



TOMINGLEY GOLD OPERATIONS

Independent Environmental Audit 2021

Prepared for:

Tomingley Gold Operations Pty Ltd
Tomingley West Road
Tomingley, NSW

August 2021

PREPARED BY:



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BASIS OF REPORT

This report has been prepared by Integrated Environmental Management Australia (IEMA) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement the Client. Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from IEMA.

IEMA disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

DOCUMENT CONTROL

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TABLE OF CONTENTS

1	INTRODUCTION.....	6
1.1	Background	6
1.2	IEA Scope	8
1.3	Key Site Contacts.....	8
1.4	IEA Methodology	8
1.4.1	Key Meetings and Attendees	9
1.5	Consultation Requirements.....	10
1.6	Statement of Independence.....	12
2	DOCUMENTS REVIEWED AND REFERENCED.....	13
3	ASSESSMENT OF COMPLIANCE	14
4	APPROVALS AND DOCUMENTATION.....	16
4.1	Previous IEA Recommendations	16
4.2	Project Approval.....	26
4.3	Environment Protection Licence	27
4.4	Management Plans and Programs	27
4.5	Mining Leases	30
4.6	Water Access Licences.....	30
4.7	Complaints	32
4.8	Reportable Environmental Incidents	33
4.9	Comparison Against EA Predictions	34
5	ENVIRONMENTAL MANAGEMENT – SPECIALIST ASSESSMENTS.....	35
5.1	Rehabilitation	Error! Bookmark not defined.
5.2	Noise and Blasting	35
5.3	Air Quality.....	35
5.4	Erosion and Sediment Control/Water Management	Error! Bookmark not defined.
5.5	Groundwater	Error! Bookmark not defined.
6	IEA FINDINGS – SUMMARY OF NON – COMPLIANCES	37
7	ADDITIONAL RECOMMENDED ACTIONS	61
8	CONCLUSION	63

DOCUMENT REFERENCES

TABLES

Table 1 - Meeting Attendees	9
Table 2 Stakeholder Consultation for the IEA	10
Table 3 Compliance Assessment Criteria	14
Table 4 Risk Levels for Non - Compliances	15
Table 5 Progress on outstanding the Previous IEA issues (From 2020 Annual Review)	16
Table 6 TGO Management Plans	28
Table 7 Water Take at Tomingley During the IEA Period	31
Table 8 Number of Complaints since last IEA	32
Table 10 Summary of Non - Compliances	37
Table 11 Additional Recommendations	61

FIGURES

Figure 1: Site Location, Layout and Titles (Source GHD 2017)	7
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APPENDICES

Appendix A	Photographs
Appendix B	Compliance Spreadsheet
Appendix C	IEA Certification by IEMA
Appendix D	Endorsment of the IEA Team
Appendix E	IEA Consultation (Incoming Consultation)

EXECUTIVE SUMMARY

This Independent Environmental Audit (IEA) has been completed for the Tomingley Gold Operations (TGO) and covered the following requirements of Schedule 5 Condition 8 of the Project Approval (MP09_0155).

The IEA period is from 9th March 2018 (day after previous audit visit) to 11th May 2021 (first day of 2021 audit).

The Department of Planning Industry and Environment (DPIE) endorsed the following IEA team in the letter dated 4 February 2021, as seen in **Appendix C**.

- Chris Jones (IEMA) – Lead Environmental Auditor and Principal Environmental Consultant
- Tawna Ryan – Assistant Environmental Auditor and Environmental Scientist
- Ali Naghizadeh (SLR) – Air Quality Specialist; and
- Martin Davenport (SLR) – Noise Specialist.

The IEA assessed the following approvals and documentation:

- Project Approval MP09_0155 (including management plans);
- Key Environmental Assessment Commitments associated with MP09_0155;
- Environment Protection Licence (EPL 20169);
- Mining Lease (ML 1684);
- Property Vegetation Plan (Signed 16 April 2015)
- Water Licences (Review of extraction volumes only); and
- Status of previous IEA recommendations.

The IEA identified strong compliance in the field. Issues identified during the IEA related to low risk or administrative non – compliances:

- There were 5 low risk non – compliances and 15 administrative non – compliances for the Project Approval;
- There were 2 low risk non – compliances and 5 administrative non – compliances for the Statement of Commitments;
- There were 1 low risk non – compliances and 1 administrative non – compliances for the Environment Protection Licence;
- There were 0 non - compliances for the Mining Lease; and
- There was 0 a non - compliances for the PVP.

Key findings and recommendations are outlined in **Section 6 and 7**.

1 INTRODUCTION

1.1 Background

TGO is a wholly owned subsidiary of Alkane Resources Ltd. TGO is a medium-sized gold project which aims to produce 54,500 ounces of poured gold over the next 12 months, based on an annual ore throughput of approximately 985,000 milled tonnes.

The Tomingley area has a long history of gold mining and exploration, with gold first discovered and mined from the Tomingley Goldfield in the 1880s. Numerous underground mining operations were subsequently located in the McPhail area, immediately south of the TGO minesite. The last economic 'mining' activities were completed in the late 1990s and involved the re-treatment of tailings from the McPhail Mine.

The process plant, with associated residue facilities were commissioned between December 2013 and February 2014.

In January 2019 the Tomingley Mine commenced development for underground mining with the establishment of 2 portals from the base of Wyoming 1 open cut pit. Continued development of the underground was the main focus for 2020 with production from the underground operations continuing for all of 2020.

In May 2020, the Department of Planning, Industry and Environment approved Modification 4 to PA 09_0155 which was to allow construction of Stages 7 to 9 of the Residue Storage Facility, comprising an additional 2.36 Million Tonne (Mt) of capacity and an increase in height of 6 m.

In September 2020, open cut operations recommenced in the Caloma 1 pit on the Eastern Cut Back which is a campaign aimed at recovering ore from the eastern perimeter of the Caloma 1 pit. Waste rock from the operations was hauled in pit with some waste being placed in temporary surface dumps and also used for various activities such as the Stage 7 lift of the Residue Storage Facility (RSF), while ore was transported to the existing ROM pad for processing at the processing plant.

Figure 1 shows the leases, approved disturbance boundary and offset area. Details of the IEA scope are outlined in **Section 1.2**.

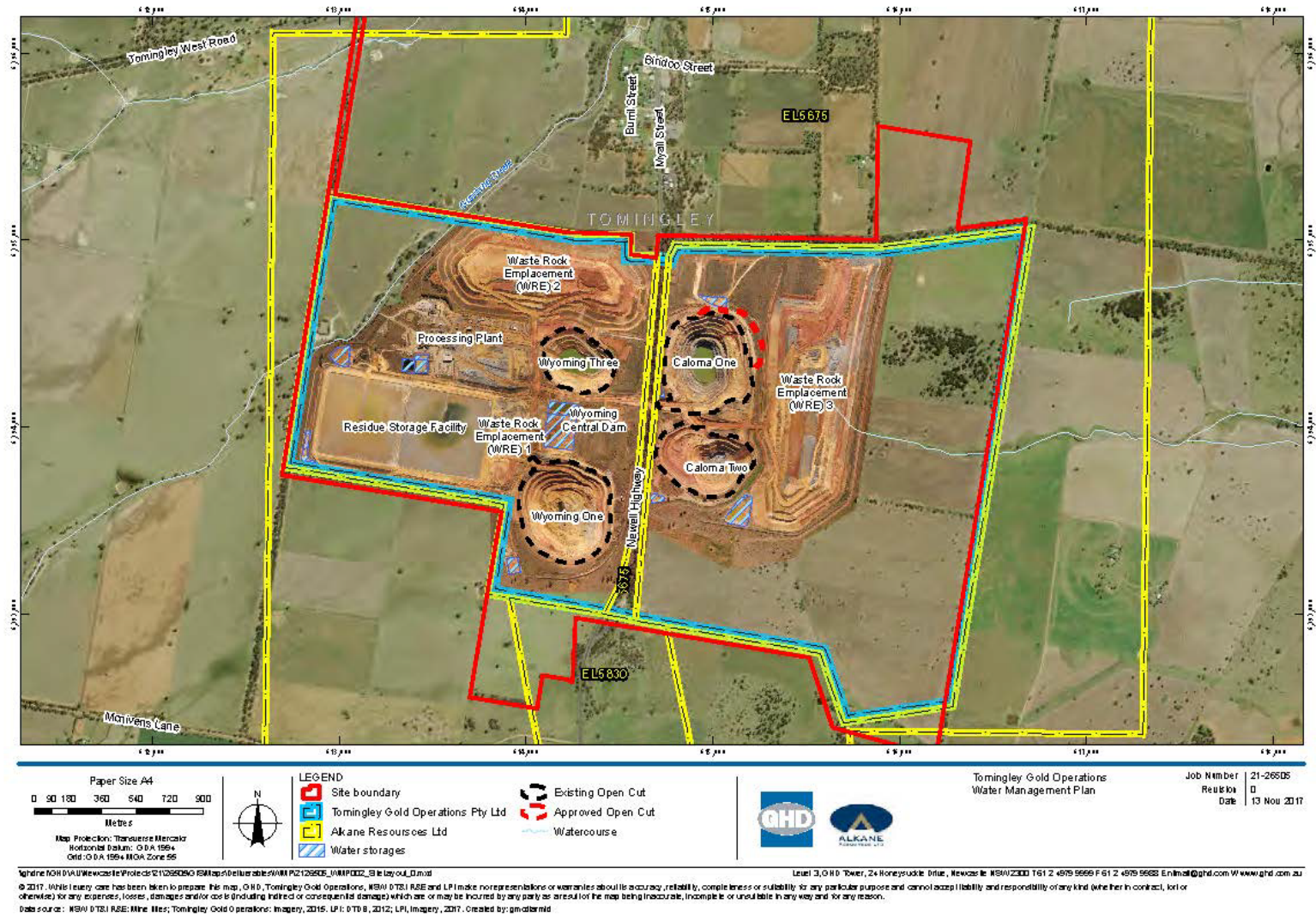


Figure 1: Site Location, Layout and Titles (Source GHD 2017)

1.2 IEA Scope

The IEA covered the following requirements of Schedule 5 Condition 8 of the Project Approval (MP09_0155).

The IEA period is from 9th March 2018 (day after previous audit visit) to 11th May 2021 (first day of 2021 audit).

DPIE endorsed the following IEA team in the letter dated 4 February 2021 (see **Appendix D**):

- Chris Jones (IEMA) – Lead Environmental Auditor and Principal Environmental Consultant
- Tawna Ryan – Assistant Environmental Auditor and Environmental Scientist
- Ali Naghizadeh (SLR) – Air Quality Specialist; and
- Martin Davenport (SLR) – Noise Specialist.

The IEA assessed the following approvals and documentation:

- Project Approval MP09_0155 (including management plans);
- Key Environmental Assessment Commitments associated with MP09_0155;
- Environment Protection Licence (EPL 20169);
- Mining Lease (ML 1684);
- Property Vegetation Plan (Signed 16 April 2015)
- Water Licences (Review of extraction volumes only); and
- Status of previous IEA recommendations.

