### Mount Thorley Warkworth Complex (SSD-6464 and SSD-6465) – Independent Environmental Audit 2023 – Responses to Audit Findings

Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
6464				1
S2 C9	By the end of January 2017, unless the Planning Secretary agrees otherwise, the Applicant must 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.	Reported as non-compliant in the 2020 Annual Review. No documentation was available to the auditor that confirmed that the existing consents had been surrendered.	Work with DPE is close out the surrender of the development consents.	This is non-c An a conse 2017 DPE u MTW surrei Annus
S3 C5	From 1 January 2017, except for the land in Table 1, the Applicant must ensure that the noise generated by the Development does not exceed the noise criteria in Table 3 at any residence on privately owned land.	<ul> <li>Section 6.2.2/3 of each Annual Review presents the results of the noise monthly noise monitoring undertaken by independent consultants.</li> <li>A summary of compliance is as follows:</li> <li>2020 – no non compliances reported</li> <li>2021 - no non compliances reported</li> <li>2022 – six exceedances of the noise criteria were recorded</li> <li>One hundred and fifty-seven (157) noise complaints were received during the audit period. This consisted of 98 complaints in 2020, 49 in 2021, 47 in 2022 and 11 in 2023 (to the end of April. The Auditor notes that that 112 of the 162 (69%) noise complaints were from five residents.</li> <li>While there has been an improvement over the life of the project in the number of complaints (325 recorded in 2016), a contributing factor to the higher number of complaints during the early operational stages may potentially be attributed to a higher proportion of activities closer to ground level, with improvements achieved over the project life due to attenuation provided by the pit depth, mine walls and in acoustic vehicle technology.</li> <li>Prior to each shift, a predictive tool is utilised to assess potential impacts taking into account the prevailing meteorological conditions.</li> <li>MTW implements noise management and monitoring methods to identify if there is a potential issue and takes</li> </ul>	<ul> <li>Review current predictive tools and processes against available models that are currently being utilised in both the mining and construction industries with the objective of:</li> <li>Identifying areas on site that have the potential to impact noise sensitive receivers;</li> <li>Provides a Noise Impact Prediction Model that can be used by MTW to plan works in those areas with the objective to proactively ensure that noise from plant and equipment does not cause annoyance to local community and exceed the relevant criteria.</li> </ul>	MTW predic comp monit MTW

# MTW Response

s is noted in the audit report as an administrative n-compliance.

application to surrender the development nsent DA 300-9-20020i was submitted in June 17 and progressed with correspondence with E up to 2021.

W will continue to work with DPE to progress render of the relevant consent during the 2023 nual Review period (By December 2023).

W will review current and other available noise edictive tools used with the aim to seek to further inplement the already rigorous planning, noise initoring and management effort that is used at W. Complete by December 2023.

Compliance Requirement	Independent Audit Finding Following the receipt of noise complaints, a CRO is deployed	Independent Audit Recommendation	
	Following the receipt of noise complaints, a CRO is deployed		
	to make observations and measure noise levels (5-minute sample). In many instances the CROs observations have verified the complaint and the noise readings have indicated that the noise levels from the mine were exceeding the relevant criteria.		
	Where these potential exceedances are identified, MTW review the works being undertaken at the likely exceedance source and make changes to those works to reduce noise emissions.		
	The Auditor understands that noise modelling of future works that may impact sensitive receivers is not routinely undertaken.		
<ul> <li>The Applicant must:</li> <li>a) implement all reasonable and feasible measures to minimise the: <ul> <li>odour, fume and dust emissions of the development; and</li> <li>release of greenhouse gas emissions from the development;</li> </ul> </li> <li>c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d to Tables 5-7 above);</li> </ul>	Fifty-eight dust-related complaints were received during the audit period. No exceedances in dust criteria were reported during the audit period. Significant areas of the site have been cleared and progressive rehabilitation works are behind schedule. The Auditor also observed significant areas, that while not ready for final rehabilitation, would benefit from temporary stabilisation to help reduce dust emissions during adverse wind conditions.	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets. Prepare and implement a program for the stabilisation of unsealed / disturbed areas of the site including stockpiles, finished landforms, and disturbed areas that are not currently being actively worked / filled). The program should identify and classify all areas of the site that are currently disturbed according to the dust generation potential of those areas and establish clear targets for the stabilisation of those areas (either permanent or temporary) with the objective of meeting the requirements of the Blue Book.	MTV exce audi impl cons bein In r ackn has unde norn for r The inclu inter impr inter
Unless an EPL or the EPA authorises otherwise, the Applicant must ensure that all surface water discharges from the site comply with the: a) discharge limits (both volume and	The Annual Returns prepared for the Environment Protection Licence 1376 noted several non-compliances with this condition. Refer to audit schedule for EPL 1376 for details.	A risk assessment and review of the storage capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	by O MTW com dam peric
and Design, install and/or maintain mine water storage infrastructure to ensure no discharge	This commitment is included in Table 5.1 of the WMP. There have been two incidents that resulted in the	In relation to the incident on the 4/7/21, no further actions are recommended over and above the	Refe
	<ul> <li>a) implement all reasonable and feasible measures to minimise the: <ul> <li>odour, fume and dust emissions of the development; and</li> <li>release of greenhouse gas emissions from the development;</li> </ul> </li> <li>c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d to Tables 5-7 above);</li> <li>Unless an EPL or the EPA authorises otherwise, the Applicant must ensure that all surface water discharges from the site comply with the: <ul> <li>a) discharge limits (both volume and quality) set for the development in any EPL; and</li> </ul> </li> </ul>	Where these potential exceedances are identified, MTW review the works being undertaken at the likely exceedance source and make changes to those works to reduce noise emissions.The Applicant must: a) 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; c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d to Tables 5-7 above);Fifty-eight dust-related complaints were received during the audit period. No exceedances in dust criteria were reported during the audit period. Significant areas of the site have been cleared and progressive rehabilitation, would benefit from temporary stabilisation to help reduce dust emissions during adverse meteorological conditions.Unless an EPL or the EPA authorises otherwise, the Applicant must 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; andThe Annual Returns prepared for the Environment Protection Licence 1376 noted several non-compliances with this condition. Refer to audit schedule for EPL 1376 for details.Design, install and/or maintain mine water storage infrastructure to ensure no discharge for mine water off-site (except in accordance for mine water off-site (except in accordance forme water off-site (except in accordance)This commitment is included in Table 5.1 of the WMP. There have been two incidents that resulted in the the set off-site (except in accordance)	Where these potential exceedances are identified, MTW review the works being undertaken at the likely exceedance emissions.Interact works review the works being undertaken at the likely exceedance is not routinely undertaken.The Auplicant must: a) 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; c) minimise the air quality impacts of the relevelopment; c) minimise the air quality impacts of the stabilisation to help reduce dust emissions during adverse meteorological orditions and extraordinary events (see otherwise, the Applicant must ensure the all ourdex water discharges from the state all surface water discharges from the state andThe Annual Returns prepared for the Environment the stabilisation for seale extend in the big etcide of the Blue Book.A risk assessment and review of the storage for the tention licence 1376 noted several non-compliances and in the component in archability schedule for EPL 1376 for details.A risk assessment and review of the storage apacity of the retention dams be undertaken that take storage infrastructure to ensure no discharge for the environment andA risk assessment and review of the storage apacity of the retention dams be undertaken that take storage infrastructure to ensure no discharge for the storage apacity of the retention dams be undertaken that take is not addition. Refer to audit schedule for EPL 1376 for details.A risk assessment and review of the storage apacity of the retention dams be undertaken that take infrastructure to ensure no discharge take is included in Table 5.1 of the WMP. There have been two incidents that resuited in the attem in the development in any EPL;In relation to the incident

