	

•		0	- · ·
Condition	Requirement	Status	Evidence
	session within 6 months of the granting of this development		
	 consent; (e) include an air quality monitoring program that: 	Coo roononoo to	
	 (e) include an air quality monitoring program that: adequately supports the proactive and reactive air quality 	See response to condition in SSD	
	management system;	6464	
	evaluates and reports on:	-0+0+	
	- the effectiveness of the air quality management		
	system; and		
	- compliance against the air quality operating		
	conditions; and		
	defines what constitutes an air quality incident, and includes		
	a protocol for identifying and notifying the Department and		
	relevant stakeholders of any air quality incidents; and		
	(f) include a protocol that has been prepared in consultation with the	See response to	
	owners of nearby mines (including the Warkworth, Bulga, Wambo	condition in SSD	
	and Hunter Valley Operations) to minimise the cumulative air	6464	
METEODO	quality impacts of these mines and the development.		
19	LOGICAL MONITORING For the life of the development, the Applicant shall ensure that there is a		
19	meteorological station in the vicinity of the site that:		
	(a) complies with the requirement in the Approved Methods for	See response to	
	Sampling of Air Pollutant in New South Wales guidelines; and	condition in SSD	
		6464	
	(b) is capable of continuous real-time measurement of temperature	See response to	
	inversions in accordance with the NSW Industrial Noise Policy,	condition in SSD	
	unless a suitable alternative is approved by the Secretary following	6464	
	consultation with the EPA.		
WATER			
Water Sup			
20	The Applicant shall ensure that is has sufficient water for all stages of the	See response to condition in SSD	
	development, and if necessary, adjust the scale of mining operations to match its available water supply.	6464	
	mator no available water supply.		
	Note:		
	Under the Water Act 1912 and/or the Water Management Act 2000, the		
	Applicant is required to obtain the necessary water licenses for the		
	development.		
	Compensatory Water Supply		
21	The Applicant shall provide a compensatory water supply to the owner of any	See response to	
	privately-owned land whose basis landholder water rights as defined in the <i>Water Management Act 2000</i> are adversely and directly impacted as result	condition in SSD 6464	
I	water management Act 2000 are adversely and directly impacted as result	0404	I I

		01.1	
Condition	Requirement	Status	Evidence
	of the development. This supply must be provided in consultation with NOW,		
	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 attributable to the		
	development. Equivalent water supply should be provided (at least on an		
	interim basis) as soon as practicable from the loss being identified, unless		
	otherwise agreed with the landowner.		
	If the Applicant 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 Applicant is unable to provide an alternative long-term supply of water,		
	the Applicant shall provide alternative compensation to the satisfaction of the		
	Secretary.		
	Note:		
	The Water Management Plan (see condition 25) is required to include trigger		
	levels for investigation potentially adverse impacts on water supplies.		
Water Disc			
22	Unless an EPL or the EPA authorises otherwise, the Applicant shall ensure		
	that all surface water discharges from the site comply with the:		
	(a) discharge limits (both volume and quality) set for the development	See response to	
	in any EPL; and	condition in SSD	
		6464	
	(b) relevant provisions of the POEO Act or Protection of the	See response to	
	Environment Operations (Hunter River Salinity Trading Scheme)	condition in SSD	
	Regulation 2002	6464	
	Note:		
	For the avoidance of doubt, it is noted that the EPA will determine the		
	cumulative allowable salinity discharges to the Hunter River catchment,		
	according to rules of the Hunter River Salinity Trading Scheme and the		
	respective quantities of tradeable salinity credits held by participants in the		
	scheme (including the Bulga mine and other nearby mining operations).		
Nater Trar	isfers		
		•	

23	The Applicant may receive water from, and transfer water to, the Warkworth	See response to	
	mine, Bulga mine, Hunter Valley Operations mine and Redbank Power	condition in SSD	
	Station.	6464	

Condition		Requirement		Status	Evidence
	agement Perfor	mance Measures		Oluluo	Evidence
24		shall comply with the performance r the Secretary.	neasures in Table 8 to the	See response to condition in SSD 6464	Sediment is entering Loders Creek from active erosion of the creek banks near MTW and Bulga, this has been identified in 'Annual Stream Health and Channel Stability' reports'. The status of Loders Creek is reported in an annual Stream Health and Channel Stability program appended to the AR. Its results and recommendations for 2019 are provided and discussed in response to Sch 3 Cond 27 of SSD 6464. The performance measure for Loders Creek is to maintain or improve baseline channel stability and improve riparian health. The 2019 Report prepared by SLR concluded that "some sections of Loder Creek are currently eroding and are vulnerable to further erosion with areas of significant erosion observedThe RARC stream health assessment identified that the monitoring points on Loders Creek were classified as poor and average". The report recommended that MTW adopt a risk based approach to determine whether mitigation measures and/or improvement works are required at the monitoring points where erosion was observed.
25	The Applicant	shall prepare a Water Management			
		ction of the Secretary, and carry			
		th this plan. The plan must:	•		

Condition	Demularization	Chatter	Fulder -
Condition	Requirement	Status	Evidence
	(a) be prepared in consultation with the EPA, NOW and OEH and	See response to	
	submitted to the Secretary for approval prior to carrying out any	condition in SSD	
(1-)	development under this consent; and	6464	
(b)	in addition to the standard requirements for management plans (see	See response to	
	condition 3 of schedule 5), include a:	condition in SSD	
	(i) Site Water Balance that:	6464	
	includes details of:		
	 Includes details of. sources and security of water supply, including contingency 		
	 sources and security of water supply, including contingency planning for future reporting periods; 		
	 water use and management on site, including details of water 		
	sharing between neighbouring mining operations;		
	- any off-site water transfers and discharges;		
	 reporting procedures, including the preparation of a site water 		
	balance for each calendar year; and		
	 investigates and implements all reasonable and feasible measures 		
	to minimise water use on site;		
	(ii) Surface Water Management Plan, that includes:		
	detailed baseline data on surface water flows and quality in the		
	watercourses that could potentially be affected by the		
	development;		
	a detailed description of the water management system on site,		
	including the:		
	- clean water diversion systems;		
	 erosion and sediment controls (mine water system); and 		
	 mine water management systems including irrigation areas; 		
	detailed plans, including design objectives and performance		
	criteria, for:		
	 design and management of final voids; 		
	- design and management for the emplacement of coal reject		
	materials;		
	 reinstatement of drainage lines on the rehabilitated areas of the 		
	site; and		
	- control of any potential water pollution from the rehabilitated		
	areas of the site;		
	• performance criteria for the following, including trigger levels for		
	investigating any potentially adverse impacts associated with the		
	development:		
	- mine water management system;		
	- surface water quality of Loaders Creek; and		
	- channel stability, stream and riparian vegetation health of		
	Loaders Creek;		

Condition	Requirement	Status	Evidence
	 a program to monitor and report on: the effectiveness of the mine water management system; and surface water flows and quality, stream and riparian vegetation health in Loaders Creek potentially affected by the development; 		
	 a plan to respond to any exceedances of the performance criteria, and mitigate and/oroffset any adverse surface water impacts of the development; and 		
	(iii) Groundwater Management Plan, which includes:		
	 detailed baseline data on groundwater levels, yield and quality in the region, and privately-owned groundwater bores, that could be affected by the development; 		
	 groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts; 		
	 a program to monitor and report on: groundwater inflows to the open cut pits; the seepage/leachate from water storages, emplacements. backfilled voids, and final voids; the impacts of the development on: regional and local (including alluvial) aquifers; groundwater supply of potentially affected landowners; groundwater dependent ecosystems and riparian vegetation; base flows to Loaders Creek; and plane to respond to any exceedances of the groundwater 		
	 a plan to respond to any exceedances of the groundwater assessment criteria; and 		
	 a program to validate the groundwater model for the development. including an independent review of the model with every independent environmental audit, and compare the monitoring results with modelled predictions. 		