Due to COVID 19 issues, DPIE extended the submission date of the IEA to 17 September 2021 (see letter from DPIE dated 23 August 2021 and **Appendix D**)

1.3 Key Site Contacts

The main IEA contact for Tomingley Gold is David Pritchard (Environment and Community Manager).

T +61 2 6867 9780

E DPritchard@alkane.com.au

1.4 IEA Methodology

The site component of the IEA occurred on 11-13 May 2021.

- Chris Jones from IEMA was present onsite for Days 1-3. No other member of the IEA team attended.

- The IEA team are independent of TGO as defined under Section 3.3 of the Department of Planning, Industry and Environment's (DPIE) *Independent Environmental Audit Guidelines* (October 2015).
- Information was provided by TGO prior to during and following the IEA. The IEA Team also sourced a large amount of information from the TGO website.

The methodology for the IEA consisted of the following key steps:

- Introductory and close out meetings;
- Reviewing key documents provided by TGO prior to the Audit;
- Consultation with relevant government agencies as per the IEA Guideline requirements prior to the site component;
- Site component of the IEA, included inspections and discussions with key TGO personnel;
- Review of additional relevant documentation obtained while onsite during the inspection or provided by Tomingley after the site inspection;
- Client review and comment on the draft IEA report;
- Photographs taken during the site inspection are included in **Appendix A**. A large amount of evidence was viewed and collected as part of the IEA, including monitoring records, reports, and correspondence. While this key evidence has been referenced in **Section 2**, it has not been attached to this IEA report;
- The IEA has been completed as per the *Independent Environmental Audit Guidelines* (DPIE October 2015); and
- The IEA team assessed the approvals and documentation outlined in **Section 4**.

1.4.1 Key Meetings and Attendees

Introductory and close out meetings were held for the IEA. At the opening meeting introductions were made by each of the meeting attendees and TGO personnel provided background details regarding the site to the IEA team (including specialists). During the close out meeting a general discussion about compliance and areas for improvement was undertaken.

Additional meetings were held over Microsoft teams, post audit to discuss evidence during the IEA period.

Table 1 lists those present at these meetings.

Table 1 - Meeting Attendees

Name	Role and Company
Opening Meeting and Closing Meeting	
Chris Jones	IEMA Lead Auditor
David Pritchard	TGO Environment and Community Manager

1.5 Consultation Requirements

Table 2 outlines the stakeholder consultation completed for the IEA, undertaken in accordance with the IEA Guidelines. **Appendix E** outlines the incoming consultation completed for IEA.

Table 2 Stakeholder Consultation for the IEA

Regulatory Authority	Contact Details	Summary of Consultation	IEA Lead Auditor Response
DPIE	Katrina O'Reilly 0429400261 katrina.oreilly@planning.nsw.gov.au	Email requesting feedback sent on 29 April 2021.	Nil response.
Environments Protection Authority (EPA)	Joshua Loxley Regional Operations Officer T +61 2 6883 5326 E joshua.loxley@epa.nsw.gov.au	Email requesting feedback sent on 29 April 2021.	Nil response.
DPIE – Biodiversity and Conservation Division	Rowan Murphy Senior Conservation Planning Officer – North West Biodiversity and Conservation Division Department of Planning, Industry and Environment T 02 6883 5347	Email requesting feedback sent on 29 April 2021. Email received 11 May 2021 requested the IEA consider:	Section 4.1 of this report. Note, the TGO Annual Reviews provide an update.
		1. Progress on all non-compliances and observations from the previous IEA;	
		2. Compliance of the Property Vegetation Plan 20PVP00168 (request number 18458); and	See Section 4.5 and Appendix B.
		3. Compliance of project modifications during the IEA period including: <ul style="list-style-type: none"> Any required updates incorporated into the Biodiversity Management Plan Whether recommendations from annual biodiversity monitoring reports have been adequately addressed and incorporated into the Biodiversity Management Plan Obligations to establishment and management of additional offsets under the NSW Biodiversity Offset Scheme. 	<ul style="list-style-type: none"> The currently approved Biodiversity Management Plan is dated June 2017 (following MOD 3 approval). It is noted that the Biodiversity Management Plan has been updated (as per 2020 Annual Review Audit Action Plan) and is with DPIE for review and approval. A copy of this plan has not been provided to the Audit Team. However there was a general recommendation from this audit that the status of all management plans should be reviewed.

Regulatory Authority	Contact Details	Summary of Consultation	IEA Lead Auditor Response
			<ul style="list-style-type: none"> The PVP has not yet been approved by DPIE. Note, there has been evidence over the years of consultation. There is a recommendation in the IEA about further liaison with DPIE to obtain approval for the PVP.
Department of Planning and Environment – Resources Regulator (DPE-RR)	Amy Mackenzie Inspector Environment MA1- Team 4 E amy.mackenzie@planning.nsw.gov.au	Email requesting feedback sent on 29 April 2021.	Nil response.
Natural Resources Access Regulator	Tim Baker Senior Water Regulation Officer T 02 68417403 E Tim.Baker@nrar.nsw.gov.au	Email requesting feedback sent on 29 April 2021.	Nil response.
Narromine Shire Council	Jane Redden General Manager T 02 6889 9999	Email requesting feedback sent on 29 April 2021.	Nil response.
Community Consultative Committee (CCC) Chairperson	James Hamilton Cultivate Advisory E james@cultivateadvisory.com.au	Email requesting feedback sent on 29 April 2021. Email response received 8 May 2021 noted no issues of concern by the CCC for this IEA. However, it was noted that the proposed expansion of TGO would potentially impact on people who had not previously been impacted.	Noted. In terms of the expansion that is a separate project outside the scope of this IEA.

1.6 Statement of Independence

We can confirm independence based on the following:

- No one from the IEA team is related to any proponent, owner, operator or other entity involved in the delivery of the project. Such a relationship includes that of employer/employee, a business partnership, sharing a common employer, a contractual arrangement outside an Independent Audit, or that of a spouse, partner, sibling, parent, or child;
- No one from the IEA team has any pecuniary interest in the project, proponent or related entities. Such an interest includes where there is a reasonable likelihood or expectation of financial gain (other than being reimbursed for performing the Audit) or loss to the auditor, or their spouse, partner, sibling, parent, or child;
- No one from the IEA team have provided services (not including independent reviews or auditing) to the current project with the result that the audit work performed by themselves or their company, except as otherwise declared to the Department prior to the audit;
- No one from the IEA team is an Environmental Representative for the Project; and
- No one from the proposed IEA team can or has accepted any inducement, commission, gift or any other benefit from auditee organisations, their employees or any interested party, or knowingly allow colleagues to do so.

2 DOCUMENTS REVIEWED AND REFERENCED

Key documentation reviewed as part of the IEA includes:

- Project Approval MP09_0155;
- Key Environmental Assessment Commitments associated with MP09_0155;
- Environment Protection Licence (EPL 20169);
- Mining Lease (ML 1684);
- Water Balance Spreadsheets;
- Training and Inductions;
- Water Licences (Review of extraction volumes);
- Annual Reviews –2018, 2019 and 2020;
- Monitoring results for meteorological, noise, air, water and blasting – including real time results;
- Rehabilitation and Biodiversity Monitoring Reports (including in offset area);
- Environmental Management Plans and consultation – as per approval conditions;
- Mining Operations Plans (MOPs);
- Annual Returns – across the IEA period;
- Complaints log;
- Rehabilitation Cost Estimate Security;
- Evidence of maintenance and calibration;
- CCC Meeting Minutes – across the IEA period; and
- Key consultation with government – including consultation and approval letters.



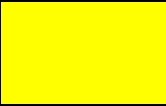

3 ASSESSMENT OF COMPLIANCE

The terms used in the IEA to describe the level of compliance of the site with the relevant approval documentation are outlined in **Table 3** and **Table 4**. These are requirements of the DPIE's *Independent Environmental Audit Guidelines* (October 2015). As the site has a mining lease, the 20125 Guidelines have been used.

Table 3 Compliance Assessment Criteria

Assessment	Criteria
Compliant	Where the Auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the Audit.
Not Verified	Where the Auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the Audit. In the absence of sufficient verification, the Auditor may in some instances be able to verify by other means (visual inspection, personal communication, etc.) that a requirement has been met. In such a situation, the requirement should still be assessed as not verified. However, the Auditor could note in the report that they have no reasons to believe that the operation is non - compliant with that requirement.
Non - Complaint	Where the Auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the Audit.
Administrative Non - Compliance	A technical non - compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session). This would not apply to performance-related aspects (e.g. exceedance of a noise limit) or where a requirement had not been met at all (e.g. noise management plan not prepared and submitted for approval).
Not triggered	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the Audit inspection; therefore, a determination of compliance could not be made.
Observation	Observations are recorded where the Audit identified issues of concern which do not strictly relate to the scope of the Audit or assessment of compliance. Further observations are considered to be indicators of potential non - compliances or areas where performance may be improved.
Note	A statement or fact, where no assessment of compliance is required.

Table 4 Risk Levels for Non - Compliances

Risk Level	Colour Code	Description
High		Non - compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence.
Medium		Non - compliance with: <ul style="list-style-type: none">• Potential for serious environmental consequences, but is unlikely to occur; or• Potential for moderate environmental consequences but is likely to occur.
Low		Non - compliance with: <ul style="list-style-type: none">• Potential for moderate environmental consequences, but is unlikely to occur; or• Potential for low environmental consequences but is likely to occur.
Administrative Non - Compliance		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).

4 APPROVALS AND DOCUMENTATION

4.1 Previous IEA Recommendations

The 2020 Annual Review provided an update on outstanding IEA actions, with these summarised below. All wording in this section is from TGO. Ongoing actions are highlighted **bold**.

Table 5 Progress on outstanding the Previous IEA issues (From 2020 Annual Review)

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
	Schedule 3 - Condition 5(f) - <i>Operating Conditions</i>	The 2016 Annual Review provides for Management Measures investigated and implemented during the reporting period, however it does not report on the effectiveness of these measures.	TGO to include a section on the effectiveness of noise mitigation measures in the next Annual Review.	1/03/2020. Section included in 2019 Annual Review.
	Schedule 3 - Condition 6(a) - Noise Management Plan	This is set out in section 2.4 'Consultation' of the NMP, however there are no appendices to the NMP showing what consultation was undertaken, if any comments were received or how they were addressed in the NMP. Approval of the NMP was sighted during the previous IEA in an email dated 17 June 2013.	TGO will ensure that consultation that has occurred with the EPA, Council and DPE are attached as an appendix to the NMP for future reference. Any comments provided will also be addressed	Ongoing. TGO has submitted letters to both Council and EPA regarding the NMP. Council have replied with no concerns. The EPA are yet to respond and the latest revision of the NMP will be submitted for their review and approval in April 2021.
	Schedule 3 - Condition 20 (b) - Meteorological Monitoring	An email dated 27/04/15 from the supplier of the meteorological station was sighted which states that it complies with a) and not b) of this condition. The previous IEA recommended that TGO seek approval from the Director General (now Secretary) following	TGO will contact the EPA for a response to the request for agreement with the change in monitoring.	Ongoing.