TW notes that the audit found there were no ceedances in dust criteria reported during the dit period. MTW has a well developed and plemented Air Quality Management Plan and nsiders that reasonable and feasible controls are ting implemented.

relation to rehabilitation progression, MTW knowledges the benefit rehabilitation progress is for minimising air quality impacts, and idertakes progressive rehabilitation as part of prmal mine operations. Refer to SSD-6464 S3 C57 r rehabilitation progression response.

he Air Quality Management Plan for MTW cludes as a control measures to undertake terim stabilisation works. As an opportunity for aprovement, MTW will identify further areas for terim stabilisation and prepare a program for the abilisation of inactive disturbed areas. Complete o October 2023.

TW notes the audit recommendation, and will mplete a risk assessment and review of retention ms, including consideration of extended wet priods by December 2023.

fer to response to SSD-6464 S3 C24.

Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
Ref	Compliance Requirement           mine infrastructure dams and treatment dams) are suitably designed, installed and/or maintained to minimise permeability           Maintain adequate freeboard within the pit void at all times to minimise the risk of discharge to surface waters	Independent Audit Finding The incident on 4/1/21 was from a water equipment park up area has spilled from a dam into a water course reporting into Wollombi Brook, the incident resulted penalty notices issued by both the DPE and EPA. In response to the Penalty notices, WML prepared an action plan which includes several actions relating to detailed engineering assessment, design and construction of civil infrastructure for improved surface water drainage infrastructure at WML North Pit North. Correspondence from DPE and WML confirms that the detailed design works for the North Pit North drainage improvements were completed in October 2021. The incident on 4/7/22 was reported as an overtopping event during a greater than design rainfall event. It was reported that samples were collected with no environmental harm caused. No further actions to prevent	Independent Audit Recommendation In response to the incident on the 4/7/22, it is recommended that a risk assessment and review of the storage capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	
S3 C28	Within 3 years of the date of commencement of development under this approval, the applicant will retire biodiversity credits of a class and number specified in Tables 9 and 10 below to the satisfaction of BCD.	recurrence were proposed by WML. DPE has yet to approve the retirement of biodiversity credits. However, it is acknowledged that some components such as the provision of supplementary measures (such as funding of research) have been met.	As the retirement of requisite credits is now over 4 years overdue, it is recommended that negotiations with the Department/BCD/BCT to reach an agreeable solution are given priority.	This non War mod SSD DPE time con revi
53 C30	Within 3 years of the date of commencement of the development under this consent, the Applicant must secure offset areas listed in Table 12 under an in-perpetuity conservation mechanism such as entering into a biobank agreement, in accordance with the relevant provisions of the TSC Act. The direct land- based offsets may be used as offsets for any approval required under the EPBC Act for this development.	areas were to be secured under an in-perpetuity mechanism 14 February 2019 (i.e. within 3 years of commencement).	As the securing of offset areas under an appropriate mechanism is now over 4 years overdue, it is recommended that negotiations with the Department/BCD/BCT to reach an agreeable solution are given priority.	This non Refe
3 C34	Within 12 months of the commencement of the development under this consent, the Applicant must prepare an Integrated Management Plan for the Warkworth Sands Woodland EEC to the satisfaction of BCD. This	Correspondence sighted confirmed that BCD had received the WSW IMP as submitted by WML. Correspondence from BCD confirmed that the review of the 2018 IMP was largely complete. However no subsequent correspondence	Work with BCD to progress the outstanding approval as a high priority.	This non

his is noted in the audit report as an administrative on-compliance.

arkworth Mining Ltd (WML) has lodged a odification application for development consent 5D6464 (MOD1), and has been in dialogue with PE and BCD/BCT regarding this matter. The meline for resolution is not known, however will ontinue to be progressed in the 2023 Annual view period. By December 2023.

his is noted in the audit report as an administrative on-compliance.

efer to response to SSD-6464 S3 C28.

is is noted in the audit report as an administrative on-compliance.