Condition				Rea	uirem	ent		Status	Evidence
HERITAGE									
Protection		age It	ems						
26						in Table 1 of Appendix 4.	Compliant	As per Schedule 3 of the ACHMP, protected areas fall under "Zone 1 Significant Area" of the MTW Aboriginal Cultural Heritage Zoning Scheme (CHZS). Zone 1 are "designed areas to protect all known Aboriginal Cultural Heritage sites, places or objects." Viewed 'MTW Cultural Heritage Zone Plan' dated 4/6/20. The sites listed under this condition are protected in Loders Creek Cultural Heritage	
	AHIMS No	Destricted	Place Name	Diaco Trmo	PAD	Status			Conservation Area (WC pers comms) which falls under Zone 1 of the CHZS. T
		Restricted		Place Type	rap				ACHMP states that "the CHZS is incorporated within the MTW Aboriginal Cultural
	37-6-0312		MT 26	Stone Artefact Scatter	-	Valid			Heritage GIS".
	37-6-0313		MT 27	Stone Artefact Scatter	-	Valid			
	37-6-0314	-	MT 28	Stone Artefact Scatter		Valid			
	37-6-0315		MT 29	Stone Artefact Scatter	•	Valid			
	37-6-0316		MT 30	Stone Artefact Scatter	•	Valid			
	37-6-0317	•	MT 31	Stone Artefact Scatter	-	Valid			
	37-6-0318		MT 32	Stone Artefact Scatter	-	Valid			
	37-6-0319	-	MT 33	Isolated Stone Artefact/s	•	Valid			
	37-6-0656		B73	Stone Artefact Scatter	· ·	Valid			
	37-6-0658		B 75	Stone Artefact Scatter	· ·	Valid			
	37-6-0659		B 76	Stone Artefact Scatter	•	Valid			
	37-6-0660		B 77	Stone Artefact Scatter	•	Valid			
	37-6-2717	-	AG-PAD-1	PAD	Yes P	Partially Destroyed			
Loaders C	reek Abo	origina	I Cultur	al Heritage C	onser	vation A	rea		
27	Within 3 years of the commencement of development under this consent, unless the Secretary agrees otherwise, the Applicant shall enter into a conservation agreement or agreements pursuant to section 698 of the National Parks and Wildlife Act 1974 relating to the Loaders Creek Aboriginal Cultural Heritage Conservation Area, recording the obligations assumed by the Applicant under the conditions of this consent in relation to the conservation area, and register the agreements pursuant to section 69F of the National Parks and Wildlife Act 1974.				, the App s pursuar ing to the ording the this cor ements p	licant shall enter into a t to section 698 of the Loaders Creek Aboriginal obligations assumed by asent in relation to the	Not Compliant	Viewed letter from DPE dated 15/2/19 providing extension to 15 Feb 2020. At the time of the IEA site visit, the Loders Creek Aboriginal Cultural Heritage Conservation Area had not been entered into a conservation agreement under this condition. It is intended that once the process for the Wollombi Brook Cultural Heritage Conservation Area is finalised with BCD, then Loders Creek ACHCA will follow using the established process (GM pers comms).	
	Note:			he figure in Anneadir A					
Aboriginal	The location of the conservation area is shown in the figure in Appendix 4.					nown in t	ne iigure in Appenaix 4.		
28					ininal	Heritane	Management Plan for the		
20	develop	oment	-	-	-	to	the velopment in accordance		
			. The pla		, -				

Condition		Requirement	Status	Evidence
	(a)	be prepared in consultation with OEH and Aboriginal stakeholders. and submitted to the Secretary for approval prior to carrying out any development under this consent;	See response to	
	(b)	include a detailed plan of management for the Loaders Creek Aboriginal Cultural Heritage Conservation Area;	Compliant	Approved separately. Viewed approval letter from DPIE dated 19.3.19.
	(c)	include a program to:	See response to condition in SSD 6464	
		 salvage, investigate and/or manage Aboriginal sites and potential archaeological deposits within the project disturbance area; assess and remove scarred trees within the disturbance area; protect and monitor Aboriginal sites outside the project disturbance area; manage the discovery of any new Aboriginal objects or skeletal remains during the development; facilitate access to archaeological sites on site for Aboriginal stakeholders; and Aboriginal stakeholders are consulted and involved in the conservation and management of Aboriginal cultural heritage on the site. 		
TRANSPOR	RT	nentage on the site.		
Monitoring		I Transport		
29		oplicant shall:		
	(a)	keep records of the amount of coal transported from the development in each calendar year; and	See response to condition in SSD 6464	
	(b)	make these records available on its website at the end of each calendar year.	See response to condition in SSD 6464	
VISUAL				
Operating				
30		pplicant shall:		
	(a)	implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development, including lighting impacts on road users and impacts of mining voids;		Additional bund - Charlton Ridge. Lighting audit discussed in SSD 6464 completed for both mines.
	(b)	establish and maintain vegetated bunds, vegetative screening and/or screen fencing along the	See response to condition in SSD 6464	

Condition	Requirement	Status	Evidence
	boundary of the site including adjoining public roads where		
	appropriate;		
	(c) ensure that all external lighting associated with the development	See response to	
	complies with Australian	condition in SSD	
	Standard AS4282 (/NT) 1997 - Control of Obtrusive Effects of	6464	
	Outdoor Lighting, or its latest		
	version; and	· ·	
	(d) monitor and report on the effectiveness of these measures.	See response to	
		condition in SSD	
	Initial works to establish the vegetative bunds and/or screening referred to in	6464	
	condition 30(b) must be undertaken within 6 months of the date of		
	commencement of development under this consent (unless otherwise		
	agreed by the Secretary), in accordance with a tree screening plan that has		
	been prepared in consultation with Council and to the satisfaction of the		
	Secretary. The use of screen fencing shall be limited to areas where		
	vegetative screening is not feasible, or as an interim measure prior to		
	establishment of vegetation.		
Additional	Visual Impact Mitigation		
31	Upon receiving a written request from the owner of any residence on	See response to	
	privately-owned land who has, or would have, significant direct views of the	condition in SSD	
	mining operations from this residence and/or its associated facilities (such as	6464.	
	pool or barbeque area) during the development. the Applicant shall		
	implement additional visual mitigation measures (such as landscaping or		
	vegetation screens) on the land in consultation with the landowner. These		
	measures must be reasonable and feasible, and directed towards reducing		
	the visibility of mining operations from the residence and/or its associated		
	facilities.		
	If within 3 months of receiving this request from the owner, the Applicant 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.		

Condition	Requirement	Status	Evidence
	Notes:	Olalus	LVIdence
	 Notes: The additional visual impact mitigation measures must be aimed at reducing the visibility of the mining operations on site from significantly 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 (i.e. the additional measures could involve the implementation of measures outside the affected property boundary that provide an effective reduction in visual impacts). Except in exceptional circumstances, the Secretary will not require additional visual impact mitigation to be undertaken for residences that are more than 5 kilometres from the mining operations. 		
BUSHFIRE	MANAGEMENT		
32	The Applicant shall:		
	(a) ensure that the development is suitably equipped to respond to any fires on site; and	See response to condition in SSD 6464	
	(b) assist the Rural Fire Service and emergency services as much as practicable if there is a fire in the vicinity of the site.	See response to condition in SSD 6464	
WASTE			
33	The Applicant shall:		
	 (a) implement all reasonable and feasible measures to minimise the waste (including coal reject) generated by the development; 	See response to condition in SSD 6464	
	(b) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and	See response to condition in SSD 6464	
	(c) monitor and report on effectiveness of the waste minimisation and management measures in the Annual Review.	See response to condition in SSD 6464	
REHABILI			
	ion Objectives		
34	The Applicant shall rehabilitate the site to the satisfaction of the DRE. This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the EIS (and depicted conceptually in the figure in Appendix 5), and comply with the objectives in Table 9.	Compliant	WSP Annual Review details progress of mine rehabilitation progress against MOP plans.