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
		<p>consultation with the EPA, regarding whether the TGO weather station is a suitable alternative for continuous real time temperature lapse rate. An email letter submitted to the EPA on 30/12/15 explaining the situation and "confirming that TGO considers the use of the sigma-theta method to measure temperature lapse rate a suitable alternative to direct measurement". It was reported that the EPA did not respond and the DPE has not been notified.</p>	<p>TGO will then write to DPE requesting an exemption for item b of this condition</p>	<p>TGO has submitted a letter to EPA requesting agreement with the change in monitoring and are awaiting a response. A meeting was held with the EPA in Dubbo on 17th November 2020. TGO have yet to receive a response from the EPA. Following the EPA's agreement, TGO will then write to DPE requesting an exemption for item b of this condition.</p>
	<p>Schedule 3 - Condition 23 (a + b) - Water Discharges</p>	<p>TGO only discharged once during the audit period which occurred on 2 December 2017. The pre-rain checklist that is required to be completed prior to a rain event was sighted for this particular discharge event dated 26/11/17. The incident report sent to the EPA, DPE, NSC and DRG on 11/12/17 was sighted. The sampling results for surface water on this date were also sighted which show exceedances of the limits within the EPL.</p> <p>Section 3.3 Dirty Water of the WMP states that "Sediment basins are designed to manage sediment-laden runoff generated by the 10 day, 90th percentile rainfall event". The water discharge in December 2017, that was a non-compliance with the EPL, was the result of a high intensity rain. The dirty water dams on site reached capacity and subsequently discharged water off-site that had a pH exceeding the EPL discharge quality conditions. It is likely that on occasions that high intensity rainfall events will again result in the discharge of waters that could exceed the water quality limits specified in the EPL. It is recommended that TGO</p>		<p>TGO has implemented a variety of controls including pumping infrastructure installation and pre and post rainfall inspections for all sediment ponds as to ensure no further water discharges occur.</p> <p>No further actions have been taken.</p>

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
		consider discussing with the EPA an amendment to the EPL that takes into account very high intensity rainfall event that result in the site dirty water dam capacities being exceeded.		
	Schedule 3 - Condition 32 - Water Management Plan	<p>Consultation is set out in section 1.3 of the WMP which states that consultation has occurred with the relevant authorities, however this consultation is not attached as an appendix and so it is unclear what consultation took place or if there were any comments provided to be addressed in the WMP. The previous IEA stated that this correspondence was included as Appendix 2 of the WMP. Evidence of DP&E approval of the Groundwater consultant was sighted in the previous IEA. TGO prepared a WMP and submitted it to the DP&E on 18 July 2013. The WMP was not approved as it did not include six months of baseline groundwater monitoring data.</p> <p>TGO advised that the updated WMP was referred to agencies including the DPE. DPE never formally replied to TGO. A copy of an email to DPE from TGO following up on the approval of the WMP was sighted and nothing further has been received by DPE.</p> <p>Note that the auditor considers that TGO has met the intent of this Condition.</p> <p>Comments provided from DPIW and EPA were also sighted, TGO has made reference comments in the DPIW document only to acknowledge the changes have been made in the WMP. However, final signoff by the Secretary is outstanding.</p>	<p>TGO has engaged GHD to update the Water Management Plan as to address all IEA findings.</p> <p>TGO will submit the updated Water Management Plan to all relevant agencies for consultation which will then be attached as appendices, all comments will also be addressed.</p>	<p>Ongoing.</p> <p>TGO submitted the revised Draft Water Management Plan in February 2020 to relevant agencies for review and approval. A response has not been received from DPIE Water or NRAR at this stage. The Water Management Plan has required amending several times during 2020 as a result of changes to the water management system on site. TGO are currently updating the Water Management Plan.</p>
	Schedule 3 - Condition 32 (b)(iii) - Water Management Plan	<p>Design objectives and performance criteria for the design and management of final voids was not identified in the SWMP.</p> <p>Design and management of water storages is included in 6.1 'Storage capacity assessment' including design objectives of revised capacity volumes. Process water and residue storage facility is set out in section 3.5. Performance criteria</p>	<p>TGO has engaged GHD to update the Water Management Plan as to address all IEA findings.</p>	

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
		of water storages does not appear to be included in the SWMP. Performance criteria for the control of any water pollution from the rehabilitated areas of the site could not be identified in the SWMP.		
	Schedule 3 - Condition 32 (b)(v) - Water Management Plan	The SWMP includes plans to respond to exceedances of trigger values however it does not include a plan to mitigate and/or offset any adverse surface water impacts.	TGO has engaged GHD to update the Water Management Plan as to address all IEA findings.	
	Schedule 3 - Condition 33 - Biodiversity Offset	The Biodiversity Offset Strategy states that "Consultation with OEH and LLS resulted in modified offset area agreed for a Conservation Property Vegetation Plan (PVP)". A PVP has been developed in consultation with NSW Office of Environment and Heritage (OEH) and approved by Local Land Services (LLS) as the framework under which TGO will manage and provide long-term security for the Biodiversity Offset Area. It is noted that the offset areas within the agreed PVP are larger than those in this condition, however because the Department of Planning are yet to approve the PVP, this is a NC. It is further noted that email evidence of TGO submitting the PVP to the DPE for comment was sighted.	TGO will contact the DPE and seek approval of the PVP in writing.	Ongoing TGO has contacted the DPIE seeking written approval of the PVP.

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
	Schedule 3 - Condition 37 (a) - Biodiversity Management Plan	Compliant as per GHD IEA. Section 4 of the BMP 'Consultation' details the consultation undertaken with OEH and Local Land Services for the preparation of the BMP. Appendix 1 of the BMP provides full details of the consultation undertaken. TGO have sent the BMP to the DPE for approval (email evidence sighted) however are yet to receive formal response from DPE approving the plan.	TGO will address the IEA actions within the Biodiversity Management Plan and then submit to DPE for approval.	Ongoing The Draft Biodiversity Management Plan has been completed and is with DPIE for review and approval.
	Schedule 3 - Condition 37 (c) - Biodiversity Management Plan	Section 6.2 of the BMP provides details of the management strategies that will be implemented to manage remnant vegetation and habitat within the Biodiversity Offset Area, however it does not include measures for the site. These management strategies are classified as 'short-term', 'mid-term' and 'long' term. Managing habitat integrity is set out in section 6.3.3 of the BMP. Performance criteria are included in Section 11 of the BMP. However completion criteria are not provided within the BMP. A Property Vegetation Plan (PVP) has been developed in consultation with NSW Office of Environment and Heritage (OEH) and approved by Local Land Services (LLS) as the framework under which TGO will manage and provide long-term security for the Biodiversity Offset Area. The PVP is attached as Appendix 2 to the BMP.	TGO will include detailed completion criteria during the next review of the BMP.	Ongoing The Draft Biodiversity Management Plan has been completed and is with DPIE for review and approval.
	Schedule 3 - Condition 37 (d) - Biodiversity Management Plan	Table 7 of the BMP details the response actions to managing identified risks in the biodiversity offset area. Performance criteria are included in Section 11 of the BMP. However completion criteria are not provided within the BMP.	TGO will include completion criteria for evaluating the performance of the biodiversity offset strategy during the next review of the BMP.	

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
	Schedule 3 - Condition 37 (e)(iii) - Biodiversity Management Plan	<p>Procedures for natural regeneration is addressed in Section 7 'Flora Management'. This section states "Natural regeneration is occurring readily and propagation and supplementary planting efforts are likely to be used for species that are not naturally regenerating or have notably reduced local populations. To this end natural regeneration has been highly successful and this requirement may not be required". Detailed description of procedures to be implemented for restoring native vegetation through focusing on targeted vegetation establishment and the introduction of naturally scarce fauna habitat features could not be identified in the BMP.</p> <p>Fauna habitat is set out in Section 8 'Fauna Management' of the BMP.</p>	TGO will include a description of procedures to be implemented for restoring native vegetation through focussing on; targeted vegetation establishment and the introduction of naturally scarce fauna habitat features during the next review of the BMP.	
	Schedule 3 - Condition 39 (e)(ii) - Heritage Management Plan	No information is included in the CHMP for the storage of salvaged historic heritage items.	TGO will include a strategy for the storage of any heritage items salvaged onsite, both during the project and long term during the next review of the HMP.	<p>Ongoing</p> <p>HMP is to be reviewed and submitted for approval.</p>
	Schedule 3 - Condition 48 (c) - Hazardous Materials Management Plan	<p>Section 3.1.1 of the HMMP states that 'the third modification to PA 09_0155 (MOD 3) was approved by DPE in July 2016 which was after the commencement of mining operations.</p> <p>It is also noted that in the previous IEA (2015), "No evidence of correspondence with the DG was sighted to confirm submission and/or approval".</p> <p>An email sent to DPE on 22/06/17 requesting approval of the HMMP was sighted.</p>	DPE are currently reviewing this Management Plan	Awaiting DPIE

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
	Schedule 3 - Condition 53 (l) - Rehabilitation Management Plan	No evidence was found in the MOP A2 that backfilling of Caloma Two void has been considered. Section 7.2.8 states that "Cal2 Open Cut will be retained as a void in the final landform". TGO advised that there is consultation regarding this and should be in the most recent version of the MOP, however this could not be identified.	TGO will update the next MOP with CL2 backfilling options. Currently the site does not have sufficient waste rock onsite to fill the void.	Ongoing
	Schedule 5 - Condition 1 (e)(v) - Environmental Management Strategy	Section 7.3.1 'Project Induction' states that induction addresses emergency plans, however the EM Strategy does not describe the procedures that would be implemented to respond to emergencies. TGO do have an Emergency Management Plan that was sighted however it is not referenced within the Strategy.	TGO will revise the EM Strategy as to include a section on 'Emergency Response' procedures or reference the Emergency Management Plan and where to locate it.	Ongoing
	Schedule 5 - Condition 3 (c) - Management Plan Requirements	Incident reporting, corrective actions and mitigation measures are provided for in most management plans. Some Management Plans also include Trigger Action Response Plans.	TGO will update the relevant Management Plans (BLMP and NMP) (AQGHGMP is currently under review by DPE) as to include specific actions to manage any unpredicted impacts and their consequences during the next review of the corresponding MP.	Ongoing
	Schedule 5 - Condition 5 - <i>Revision Strategies, Plans and Programs</i>	The Revision Control Chart at the start of every Management Plan includes details of revisions. Document review requirements are not included in the EM Strategy. Some of the individual management plans include reference to some of the review requirements in this condition. For example, the NMP does not reference revision after the submission of an incident report. The BLMP does not reference any review requirements. The BMP and CHMP	TGO will update the EMS as to include a Management Plan review table. TGO will update individual Management Plans during the next review as to include both a trigger for review and a review table.	Ongoing