NON-COMPLIANC	E RECOMMENDATIONS AND RESPONSES			
Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
	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.	sighted and no correspondence/documentation provided regarding approval of WSW IMP provided. It is noted that the WSW IMP has been prepared and provided to BCD. Non-compliance is mainly due to the document not yet being approved by BCD (i.e not approved within 12 months of the commencement of the development.		MTW appro review
S3 C51	<ul> <li>The Applicant must:</li> <li>a) keep records of the amount of coal transported from the development in each calendar year; and</li> <li>b) make these records available on its website at the end of each calendar year.</li> </ul>	The 2020 and 2021 Annual Reviews are publicly available on the MTW website; however, the 2022 Annual Review was not on the website at the time of this IEA. Therefore, the coal transport records for 2022 were not publicly available as required by this Condition. The Auditor notes that the 2022 Annual Review had been submitted to DPE but had not yet been approved.	Ensure that the coal transportation records are regularly updated.	Altho admir agree recor subm Repo with uploa
S3 C52 a and c	<ul> <li>The Applicant must:</li> <li>a) implement all reasonable and feasible measures to minimise the visual off-site lighting impacts of the development, including lighting impacts on road users and impacts of mining voids;</li> <li>b) ensure that all external lighting associated with the development complies with Australian Standard AS4282 (/NT) 1997 - Control of Obtrusive Effects of Outdoor Lighting, or its latest</li> </ul>	Environmental induction covers lighting. The Lighting review undertaken in 2020 confirms the offsite lighting impacts was meeting the requirements of this condition. However, 94 lighting complaints were received during the audit period, 75 of those complaints came from three residents. A review of the complaints indicates that the community impacts are from relocatable lighting and mobile plant, but that fixed lighting is not generating complaints. As part of the internal complaint investigations, CROs assess mobile lighting and arrange changes in light locations or direction and that the actions, in general resolve the issues. It is apparent that there is insufficient planning for the location and use of mobile lighting and therefore all reasonable and feasible mitigation measures have not been used.	Ensure that personnel responsible for planning and / or managing night works undertake proactive planning for all after hours works. The planning should identify the optimal lighting setup for those activities and that the implementation of the lighting plans be checked prior to undertaking those activities by CROs or other appropriately trained personnel.	As sta was enviro again lightii devel In re lightii intrus inspe routii (CROS routiir make occur regar impac Whils regar comp not w comp MTW comp findin

W will work with BCD to progress toward proval of the WSW IMP during the 2023 Annual riew period. By December 2023.

hough this is noted in the audit report as an ministrative non-compliance, MTW does not ree with this audit finding. Coal transportation cords are included in the Annual Review report omitted to DPE. Once the 2022 Annual Review port is approved by DPE (this typically occurs th the following calendar year), it will be loaded to the MTW website.

stated in the audit finding, a review of lighting s conducted in 2020 (by an vironmental/engineering consultant) specifically ainst AS4282, which confirmed that offsite ating impacts were meeting the requirements of velopment consent condition S3 C52.

relation to potential lighting impacts from nting plant, MTW has developed and implements ocesses involved with the siting and set up of nting plant designed to minimise the risk of rusive light impacts. MTW also conducts an pection of established lighting as part of a utine process by Community Response Officers (OS) on night shift – this occurs each night as a utine inspection and feedback to operations to ke adjustments where necessary, and also will cur in response to community complaint parding lighting. This represents significant effort parts.

hilst there have been community complaints parding lighting during the audit period (94 nplaints), it should be noted that complaints are t widely spread through the community, with 75 nplaints originated from three 3 residences.

W does not agree that the number of nplaints should influence a non-compliant audit ding, and contends that the implementation of

<b></b>				1
Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
кет 53 C57	The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies must be employed when areas prone to dust generation cannot	Annual Review reports detail progress of mine rehabilitation progress against MOP plans. The net rehabilitation progress (i.e. rehabilitation minus rehabilitation disturbance) for the 2015 – 2021 period was 20.4 ha higher than targets. A total of 47.9ha of new rehabilitation was completed	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets.	the and f Desp MTW as a unde imple pote plant to be MTW repo plant Reha subm Reha subm Regu outlin and
	yet be permanently rehabilitated.	during 2022 against a Mining Operations Plan 2022 target of 35ha. 2022 annual report notes that rehabilitation and disturbance forecasts submitted to Resources Regulator (submitted in August 2022) are based on financial year periods and therefore don't align with the calendar year Annual Review reporting period and the misalignment is intended to be corrected in the Forward Program to be submitted in May 2023.		accor MTW progr deter incre upda 2024
S3 C58 d, and h	d) Describe how the rehabilitation of the site would be integrated with the implementation of the biodiversity offset strategy;	The RMP does not address the integration of the mine site rehabilitation with the biodiversity off-set strategy.	Review and revise the plan to include the integration of the mine site rehabilitation with the biodiversity off-set strategy.	This is non-o MTW and R integ biodiv 2023
	h) include interim rehabilitation where necessary to minimise the area exposed for dust generation;	The RMP does not address the interim rehabilitation of the site to minimise dust generation.	Review and revise the plan to include the interim rehabilitation of the site to minimise dust generation.	MTW Plant to r Nove
SSD-6465				
S3 C17 a and c	The Applicant must: a) implement all reasonable and feasible measures to minimise the:	The Air quality management plan describes the air quality management system and procedures including the predictive tools.	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets.	MTW excee audit imple

developed processes represents reasonable I feasible efforts are being applied.

spite the above response to the audit finding, W notes the independent auditors position, and an opportunity for improvement, MTW will dertake review and seek improvement in olementation of existing processes to manage tential lighting impacts from mobile lighting nt. Review process and improvement approach be implemented by end October 2023.

W does undertake progressive rehabilitation as ported in previous Annual Review Reports and as nned in previous Mining Operations Plans (now nabilitation Management Plan). MTW has pmitted a Forward Program to the Resources gulator (most recently 1 May 2023) which clines the next 3 years rehabilitation progress d intends to progress rehabilitation in cordance with the Forward Program in 2023.

W will conduct dump planning and review ogressive rehabilitation schedule with to cermine if progressive rehabilitation rates can be reased, with the result to be submitted with the dated Forward Program submission in March 24.

s is noted in the audit report as an administrative n-compliance.