Condition		Requirement	Status	Evidence
Condition		Requirement	Status	Evidence
	Table 9: Rehabilitation objecti			
	Feature	Objective		
	Mine site (as a whole)	Safe, stable and non-polluling Materials including topolical substrates and seeds of the Materials including topolical substrates and seeds of the used effectively as resources in the rehabilitation of the site Final landforms to: o sustain the intended land use for the post-mining domains; o be designed to minimise the visual impacts of the development; o be in keeping with the natural terain features of the development; be in keeping with the natural terain features of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of the surrounding mines; be independent of the independent of		
		 incorporate drainage lines consistent with topography 		
	Water quality	and natural drainage where reasonable and feasible • Water retained on site is fit for the intended land use(s) for the post-mining domains • Water discharged from site is consistent with the baseline ecological, hydrological and geomorphic conditions of the creaks prior to mining disturbance • Water management is consistent with the applicable regional catchment strategy		
	Feature	Objective		
	Biodiversity	 Restore ecosystem function, including maintaining or estabilishing self-sustaining ecosystems comprising local plant species Vegetation to be established with at least 483 ha of Central 		
		Hunter Grey Box - Ionbank Woodland EEC • Size, location and species of native tree lots and comidors are established to sustain biodiversity habitats • Species are selected that re-establishes and complements regional and local biodiversity		
	Surface infrastructure	 To be decommissioned and removed, unless the DRE agrees otherwise 		
	Agriculture	 Land capability classification for the relevant nominated agricultural pursuit for each domain is established and self- sustaining within 5 years of land use establishment (first planting vectedation) 		
	Community	Ensure public safety Minimise the adverse socio-economic effects associated with mine-closure		
	e Rehabilitati			
35	The Applica	nt shall rehabilitate the site progressively, that is, as soon a	s See response to	
		practicable following disturbance. All reasonable and feasible		
		nust be taken to minimise the total area exposed for dus		
		t any time. Interim rehabilitation strategies shall be employed		
		prone to dust generation cannot yet be permanently	/	
	rehabilitated			
	Note:			
	It is accepted	d that some parts of the site that are progressively rehabilitate		
		ect to further disturbance at some later stage of the developmen		
	ion Managem	ent Plan		
36	The Applica	nt shall prepare a Rehabilitation Management Plan for the	9	
		t to the satisfaction of the DRE and carry out the development in with this plan. The plan must:	ו	

			-	
Condition		Requirement	Status	Evidence
	(a)	be submitted to the DRE for approval prior to carrying out any	See response to	
		development under this consent;	condition in SSD	
	(1)		6464	
	(b)	be prepared in consultation with the Department, NOW, OEH,	See response to	
		Council and the CCC;	condition in SSD	
			6464	
	(C)	be prepared in accordance with any relevant DRE guideline,	See response to	
		including any NSW government policy regarding voids;	condition in SSD	
	(1)		6464	
	(d)	include detailed performance and completion criteria for evaluating	See response to	
		the performance of the rehabilitation of the site, and triggering	condition in SSD	
	(-)	remedial action (if necessary); describe the measures that would be implemented to ensure	6464	
	(e)		See response to condition in SSD	
		compliance with the relevant conditions of this consent, and address all aspects of rehabilitation including timeframes for		
		achieving specified rehabilitation objectives;	6464	
	(f)	includes a mine closure strategy, that details measures to minimise	See response to	
	(f)	the long term impacts associated with mine closure, including final	condition in SSD	
		landform. final land use and socio economic issues;	6464	
-	(g)	include interim rehabilitation where necessary to minimise the area	See response to	
	(9)	exposed for dust generation;	condition in SSD	
		exposed for dust generation,	6464	
	(h)	include a program to monitor, independently audit and report on	See response to	
	('')	the effectiveness of the measures, and progress against the	condition in SSD	
		detailed performance and completion criteria; and	6464	
-	(i)	build to the maximum extent practicable on the other management	See response to	
	(1)	plans required under this consent.	condition in SSD	
			6464	
SCHEDULE	E 4 - ADI	DITIONAL PROCEDURES		
		LANDOWNERS/TENANTS		
1		1 month of the date of this consent, the Applicant shall:		
	(a)	notify in writing the owners of:	See response to	
	()		condition in SSD	
			6464	
		• the land listed in Table 1 of schedule 3 that they have the		
		right to require the Applicant to acquire their land in		
		accordance with the procedures in conditions 5-6 below at		
		any stage during the development;		
		• any residence on the land listed in Table 3 of schedule 3		
		that they have the right to request the Applicant to ask for		
		additional noise mitigation measures to be installed at their		
		residence at any stage during the development; and		

Condition	Requirement	Status	Evidence
	any privately-owned land within 2 kilometres of the		
	approved open cut mining pits that they are entitled to ask		
	for an inspection to establish the baseline condition of any		
	buildings or structures on their land, or to have a previous		
	property inspection report updated;		
	(b) notify the tenants of any mine-owned land of their rights under this consent (see condition 16 of schedule 3); and		
	(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 EIS identify that dust emissions generated by the		
	development are likely to be greater than the relevant air quality		
	criteria in schedule 3 at any time during the life of the development.		
2	Prior to entering into any tenancy agreement for any land owned by the		
	Applicant that is predicted to experience exceedances of the recommended		
	dust and/or noise criteria, or for any of the land listed in Table 1 that is		
	subsequently purchased by the Applicant, the Applicant shall:		
	(a) advise the prospective tenants of the potential health and amenity	See response to	
	impacts associated with living on the land, and give them a copy of	condition in SSD	
	the NSW Health fact sheet entitled "Mine Dust and You" (as may	6464	
	be updated from time to time); and	-	
	(b) advise the prospective tenants of the rights they would have under	See response to	
	this consent, to the satisfaction of the Secretary.	condition in SSD	
3	As soon as practicable after obtaining monitoring results showing:	6464	
3	(a) an exceedance of any relevant criteria in schedule 3, the Applicant	See response to	
	shall notify affected landowners in writing of the exceedance, and	condition in SSD	
	provide regular monitoring results to each affected landowner until	6464	
	the development is again complying with the relevant criteria; and	0101	
	(b) an exceedance of the relevant air quality criteria in schedule 3, the	See response to	
	Applicant shall send a copy of the NSW Health fact sheet entitled	condition in SSD	
	"Mine Dust and You" (as may be updated from time to time) to the	6464	
	affected landowners and/or existing tenants of the land (including		
	the tenants of any mine-owned land).		
1	ENT REVIEW		
4	If an owner of privately-owned land considers the development to be		
	exceeding the criteria in schedule 3 at his/her land, then he/she may ask the		
	Secretary in writing for an independent review of the impacts of the		
	development on his/her land.		
	If the Secretary is satisfied that an independent review is warranted, then the		
	Applicant shall:	1	

