NON-COMPLIANCE RECOMMENDATIONS AND RESPONSES			
Ref	Non-Compliance	Hansen Bailey Recommendation	MTW Progress
Previous IEA			
Table 6	Review process for documenting training records for training required by approvals. Implement process for documenting these training records as required.	No outstanding recommendations from previous IEA.	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). This will be completed during the 2021 Annual Review period.
SSD 6464			
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".	Follow up with DPIE to seek surrender notice.	MTW followed up progress with DPIE during August 2020, and February 2021 and will follow up with DPIE to progress surrender of the relevant consent during the 2021 Annual Review period.
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.	Implement continuous improvement practices with the aim to avoid any blast exceedances.	MTW has already reacted with modification to blast practices in relation to each on the non-compliances noted, including engaging external investigations, modifications to blast permissions pages, and installing an additional weather station to assist review. As a further measure of continuous improvement, MTW are also working with stakeholders in the Hunter Valley to enable the implementation of a real time model, which will use real time meteorological data from weather stations throughout the Hunter Valley to better determine the effect of possible overpressure enhancement. Development of an MTW specific model is in its final stages of development, with testing and implementation expected to occur by end of June 2021.
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.	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.	MTW agree with this recommendation if next modification occurs prior to credits being retired for biodiversity areas. MTW will continue to progress current engagement path with Biodiversity Conservation Division regarding this condition as detailed in the IEA report. DPIE Sydney is also being consulted and has also been advised of progress with BCD. Estimated completion date for establishment of Biodiversity Stewardship Agreements and retirement of credits from the various Biodiversity Areas, is 30 November 2021.
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> .	Continue to progress long term security mechanism for ecology offset areas with relevant regulators.	MTW will continue to progress current engagement path with Biodiversity Conservation Division regarding this condition as detailed in the IEA report. DPIE Sydney is also being consulted and has also been advised of progress with BCD.

Ref	Non-Compliance	Hansen Bailey Recommendation	MTW Progress
			Estimated completion date for establishment of Biodiversity Stewardship Agreements and retirement of credits from the various Biodiversity Areas is 30 November 2021.
			OEH has not approved this plan yet despite being submitted fo approval within 12 months. Follow up with Biodiversity Conservation Division has occurred during April-May 2020 which indicated this item has moved up BCD priority list.
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.	Follow up with OEH to confirm that Integrated Management Plan for the Warkworth Sands Woodland EEC is to their satisfaction.	MTW to follow up with BCD on the status of the Integrated Management Plan for the Warkworth Sands Woodland EEC during site visit planned for 27 October 2020 with the intention to resolve during the 2020 Annual Review period.
			Approval status of the Integrated Management Plan for the Warkworth Sands Woodland EEC raised during the site visit on 27 October 2020 however no response has been received from BCD on approval of this plan.
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.	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.	The main delay associated with this project has been the access arrangements for research areas that are not located on land owned/managed by Yancoal. Timing to resolve access issues f parts of the currently proposed program located on non-MTW owned land to understand if access may be granted: By 31 July 2021. Within 3 months of understanding land access position, MTW proposing to consult with the relevant regulators and its registered Aboriginal parties (RAP's) regarding a revised scope works for the research program which will be tailored for research areas that are currently located on land that is currently owned or is under agreement with MTW. This will allow for the program to proceed without further delays
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.	Complete undertaking actions described in Section 240 notice issued by the Resource Regulator. Actions are being processed as described in Appendix E.	associated with legal agreements for access. MTW do not agree that this is not compliant regarding progressive rehabilitation. Rehabilitation progress on Woodlands Dump area has been delayed by move to partially back fill South Pit Void. Autobahn Haul road will be required to be kept open for longer to allow access for waste trucks to durinto South Pit Void. Closure of the Autobahn Haul road is required to progress rehabilitation on the south facing slope of Woodlands Dump. Alternative rehabilitation areas have been found in other parts of Warkworth Pit to allow rehabilitation progress to keep pace with EIS projections. Confirmation received from Resources Regulator on 24 Januar 2020 that the directions of section 240 notices NTCE0003219 and NTCE 0003168 had been satisfactorily addressed by the submission of the Emergent Ecology Report into rehabilitation progress at MTW. The requirements of subsequent section 24

NON-COMPLIANCE RECOMMENDATIONS AND RESPONSES					
Ref	Non-Compliance	Hansen Bailey Recommendation	MTW Progress		
			notices NTCE0004831 and NTCE0004858 have been addressed through the submission of the MTW MOP Amendment C on 31 March 2020. MTW MOP Amendment C was approved by Resources Regulator on 24 November 2020.		
SSD 6465	SSD 6465				
		Progress establishment of the Loders Creek Heritage Conservation Area Agreement with relevant regulators.	MTW has provided BCD with a draft Conservation Agreement for the WBACHCA for its consideration and continues to engage with BCD on the process for registering the WBACHCA conservation agreement.		
Sch 3 Cond 27	No evidence that the Loders Creek Aboriginal Cultural Heritage Conservation Area has been entered into a Conservation Agreement.		Once BCD has approved the WBACHCA conservation agreement it is MTW's intention to use the approved agreement as a template to draft and submit the LCACHCA conservation agreement for approval. Estimated timing for submission of LCACHCA conservation agreement to BCD post the WBACHCA process being completed is 30 August 2021.		