W will review the Biodiversity Management Plan d Rehabilitation Management Plan to include the egration of the mine site rehabilitation with the diversity offset strategy. Complete by November 23.

W will review the Rehabilitation Management n to include the interim rehabilitation of the site minimise dust generation. Complete by vember 2023.

W notes that the audit found there were no ceedances in dust criteria reported during the dit period. MTW has a well developed and plemented Air Quality Management Plan and

NON-COMPLIANC	E RECOMMENDATIONS AND RESPONSES			
Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
	<ul> <li>odour, fume and dust emissions of the development; and</li> <li>release of greenhouse gas emissions from the development;</li> <li>minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d to Tables 5-7 above); and</li> </ul>	<ul> <li>Fifty-eight dust-related complaints were received during the audit period.</li> <li>No exceedances in dust criteria were reported during the audit period.</li> <li>Areas of the site are being cleared in preparation for mining, and the disposal of overburden is progressing. The planned progressive rehabilitation works are, however, behind schedule. The Auditor also observed areas, that while not ready for final rehabilitation, would benefit from temporary stabilisation to help reduce dust emissions during adverse wind conditions</li> </ul>	Prepare and implement a program for the stabilisation of unsealed / disturbed areas of the site including stockpiles, finished landforms, and disturbed areas that are not currently being actively worked / filled). The program should identify and classify all areas of the site that are currently disturbed according to the dust generation potential of those areas and establish clear targets for the stabilisation of those areas (either permanent or temporary) with the objective of meeting the requirements of the Blue Book.	consi being Refer
S3 C22 a and b	Unless an EPL or the EPA authorises otherwise, the Applicant must ensure that all surface water discharges from the site comply with the: discharge limits (both volume and quality) set for the development in any EPL; and	<ul> <li>The Annual Returns prepared for the Environment Protection Licence 1976 noted several non-compliances with this condition.</li> <li>Dam 1S overtopped as a result of heavy or sustained rainfall which caused significant runoff (2023 AR)</li> <li>Dam 1S overtopped as a result of heavy or sustained rainfall which caused significant runoff (2021 AR)</li> <li>Discharge from 9S via spillway to Loders Creek (2021 AR)</li> </ul>	A risk assessment and review of the storage capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	Refer
	relevant provisions of the POEO Act or Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002	As reported in the 2021 Annual Return for EPL1976, Exceedance of the HRSTS hourly volume discharge limit during analysis of flow data following a discharge event. Note that this incident was not reported in the 2021 Annual Review.	-	Note
S3 C27	Within 3 years of the commencement of development under this consent, unless the Planning Secretary agrees otherwise, the Applicant must 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 Department approved a request to extend the timeframe for completion of the agreement to the 15th of February 2020, however the agreement was not executed until the 3 November 2022. Whilst the conservation agreement has been entered into in November 2022, registration of the agreements has not been completed pursuant to s69F of the NPW Act.	agreement for Loders Creek.	This is non-c The Abori conse Nove MTW 2023
S3 C29 a and b	The Applicant must: a) keep records of the amount of coal transported from the development in	The 2020 and 2021 Annual Reviews are publicly available on the MTW website; however, the 2022 Annual Review was not on the website at the time of this IEA. Therefore, the coal transport records for 2022 were not publicly available	Ensure that the coal transportation records are regulatory updated.	Altho admii agree recor

MTW Response
nsiders that reasonable and feasible controls are ing implemented.
fer to response to SSD-6464 S3 C19.
fer to response to SSD-6464 S3 C24.
ted.
is is noted in the audit report as an administrative
n-compliance.
e registration process for the Loders Creek
original Cultural Heritage Conservation Area nservation agreement that were executed on 3
vember 2022 has been progressing in 2023 with
TW and Heritage NSW. This will continue in the 23 Annual Review Period. By December 2023.

though this is noted in the audit report as an ministrative non-compliance, MTW does not ree with this audit finding. Coal transportation cords are included in the Annual Review report.

Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
	each calendar year; and b) make these records available on its website at the end of each year.	as required by this Condition. The Auditor notes that the 2022 Annual Review had been submitted to DPE but had not yet been approved.		Once by Df calend websi
S3 C30 a and c	<ul> <li>The Applicant must:</li> <li>a) implement all reasonable and feasible measures to minimise the visual and offsite lighting impacts of the development, including lighting impacts on road users and impacts of mining voids;</li> <li>c) ensure that all external lighting associated with the development complies with Australian Standard AS4282 (/NT) 1997 - Control of Obtrusive Effects of Outdoor Lighting, or its latest version; and</li> </ul>	Environmental induction covers lighting. The Lighting review undertaken in 2020 confirms the offsite lighting impacts was meeting the requirements of this condition. However, 94 lighting complaints were received during the audit period, 75 of those complaints came from three residents. A review of the complaints indicates that the community impacts are from relocatable lighting and mobile plant, but that fixed lighting is not generating complaints. As part of the internal complaint investigations, CROs assess mobile lighting and arrange changes in light locations or direction and that the actions, in general resolve the issues. It is apparent that there is insufficient planning for the location and use of mobile lighting and therefore all reasonable and feasible mitigation measures have not been used.	Ensure that personnel responsible for planning and / or managing night works undertake proactive planning for all after hours works. The planning should identify the optimal lighting setup for those activities and that the implementation of the lighting plans be checked prior to undertaking those activities by CROs or other appropriately trained personnel.	Refer
S3 C36g	The RMP must: g) include interim rehabilitation where necessary to minimise the area exposed for dust generation;	The RMP does not address the interim rehabilitation of the site to minimise dust generation.	Review and revise the plan to include the interim rehabilitation of the site to minimise dust generation.	This is non-c Temp slopes or mc the M reviev includ minim 2023.
EPL1376				1
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	<ul> <li>The following non- compliances (generally associated with over topping of dams) were identified by the Annual Returns</li> <li>WML Sediment Dams 53N, 54N and WML sump 5N overtopped as a result of heavy rainfall - 5 in total non-compliances reported (2022 AR)</li> <li>WML Sediment Dams 53N, 54N, 55N, 46N SSD 09 - 4 in total (2021 AR)</li> <li>WML sediment dames 50N and 53N overtopped as a result</li> </ul>	A risk assessment and review of the storage capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	Refer
		of heavy rainfall		
03.1	The premises must be maintained in a condition which minimizes or prevents the emission of dust from the premises.	Fifty-eight dust-related complaints were received during the audit period.	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets.	Refer

ce the 2022 Annual Review Report is approved DPE (this typically occurs with the following endar year), it will be uploaded to the MTW bsite.