Condition	Requirement	Status	Evidence
	(a) commission a suitably qualified, experienced and independent	See response to	
	expert, whose appointment has been approved by the Secretary,	condition in SSD	
	to:	6464	
	 consult with the landowner to determine his/her concerns; 		
	 conduct monitoring to determine whether the development 		
	is complying with the relevant impact assessment criteria in		
	schedule 3; and		
	 if the development is not complying with these criteria then: 		
	o determine if the more than one mine is responsible		
	for the exceedance, and if so the relative share of		
	each mine regarding the impact on the land;		
	o identify the measures that could be implemented to		
	ensure compliance with the relevant criteria; and		
	(b) give the Secretary and landowner a copy of the independent review	See response to	
	within 2 months of the Secretary's decision, unless the Secretary	condition in SSD	
	agrees otherwise.	6464	
5	Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant 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	See response to	
	the date of this written request, as if the land was unaffected by the	condition in SSD	
	development, having regard to the:	6464	
	existing and permissible use of the land, in accordance with	0101	
	the applicable planning instruments at the date of the		
	written request; and		
	 presence of improvements on the land and/or any approved 		
	building or structure 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 noise mitigation measures in condition 3 of		
	schedule 3;		
	(b) the reasonable costs associated with:	See response to	
		condition in SSD	
		6464	
	relocating within the Muswellbrook, Singleton or Cessnock		
	local government area, or to any other local government		
	area determined by the Secretary; and		
	obtaining legal advice and expert advice for determining the		
	acquisition price of the land, and the terms upon which it is		
	to be acquired; and		

Condition	Requirement	Status	Evidence
Condition	(c) reasonable compensation for any disturbance caused by the land acquisition process.	See response to condition in SSD 6464	Lvidence
6	 However, if at the end of this period, the Applicant 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: consider submissions from both parties; determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above; prepare a detailed report setting out the reasons for any determination; and provide a copy of the report to both parties. Within 14 days of receiving the independent valuer's report, the Applicant 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 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 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 determination with the independent valuer is 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 determination. 	See response to	
0	The Applicant shall pay wall reasonable cost associated with the land acquisition process described in Condition 5 above, including the costs associated with obtaining Council approval of any plan of subdivision (where permissible) and registration of this plan with the Office of the Registrar- General.	See response to condition in SSD 6464	

Condition	Poquiromont	Status	Evidence
	Requirement E 5 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING	Status	Evidence
	IENTAL MANAGEMENT		
	ental Management Strategy		
1	The Applicant shall prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary, and carry out the		
	development in accordance with this strategy. The strategy must:		
	(a) be submitted to the Secretary for approval prior to carrying out any development under this consent;	See response to condition in SSD 6464	
	(b) provide the strategic framework for environmental management of the development;	See response to condition in SSD 6464	
	(c) identify the statutory approvals that apply to the development;	See response to condition in SSD 6464	
	 (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development; 	See response to condition in SSD 6464	
	(e) describe the procedures that would be implemented to:	See response to condition in SSD 6464	
	 keep the local community and relevant agencies informed about the operation and environmental performance of the mine development; 		
	 receive, handle, respond to, and record complaints; 		
	resolve any disputes that may arise		
	respond to any non-compliance;		
	respond to emergencies; and		
	(f) include:	See response to condition in SSD 6464	
	 copies of any strategies. plans and programs approved under the conditions of this consent; and 		
	• a clear plan depicting all the monitoring required to be carried out under the conditions of this consent.		
	lanagement		
2	The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EB8 A Act or EB8 A Peopulation. Where any		
	or offence provisions under the EP&A Act or EP&A Regulation. Where any		

Condition	Requirement	Status	Evidence
	exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:		
	 take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur; 	condition in SSD 6464	
	(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 course of action; and	See response to condition in SSD 6464	
	(c) implement remediation measures as directed by the Secretary.	See response to condition in SSD 6464	
Manageme	nt Plan Requirements		
3	The Applicant shall ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:		
	(a) detailed baseline data;	See response to condition in SSD 6464	
	 (b) a description of: the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures/criteria; 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; 	See response to condition in SSD 6464	
	 (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; 	See response to condition in SSD 6464	
	 (d) a program to monitor and report on the: impacts and environmental performance of the development; effectiveness of any management measures (see c above); 	See response to condition in SSD 6464	
	 (e) a contingency plan to manage any unpredicted impacts and their consequences; 	See response to condition in SSD 6464	
	(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	See response to condition in SSD 6464	

Condition	Requirement	Status	Evidence
	 (g) protocol for managing and reporting any: incidents; complaints; non-compliances with statutory requirements; and exceedances of the impact assessment criteria and/or performance criteria; and 	See response to condition in SSD 6464	
	(h) a protocol for periodic review of the plan.	See response to condition in SSD 6464	
	Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.		
Annual Re			
4	By the end of March each year, the Applicant shall review the environmental performance of the development for the previous calendar year to the satisfaction of the Secretary. This review must:		
	(a) describe the development (including any rehabilitation) that was carried out in the past calendar year, and the development that is proposed to be carried out over the current calendar year;	See response to condition in SSD 6464	
	 (b) include a comprehensive review of the monitoring results and complaints records of the development over the past year, which includes a comparison of these results against the: relevant statutory requirements, limits or performance measures/criteria; monitoring results of previous years; and relevant predictions in the EIS; 	See response to condition in SSD 6464	
	(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	See response to condition in SSD 6464	
	(d) identify any trends in the monitoring data over the life of the development;	See response to condition in SSD 6464	
	(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	See response to condition in SSD 6464	
	(f) describe what measures will be implemented over the next year to improve the environmental performance of the development.	See response to condition in SSD 6464	
Revision o	f Strategies, Plans and Programs		
5	Within 3 months of:		

Condition	Requirement	Status	Evidence
	(a) the submission of an:	See response to	
	annual review under condition 4 above;	condition in SSD	
	 incident report under condition 7 below; 	6464	
	audit report under condition 9 below; or		
	(b) any modification to the conditions of this consent (unless the	See response to	
	conditions require otherwise), or	condition in SSD	
		6464	
	(c) the introduction of any NSW government policy regarding voids,	See response to	
	the Applicant shall review, and if necessary revise, the strategies,	condition in SSD	
	plans, and programs required under this consent to the satisfaction	6464	
	of the Secretary.		
	Where this review leads to revisions in any such document, then within 4		
	weeks of the review, unless the Secretary agrees otherwise, the revised		
	document must be submitted to the Secretary for approval.		
	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 development.		
Community	Consultative Committee		
6	The Applicant shall operate a Community Consultative Committee (CCC) for	See response to	
	the development to the satisfaction of the Secretary. This CCC must be	condition in SSD	
	operated in accordance with the Guidelines for Establishing and Operating	6464	
	Community Consultative Committees for Mining Projects (Department of		
	Planning, 2007, or its latest version). It may also be combined with any CCC		
	for the Warkworth mine.		
	Notes:		
	The CCC is an advisory committee. The Department and other relevant		
	agencies are responsible for ensuring that the Applicant complies with this consent.		
	 In accordance with the guideline, the Committee should be comprised 		
	of an independent chair and appropriate representation from the		
	Applicant, Council, recognised environmental groups and the local		
	community.		
REPORTIN			
Incident Re	eporting		
7	The Applicant shall immediately notify the Secretary and any other relevant	See response to	
	agencies of any incident. Within 7 days of the date of the incident, the	condition in SSD	
	Applicant shall provide the Secretary and any relevant agencies with a	6464	
	detailed report on the incident, and such further reports as may be requested.		