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
		only make reference to review after modification of projects approvals.		
	Schedule 5 - Condition 7 - Incident Reporting	<p>The requirement is provided for in section 2.1.2 'Notification of Authorities' and 3.2 Incident Report' in the Pollution Incident Response Management Plan (PIRMP). Environment incidents are reported and responded to in accordance with the TGO Incident Report which is completed as part of the Incident Investigation.</p> <p>Most management plans state that the DP&E will be notified of the incident and that a report will be provided within 7 days however the PIRMP does not make reference to the DP&E within section 2.1.2 'Notification of Authorities'.</p>	TGO will update the PIRMP to include reference to the DPE being notified as per the condition, during the next review.	<p>No further action.</p> <p>TGO have reviewed and updated the PIRMP as to comply with this condition</p>
	Appendix 8 - Statement Of Commitments - Section 4.4 - Noise	<p>Responses to real time monitoring are set out in sections 5.3.1 and 5.3.2 of the NMP.</p> <p>TGO advised that due to traffic noise it is not possible for TGO to act on real time noise data. Real time data is reviewed by Muller Acoustic consulting. A sample of reports was sighted.</p>	TGO will update the NMP as to include actual onsite practices during the next scheduled review.	<p>Ongoing</p> <p>TGO are awaiting a response from the EPA in regard to the NMP, once received TGO will update the NMP accordingly.</p>
	Appendix 8 - Statement Of Commitments - Section 5.4 - Surface Water	This was observed as adequate in most instances. There was one instance where some fuel drums (having just been delivered) were sitting on a pallet bund that was not compliant.	TGO implements a Hazardous Materials Management Plan which states that all hazardous materials will be stored and handled in accordance with "AS/NZ 4452 - Storage and Handling of Toxic Substances". (Transit storage - between 12hr and 3 working days)	No Further Action

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
	Appendix 8 - Statement Of Commitments - Section 5.5 - <i>Surface Water</i>	There was one instance where some fuel drums (having just been delivered) were sitting on a pallet bund that was not compliant.		No Further Action
	EPL20169 Condition L1.1 - Pollution of waters	<p>The following items were observed during the inspection:</p> <ol style="list-style-type: none"> 1. Used batteries were located on the ground unbunded. 2. Surface contamination (oil) of soils in the maintenance workshop. It is noted that this area will be de-contaminated during Mine Closure. 3. Petroleum drums on non-compliant banded pallets. 4. TGO have only discharged once in the audit period which occurred on 2 December 2017. The pre-rain checklist that is required to be completed prior to a rain event was sighted for this particular discharge event dated 26/11/17. The incident report sent to the EPA, DPE, NSC and DRG on 11/12/17 was sighted. The sampling results for surface water on this date were also sighted which show exceedances of the limits within the EPL. <p>Each of these issues have the potential to breach section 120 of the Protection of the Environment Operations Act 1997.</p>		No Further Action
	EPL20169 Condition L2.2 - Concentration Limits	Annual Return 2015 showed PH sample values of 10.74, 8.92, 10.05, 9.61. Annual Return 2016 showed a PH sample of 9.71 which are over the limit range from 6.5-8.5.	TGO has engaged GHD to update the Water Management Plan as to address all IEA findings	Ongoing

IEA Report Reference	Conditions and Commitments Found Not Compliant	IEA Finding	Action to Address Issue	Status (From 2020 Annual Review)
	EPL20169 Condition M4.1- Environmental Monitoring	<p>This is set out in section 2.1 of the NMA.</p> <p>Details of noise assessment results are detailed for each location listed in condition L4.1 except for R1. TGO noted that R1 is not included in the monitoring because TGO own the property. However, because R1 is still listed in the EPL, monitoring must be undertaken. As TGO owns the property, it is recommended that TGO seek a licence amendment from the EPA, if they want to stop monitoring at that location.</p>	TGO to include R1 in the next round of monitoring as per the licence condition.	Complete

4.2 Project Approval

The IEA assessed the 09_0155 Project Approval (MOD 4), which was approved in May 2020. Non – compliances related to:

- Implementing real time triggers and actions from the Noise Management Plan.
- Predictive forecasting of potential noise impacts.
- Not documenting all weather conditions at site prior to blasting.
- No evidence of assessing potential site dust contributions (incremental short term impacts).
- Not fully implementing the real time dust monitoring system and responding to dust triggers.
- Discrepancies between the data collected by the HVAS and TEOM. On 6% of the occasions, TSP concentrations recorded are less than that of PM10.
- Older bulky bins with contaminated chemicals or hydraulic oil remain onsite in unbunded areas.
- No evaluation of any trends in the water monitoring results occurring across the site over the life of the Project (relating to Water Management Plan commitments).
- .Not effectively implementing the water management TARP's, with this including records of inspections (pre and post rainfall). Based on site discussions the surface water monitoring of dams have been pushed out to 25mm (in draft plan), not the 10mm requirement in the currently approved plan.
- Groundwater results are presented in a different format (sample depth metres) compared to the Groundwater Triggers within the Groundwater Management Plan (Level m AHD). As these formats were different it was not possible for the site to compare whether groundwater triggers have been reached. The PVP has not yet been approved by DPIE. Note, there has been evidence over the years of consultation.
- There is no mention of longterm storage and management of heritage items, with this being a requirement of the ACHMP.
- Records of vehicles entering and exiting the site is provided but it is not separated by heavy vehicle vs other vehicles, with this being a requirement of the Transport Management Plan.
- There is no information in the Environmental Management Strategy regarding emergency response\.
- Most management plans contain little information relating to baseline information. Management plans do contain some information about contingency response but the format and level of actions differ between plans.
- Some management plans have not been updated since the last audit and MOD 4.
- There was no evidence of an extension to the IEA reporting date.

Recommendations relating to the Project Approval are outlined in **Section 6 and 7** of this IEA Report. There are still some ongoing actions from the previous IEA.

4.3 Statement of Commitments

The site generally performed well against the Statement of Commitments (attached to the Project Approval). Some of the same issues that were identified in the Project Approval were non compliances including real time air and noise management, storage of hydrocarbon and fuels and recording of transport numbers for heavy vehicles

4.4 Environment Protection Licence

TGO operated under EPL 20169 which has an anniversary date of 23 October. Recommendations relating to the EPL are outlined in **Section 6 and 7** of this IEA Report. Some of the same issues that were identified in the Project Approval were non compliances including storage of hydrocarbon and the calibration of meteorological monitor. The IEA team also had a non – compliance relating to incident reporting within a timely manner.

4.5 Management Plans and Programs

An update on the site environmental management plans is outlined in the table below. It is noted that some of these management plans have been updated and are currently with DPIE for review and approval.

Table 6 TGO Management Plans

Development Consent Condition	Management Plan	Current Approved Management Plan Date	Summary of Management Plan	Compliance Assessment
PA 09_0155 Schedule 3, Condition 19	Air Quality and Greenhouse Gas Management Plan	July 2017	Air Quality and Greenhouse Gas Management Plan (AQGGMP) for TGO, approved 22 September 2016 after consultation with DPE, EPA, and Council. Revision 5 made after MOD 3.	Low-risk non-compliance for the AQGGMP. The plan prepared in accordance with requirements, however real-time monitoring systems and responses were not fully implemented during the IEA period.
PA 09_0155 Schedule 3, Condition 37	Biodiversity Management Plan	January 2017	Biodiversity Management Plan for TGO. Consultation on Property Vegetation Plan occurred 17 September 2014. Current Revision 6 made following approval MOD 3. A revised Biodiversity Management Plan was made in 2020 following recommendations from the previous IEA which is currently waiting for approval by DPIE.	Compliant. This plan was prepared and implemented in accordance with the requirements.
PA 09_0155 Schedule 3, Condition 14	Blast Management Plan	15 September 2016	Blast Management Plan for TGO. Current Revision 6 updated for MOD 3.	Administrative non-compliance as the Blast Management Plan does not have adequate information on consultation with TfNSW during the preparation of the plan.
PA 09_0155 Schedule 3, Condition 39	Cultural Heritage Management Plan	September 2016	Cultural Heritage Management Plan for TGO. Revision 1 of this plan was submitted for approval on 12 October 2012. Current Revision 4 updated for MOD 3.	Administrative non-compliance as the Plan does not describe long-term storage and management of heritage items. This was also a finding of the previous IEA.
PA 09_0155 Schedule 5, Condition 1	Environmental Management Strategy	December 2017	Environmental Management Strategy for TGO. Submitted for approval in September 2012. Current version revised for internal review in December 2017.	Administrative non-compliance due to lack of information in the "Emergency Response" section. This was also identified in the previous IEA.
PA 09_0155 Schedule 3, Condition 48	Hazardous Materials Management Plan	April 2017	Hazardous Materials Management Plan for TGO. Revision 4 made to address MOD 3.	Compliant. This plan was prepared and implemented in accordance with the requirements.

Development Consent Condition	Management Plan	Current Approved Management Plan Date	Summary of Management Plan	Compliance Assessment
PA 09_0155 Schedule 3, Condition 53	Mining Operations Plan	July 2016	Amendment 2 of the Second Mining Operations Plan for TGO, covering the period 1 April 2014 to 31 March 2021. The MOP also includes a Rehabilitation Management Plan to satisfy Schedule 3, Condition 53 of the Project Approval.	Compliant. This plan was prepared and implemented in accordance with the requirements.
PA 09_0155 Schedule 3, Condition 6	Noise Management Plan	November 2016	Noise Management Plan for TGO. Latest revision prepared for internal review by Muller Acoustic Consulting.	Administrative non-compliance for lack of evidence around the implementation of real-time monitoring systems.
PA 09_0155 Schedule 3, Condition 44	Traffic Management Plan	September 2016	Traffic Management Plan for TGO. Revision 4 updates made to reflect MOD 3.	Generally compliant, however administrative non-compliance was decided due to the method of recording vehicles entering and exiting the site not distinguishing heavy vehicles from other vehicles.
PA 09_0155 Schedule 3, Condition 32	Water Management Plan	November 2017	Current Water Management Plan for TGO. Plan includes the Site Water Balance, Surface Water Management Plan, and Groundwater Management Plan in the Appendices. An updated Water Management Plan was sent to DPIE for approval in March 2020.	Administrative non-compliance. Plan generally covers the requirements, however, is non-compliant regarding implementation including evaluation of long-term trends, documentation of actioned TARPs, and monitoring when rainfall values are triggered. Surface Water Management Plan does not contain design and management of final void as required.

4.6 Property Vegetation Plan

A review of the Property Vegetation Plan (PVP) was completed as part of this IEA with this requested by the DPIE - BCD during the IEA consultation process. The PVP has not yet been approved by DPIE. Note, there has been evidence over the years of consultation. There is a recommendation in the IEA about further liaison with DPIE to obtain approval for the PVP.

It should be noted that there is evidence of a letter from Local Land Services - Central West - re: Registration of PVP (dated 7 May 2015). Due to wet weather during the IEA site inspection, the PVP area was not inspected, however a large amount of information was provided to IEMA to assess compliance in this area including:

- 2018-2020 Biodiversity and Rehabilitation Monitoring Report (DnA Environmental);
- Fauna Monitoring Report (Area Environmental Consultants and Communication December 2019);
- Tree supply invoices;
- Photos and inspection records; and
- Weed management.

There were no field relating issues noted during the review of documentation.

4.7 Mining Leases

TGO only have one Mining Lease (ML 1684). We assessed this lease with conditions being compliant or not triggered.