fer to response to SSD-6464 S3 C52.

s is noted in the audit report as an administrative n-compliance.

mporary stabilisation of unused areas or dump pes (foreshadowed to be inactive for 6 months more) is described as a management strategy in MTW Air Quality Management Plan. MTW will riew the Rehabilitation Management Plan to lude the interim rehabilitation of the site to nimise dust generation. Complete by November 23.

fer to response to SSD-6464 S3 C24.

fer to response to SSD-6464 S3 C19.

Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
		No exceedances in dust criteria were reported during the audit period. Significant areas of the site have been cleared and progressive rehabilitation works are behind schedule. The Auditor also observed significant areas, that while not ready for final rehabilitation, would benefit from temporary stabilisation to help reduce dust emissions during adverse wind conditions.	Prepare and implement a program for the stabilisation of unsealed / disturbed areas of the site including stockpiles, finished landforms, and disturbed areas that are not currently being actively worked / filled). The program should identify and classify all areas of the site that are currently disturbed according to the dust generation potential of those areas and establish clear targets for the stabilisation of those areas (either permanent or temporary) with the objective of meeting the requirements of the Blue Book.	
M2.2	Air Monitoring Requirements: Continuous PM10 monitoring	As reported in the 2020, 2021 and 2022 Annual Returns, EPL 1376 requires continuous monitoring for EPA air monitoring Points 9, 10, 11 and 12. Monitoring data capture was >93%, but not continuous during the reporting period (4 occurrences)	Ensure that all continuous monitoring equipment is operational and well maintained.	Mon mair Data 93% can equi whic mair occu time Retu
M2.3	Water and/or Land Monitoring Requirements	As reported in the Annual Returns, EPL water monitoring Points 26, 27, 28 and 30 were unable to be sampled due to sample area either unsafe to access due to rain events resulting in flooding, or being dry at time of sampling (6 occurrences)	Access to the sampling sites was not possible due to adverse weather conditions. No further actions are recommended.	This non- Note
M4.1	Meteorological Monitoring Requirements	As reported in the 2021 and 2022 Annual Returns, EPL 1376 requires continuous monitoring for Charlton Ridge Meteorological Station. Monitoring data capture was >99%, but not continuous during the reporting period.	Ensure that all continuous monitoring equipment is operational and well maintained.	This non- Mon mair the 99% can equi at th equi the r nece the chan neec happ is re

Ionitoring locations are subject to routine haintenance and calibration and system checks. ata capture from the monitors was greater than 3% for the reporting period(s). Unplanned outages an occur at times with all continuous monitoring quipment. Scheduled maintenance is undertaken which can take monitoring equipment offline for 10 hinutes or more due to the nature of the haintenance. Calibrations need to continue to ccur and so brief outages will happen from time to me. As the audit noted, this is reported in Annual eturns to EPA.

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Ionitoring locations are subject to routine haintenance and calibration. Data capture from he Charlton Ridge met station was greater than 9% for the reporting period(s). Unplanned outages an occur at times with all continuous monitoring quipment. Scheduled maintenance is undertaken t the met station and this can take monitoring quipment offline for 10 minutes or more due to he nature of the maintenance, which for example eccessitates periodic lowering of the mast on which he wind speed and direction sensor is located and hanging out sensors/calibrating etc. Calibrations eed to continue to occur and so brief outages will appen from time to time. As the audit noted, this reported in Annual Returns to EPA.

N-COMPLIA	NCE RECOMMENDATIONS AND RESPONSES			
Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
M9.3	The licence must mark monitoring point(s) 4, with a sign which clearly indicates the name of the licensee, whether the monitoring point is up or down stream of the discharge point(s) and that it is a monitoring point for the Hunter River Salinity Trading Scheme.	The required signage was not installed at the time of this IEA.	Ensure that signage for Monitoring Point 4 is installed.	This is non-c The re install
.1976	· ·			•
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	<ul> <li>The following non- compliances were identified by the Annual Returns</li> <li>Dam 1S overtopped as a result of heavy or sustained rainfall which caused significant runoff (2023 AR)</li> <li>Dam 1S overtopped as a result of heavy or sustained rainfall which caused significant runoff (2021 AR)</li> <li>Discharge from 9S via spillway to Loders Creek (2021 AR)</li> </ul>	A risk assessment and review of the storage capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	Refer
L2.1	For each monitoring/ discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	One non-compliance was reported during the audit period. During 2021 one Grab Sample at Licensed Discharge and Monitoring Point 4 exceeded the upper 100 percentile limit for pH.	This single exceedance of the water quality criteria has been investigated. No systemic issues have been identified therefore no further actions are recommended.	Noted
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	One non-compliance was reported during the audit period. During 2021 one Grab Sample at Licensed Discharge and Monitoring Point 4 exceeded the upper 100 percentile limit for pH.	This single exceedance of the water quality criteria has been investigated. No systemic issues have been identified therefore no further actions are recommended.	Noted
03.1	The premises must be maintained in a condition which minimizes or prevents the emission of dust from the premises.	<ul> <li>Fifty-eight dust-related complaints were received during the audit period.</li> <li>Significant areas of the site have been cleared and progressive rehabilitation works are behind schedule. The Auditor also observed areas, that while not ready for final rehabilitation, would benefit from temporary stabilisation to help reduce dust emissions during adverse wind conditions.</li> <li>While no exceedances in dust criteria were reported during the audit period, the number of dust related complaints and the Auditor's observations relating to rehabilitation and stabilisation indicate that nuisance dust emissions are being generated by the mine.</li> </ul>	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets. Prepare and implement a program for the stabilisation of unsealed / disturbed areas of the site including stockpiles, finished landforms, and disturbed areas that are not currently being actively worked / filled). The program should identify and classify all areas of the site that are currently disturbed according to the dust generation potential of those areas and establish clear targets for the stabilisation of those areas (either permanent or temporary) with the objective of meeting the requirements of the Blue Book.	Refer

MTW Response
s is noted in the audit report as an administrative -compliance.
required signage for Monitoring Point 4 will be alled by October 2023.
er to response to SSD-6464 S3 C24.
ed.
ed.
er to response to SSD-6464 S3 C19.