Condition	Requirement	Status	Evidence
Regular Re	porting		
8	The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	See response to condition in SSD 6464	
AUDITING			
	nt Environmental Audit		
9	Within 1 year of the commencement of development under this consent. and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:		
	 (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; 	See response to condition in SSD 6464	
	(b) include consultation with the relevant agencies;	See response to condition in SSD 6464	
	 (c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); 	See response to condition in SSD 6464	
	(d) review the adequacy of strategies, plans or programs required under the above mentioned approvals; and	See response to condition in SSD 6464	
	(e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under the abovementioned approvals.	See response to condition in SSD 6464	
	Note:		

	Note: This audit team must be led by a suitably qualified auditor and include experts in any field specified by the Secretary.	
10	Within 6 weeks of the completion of this audit, unless the Secretary agrees otherwise. the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	See response to condition in SSD 6464
ACCESS TO	O INFORMATION	
11	The Proponent must:	
	(a) make the following information publicly available on its website:	See response to condition in SSD 6464
	 the documents listed in condition 2 of Schedule 2; 	

Condition	Requirement	Status	Evidence
	current statutory approvals for the project;		
	 approved strategies, plans or programs required under the 		
	conditions of this approval;		
	a comprehensive summary of the compliance monitoring		
	results of the project, which have been reported in		
	accordance with the various plans and programs approved under the conditions of this approval;		
	a complaint's register, which is to be updated on a monthly		
	basis;		
	minutes of CCC meetings;		
	the last five annual reviews;		
	 any independent environmental audit; and the Proponent's 		
	response to the recommendations in any audit;		
	any other matter required by the Secretary; and	0	
	(b) keep this information up to date.	See response to condition in SSD	
		6464	
APPENDIX	6		
	MPLIANCE ASSESSMENT		
Applicable	Meteorological Conditions		
1	The noise criteria in Table 2 of schedule 3 are to apply under all		
	meteorological conditions except the following:		
	(a) wind speeds greater than 3 m/sat 10m above ground level; or	See response to	
		condition in SSD 6464	
	(b) stability category F temperature inversion conditions and wind	See response to	
	speeds greater than 2 m/sat 10m above ground level; or	condition in SSD	
		6464	
	(c) stability category G temperature inversion conditions.	See response to	
		condition in SSD	
		6464	
	ion of Meteorological Conditions		
2	Except for wind speed at microphone height, the data to be used for	See response to	
	determining meteorological conditions shall be that recorded by the meteorological station located on the site.	condition in SSD 6464	
Complianc	e Monitoring	0404	
3	Attended monitoring is to be used to evaluate compliance with the relevant	See response to	
	conditions of this consent.	condition in SSD	

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Condition	Requirement	Status	Evidence
4	This monitoring must be carried out at least 12 times a year, unless the Secretary directs otherwise.		
5	Unless otherwise agreed with the Secretary, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time) or an equivalent NSW Government noise policy, in particular the requirements relating to:		
	(a) monitoring locations for the collection of representative noise data;	See response to condition in SSD 6464	
	 (b) meteorological conditions during which collection of noise data is not appropriate; 	See response to condition in SSD 6464	
	(c) equipment used to collect noise data, and conformance with Australian Standards relevant to such equipment; and	See response to condition in SSD 6464	
	 (d) modifications to noise data collected including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for: duration; or low frequency noise. where it is demonstrated that the dBC - dBA noise difference is caused by distance attenuation only. 	See response to condition in SSD 6464	

Table C Other Licences & Approvals

* Reasons for non-compliances with individual conditions are indicated in **bold and underlined**. Recommendations are **bolded**.

Instrument	Status	Comments
Instrument	Status	 A1.1: Coal works and mining for coal discussed in Sch 2 of SSD 6464. Crushing is carried out onsite to produce road base. Viewed coal crushing volumes. A2.1: Viewed figure dated 16/10/2018 defining the premise to which the licence applies. A3.1: There are 8 STP's onsite at Warkworth Viewed Approval to Operate On-site Sewage Management letter from SSC dated 1/7/19. P1.1: There are four monitoring points (plus one for MTIE) P1.3: MTW are in the process of planning a water transfer between EPL 1376 and EPL 1976. Recommend updating Water and Land Table as follows: Location Description for Discharge to pipe (EPA Identification No. 24), is required by Special Condition E2, not E3. Include mine name where discharge of mine water will occur to. P1.4: Six noise weather monitoring locations. P1.5 – P1.7: Viewed plans referenced in these conditions. L1.1: No pollution of waters has occurred under this condition (GM, pers comms) L2 and L3: As discussed in Sch 3 Cond 24 of SSD 6464, there has been no discharge during the IEA period. L4.1: Biosolids (see discussion under Sch 3 Cond 56 of SSD 6464), Flyash (Not Triggered, deposited on outer edge of TD2), Stormwater (Not Triggered), Coal
PL 1376	Not Compliant	 P1.5 – P1.7: Viewed plans referenced in these conditions. L1.1: No pollution of waters has occurred under this condition (GM, pers comms) L2 and L3: As discussed in Sch 3 Cond 24 of SSD 6464, there has been no discharge during the IEA period.
		 02.4: Viewed sewage treatment maintenance schedule for June & July 2019, showing work order number and type, and a description of works undertaken. 03.1: See response to Sch 3, Cond 17-20 of SSD 6464 03.2 - 03.3: Confirmed during the site inspection of the IEA. See response to Sch 3, Cond 17-20 of SSD 6464

Instrument	Status	Comments
		04: As discussed during the IEA site visit, a review of all effluent facilities is currently being undertaken. Viewed Work Order for Sewage Treatment Facility.
		Recommend that inspection / maintenance forms required under this condition, specifically refer to ponding (O4.3)
		05: Viewed PIRMP Action Summary, Section 6.2 outlines Testing requirements. Viewed PIRMP testing undertaken 24/10/19. PIRMP test simulated a multi-
		response exercise e.g Environment and Health and Safety, which included a fuel spill on the haul road. Test results highlighted that site communication could
		be improved.
		PIRMP tested 26/4/19, simulation dirty water leaving site. Test found no direct environmental comments, update to PIRMP contacts and regulatory notification
		required, training module be developed for PIRMP. Training module is being developed but not yet implemented (OL pers comms).
		O6: See response to Sch 3 Cond 55 of SSD 6464.
		07: See response to Sch 3 Cond 26 od SSD 6464
		M1 Viewed sample water data spreadsheet dated Dec 2019 which shows data dating back to 2016. MTW have recently transitioned to monitor pro. Verified
		Spreadsheet uploaded to MonitorPro. Viewed MonitorPro desktop which shows weekly charts. Viewed sample monthly field monitoring sheet dated 13/3/20 for
		Surface Water Dam, includes date, time, site and name of person who collected sample.
		M2.1-2.2: See response to Sch 3 Cond 17-20 of SSD 6464. As reported in the EPL Annual Returns, during the IEA period, there was a non-compliance
		against M2.2 for non-continuous data capture and non-compliance against M2.3 for not providing quarterly effluent monitoring samples. Viewed
		evidence (MTW Sewage Spreadsheet) of quarterly monitoring for faecal coliforms.
		M2.3: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464.
		M4.1: Viewed data logger example, MET station at Charlton Ridge. "Feb2020 Charlton Ridge AWS 10min". Viewed data collection, height of monitors confirmed
		by specialist via email dated 29/4/20. As reported in the EPL Annual Returns, during the IEA period, there was one non-compliance against M4.1 for
		failure to capture continuous data at the Charlton Ridge met station. Data capture from the Charlton Ridge met station was greater than 99% for the
		reporting period. Scheduled maintenance is undertaken at the met station and this can take monitoring equipment offline for 10 minutes or more due to the
		nature of the maintenance, which for example necessitates periodic lowering of the mast on which the wind speed and direction sensor is located and changing
		out sensors/calibrating etc. Calibrations need to continue to occur and so brief outages will need to occur from time to time
		E2: Viewed draft figure on 28 April
		M5 & M6: See response to Sch 5 Cond 1 of SSD 6464.
		M7: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464.
		M8: See response to Sch 3 Cond 8-16 of SSD 6464.
		M9: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464.
		R1: Viewed evidence of submission receipt dated 29/1/20 at 12.20, and viewed submission portal stating that Annual Returns submitted by the due date
		29/1/2018 and 29/1/19. R1.3 and R1.4 Not Triggers. Viewed Statement of Compliance pages signed by Director.
		R2 – Notification of environmental harm occurred once during the IEA period. PIRMP was triggered. Viewed file note evidence primp notification, 162612
		refence number from EPA. DPIE, DRG, SSC NSW Health notified.
		R2.2 – Viewed letter to EPA dated 5/4/19, copied in DPIE Compliance and DRG.