4.8 Water Access Licences

The Annual Reviews provide an update on Water Access Licences (WAL) including passive take / inflows and active pumping. A review of water take compared to the entitlement (unit share) has been included within this section of the IEA.

The IEA team has assessed compliance with the information that TGO has provided within the Annual Review. TGO appeared compliant with approval limits. See **Table 7** below.

Table 7 Water Take at Tomingley During the IEA Period

Water Licence	Annual Review Date	Water Sharing plan, source and management zone (as applicable)	Entitlement (ML)	Passive take/inflows	Active pumping	TOTAL
WAL20270 (Narromine Pipeline)	2018	Lower Macquarie Zone 6 Groundwater source	1000	Nil	566.5	566.5
WAL28643 & WAL29266 (open cut)	2018	NSW Murray Darling Basin Fractured Rock Aquifer	220	Negligible (not measurable)	Nil	Negligible
N/A	2018	Direct rainfall and catchment runoff captured under harvestable rights	N/A	403*	Nil	403
WAL34968 (Peak Hill Gold Mine)	2018	Upper Bogan River Water Source/Macquarie Bogan Unregulated and Alluvial Water Sources 2012	300	Nil	Nil	Nil
WAL20270 (Narromine Pipeline)	2019	Lower Macquarie Zone 6 Groundwater Source	1000	Nil	623	623
WAL28643 & WAL29266 (open cut)	2019	NSW Murray Darling Basin Fractured Rock Aquifer	220	Negligible (not measurable)	Nil	Negligible
N/A	2019	Direct rainfall and catchment runoff captured under harvestable rights	N/A	0	Nil	0
WAL34968 (Peak Hill Gold Mine)	2019	Upper Bogan River Water Source/Macquarie Bogan Unregulated and Alluvial Water Sources 2012	300	Nil	Nil	Nil
WAL20270 (Narromine Pipeline)	2020	Lower Macquarie Zone 6 Groundwater Source	1000	Nil	600	600
WAL28643 & WAL29266	2020	NSW Murray Darling Basin Fractured Rock Aquifer	220	Negligible (not measurable)	Nil	Negligible
N/A	2020	Direct rainfall and catchment runoff captured under harvestable rights	N/A	0	Nil	0
WAL34968 (Peak Hill Gold Mine)	2020	Upper Bogan River Water Source/Macquarie Bogan Unregulated and Alluvial Water Sources 2012	300	Nil	Nil	nil

*Direct rainfall and catchment runoff volume based on modelled in WB

4.9 Complaints

A summary of complaints is outlined in the Annual Review and Complaints Log. The number and type of complaints did vary across the IEA period. Evidence was provided to the IEA team regarding the investigation and reporting of complaints.

Table 8 Number of Complaints since last IEA

Year	Total Complaints	Breakdown of Complaints	
2021 Year to Date	0	N/A	
2020	0	N/A	
2019	0	N/A	
Audit Period 9 March 2018 – 31 December 2018	2	Dust	One (1) dust complaint on 13 March 2018 at 11:15AM. Dust at residence believed to due to southerly wind. No further actions were taken.
		Radio Complaint	One (1) complaint on 29 August 2018 at 9:00AM regarding impact to radio signal. Interference with UHF radio occurred at a Peak Hill farm operation. It was found that TGO activities being done at WRE3, an elevated location, was interrupting farm UHF channel. TGO channel was changed to avoid interference.

4.10 Environmental Incidents

Reportable incidents during the IEA period have been included in this section. This is based on information from TGO and the EPA, not the Annual Review.

Although there were some incidents during the IEA period, there was no evidence of material harm.

Incident 1 - Cyanide Groundwater

The EPA issued a Clean-up Notice for elevated cyanide levels dated 24 July 2019. This notice was based on a self-reported incident from 18 July 2019. An increase in the cyanide levels in the PWMP2 bore had occurred over an extended period since 2015 (outside of IEA period). A Validation Report prepared by TGO and invoice of the \$550 Clean-up Notice Fee was sighted as part of this IEA.

Based on information provided to the IEA team, there was no evidence of material harm and no mention of material from sighted EPA consultation.

It should be noted the results for PWMP2 bore for cyanide continue to remain higher than pre-incident levels.

There have been a series of reports by GHD investigating the cause and impacts of the increased cyanide levels. The June 2020 Report stated:

Previous investigations (GHD 2015) identified elevated cyanide concentrations at monitoring bore PWMP02 in early 2015. The contamination was considered at the time to be likely to be associated with issues of containment of surface water at the rear of the ball mill. However the findings of GHD (2019) indicated the contamination at PWMP02 is from the process water system.

Overall, elevated cyanide concentrations appear to be limited to the shallow groundwater around PWMP02.

Incident 2 and 3 - Process Water Spill

Two incidents of process water spills occurred in the IEA period. The first incident occurred on 2 August 2019, with incident report supplied on 9 August 2019.

The second incidence occurred on 13 October 2019, with an incident report submitted on 18 October 2019.

Both of these incident reports have been sighted by the IEA team.

4.11 Comparison Against EA Predictions

The IEA team completed a review of the Key Environmental Assessment Commitments.

The IEA team reviewed monitoring results from the Annual Reviews to assess in comparing actual vs predicted impacts. It is noted that TGO compared results in Annual Reviews against predicted EIS impacts. The IEA is satisfied with how this information is being reported within the Annual Review, with there being separation sections for 'EA Predictions'. Activities and monitoring data have generally been within EA predictions.

5 ENVIRONMENTAL MANAGEMENT – SPECIALIST ASSESSMENTS

5.1 Noise

The Noise Management Plan outlines the monitoring and mitigation measures relating to TGO.

A review at noise management at TGO found some administrative non-compliances in relation to the integration of real-time systems in the TGO monitoring program. There is no evidence that TGO plans day to day operations using a combination of data from the predictive meteorological forecasting and real-time noise monitoring data as required by Schedule 3 Condition 5(b) of the Project Approval. Monthly reports by Muller Acoustics Consultants (MAC) outline real time results and sources of noise from when a real time trigger is reached. There is no evidence of the site responding to these noise triggers. It should be noted the actions required for real time noise assessment are outlined in Section 5.3 of the Noise Management Plan.

There is no evidence of mitigation measures being reviewed or adapted at site based on meteorological conditions.

Therefore, the site is non-compliant for applying predictive forecasting and implementing the real time noise monitoring system at the time of triggers.

Recommendations relating to noise are outlined in **Section 6 and 7**.

5.2 Air Quality

Air Quality Monitoring and Real-time System:

- The field inspection did not indicate any air quality issues, with water trucks noted and progressive rehabilitation.
- According to Section 7.4.3 of the Air Quality and Greenhouse Gas Management Plan, the TSP High Volume Air Sampler (HVAS) installed at 40 Myall Street, measures TSP on a 24-hour, one-day-in-six frequency and is co-located with the TEOM. A review of data collected during the year 2018 identified that on eight occasions (21-Feb, 17-Mar, 10-May, 28-May, 08-Aug, 26-Aug, 25-Sep, 18-Dec), scheduled TSP sampling was not performed. No details provided in the annual review in relation to these missed sampled.
- The Data capture rate for the TEOM is acceptable and ranges between 97% and 99% for the years reviewed.
- The monthly TEOM reports provide a high level review of exceedances and qualitatively determine potential emission sources during each exceedance event. While this information is useful, this report is prepared at the end of each month, by which time the opportunity to implement additional mitigation measures (if required) has passed. No evidence of changes to operations during high particulate concentration events was provided to the audit team. Moreover, no evidence was provided that exceedances of the relevant criteria and/or trigger levels were investigated as they occurred.
- Based on information provided in the Annual Reviews, not all exceedances of the relevant air quality criteria were due to exceptional events. While the Tomingley mine did not necessarily contribute to the exceedances of criteria,
- No evidence provided that the facility implemented mitigation measures during 2018, 2019 and 2020 to minimise the air quality impacts of the project during extraordinary events.
- The Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales which has been referenced within the Air Quality and Greenhouse Gas Management Plan states that "Analyses should be carried out by a laboratory accredited to perform them by an independent accreditation body acceptable to the EPA, such as the National Association of Testing Authorities (NATA)". From the information provided, it is not clear if the TEOM sampling/analysis and HVAS sampling has been completed by a NATA laboratory. It is noted that the analysis of HVAS results has been completed by a NATA accredited laboratory.

- A review of the PM₁₀ and TSP data (which are co-located, as per Figure 3 of the AQMP) shows discrepancies between the data collected by the HVAS and TEOM. On 6% of the occasions, TSP concentrations recorded are less than that of PM₁₀. The recorded TSP concentrations are less than half of the recorded PM₁₀ concentration for 2% of the time from 2018 to 2021. It is acknowledged that there is a level of uncertainty associated with each sampling method. However, the significantly lower TSP/PM₁₀ ratio on some occasions indicated that either the sampling, analysis or data validation has not been performed in accordance with the relevant standard for one or both of the methods.

Meteorological Monitoring System:

- Included in carbon based monitoring reports.
- Evidence of calibration in the reports.
- Calibrations performed in accordance with AS2923-1987 for Class 3 instruments (ie measurement programs where a broad indication of the wind regime is adequate for project objectives).
- It is noted that the 2019 annual calibration was completed 15 months after the previous calibration (the previous annual calibration was completed March 2018 and 2019 calibration in June 2019).

Recommendations relating to air quality are outlined in **Section 6 and 7**.

6 IEA FINDINGS – SUMMARY OF NON – COMPLIANCES

Table 9 outlines the summary of non - compliances and proposed recommendations relating to the key approvals. It should be noted that Improvement recommendations are outlined in **Section 7**.