Def	CE RECOMMENDATIONS AND RESPONSES		Independent A. P. D	
Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
M2.1	For each monitoring/ discharge point or	During 2021, 2022 and 2023 Table M2.2 requires continuous	Ensure that all continuous monitoring equipment is	Mon
	utilisation area specified below (by a point number), the licensee must monitor (by	$PM_{10}$ monitoring for EPA air monitoring points 10,11,13 and	operational and well maintained.	main the lo
	sampling and obtaining results by analysis)	19. Monitoring data capture was >98% but not continuous		repo
	the concentration of each pollutant specified	during the reporting period.		at tin
	in Column 1. The licensee must use the	During 2021, 2022 and 2023 Table M2.3 requires continuous		Sche
	sampling method, units of measure, and	monitoring for pH at Point 4 during Discharge Monitoring		conti
	sample at the frequency, specified opposite in the other columns.	data capture was >99% but not continuous during the		moni more
		reporting period.		Calib
				outa
		During 2021, 2022 and 2023 Table M2.3 requires continuous monitoring for conductivity at Point 4 during Discharge Monitoring data capture was >99% but not continuous during the reporting period.		note
M4.1	Meteorological Monitoring Requirements	As reported in the 2021 and 2022 Annual Returns, EPL 1376	Ensure that all continuous monitoring equipment is	Mon
		requires continuous monitoring for Charlton Ridge	operational and well maintained.	main
		Meteorological Station. Monitoring data capture was >99%,		the (
		but not continuous during the reporting period.		99% t can c
				equip
				at th
				equip
				the n
				the v
				chan
				need
				happ is ror
				is rep
M7.1	Requirement to monitor volume or mass.	Table M7.1 requires continuous monitoring for volumetric flow at Point 4 during discharge. During 2021 monitoring	Ensure that all continuous monitoring equipment is operational and well maintained.	Data durin
		data capture was not continuous during the reporting	operational and wen maintained.	repo
		period.		unde
				any r
				routi
				repo
E1.3	The licensee must not exceed the hourly	As reported in the 2021 Annual Return an exceedance of	The single volume exceedance has been	Note
	volume discharge limit calculated using the	the HRSTS hourly volume discharge limit occurred on 20	investigated and appropriate actions taken to	
	following formula, at all discharge point(s) on	March 2021. This non-compliance was discovered during	prevent future exceedances. No additional actions have been identified.	
	this licence titled "Discharge of saline water	the preparation of the 2021 Annual Return.		
		The exceedance event has been reviewed by MTW and the		
	under the Hunter River Salinity Trading Scheme (HRSTS)".	discharge rate modified. No further exceedances have been recorded.		

onitoring locations are subject to routine aintenance and calibration. Data capture from e locations were found to be >98% in the for the porting period(s). Unplanned outages can occur times with all continuous monitoring equipment. heduled maintenance is undertaken at the ntinuous monitoring locations and this can take onitoring equipment offline for 10 minutes or ore due to the nature of the maintenance. librations need to continue to occur and so brief itages will happen from time to time. As the audit ted, this is reported in Annual Returns to EPA.

onitoring locations are subject to routine aintenance and calibration. Data capture from e Charlton Ridge met station was greater than % for the reporting period(s). Unplanned outages n occur at times with all continuous monitoring uipment. Scheduled maintenance is undertaken the met station and this can take monitoring uipment offline for 10 minutes or more due to e nature of the maintenance, which for example cessitates periodic lowering of the mast on which e wind speed and direction sensor is located and anging out sensors/calibrating etc. Calibrations ed to continue to occur and so brief outages will ppen from time to time. As the audit noted, this reported in Annual Returns to EPA.

ta capture from the discharge point flow meter ring discharge was greater than 99% for the porting period(s). Daily system checks are dertaken on working days to identify and resolve y monitoring issues. The monitors also undergo utine maintenance. As the audit noted, this was ported in the 2021 Annual return to EPA.

oted.

NON-COMPLIAN	CE RECOMMENDATIONS AND RESPONSES			
Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
Mining Lease S	tandard Conditions (from July 2022)			1
D1 C4	The holder of a mining lease must take all reasonable measures to prevent, or if that is not reasonably practicable, to minimise, harm to the environment caused by activities under the mining lease.	During the audit period (2021) non-complying overflows / discharges of water occurred from dams on both the Mt Thorley and Warkworth mines. These pollution events resulted in the issue of Penalty Notices by the EPA and DPE. For further information refer to Section 7.3 and Condition L1.1 on the EPL Compliance Registers above.	A risk assessment and review of the storage capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	
D1 C5	The holder of a mining lease must rehabilitate land and water in the mining area that is disturbed by activities under the mining lease as soon as reasonably practicable after the disturbance occurs.	This condition is considered to be non-compliant as the predicted/forecast target for 2020 was not met and it is predicted that the forecast for 2023 will not be met. It is acknowledged that several factors, including weather conditions, have resulted in lower rehabilitation than predicted. It is noted however that the the MOP rehabilitation targets were exceeded in both 2021 and 2022.	Continue progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets	1
ML 1412				
17	Minimise Dust	Fifty-eight dust-related complaints were received during the audit period. No exceedances in dust criteria were reported during the audit period. Significant areas of the site have been cleared and progressive rehabilitation works are behind schedule. The Auditor also observed significant areas, that while not ready for final rehabilitation, would benefit from temporary stabilisation to help reduce dust emissions during adverse wind conditions.	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets. Prepare and implement a program for the stabilisation of unsealed / disturbed areas of the site including stockpiles, finished landforms, and disturbed areas that are not currently being actively worked / filled). The program should identify and classify all areas of the site that are currently disturbed according to the dust generation potential of those areas and establish clear targets for the stabilisation of those areas (either permanent or temporary) with the objective of meeting the requirements of the Blue Book.	
27	Environment Protection / Prevention of Pollution	The Annual Returns prepared for the Environment Protection Licence 1276 noted several non-compliances with this condition. Refer to audit schedule for EPL 1376 for details.	A risk assessment and review of the storage capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	
CCL753			1	
2	Operate in accordance with the Mining Operations Plan	Annual Review reports detail progress of mine rehabilitation progress against MOP plans.	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets.	