Instrument	Status	Comments
		R3 – Not triggered. However, request was made from EPA on 1/5/19 for rainfall data and a further information request made on 22/5/19. These requests were
		made in relation to the Water Discharge Incident on 30 March 2019 and were not made under this condition (GM, pers comms). WML provided a response to
		EPA on 12/6/19 and EPA subsequently issued a show cause on 13/6/19 asking for a response by 21/6/19. Reply from WML 21/6/19 viewed. Penalty notice
		issued from EPA 21/8/19, viewed. As are result of the blast event on 7 Aug 2019, EPA sent another information request on 13 Aug 2019 seeking information
		on blast event. WML provided a response on 2/9/19. Resulted in a penalty notice.
		R4 – Refer to R3 in relation to the Water Discharge Incident.
		R5.1-5.2: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464.
		R5.3 & R5.4: Viewed email from WML dated 5/4/19 reporting the 121dBa blast to EPA, viewed letter from WML dated 28/12/18 for blast 28 th Dec, notifying EPA
		Viewed annual return for blasting appended to Annual Return. Viewed Work Order for STP system service.
		R5.7 & R5.8: This is a new condition added in 2020, intelex action required to update processes.
		G1: Viewed hardcopy of the EPL onsite in administration foyer.
		G2 and E1: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464. As reported in the EPL Annual Returns, during the IEA period,
		there was one non-compliance against E1.1 for dam 46N overtop discussed in Sch 3 Cond 26 of SSD 6464.
		E2: Viewed draft figure on 28 April
		A1: The licence authorises activities at the Coal Handling and Processing Plant. The scale of coal works CHPP will continue via Warkworth, but mining for coal
		scale will decrease. Recommend consider reducing capacity for mining for coal if EPL varied.
		A2: Premises plan titled "MTO EPL 1976" viewed during the IEA.
		A3: See response to EPL 1376 Cond A3.1
		P1: Locations of monitoring points for air shown in the EPL, correlate with locations shown in management plans. L1: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464.
		L2: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464.
		L3: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464.
	Not	L4: See response to Sch 3 Cond 55 of SSD 6464.
EPL 1976	Compliant	L5: See response to Sch 3 Cond 81- of SSD 6464. Non-compliance for 5% of blasts <5mm/sec in EPL reporting period, reported in Annual Return for
	Compliant	MTO 1976 submitted to EPA on 29/5/20. Discussed further in SSD 6465 Sch 3 Cond 6.
		O1: See response to Sch 2 Cond 6/7 and Sch 3 Cond 55 of SSD 6464.
		O2: See response to Sch 2 Cond 13 of SSD 6464.
		O3: See response to Sch 3 Cond 17-20 of SSD 6464.
		O4: See response to EPL 1367 Cond O4
		O5: See response to EPL 1367 Cond O5
		O6: See response to Sch 3 Cond 26 of SSD 6464
		M1: See response to EPL 1367 Cond M1

Instrument	Status	Comments
		M2: Monitoring requirements undertaken. Viewed evidence (MTW Sewage Spreadsheet) of quarterly monitoring for faecal coliforms. As reported in the EPL
		Annual Returns, during the IEA period, there was one non-compliance against M2.2 for non-continuous data capture and against M2.3 for failure to
		sample at monitoring point 3. There were also non-compliances against Condition M.2 for failure to sample at monitoring point 3. Periodic maintenance
		and calibrations are required at the air quality monitoring points, which results in one or more periods of missing 10 minute data. There was a "failure" to sample
		at monitoring point 3 due to the area being dry, these are reported in the Annual Return. No regulatory action has been taken on dry sampling points by EPA
		in response to Annual Returns.
		M4: See response to EPL 1367 Cond M4.1. As reported in the EPL Annual Returns, during the IEA period, there were two non-compliances against
		M4.1 for failure to capture continuous data at the Charlton Ridge met station. Data capture from the Charlton Ridge met station was greater than 99% for
		the reporting period. Scheduled maintenance is undertaken at the met station and this can take monitoring equipment offline for 10 minutes or more due to the
		nature of the maintenance, which for example necessitates periodic lowering of the mast on which the wind speed and direction sensor is located and changing
		out sensors/calibrating etc. Calibrations need to continue to occur and so brief outages will need to occur from time to time.
		M5 & M6: See response to Sch 5 Cond 1 of SSD 6464
		M7: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464
		M8: See response to Sch 3 Cond 8-16 of SSD 6464
		M9: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464
		R1: See response to EPL 1376 Cond R1
		R2: See response to EPL 1376 Cond R2
		R3: See response to EPL 1376 Cond R2
		R4.1-4.2: See response to Sch 3 Cond 8
		R4.3: Not Triggered, no discharge, see response to Sch 3 Cond 24 of SSD 6464
R4.4 and 4.5 - See response to EPL 1376 Cond R3 & R5.4		·
		G1: See response to EPL 1376 Cond G1
		U1.1: Condition was required to be completed by no later than 20 September 2012, recommend to remove condition if EPL varied.
		1. Viewed MOP approval letter for 'Mount Thorley Warkworth Mining Operations Plan Amendment B' from Resources Regulator dated 11 June 2019
		2. See response to Sch 2 Cond 2 of SSD 6464
		3. See response to Sch 5 Cond 4 of SSD 6464. Viewed letter from DRE dated 2/2/2017 approving submission of AEMR for the calendar year as opposed to
		anniversary date
CCL 753	Compliant	14. Not applicable, there are no shafts, drifts or adits (GM pers comms)
		15. See response to Sch 3 Cond 57 of SSD 6464
		16. Does not apply (GM pers comms)
		17. See response to Sch 3 Cond 17 - 20
		18. None within tenement (GM and KA pers comms)
		19. None within tenement (GM and KA pers comms)