CONTINUAL IMPROVEMENT RECOMMENDATIONS			
Ref	Hansen Bailey Recommendation	MTW Progress	
SSD 6464			
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.	MTW agrees with this recommendation and have distributed a toolbox talk on mobile fleet sound suppression to all site personnel.	
Sch 3 Cond 7(e)	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. 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.	MTW are undertaking a regular comparison of real time and external noise monitoring. This comparison was undertaken in quarter four 2020 and will be discussed in Annual Reviews going forward. MTW have shown maximum values in Table 6.5 of the 2020 Annual Review and in Annual Review's going forward and the link in the AR has also be updated to facilitate ease of finding detailed noise results, as recommended.	
Sch 3 Cond 16(c)	Add statement in Road Closure Management Plan at next update that occupancy licences are updated annually.	A statement has been included in the main text of the revised Blast Management Plan that occupancy licences will be included in Appendix D (Road Closure Management Plan) of the BMP as they are updated and that an update to the Road Occupancy Licences in Appendix D will not trigger submission of an updated BMP to DPIE, but rather enable the current licences to be viewed. This revised Blast Management Plan was submitted for approval to DPIE on 28 July 2020, with approval pending.	
Sch 3 Cond 18(a)	Tenant and landowner on 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).	MTW will review notification methods, when last notification was undertaken, and where this is not already addressed in residential tenancy agreements, will develop a system to schedule renotification of tenants and landowners as every 5 years by the end of Q2 2021.	
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.	MTW has engaged an air quality consultant to clarify whether extrapolation from the current air quality monitoring network data provides representative data to inform tenants of the particulate emissions at their residence or if additional monitoring is required. This engagement and review have occurred and any outcomes will be assessed and implemented where required in 2021.	
Sch 3 Cond 19(c)	Ensure equipment downtime logging includes all environmental alerts.	Equipment downtime is currently categorised for "Dust" and "Environment". MTW have investigated the need for additional downtime categories in 2020 and although not deemed required, consider that it would be beneficial for increased clarity in reporting and for internal tracking purposes. MTW will look to implement an additional "Noise" category in 2021.	
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.	MTW has updated the inter-site communications protocol for environmental management within the AQMP, to minimise the cumulative air quality impacts with neighbouring mines and has submitted to DPIE for approval on 13 November 2020.	
Sch 3 Cond 19(d)	Document protocols to minimise the cumulative air quality with neighbouring mines within the AQMP	MTW has updated the inter-site communications protocol for environmental management within the AQMP, to minimise the cumulative air quality impacts with neighbouring mines and has submitted to DPIE for approval on 13 November 2020.	
Sch 3 Cond 27(b)(ii)	Progress the SLR recommendations in the annual Stream Health and Channel Stability report.	MTW is committed to progressing the recommendations in the annual Stream Health and Channel Stability report regarding observed erosion near monitoring points. This will commence with a preliminary environmental constraints review (cultural heritage, ecology, works near watercourse) during the 2021 Annual Review period to inform the scope of any further works.	

CONTINUAL IMPROVEMENT RECOMMENDATIONS			
Ref	Hansen Bailey Recommendation	MTW Progress	
	The recommendations in the 2019 Annual Groundwater Review conducted by SLR Consulting should be progressed:	MTW has reviewed the triggers and submitted the changes in the 2020 Water management Plan revision. This plan is yet to be formally approved.	
	 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. 	A consultant has been engaged to complete a monitoring network review which will address the other comments. Work has commenced and is scheduled for completion in the first half of 2021.	
	 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.		
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	MTW agree with the recommendation. A table will be added to BMP when agreement is reached with BCD on retirement of credits.	
	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).	Estimated completion date for establishment of Biodiversity Stewardship Agreements and retirement of credits from the various Biodiversity Areas is 30 November 2021.MTW will consult with DPIE on this matter if a modification occurs prior to credits being retired for biodiversity areas.	
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.	MTW added detail to the Trigger, Response and Action table in a draft update to the BMP by 13 November 2020. The updated BMP will be submitted post the AER 2021 submission.	