Table 9 Summary of Non - Compliances

Cond No.	Condition	Compliance Status	Evidence	Recommendations
Project Approval				
S3 C5	<p>Operating Conditions The Proponent shall:</p> <p>(a) implement best management practice, including all reasonable and feasible noise mitigation measures, to minimise the construction, operational and traffic noise of the project; including measures to:</p> <ul style="list-style-type: none"> • minimise maximum noise levels from the tipping of waste rock; and • relocate mobile plant from elevated and exposed sections of the site under adverse meteorological conditions at night; <p>(b) operate a noise management system on site that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this approval;</p> <p>(c) investigate ways to minimise the noise generated by the project;</p> <p>(d) maintain the effectiveness of noise suppression equipment on plant at all times and ensure that defective plant is not used operationally until fully repaired;</p> <p>(e) minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply; and</p> <p>(f) report on these investigations and the implementation and effectiveness of these measures in the Annual Review, to the satisfaction of the Secretary.</p>	Admin NC	<p>a); Evidence of screening of crusher which is the main noise source. No activities since 2018 in higher up rehabilitation areas which cause more potential noise to receptors.</p> <p>b); There is a real time system in place. Although the system is in place the site has not had to actively use this system due to compliance with noise and there hasn't been noise complaints. However Muller Acoustics manage the system and can contact TGO if there are higher noise levels (above criteria) recorded from the site. There is no evidence that operations are planned based on using a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations. There are monthly reports completed by MAC which outlines the real time results and the source of noise from a real time trigger is reached. This summarises MAC's post analysis of noise events and compliance. However there is no evidence of site actions following noise triggers. It is noted that there are actions required for real time noise assessment in Section 5.3 of the Noise Management Plan. We have deemed the site <u>non - compliant</u> for implementing the real time noise monitoring system (at time of triggers) and a lack of predictive forecasting.</p> <p>c); This has not been required during the IEA period due to compliance. Evidence of monthly real-time reports by Muller Acoustics.</p> <p>d); Monitoring continues to be completed.</p>	<p>NC REC 1: Ensure there are improved record keeping for changes made at site relating to noise real time noise triggers and actions. Records should be kept indicating TGO has reviewed site activities when a trigger has been hit.</p> <p>NC REC 2: Look into the implementation operating a noise management system on site that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations. This is to cover Schedule 3 Condition 5b of the Project Approval.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
			e); Real time monitoring continues and so does meteorological monitoring. No specific evidence of reviewing potential noise based on meteorological conditions. f) There has been no proposed improvements required as the site has been compliant.	
S3 C6	<p>Noise Management Plan</p> <p>The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. The plan must:</p> <p>(a) be prepared in consultation with the EPA and Council, and submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise;</p> <p>(b) describe the measures that would be implemented to ensure compliance with conditions 3-5 of this schedule, including a trigger action response plan based on noise complaints, real time and attended noise monitoring;</p> <p>(c) include a monitoring program that:</p> <p>(i) uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project;</p> <p>(ii) adequately supports the proactive and reactive noise management system on site;</p> <p>(iii) defines what constitutes a noise incident, and includes a protocol for identifying noise incidents and notifying the Department and relevant stakeholders of any such incident;</p> <p>(iv) evaluates and reports on the effectiveness of the noise management system on site;</p> <p>(v) 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 better indicator of compliance with the noise criteria in this approval and a trigger for further attended monitoring); and</p>	Admin NC	<p><u>Preparation:</u></p> <p>Noise Management Plan that is on the website is dated November 2016 and was not updated following the last IEA.</p> <p>Note, the document does not have a cross referencing table. We do not have this as a recommendation in this condition as we have this as a recommendation under Schedule 5 Condition 3.</p> <p>a) Section 2.4 Consultation.</p> <p>b) Section 5 Noise Actions and Response Plan (Section 5.3.3 Noise Incident Response, Section 5.5 & Section 8 complaints).</p> <p>c);</p> <p>I. Section 5 Noise Actions and Response Plan.</p> <p>ii. "Proactive" - Section 4.4 Engineering Noise Controls. Section 4.5 Procedural Noise Controls. Section 4.6.2 Real Time Unattended Noise Logging (monitors to be hired periodically at various positions). Section 4.6 Noise Monitoring.</p> <p>iii. Section 5.3.3 Noise Incident Response. Appendix 4 Attended Noise Monitoring Procedure. Section 5.5 In the Event of a Complaint.</p> <p>iv. This is completed as part of Annual Reviews.</p> <p>V. Section 5.2.1 Validation Assessment. Appendix 4 Attended Noise Monitoring Procedure. Section 4.6 Noise Monitoring.</p> <p>d); Section 7 Review (addresses this condition but does not present a noise reduction strategy). Appendix 3 Sound Power Screening Test.</p> <p><u>Implementation:</u></p>	The recommendation is an improvement REC. See Section 7.

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	(d) include a noise reduction strategy for progressively reducing mine noise during open cut mining operations, consistent with the noise scenarios described in the document 'Tomingley Gold Mine Environmental Assessment – Project Approval No. 09_0155 Modification 3' dated November 2015.		<p>Evidence of noise management in the field inspection through location of noisy equipment (eg. crusher). Real time noise system, Complaints log and noise results were sighted. Noise has not been an issue at the site in terms of compliance against noise criteria.</p> <p>Evidence of attended noise monitoring and comparison against noise criteria. There are monthly reports completed by MAC which outlines the unattended noise results (EPL criteria). This summarises MAC's post analysis of unattended noise monitoring and compliance and includes determining the component of noise that is from TGO. No issues were determined in the monthly MAC reports.</p> <p>Real time System - There is a system in place, however there is no evidence of site actions following noise triggers <u>at the time of an elevated noise level</u> from real time noise monitoring. It is noted that there are actions required for real time noise assessment in Section 5.3 of the Noise Management Plan. It states that 'the following actions will occur immediately after obtaining exceedance information from the real - time monitors". We have not been provided definitive dates about when real time noise triggers occurred.</p> <p>We have also deemed the site <u>non - compliant</u> for implementing the real time noise monitoring system. including using a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations.</p> <p>Evidence of sound power levels for site equipment.</p> <p>One minor recommendation about monitoring frequency.</p>	
S3 C14	<p>Blast Management Plan</p> <p>The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with EPA, TfNSW and Council, and submitted to the Secretary for approval prior to undertaking any blasting in conjunction with mining operations on-site;</p>	Admin NC	<p><u>Preparation:</u> Note, the document does not have a cross referencing table.</p> <p>a); Section 6 Consultation. Appendix 1 Consultation in the preparation of this plan. Consultation with RMS but not sure about TfNSW. As there is no information included in the management plan this condition has been called non - compliant.</p>	<p>NC REC 3: Ensure the site keeps evidence of assessing weather conditions prior to blasting as well as recording this information in the Blast Summary Spreadsheet.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>(b) describe the blast mitigation measures that would be implemented to ensure compliance with conditions 7-13 of this schedule; and</p> <p>(c) include a blast monitoring program to evaluate the performance of the project.</p>		<p>b); Section 8.1.8 Summary of Blast Impact Mitigation Measures. Section 8 Operational Management of Blasting Activities.</p> <p>c); Section 10 Monitoring. Appendix 2 TGO Blast Logging Template.</p> <p><u>Implementation:</u></p> <ul style="list-style-type: none"> • Evidence of blast results. • Evidence of blast notifications to landholders. • Blasting managed by contractors with sentries being used. • Evidence of road occupancy licence (1501882). • Evidence of blasting signs which are required in the Blast Management Plan. • Minimal documented evidence illustrating an assessment of weather conditions prior to open cut blasting (<u>non - compliance with implementing the Blast Management Plan</u>). There was no recording of wind direction or strength on the following dates in the Blast Summary spreadsheet: 12/03/2018, 13/03/2018, 24/03/2018, 11/04/2018, 12/04/2018, 14/04/2018, 17/04/2018, 19/04/2018, 21/04/2018, 3/05/2018, 9/05/2018, 12/05/2018, 21/05/2018, 24/05/2018, 28/05/2018, 29/05/2018, 4/06/2018, 9/06/2018, 12/06/2018, 20/06/2018, 21/06/2018, 25/06/2018, 17/07/2018, 21/07/2018, 24/08/2018, 12/09/2018, 17/09/2018, and 10/10/2018. There are site records of meteorological data, but the spreadsheets do not show evidence that weather conditions were assessed for all blasts. 	
S3 C17	<p>Air Quality Criteria</p> <p>The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria listed in Tables 5, 6 or 7 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.</p>	Low Risk NC	<p>See condition for full details.</p> <p><u>Compliance Summary:</u></p> <p>There have been outages in TEOM, however the data capture is still high, so we have determined the site compliant for data capture.</p>	<p>NC REC 4: Going forward it is recommended that a spreadsheet or spreadsheets are prepared to include ongoing environmental monitoring results (eg. Air, surface water and groundwater). This will enable an easier assessment of results and trends.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations																							
	<p>Table 5: Long term impact assessment criteria for particulate matter</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>^d Criterion</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>^a 90 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>Annual</td> <td>^a 30 µg/m³</td> </tr> </tbody> </table> <p>Table 6: Short term impact assessment criterion for particulate matter</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>^d Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>^a 50 µg/m³</td> </tr> </tbody> </table> <p>Table 7: Long term impact assessment criteria for deposited dust</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Maximum increase in deposited dust level</th> <th>Maximum total deposited dust level</th> </tr> </thead> <tbody> <tr> <td>^c Deposited dust</td> <td>Annual</td> <td>^b 2 g/m²/month</td> <td>^{a, d} 4 g/m²/month</td> </tr> </tbody> </table> <p>Notes to Tables 5-7:</p> <ul style="list-style-type: none"> • a Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to all other sources); • b Incremental impact (i.e. incremental increase in concentrations due to the project on its own); • c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2016: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method, or its latest version; and • d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary." 	Pollutant	Averaging Period	^d Criterion	Total suspended particulate (TSP) matter	Annual	^a 90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	^a 30 µg/m ³	Pollutant	Averaging Period	^d Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 50 µg/m ³	Pollutant	Averaging Period	Maximum increase in deposited dust level	Maximum total deposited dust level	^c Deposited dust	Annual	^b 2 g/m ² /month	^{a, d} 4 g/m ² /month		<p>There were exceedances of short term criteria. Although it is likely that these have been attributable to regional and extraordinary events, evidence has not been provided for reviewing and investigating the cause of all short term exceedances. Any evidence of the review of short term criteria exceedances was not completed immediately (sometimes at the end of the month, however some more recent review was also completed). No evidence of assessing potential site contributions (incremental short term impacts). We cannot therefore determine if the site met the short term PM10 criteria. <u>Non - compliance.</u></p> <p>Key monitoring information is not provided in a consolidated spreadsheet (with exception of TEOM data). The information has generally been provided in monthly reports which does not give you an understanding of annual averages or long-term data trends. Longer term spreadsheets for all dust monitoring is required going forward.</p> <p>Reporting of air quality monitoring data not consistent across the annual reviews. The 2018 Annual Review does not present annual average PM2.5 concentrations,</p>	<p>NC REC 5: Records should be kept in regard to planning for adverse weather requirements in an attempt to reduce dust emissions. Also if operations are changed due to adverse weather events (eg. wind direction, strength then this information should be recorded and kept at site.</p> <p>NC REC 6: Liaise with an air quality specialist to utilise real time information and meteorological conditions to determine the incremental impact from site dust levels. This system should be easy enough that the site can determine it quickly. Utilising regional dust stations as well. A formal procedure for investigating any exceedances of ambient air quality criteria should be developed.</p> <p>Another alternative is to investigate the use of directional dust gauges to integrate with the current dust management system.</p>
Pollutant	Averaging Period	^d Criterion																									
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S3C18	<p>Operating Conditions</p> <p>The Proponent shall:</p> <p>(a) implement best management practice, including all reasonable and feasible measures to minimise the off-site odour, fume and dust emissions from the project;</p>	Low Risk NC	<ul style="list-style-type: none"> • Water truck usage including some records of usage tracks. • Air quality results spreadsheet. 	No recommendation. See above and below conditions for recommendations.																							