MTW Response
er to response to SSD-6464 S3 C24.
er to response to SSD-6464 S3 C57.
er to response to SSD-6464 S3 C19.
er to response to SSD-6464 S3 C24.
er to response to SSD-6464 S3 C57.

NON-COMPLIANCE RECOMMENDATIONS AND RESPONSES				
Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
		The net rehabilitation progress (i.e. rehabilitation minus rehabilitation disturbance) for the 2015 – 2021 period was 20.4 ha higher than targets.		
		A total of 47.9ha of new rehabilitation was completed during 2022 against a Mining Operations Plan 2022 target of 35ha. 2022 annual report notes that rehabilitation and disturbance forecasts submitted to Resources Regulator (submitted in August 2022) are based on financial year periods and therefore don't align with the calendar year Annual Review reporting period and the misalignment is intended to be corrected in the Forward Program to be submitted in May 2023.		
16	Minimise Dust	Fifty-eight dust-related complaints were received during the audit period. No exceedances in dust criteria were reported during the audit period. Significant areas of the site have been cleared and progressive rehabilitation works are behind schedule. The Auditor also observed significant areas, that while not ready for final rehabilitation, would benefit from temporary stabilisation to help reduce dust emissions during adverse wind conditions.	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets. Prepare and implement a program for the stabilisation of unsealed / disturbed areas of the site including stockpiles, finished landforms, and disturbed areas that are not currently being actively worked / filled). The program should identify and classify all areas of the site that are currently disturbed according to the dust generation potential of those areas and establish clear targets for the stabilisation of the stabilish clear targets	Refe
25	Environment Protection / Prevention of	The Annual Returns prepared for the Environment	for the stabilisation of those areas (either permanent or temporary) with the objective of meeting the requirements of the Blue Book. A risk assessment and review of the storage	Refe
-	Pollution	Protection Licence 1376 noted several non-compliances with this condition. Refer to audit schedule for EPL 1376 for details.	capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	
AL1590		·		•
2	Operate in accordance with the Mining Operations Plan	Annual Review reports detail progress of mine rehabilitation progress against MOP plans. The net rehabilitation progress (i.e. rehabilitation minus rehabilitation disturbance) for the 2015 – 2021 period was 20.4 ha higher than targets. A total of 47.9ha of new rehabilitation was completed during 2022 against a Mining Operations Plan 2022 target of 25ha 2023 appual report pates that rehabilitation and	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets.	Refe
		35ha. 2022 annual report notes that rehabilitation and disturbance forecasts submitted to Resources Regulator (submitted in August 2022) are based on financial year		

MTW Response
fer to response to SSD-6464 S3 C19.
er to response to 330-0404 33 C13.
fer to response to SSD-6464 S3 C24.
er to response to SSD-6464 S3 C57.

NON-COMPLIANCE RECOMMENDATIONS AND RESPONSES				
Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
		periods and therefore don't align with the calendar year Annual Review reporting period and the misalignment is intended to be corrected in the Forward Program to be submitted in May 2023.		
13	Rehabilitate the site in accordance with the MOP	Annual Review reports detail progress of mine rehabilitation progress against MOP plans. The net rehabilitation progress (i.e. rehabilitation minus	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets.	Refe
		rehabilitation disturbance) for the 2015 – 2021 period was 20.4 ha higher than targets.		
		A total of 47.9ha of new rehabilitation was completed during 2022 against a Mining Operations Plan 2022 target of 35ha. 2022 annual report notes that rehabilitation and disturbance forecasts submitted to Resources Regulator (submitted in August 2022) are based on financial year periods and therefore don't align with the calendar year Annual Review reporting period and the misalignment is intended to be corrected in the Forward Program to be submitted in May 2023.		
ML1751				
3	Operate in accordance with the Mining Operations Plan	<ul> <li>Annual Review reports detail progress of mine rehabilitation progress against MOP plans.</li> <li>The net rehabilitation progress (i.e. rehabilitation minus rehabilitation disturbance) for the 2015 – 2021 period was 20.4 ha higher than targets.</li> <li>A total of 47.9ha of new rehabilitation was completed during 2022 against a Mining Operations Plan 2022 target of 35ha. 2022 annual report notes that rehabilitation and disturbance forecasts submitted to Resources Regulator (submitted in August 2022) are based on financial year periods and therefore don't align with the calendar year Annual Review reporting period and the misalignment is intended to be corrected in the Forward Program to be submitted in May 2023.</li> </ul>	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets.	Refe
CL219		I	1	1
2	Operate in accordance with the Mining Operations Plan	Annual Review reports detail progress of mine rehabilitation progress against MOP plans. The net rehabilitation progress (i.e., rehabilitation minus rehabilitation disturbance) for the 2015 – 2021 period was 20.4 ha higher than targets.	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets.	Refe

MTW Response
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er to response to SSD-6464 S3 C57.
er to response to SSD-6464 S3 C57.
er to response to SSD-6464 S3 C57.