 north eastern corner of CCL 753. The TSR is located approximately 400m NE of the proposed NOOP. Test fire blasting has occurred for the NOOP, in and May 2019. Viewed Blast Impact Monitoring Plan for the NOOP which does not consider the TSR. 41. Not Triggered (GM pers comms). Viewed CCL753 Ausgrid Easement figure dated 1/5/20 which shows the Ausgrid 66 kv and 132 kv easement or eastern and northern edges of CCL753. A Blast Impact Monitoring Plan (BIMP) associated with construction of the NOOP considers the Ausgrid easemer these areas. The BIMP outlines monitoring requirements at two Ausgrid Power poles closest to the NOOP excavation. The maximum allowable peak pa velocity is 50mm/s at the Ausgrid Pole MT-30021 and 100m/s at the Ausgrid Pole MT-60020. The results of blast monitoring did not exceed this criteria did the IEA period. No other construction occurred in the vicinity of the Ausgrid 66 kv and 132 kv easement registered on tille benefiting Ausgrid loc east of North Pit. Recommend that MTW review this easement and confirm whether consent is required from Energy Australia to mine in this (when required). 43. See response to Sch 3 Cond 38-43 of SSD 6464 44. Viewed endorsement granted 2002, expires in 2023 47. Not Triggered (GM and KA pers comms) 46. Not Applicable, tenement granted 2002, expires in 2023 47. Not Triggered (KA pers comms) 49. Not Triggered (KA pers comms) 49. Not Triggered (KA pers comms) 	Instrument	Status	Comments
 22. Not Triggered (GM and KA pers comms) 23. Not Triggered (GM pers comms). 24. Not Triggered (GM pers comms). Water management areas are outlined in Section 6 the MOP 26. See response to Sch 3 Cond 8-16 of SSD 6464 27. Not Triggered (GM pers comms) 29. Not Triggered (GM pers comms) 29. Not Triggered (GM pers comms) 20. Not Triggered (GM pers comms) 20. Not Triggered (GM pers comms) 20. Not Triggered (GM pers comms) 21. Not Triggered (GM pers comms) 22. Not Triggered (GM pers comms) 23. Not Triggered (GM pers comms). This condition is applicable to Wallaby Scrub which is now closed 32. Not Triggered (GM pers comms) 33. Not Triggered (GM pers comms). Travelling Stock Route (TSR) 97817 is located on the eastern side of the Golden Highway near Gouldsville Road in north eastern comr of CCL 753. The TSR is located approximately 400m NE of the proposed NOPP. Test fire blasting has occurred for the NOPP which does not consider the TSR. 41. Not Triggered (GM pers comms). Viewed CCL753 Augrid Easement figure dated 1/5/20 which shows the Augrid 66 kv and 132 kv easement or eastern and northem edges of CCL753. A Blast Impact Monitoring Pain (BIMP) associated with construction of the NOOP considers the Augrid easement these areas. The BIMP outlines monitoring requirements at two Augrid power poles closes to the NOOP excavation. The maximum allowable pask pa velocity is 50mm/s at the Augrid Pole MT-30021 and 100m/s at the Augrid Pole MT-60020. The results of blast monitoring due to reveave 10. The maximum allowable pask pa velocity is 50mm/s at the Augrid Pole MT-30021 and 100m/s at the Augrid Pole MT-60020. The results of blast monitoring dui not exceed this criteria of the EA period. 42. Not Triggered (GM pers comms) 43. See response to Sch 3 Cond 38-43 of SSD 6464 44. Viewed endorsement tschedule removing this condition from tenements, therefore N/A<td></td><td></td><td>20. None within tenement (GM and KA pers comms)</td>			20. None within tenement (GM and KA pers comms)
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1 50. Viewed prospecting notification letters to the Director General dated 12/12/19 and 29/1/19. Additional notifications sent from mining tenements team			50. Viewed prospecting notification letters to the Director General dated 12/12/19 and 29/1/19. Additional notifications sent from mining tenements team (KA
pers comms)			

Instrument	Status	Comments		
		51. Viewed RCE approval letter, six bank securities in total. Viewed Security Schedule for six bank securities. Schedule outlines site, beneficiary, security type,		
		date of lodgement, back code, amount, reference number and applicable tenements.		
		54. Viewed royalty information from Revenue NSW website provided for MTO and WML showing royalty due date (monthly), period, amount, submitter, date of		
		submission, and status.		
		55. Not Triggered (GM pers comms)		
		56. Dam 48N was constructed in 2017 within CCL 753 to control sediment within Warkworth Pit (2017 Annual Review). The Water Management Plan (WMP)		
		states that erosion and sediment controls will be designed generally in accordance with the 'Blue Book': Managing Urban Stormwater: soils and construction,		
		but there is no evidence that Mining, Exploration and Geoscience (MEG) (or the District Inspector of Coal Mines) approved the WMP or the		
		construction of Dam48N. Dam 48N was a temporary sediment basin for pre-strip areas ahead of mining, and has been mined through by the advancing		
		Warkworth Pit during the audit period (GM pers comms).		
		58. Tailings Dam 2 (or Dam 33N) is the only prescribed dam within CCL 753. There has been no mining in this dam during the IEA period.		
		No exploration has occurred within this lease during the audit period. Small amount of mining in the north west, the rest was sediment and erosion control. (GM		
		pers comms)		
		1a. N/A, granted 17 March 2017. Notifications issued 13 April 2017 to DPIE, Dept of Lands Crown and Council, Dept of Water, SSC, Warkworth, Westpac		
		Banking. Landholder names sent to Department on the same day (KA pers comms)		
		1b. Not Triggered, seven in total (KA pers comms)		
		2. See response to Sch 3 Cond 58 of SSD 6464		
		3. See response to Sch 3 Cond 58 of SSD 6464. Viewed letter from DPE dated 18 May 2017 approving submission of AEMR for the calendar year as opposed		
ML 1751	Not	to anniversary date		
	Compliant	4. Not triggered (GM pers comms). Conditions 4 and 5 varied through an instrument of variation dated 19/2/18		
		5. See Incident Reporting at Sch 5 Cond 7 of SSD 6464.		
		6. N/A. There is no underground mining within ML 1751.		
		7. The lease holder is maximising resource recovery of minerals that are subject to this mining lease to the extent economically feasible, KA per comms		
		8. Viewed Security Schedule for bank securities. Schedule outlines site, beneficiary, security type, date of lodgement, back code, amount, reference number		
		and applicable tenements.		
		9. Viewed Exploration and mining titles on Minview, 21 May 2020: ML 1751 overlaps CCL 753 (indexing title). Viewed exploration reporting spreadsheet. Viewed		
		receipt for submission dated 16/3/20 for CCL753 (indexing title) and 1751, approval to complete annual report is against all mining tenements (KA pers comms)		
CL 219		CL 219 was renewed in 2002 (KA pers comms). MTW sublease an area of the neighbouring Bulga Coal tenement. Sublease of CL 219 registered to Bulga		
	Not	Coal, MTW signed to de-register. Bulga coal must comply with the conditions of CL 219, audited under the Bulga IEA		
	Not	1 and 2. See response to Sch 3 Cond 58 of SSD 6464		
	Compliant	3. See response to Sch 5 Cond 4 of SSD 6464. Viewed letter from DRE dated 2/2/2017 approving submission of AEMR for the calendar year as opposed to anniversary date		
		9. Not Triggered, no underground mining occurred		
		a. Not miggered, no underground mining occurred		

Instrument	Status	Comments
		14. Not applicable, there are no shafts, drifts or adits (KA pers comms)
		15. Not Triggered
		16. Not Triggered
		17. See response to Sch 2 Cond 17-20 of SSD 6464
		18. Not Triggered
		19. Not Triggered
		20. Not Triggered
		21. Refer to Sch 3 Cond 57 of SSD 6464 regarding Section 240 notices from the Resources Regulator.
		22. Not Triggered
		23. See response to Sch 3 Cond 56-58 of SSD 6464
		24. Not Triggered
		25. Not Triggered
		26. See response to Sch 3 Cond 8-16 of SSD 6464
		27. Not Triggered
		29. Not Triggered (GM pers comms)
		30. Not Triggered (GM pers comms). Erosion and sediment control is considered and avoidance procedures outlined in Section 4 of the MOP
		31. Not Triggered (GM pers comms). This condition is applicable to Putty and Charlton Road.
		32. Not Triggered (GM and KA pers comms)
		33. WMP addresses this condition, all activities are within the Hunter River Catchment (GM pers comms). Additionally, see response to Sch 3 Cond 22 - 27 of
		SSD 6464 and EPL 1976
		37. Not Triggered
		41. Not Triggered (GM pers comms)
		43. See response to Sch 3 Cond 38-43 of SSD 6464
		44. Viewed endorsement schedule (within CCL 753) removing this condition from tenements, therefore N/A
		45. Not Triggered (GM and KA pers comms)
		46. Not Triggered (GM and KA pers comms)
		47. Not Triggered (GM and KA pers comms)
		48. Not Triggered (KA pers comms)
		49. Not Triggered (KA pers comms)
		50. Viewed prospecting notification letters to the Director General dated 17/4/15, 29/1/19 and 12/12/19. Additional notifications sent from mining tenements
		team (KA pers comms)
		51. Viewed five bank guarantees; 27/7/13 for \$8,023,765, 23/6/16 for \$36,755,200; 11/7/16 for \$1,165,035; 14/2/19 for \$6,827,200; 28/3/19 for \$1,706,800; total
		\$54,478,000 is the new amount grouped with ML 1752