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>(b) regularly assess the predictive meteorological forecasting data and real-time air quality monitoring data to guide the day-to-day planning of mining operations and implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this approval;</p> <p>(c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 5-7);</p> <p>(d) monitor and report on compliance with the relevant air quality conditions in this approval; and</p> <p>(e) take all practical measures to minimise dust emissions from the residue storage facility to the satisfaction of the Secretary.</p>		<ul style="list-style-type: none"> • The monthly TEOM reports provide a high level review of exceedances and qualitatively determine potential emission sources during each exceedance event. While this information is useful, this report is prepared at the end of each month, by which time the opportunity to implement additional mitigation measures (if required) has passed. No evidence of changes to operations during high particulate concentration events was provided to the audit team. Moreover, no evidence was provided that exceedances of the relevant criteria and/or trigger levels were investigated as they occurred. • No evidence provided that the facility implemented mitigation measures during the 2018,2019 and 2020 to minimise the air quality impacts of the project during extraordinary events. As mentioned under Schedule 3 Condition 17 above. It is noted that the monthly TEOM reports in some cases (e.g. January 2020), state that the Tomingley mine may have contributed to the high particulate levels during extraordinary event days. However, from the information provided it is not clear if quantification of potential contribution has been performed and if any actions were taken to reduce potential for PM emissions. It is noted there was some evidence provided of text messages being on the Environmental Officers phone for dust triggers, but no specific records of how the site has reacted to each trigger. • No evidence provided that the facility reviewed operations upon exceedance of the pre-determined PM10 concentrations outlined in the AQMP (Trigger Level 1 and Trigger Level 2).The site should be keeping records of when the site has triggered a real time data air quality trigger and proposed actions which are required to be implemented under Section 8.2 in the AQGHGMP. The site is <u>non - compliant</u> for not fully implementing the real time dust monitoring system and responding to dust triggers. • Little information was provided to the IEA team regarding planning for adverse weather requirements (Section 8.1 of the AQGHGMP). <p>See recommendations in other air quality conditions.</p>	

Cond No.	Condition	Compliance Status	Evidence	Recommendations
S3C19	<p>Air Quality and Greenhouse Gas Management Plan</p> <p>The Proponent shall prepare and implement an Air Quality and Greenhouse Gas Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with the EPA and Council, and be submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise;</p> <p>(b) describe the measures that would be implemented to ensure compliance with conditions 15-18 of this schedule, including a trigger action response plan based on air complaints, air quality and visual monitoring and meteorological forecasting and monitoring;</p> <p>(c) include a program for the implementation of the measures referred to in (b) above;</p> <p>(d) include an air quality monitoring program that</p> <p>(i) uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project;</p> <p>(ii) adequately supports the proactive and reactive air quality management system on site; and</p> <p>(iii) includes a protocol for determining exceedances of the relevant conditions of this approval; and</p> <p>(e) describe the measures that would be implemented to minimise the release of greenhouse gas emissions from the site.</p>	Low Risk NC	<p><u>Preparation:</u></p> <p>Note, the document does not have a cross-referencing table.</p> <p>a) Section 3.2 Consultation.</p> <p>b) Section 6 Management Measures. Table 4 Air Quality Control Measures During Mining Operations. Section 7.4 Monitoring Procedures. Section 8 Air Quality Response Plan. Appendix 2 TGO Site Specific Procedure for Dust Control - Section 6 Operation Control Measures.</p> <p>c) Table 4 Air Quality Control Measures During Mining Operations. Section 8 Air Quality Response Plan, in particular Section 8.3 Table 7 Dust Emissions - Triggers and Corrective Measures.</p> <p>d)</p> <p>i. Evidence of real time system..</p> <p>ii. Section 8.1 Planning for Adverse Weather. Section 8.2 Real Time Dust Management. Appendix 2 TGO Site Specific Procedure for Dust Control - Section 8 Reactive Triggers.</p> <p>iii. Section 2 Background (EA values and Impact Assessment Criteria). Section 8.2 Proactive Management Real Time Dust Management.</p> <p>e) Section 6.3.3 Minimisation. Section 7.5 Greenhouse Gas Data Collection.</p> <p><u>Implementation:</u></p> <ul style="list-style-type: none"> Evidence of monitoring. As per comments in above condition about use of real time monitoring and planning for adverse weather events. The site is <u>non-compliant</u> for not fully implementing the real time dust monitoring system and responding to dust triggers. 	<p>NC REC 7: It is recommended that a procedure for review and validation of ambient air quality data be adopted. This would be of use when there are differing ratios between TSP and PM10.</p> <p>NC REC 8: It is recommended that a formal procedure for investigating any exceedances of ambient air quality criteria, which includes quantitative estimation of the sites contribution to any exceedances be adopted.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations						
			<ul style="list-style-type: none"> • Air quality mitigation measures such as water trucks. Dust from crusher was being contained close to the area. No dust issues observed in the field. • As per the Approved Methods, referenced within the Air Quality Management Plan, "Analyses should be carried out by a laboratory accredited to perform them by an independent accreditation body acceptable to the EPA, such as the National Association of Testing Authorities (NATA)", from the information provided, it is not clear if the TEOM sampling/real-time analysis has been completed by a NATA laboratory. Within the monthly TEOM reports issued by CBased Environmental, it is noted that "All laboratory analysis was conducted by a National Association of Testing Authorities (NATA) accredited laboratory.", however, no evidence is provided within these reports. • Further to the above points, while the analysis of HVAS results has been completed by a NATA accredited laboratory, it is unclear from the information provided if the sampling has been completed by an entity NATA accredited for the sampling component of the work. A review of the PM10 and TSP data (which are located, as per Figure 3 of the AQMP) shows discrepancies between the data collected by the HVAS and TEOM. On 6% of the occasions, TSP concentrations recorded are less than that of PM10. The recorded TSP concentrations are less than half of the recorded PM10 concentration for 2% of the time from 2018 to 2021. These results are unusual and there appears to be some errors. 							
S3 C27 27A and B	<p>Water Performance Measures</p> <p>The Proponent shall comply with the performance measures in Table 8 to the satisfaction of the Secretary.</p> <p><i>Table 8: Water management performance measures</i></p> <table border="1"> <thead> <tr> <th>Feature</th> <th>Performance Measure</th> </tr> </thead> <tbody> <tr> <td>Water management – General</td> <td>Minimise the use of clean water on site Minimise the need for make-up water from external potable water supplies</td> </tr> <tr> <td>Construction and operation of infrastructure</td> <td>Design, install and maintain erosion and sediment controls generally in accordance with the series <i>Managing Urban Stormwater: Soils and Construction</i> including <i>Volume 1, Volume 2A – Installation of Services</i> and <i>Volume 2C – Unsealed Roads</i></td> </tr> </tbody> </table>	Feature	Performance Measure	Water management – General	Minimise the use of clean water on site Minimise the need for make-up water from external potable water supplies	Construction and operation of infrastructure	Design, install and maintain erosion and sediment controls generally in accordance with the series <i>Managing Urban Stormwater: Soils and Construction</i> including <i>Volume 1, Volume 2A – Installation of Services</i> and <i>Volume 2C – Unsealed Roads</i>	Low Risk NC	<p>Evidence of water management controls including clean and dirty water. There were minimal erosion and sediment control issues identified. Some minor issues outlined in conditions below.</p> <p>Section 3 of the Surface Water Management Plan includes information about design of water structures. Dams appear to be designed as per Blue Book requirements based on GHD's wording in the Water Management Plan.</p> <p>Based on the information provided and site discussions there were no dirty water discharges during the audit period.</p>	<p>NC REC 9: Water Performance Measures in Schedule 3 Condition 27 should be included in the Water Management Plan.</p>
Feature	Performance Measure									
Water management – General	Minimise the use of clean water on site Minimise the need for make-up water from external potable water supplies									
Construction and operation of infrastructure	Design, install and maintain erosion and sediment controls generally in accordance with the series <i>Managing Urban Stormwater: Soils and Construction</i> including <i>Volume 1, Volume 2A – Installation of Services</i> and <i>Volume 2C – Unsealed Roads</i>									