Ref	Compliance Requirement	Independent Audit Finding	Independent Audit Recommendation	
		A total of 47.9ha of new rehabilitation was completed during 2022 against a Mining Operations Plan 2022 target of 35ha. 2022 annual report notes that rehabilitation and disturbance forecasts submitted to Resources Regulator (submitted in August 2022) are based on financial year periods and therefore don't align with the calendar year Annual Review reporting period and the misalignment is intended to be corrected in the Forward Program to be submitted in May 2023.		
17	Minimise Dust	Fifty-eight dust-related complaints were received during the audit period. No exceedances in dust criteria were reported during the audit period. Significant areas of the site have been cleared and progressive rehabilitation works are behind schedule. The Auditor also observed significant areas, that while not ready for final rehabilitation, would benefit from temporary stabilisation to help reduce dust emissions during adverse wind conditions.	Increase the rate of progressive rehabilitation works with the objective of meeting the established progressive rehabilitation targets. Prepare and implement a program for the stabilisation of unsealed / disturbed areas of the site including stockpiles, finished landforms, and disturbed areas that are not currently being actively worked / filled). The program should identify and classify all areas of the site that are currently disturbed according to the dust generation potential of those areas and establish clear targets for the stabilisation of those areas (either permanent or temporary) with the objective of meeting the requirements of the Blue Book.	Refe
25	Environment Protection / Prevention of Pollution	<ul> <li>The Annual Returns prepared for the Environment Protection Licence 1976 noted several non-compliances with this condition. Refer to audit schedule for EPL 1976 for details.</li> <li>Dam 1S overtopped as a result of heavy or sustained rainfall which caused significant runoff (2023 AR)</li> <li>Dam 1S overtopped as a result of heavy or sustained rainfall which caused significant runoff (2021 AR)</li> <li>Discharge from 9S via spillway to Loders Creek (2021 AR)</li> </ul>	A risk assessment and review of the storage capacity of the retention dams be undertaken that takes into account the increasing risk of extreme weather events, including extended duration wet weather patterns.	Refe

MTW Response
er to response to SSD-6464 S3 C57.
er to response to SSD-6464 S3 C24.

Ref	Independent Audit Recommendation	MTW Response
SSD 6464 S3 C27 / SSD 6465 S3 C25	It is recommended that MTW review the water balance model to take into account the impacts of climate change, for example the impacts of higher-than-normal rainfall events due to more extreme La-Nina events.	At the next Water Balance Update, MTW will seek advi rainfall inputs to water balance model. Where an impr available MTW will seek to incorporate in the next Wat
SSD 6464 S3 C27 / SSD 6465 S3 C25	That the Water Balance documented in the WMP is updated to reflect water volumes and quality from the STP, as well as any necessary treatment and/or testing of the waters discharged.	MTW has reviewed this recommendation and does not On site sewage management (OSSM) is already approv included on relevant Environment Protection Licences. large in the context of a mine water balance, so provide understanding.
SSD 6464 S3 C29 / SSD 6464 S3 C56	<ul> <li>To improve the success of the rehabilitation works and to achieve the targets detailed in the Ecological monitoring reports, that:</li> <li>More intensive weed control of High Threat Weeds be undertaken;</li> <li>Control of overly dominant natives (e.g Corymbia maculate, Acacia species) via thinning or changes to seed mix; and</li> <li>Widen the distribution of ground habitat features (such as logs);</li> </ul>	<ul> <li>Weed control in rehabilitation areas is currently constr management crews). MTW will investigate ways to inc in rehabilitation areas to in particular provide additiona October 2023.</li> <li>Native seed mixes for MTW rehabilitation areas were r species that are not considered to be a significant com Woodland (GBIBW) vegetation community. Relevant to were changed to back-up species that would only be in were not available and at a reduced sowing rate when Acacia elongata, and Acacia spectabilis. Acacia cultrifor some rehabilitation areas so the maximum sowing rate Thinning of Corymbia maculata will be conducted as re allow sufficient tree growth to contribute towards the Length of Logs on the Ground (m) at least 10cm in dian recommendation was completed May 2020. The thinn review.</li> <li>Rehabilitation work program to increase distribution of placement of salvaged logs in rehabilitation areas will of ongoing work item.</li> </ul>
SSD 6464 S3 C29	That any future modification to the Approval consider seeking to remove specific mentions of the use of the NSW Biodiversity Offsets Policy for Major Projects as this is no longer available.	MTW agrees this would assist with clarity for Biodivers to engage with DPE on this matter for any future modif modification is currently in progress (SSD 6464 MOD1) conditions of the consent, given the change to biodiver
SSD 6464 S3 C32	Warkworth Sands Woodland –	MTW will review understorey seed mix used in the Wa
632	Additional work is required to meet the final performance criteria, In particular it is recommended that consideration is given to amending seed mixes to include a higher diversity of non-grass native species to increase groundcover diversity.	areas to include a higher diversity of non-grass native s Complete by November 2023.
	Restoration work scheduled for 2022 was delayed due to access issues associated with inclement weather and that works have been rescheduled for 2023. Based on the ecologist field observations, further active works, particularly in regard to increasing groundcover diversity, may be required to meet the required performance criteria by Year 15.	

dvice from water balance experts to review proved rainfall dataset/model inputs are /ater Balance update.

not intend to implement this recommendation. oved and regulated by Singleton Council and is es. The volumes from these systems is not vide no improvement to water balance

strained by available resources (land ncrease resourcing available for weed control anal effort to High Threat Weeds. Complete by

e reviewed in May 2020 to remove dominant mponent of the target Grey Box – Ironbark to this audit finding, the following species included in seed mixes if other GBIBW species en used: Corymbia maculata, Acacia crassa, formis has also been found to be dominant in the has also been reduced for this species. required but may be intentionally delayed to be relevant habitat performance criteria (i.e. ameter). The seed mix review nning recommendation is subject to ongoing

of ground habitat features through continued I continue in the next IEA period as an

ersity descriptions in the consent, and is happy difications for SSD 6464. It is noted that a 1) which seeks to address biodiversity offset versity offset regulation.

/arkworth Sands Woodland revegetation e species to increase ground cover diversity.