Instrument	Status	Comments	
		54. Viewed royalty information from Revenue NSW website provided for MTO and WML showing royalty due date (monthly), period, amount, submitter, date of	
		submission, and status.	
		55. MTW does not have development consent to disturb this area	

APPENDIX F WSP Tables

		2020 Status	
	E 5 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING		
	MENTAL MANAGEMENT ent Plan Requirements		
9	Within 1 year of the commencement of development under this consent and every 3 years thereafter, unless the secretary direct otherwise, the Applicant shall		
	commission and pay the full costs of an Independent Environment Audit of the development. This audit must:		
d)	include an assessment - undertaken by an independent expert whose appointment has been endorsed by OEH - of the progress towards implementation of the biodiversity offset strategy in particular the regeneration of the Warkworth Sands Woodland against the detailed performance and completion criteria under the Biodiversity Management Plan (see condition 36 of schedule 3);"		
	BMP Conservation Management Actions – (pg 41 BMP Table 17) Performance and Completion Criteria for the conservation management actions		
	Southern BA Supplementary Planting WSW, River Oak and CHCBW Planting Year 1 (2016) Collection of seed. Plant propagation. Tubestock planted. Completed survival	Complaint	Sighted Annual Re seedlings planted (2 (2019). Sighted Annual Rev 2017, 2018, 2019. Interview on site cor locations and evider
	assessment. Year 2 Collection of seed. Plant propagation. Tubestock planted. Completed survival assessment Year 3		provided. Detailed planting rev and 73 % (2019) Site env staff clear d survival and targeted Ecological monitorin trend toward the r benchmark values.
	Collection of seed. Plant propagation. Tubestock planted. Completed survival assessment Ecological monitoring demonstrates a positive trend toward the reference site or the benchmark values for HU872 for all attributes measured over three consecutive assessments (the average of all plots).		far from benchmarks
	Northern BA Supplementary Planting WSW, CHCBW Planting Year 1 (2016) Collection of seed. Plant propagation. Tubestock planted. Completed survival assessment. Year 2 Collection of seed. Plant propagation. Tubestock planted. Completed survival assessment Year 3 Collection of seed. Plant propagation. Tubestock planted. Completed survival assessment Year 3 Collection of seed. Plant propagation. Tubestock planted. Completed survival assessment Year 3 Collection of seed. Plant propagation. Tubestock planted. Completed survival assessment Ecological monitoring demonstrates a positive trend toward the reference site or the benchmark values for HU872 for all attributes measured over three consecutive assessments (the average of all plots).	Compliant	Sighted Annual Re seedlings planted (2 (2019). Sighted Annual Rev 2017, 2018, 2019. Interview on site cor locations and evider provided. Ecological monitorin trend toward the r benchmark values. V far from benchmarks Detailed planting rev and 73 % (2019) Site env staff clear d survival and targeted
	Northern Biodiversity Area – WSW Performance Criteria (2017) Performance criteria 1a At Year 15, successful regeneration of the WSG community will be determined if the following targets are me the following targets are met: a native species richness in Transition sites is statistically similar to or greater than Reference sites; exotic species richness and exotic % cover at Transition sites is statistically similar to or less than Reference sites; % cover of structural layers at Transition sites is statistically similar to Reference sites.	Compliant	Ecological monitorin trend toward the r benchmark values. V far from benchmarks The monitoring resu both SBA and NBA. Over storey cover i increased and struct

2020 Evidence

Review for 2017, 2018 and 2019 stating 10800 I (2017), 8000 tubestock in (2018) 3000 tubestock

Review for 2017, 2018 and 2019 seed collected in

confirmed seed collection is georeferenced with tag dence cited. Limited detail on quantity and species

reviews and evidence sighted of survival 71% (2017)

r demonstrated understorey of areas subject to poor ted supplementary in planting.

oring (Niche 2017) sighted demonstrates a positive e native species richness reference site or the s. While Over storey cover and Exotic Cover are still rks.

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Review for 2017, 2018 and 2019 seed collected in

confirmed seed collection is georeferenced with tag dence cited. Limited detail on quantity and species

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r demonstrated understorey of areas subject to poor ted supplementary in planting.

oring (Niche 2017) sighted demonstrates a positive e native species richness reference site or the s. While Over storey cover and Exotic Cover are still rks.

esults were supported by field inspections across A.

er is expected to trend as the planting age class ucture develops further.

Condition	Requirement	2020 Status	
	Performance criteria 2	Compliant	Exotic weed cover is a weed control actions Review 2017-2019). inspection. Recommendations Weed control is clear Rehabilitation and E Significant infestation weeds were observe areas, predominately Transition sites. The Performance crit cover at Transition si sites is currently in the significant action to a The current weed acceptable and in successfully manager against performance more intensive control implemented: • A digitised of return frequency prio medium to long term • Additional tr compost VS topsoils • Trials of ded effort reward improve • Trail areas of seeding in BOAs w infestations. Ecological monitorin
	At Year 15, successful regeneration of the WSG community will be determined if the minimum number of seedlings planted, their minimal survival rate and the minimum average number of characteristic WSW species, as shown in Table 7, is attained. Canopy/mid-storey 9,000 >75% survival and 2 or more species Shrubs 4,500 >75% survival and 3 or more species Ground cover 1,500 >75% survival and 6 or more species		reference site or the measured over three plots). Site inspection of the from 2018 and 2019 and groundcovers. The monitoring result both SBA and NBA. While relativity smal observed to have h species criteria, thes planting. Recomment Tubestock planting cu the 15 year targets. V 73 % (2019) are cur 75% survival, it is act within the BOAs. I performance target tubestock are met, i These additional pla species diversity act the WSW.

2020 Evidence

is still significant across transition sites. Substantial ons have been undertaken and Sighted (Annual 9). As well as evidence observed from in field

s

clearly a significant management issue for both BOAs and the hunter valley more generally. ions of a variety of pasture and exotic high threat rved within the Southern and Northern BOAs in tely in disturbed condition areas including WSW

criteria 1a "exotic species richness and exotic % n sites is statistically similar to or less Reference the early phase of treatment however will require achieve.

ed management controls on site is generally in accordance with key guidelines. However, gement and tracking of improvement in these areas ce and long term completion criteria may require ntrol actions. Recommended that he following be

d register of application area linked to proposed rior to consecutive seed set may further assist in m planning of weed control on site.

I trials areas and analysis of spoil compost Vs no ils in weed cover and density

edicated repeat control Vs non control to determine vements.

s of scalping, burning and or supplementary native with significant pasture and understorey weed

ring demonstrates a positive trend toward the he benchmark values for HU872 for all attributes ree consecutive assessments (the average of all

the NBA observed the majority of planting areas 19 to be >75% survival rate across canopy, shrub

sults were supported by field inspections across

nall proportion of areas of 2017 planting were higher mortality and diversity below the target nese areas were identified by site staff for infill end infill planting should be undertaken.

currently completed substantially trending towards . While current survival rates of 71% (2017) and surrently below year 15 performance targets of acknowledged that infill plantings is occurring . It is recommended that to ensure year 15 tets of 75% survival and minimum number of t, increased number of plantings are proposed. plantings should reflect the survival rates for across each of the different structural layers of