CONTINUAL IMP	ROVEMENT RECOMMENDATIONS		
Ref	Hansen Bailey Recommendation	MTW Progress	
Sch 3 Cond 36(e)	Implement the monitoring reports recommendations for the restoration of WSW and generally the Biodiversity Offset Area (BOA)s including:	Monitoring report recommendations to be implemented in monitoring period 2022 (2020 monitoring already completed).	
	Habitat restoration monitoring for the southern and northern BOAs (Niche 2018).	BMPs were updated to include salinity information by 13 November 2020.	
	 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		
	An assessment of the canopy recruitment at each transition site should be undertaken to determine if further planting or seeding is required.		
	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.	The Aboriginal Heritage Conservation Agreement (CA) is in progress. Yancoal MTW met with BCD on 11/3/20 to discuss. In order to register the CA on relevant land titles, a standard form (Form 13NP) is required to be signed by all relevant landowners and the Minister (being progressed during current Annual Review period). Updated survey sketch plans of the land to be included in the CA have since been prepared, with an update to the CA schedule of land and the associated Plan of Management is to be prepared for submission to BCD prior to end of 2021.	
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.	While formal salvage reports were not developed for these salvages, MTW can confirm that the salvages were undertaken in accordance with the methodology outlined in the sites ACHMP. All salvage activities were undertaken in consultation with the CHWG.	
		During the 2020 Annual Review period, MTW engaged a suitably qualified archaeologist to complete the salvage reports and ensured the site cards associated with the above-mentioned works were updated with AHIMS.	
Sch 3 Cond 43(b)	Original GDP forms and spreadsheet are updated following field inspection by Environmental team to confirm that all GDPs actions are completed and signed off.	During the 2020 Annual Review period, MTW relocated the Aboriginal Objects in accordance wit the recent Care Agreement from OEH.	
	 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. 		
Sch 3 Cond 46(d)	Add labels for the RAAF Base Bulga, Great Northern Road, the Brickhouse and Springwood Homestead to figures in the HHMP at next review.	MTW will include the labels for the relevant historic heritage sites in the next review of the sites Historic Heritage Management Plan.	
	Action recommendations from 'Archaeological Investigations of the Former RAAF Base Bulga' report dated March 2018 and report on in Annual Review.	MTW has developed a project schedule and budget to progress the recommendations outlined the sites Historic Heritage Management Plan and each Conservation Management Plan for its known heritage sites during the 2020 and the 2021 Annual Review period	
	Action recommendations from 'Mount Thorley Warkworth Historic Heritage Management Plan 2019 Compliance Audit Inspection' in the next period and report on in Annual Review.		

CONTINUAL IMPI	ROVEMENT RECOMMENDATIONS	
Ref	Hansen Bailey Recommendation	MTW Progress
Sch 3 Cond 52(a)	Amend internal Procedures and CRO Work Instruction to refer to revised 'Lighting and Management Leaders document' and training rolled out to relevant personnel.	The Lighting and Management - Leaders and Mining Supervisors procedure is available on the MTW document control system for use at MTW.
Sch 3 Cond 52(b)	Additional plantings designed and undertaken to reduce view at the third crossing into Mt Thorley.	MTW will review the location of this recommendation for additional plantings, and action if visual screening is deemed necessary. The location will be reviewed by 30 November 2020 and plantings completed by Autumn (May) 2021.
Sch 3 Cond 56	Update rehabilitation procedures to include requirements of biosolids guidelines. Recommend fly ash and other waste conditions from EPL are also included. 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;	MTW is already progressing adding the requirements of Biosolids Guideline to rehabilitation procedures. Requirements for other wastes listed in EPL will be added to rehabilitation procedures as required. Update rehabilitation procedures to include the requirements of the Biosolids Guidelines and requirements for other wastes listed in the EPL as required. Completion date 30 June 2021.
Sch 3 Cond 58(d)	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. 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.	MTW will review TARP during next MOP update to provide guidance on delineation for trigger values between Tier One and Tier Two responses. MTW will also consider how the biodiversity offset comments can be included in the next MOP amendment. Update MOP to provide guidance on delineation for trigger values between Tier One and Tier Two responses; and to clarify how the rehabilitation of the site is integrated with the implementation of the biodiversity offset strategy. Completed 13 November 2020. MOP Amendment C Sections 5.2.2 and 9.
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.	Include mine closure strategy items listed in Sch 3 Cond 58(g) in the next Rehabilitation Management Plan (MOP) amendment. Update MOP to Include mine closure strategy items listed in Sch 3 Cond 58(g). Completed 13 November 2020. MOP Amendment C Section 1.6.
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).	MTW will review notification methods, when last notification was undertaken, and where this is not already addressed in residential tenancy agreements, will develop a system to schedule renotification of tenants and landowners as every 5 years by the end of Q2 2021.
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.	MTW undertakes environmental training for new starters and at induction and maintains records of that training. MTW is looking to extend the environmental training based on risk for particular roles. This will include tool box talks, keeping a record of personnel attendance. A more formal training program will be developed and distributed to relevant site personnel. The formal environmental training program currently being developed will be rolled out prior to the end Q2 2021.

CONTINUAL IMPI	ROVEMENT RECOMMENDATIONS	
Ref	Hansen Bailey Recommendation	MTW Progress
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.	Scalping trials have been included in the 2020 planting strips at the NBA. Native grass seeding has also been included prior to tube stock planting at the NBA to increase species diversity in the groundcover. Increased number of planting are planned, draft BMP was updated to include this updated mapping by 13 November 2020.
	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.	MTW will request that this table be updated in the next revision to EPL1376.
04	Inspection / maintenance forms required under this condition be updated to specifically refer to ponding (O4.3).	MTW will review and update the sites effluent management system quarterly inspection checklist to include ponding by 30 June 2021.