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>Design, install and maintain the infrastructure within 40 m of watercourses generally in accordance with the:</p> <ul style="list-style-type: none"> Guidelines for Controlled Activities on Waterfront Land (DPI 2007), or its latest version Guidelines for fish habitat conservation and management – Chapter 4 (DPI 2013), or its latest version. <p>Clean water diversion & storage infrastructure Design, install and maintain the clean water system to capture and convey the 100 year average recurrence interval (ARI) flood Maximise as far as reasonable and feasible the diversion of clean water around disturbed areas on site</p> <p>Sediment dams Design, install and maintain the dams generally in accordance with the series Managing Urban Stormwater: Soils and Construction – Volume 1 and Volume 2E Mines and Quarries Ensure the capacity of all sediment dams is sufficient to contain rainfall up to a 10 day 90 percentile rain event</p> <p>Mine water management system, including residue storage facility and associated collection pond <ul style="list-style-type: none"> No unlicensed or uncontrolled discharge of mine water off-site (except in accordance with condition 23) Ensure that the capacity of the residue storage facility and associated collection pond is designed to meet the requirements of the Environmental Guidelines – Management of Tailing Storage Facilities (Vic DPI, 2004), or its latest version, and that the floor and walls are lined to achieve a permeability standard of at least 1 x 10⁻⁹ m/s, unless otherwise agreed by the EPA and the Secretary Maintain adequate freeboard (i.e. minimum 500 mm) in the residue storage facility at all times All water storages on site that receive chemical or salt laden water, including the dewatering ponds, raw water dams and process water dams are lined to achieve a permeability standard of at least 1 x 10⁻⁹ m/s, unless otherwise agreed by the EPA and the Secretary Maintain adequate freeboard (i.e. minimum 200 mm) in the process water and raw water dams at all times </p> <p>Chemical and hydrocarbon storage Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standards</p> <p>Guindong Creek Maintain or improve baseline channel stability Develop site-specific water quality trigger levels in accordance with ANZECC 2000 and Using the ANZECC Guidelines and Water Quality Objectives in NSW procedures (DECC 2006), or its latest version</p>		<p>The Annual Biodiversity and Rehabilitation Monitoring Reports includes details on channel stability monitoring.</p> <p>Non - compliant relating to Chemical and hydrocarbon storage. Older bulky bins which contaminated chemicals or hydraulic oil remain onsite in unbunded areas. It is noted that any leakage would be contained within the dirty water management system, however this is not best practice. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of any significant hydrocarbon contamination at site at the time of the audit inspection. See later conditions about recommendations for bulky bin management.</p>	
S3 C32	<p>Water Management Plan</p> <p>The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Secretary. This plan must be prepared in consultation with the EPA, DPIE Water and Dams Safety NSW by a suitably qualified and experienced person(s) whose appointment has been approved by the Secretary and submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise.</p> <p>In addition to the standard requirements for management plans (see Condition 3 of Schedule 5), this plan must include:</p>	Admin NC	<p>We understand the most recently approved Water Management Plan is dated November 2017. One other version was sent to DPIE during the IEA period (in March 2020), but they are not approved. We have reviewed the 2017 document.</p> <p><u>Preparation:</u> Document does reference parts of the WMP which fulfil conditions.</p> <p>a) i. Section 3 Water Balance. Appendix E Site Water Balance.</p>	<p>NC REC 10: Complete all monitoring and inspections as per the requirement of approved Water Management Plan. This needs to occur until the revised Water Management Plan is approved.</p> <p>NC REC 11: Ensure triggers relating to surface water and groundwater are implemented and actions recorded by TGO.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>(a) a Site Water Balance that:</p> <p>(i) includes details of:</p> <ul style="list-style-type: none"> • sources and security of water supply; • water use on site; • water management on site; • off-site water discharges, including volume, timing and release point infrastructure requirements; • reporting procedures, including comparisons of the site water balance for each calendar year; and <p>(ii) describe what measures would be implemented to minimise potable water use on site;</p>		<p>Table 2.1 Water management features (sources of water supply). Table 3.6 Operational Rules (water management on site). Section 3.7 Licensed Discharge Points, Figure 3.3 Licensed discharge points, & Section 5.6 Off-site discharge (off-site water discharge). Section 5.3 Average annual water balance & Table 5.1 Average annual water balance for TGO (modelling security of water supply and comparisons of site water balance each calendar year).</p> <p>ii. Some brief details of potable le water and use of water onsite. Generally covers requirements.</p> <p><u>Implementation:</u></p> <ul style="list-style-type: none"> • Many monitoring commitments relate to discharge. No discharge occurred (based on information provided). • Evidence was not provided by the site outlining when 10mm of rainfall was recorded. Section 4.2 of the Water Management Plan requires testing of a series of sediment dams following rainfall exceeding 10 mm in 24 hours. Based on site discussions the surface water monitoring of dams have been pushed out to 25mm (in draft plan), not the 10mm requirement in the currently approved plan. This makes this condition <u>non - compliant</u>. • Section 5.4 of the Water Management Plan commits to 'An evaluation of any trends in the monitoring results occurring across the site over the life of the Project'. This is not completed in much detail in the Annual Review, especially for surface water and groundwater monitoring results. This makes this condition <u>non - compliant</u>. There are some details regarding groundwater results (minimal analysis) in Section 7.6 and Appendix 6 of the 2020 Annual Review. There is however little information relating to surface water results and trends. • Section 8.1 and 8.2 of the Water Management Plan outlines surface water and groundwater management TARP's. Implementation of TARP's are not documented including inspections (pre and post rainfall). This makes this condition <u>non - compliant</u>. 	<p><i>Also see Improvement recommendations – Section 7.</i></p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
			<ul style="list-style-type: none"> Based on results provided there has been no evidence of surface water triggers being exceeded. Evidence of groundwater results in the Annual Review. Limited information on groundwater quality. 	
S3 C32A	<p>(b) a Surface Water Management Plan that includes:</p> <p>(i) detailed baseline data on surface water flows and quality in creeks and other waterbodies that could be affected by the project (including Gundong Creek);</p> <p>(ii) a detailed description of the water management system on site, including:</p> <ul style="list-style-type: none"> clean water diversion systems, including the clean water and dirty water separation levee; an erosion and sediment control plan, consistent with the requirements of the Managing Urban Stormwater: Soils and Construction Manual (Landcom 2004, or its latest version); and water storages; <p>(iii) detailed plans, including design objectives and performance criteria, for:</p> <ul style="list-style-type: none"> design and management of the final voids; design and management of water storages including the residue storage facility and process water dams, including demonstrating how the decant water pond within the RSF would be maintained to ensure adequate freeboard for containment of the design rainfall events; and control of any potential water pollution from the rehabilitated areas of the site; <p>(iv) a program to monitor:</p> <ul style="list-style-type: none"> the effectiveness of the water management system; potential leakage or spillage from on-site pipelines surface water flows and quality, stream health and channel stability in Gundong Creek (in so far as it could potentially be affected by the project); 	Admin NC	<p><u>Preparation</u></p> <p>Surface Water Management Plan is Appendix C to the Water Management Plan and is dated November 2017.</p> <p>b)</p> <ol style="list-style-type: none"> Section 2.2 and Table 5.3 Water quality monitoring results - clean water system to November 2016 (baseline data). Section 3 Water Management System. Section 4 Erosion and Sediment Control, Section 4.4 Controls and Constraints (erosion and sediment control plan). Table 3.1 Water storages (water storage). Section 3.1 Clean Water (clean water diversion system). No design and management for final void in the Surface Water Management Plan. No demonstration of how decant water within the RSF would be maintained to ensure adequate freeboard for containment of the design rainfall event. Section 6.2 Water quality limits (control of potential water pollution). This makes the preparation side of this condition <u>non - compliant</u>. Section 5 Monitoring. Section 5.2 Surface water monitoring. Table 5.1 Surface water monitoring program. Table 5.4 Pollution Concentration Limits. Section 4.4 Controls and Constraints. Section 6 Risks and potential impacts. Section 5.2 Surface Water Monitoring. <p><u>Implementation - Records:</u></p> <p>Evidence was not provided by the site outlining when 10mm of rainfall was recorded. Section 4.2 of the Water Management Plan requires testing of a series of sediment dams following rainfall</p>	<p>NC REC 12: Ensure there is information on the design and management for final void in the Surface Water Management Plan to cover Part iii of Schedule 3 Condition 32A.</p> <p>NC REC 13: Implement recommendations from the 2020 TGO Biodiversity and Rehabilitation Monitoring Report in regards to erosion/biodiversity management along Gundong Creek.</p> <p>NC REC 14: Include surface water monitoring results for SW1 and 2 (creek monitoring locations) in the Annual Review as there is currently little information in the Annual Review regarding surface water management.</p> <p><i>Also see Improvement recommendations – Section 7.</i></p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>(v) a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; and</p> <p>(vi) reporting procedures for the results of the monitoring program; and</p>		<p>exceeding 10 mm in 24 hours. Based on site discussions the surface water monitoring of dams have been pushed out to 25mm (in draft plan), not the 10mm requirement in the currently approved plan. This make implementation <u>non - compliant</u>.</p> <p>No evidence of surface water triggers being required (Section 5.2 of Surface Water Management Plan) as these relate to discharge event which did not occur.</p> <p>Data for surface water was provided through a series of monthly reports and spreadsheets, making it difficult to determine if monitoring requirements were fully completed over the IEA period. The selection of results that were reviewed included monitoring parameters as per the Water Management Plan. See earlier recommendation in Schedule 3 Condition 17 about recording data in consolidated spreadsheets. Some other general notes:</p> <ul style="list-style-type: none"> • Based on the information provided no surface water TARP has been triggered. • No surface water discharges. • Surface water monitoring results. Including SW1 and 2 when in flow. Upstream and downstream monitoring of Gundong Creek. Note, results are not provided in the Annual Review. • Annual Review outlines two areas of riparian woodland revegetation along Gundong Creek (Creek sites).It stated that: <p>In 2018 and 2019, Gundong Creek has only been subjected to a few flows and was dry at the time of monitoring, but this year (2020) heavy flows had recently been experienced, which caused addition instream erosion and undercutting and/or slumping of the steep sided banks.</p> <p><u>Implementation Field Evidence:</u></p>	

Cond No.	Condition	Compliance Status	Evidence	Recommendations
			<p>Field evidence suggested no major water management issues. This is excellent considering the long dry period, followed by heavy rains in 2020 and 2021. Some areas of minor erosion noted in the field, however this was generally contained within the dirty water catchment (makes this compliant.)</p> <p>The area at the base of the rock structure (WRE3) that runs into DS4 has eroded. See improvement recommendation (note this is not a non - compliance).</p> <p>Evidence of defined clean and dirty water management system.</p>	
S3 C32B	<p>(c) a Groundwater Management Plan, that includes:</p> <p>(i) detailed baseline data on groundwater levels, yield and quality in the region, and privately- owned groundwater bores, that could be affected by the project;</p> <p>(ii) groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts;</p> <p>(iii) a program to monitor:</p> <ul style="list-style-type: none"> • groundwater inflows to the open cut and underground mining operations; • the impacts of the project on: • alluvial aquifers; and • any groundwater bores on privately-owned land that could be affected by the project; • the seepage/leachate from the residue storage facility, water storages, backfilled voids and the final void; and • the quality of groundwater to be re-used on the site; <p>(iv) a program for the on-going verification and refinement of the groundwater model, including the review and incorporation of additional baseline data obtained in accordance with condition 31, within 12 months of the project approval; and</p> <p>(v) a plan to respond to any exceedances of the groundwater assessment criteria; and</p>	Admin NC	<p><u>Preparation</u></p> <p>Groundwater Management Plan is appendix D to the Water Management Plan and is dated November 2017.</p> <p>c) Generally in accordance with the condition. Little information about saline drainage and acid rock strategy. However as plan has been approved by DPIE, the audit team has called this condition compliant.</p> <p>i. Section 2.3 Hydrogeology, Figure 2.4 NSW groundwater bore search, and Section 3.1 Groundwater monitoring network (baseline data).</p> <p>ii. Section 3.3 Groundwater trigger values. Section 4 Potential risks.</p> <p>iii. Section 3.2 Monitoring. Table 3.5 Groundwater monitoring parameters and frequency. Section 4 Potential risks. Section 4.4 Final Void Management. Appendix D Groundwater quality plots. Appendix B Piper Diagram (groundwater inflows to open cut).</p> <p>iv. See Appendix E Section 5 for water balance and groundwater model. Evidence of new model in audit period.</p> <p>v. Section 3.3 Groundwater trigger values.</p> <p>vi. No saline drainage and acid rock drainage strategy mentioned in the whole Water Management Plan. No mention of geochemical testing.</p>	<p>NC REC 15: Information relating to geochemical testing should be included in the Water Management Plan.</p> <p>An acid rock and saline drainage strategy should be included in the Water Management Plan. This should be based on a trigger. Section 8.2 (Groundwater Trigger TARP) within the Water Management Plan could be updated.</p> <p>NC REC 16: Ensure groundwater monitoring data is in the format of that is the same as the trigger levels within the Groundwater Management Plan</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>(vi) should geochemical testing reveal a higher risk of acid rock or saline drainage, the Proponent shall prepare an acid mine drainage strategy in consultation with DPIE Water and to the satisfaction of the Secretary.</p>		<p><u>Implementation</u></p> <ul style="list-style-type: none"> • Evidence of groundwater monitoring for parameters. This is included in the Annual Review. • The increase in cyanide level in PWMP2 bore was self reported on 18 July 2019. See Schedule 2 Condition 1 for further details. • The reporting occurred due to sustained increase in cyanide levels at the PWMP2 bore. From our understanding PWMP2 bore is an internal bore and does not have groundwater trigger values in the approved Groundwater Management Plan. <p>It is noted that Section 3.3.1 of the Groundwater Management Plan has triggers for depth, but none specifically for groundwater values except for GDCMB01 (EPA 5).</p> <p><u>It is noted that the groundwater results are presented in a different format (sample depth metres) compared to the Groundwater Triggers within the Groundwater Management Plan Level (m AHD). As these formats were different it was not possible for the site to compare whether groundwater triggers have been reached. Therefore non-compliant.</u></p> <p>See Schedule 2 Condition1 for information relating to the PWMP2 issue.</p> <p>There have been a series of reports by GHD investigating the cause and impacts of the increased cyanide levels. The June 2020 Report stated:</p> <p>Previous investigations (GHD 2015) identified elevated cyanide concentrations at monitoring bore PWMP02 in early 2015. The contamination was considered at the time to be likely to be associated with issues of containment of surface water at the rear of the ball mill. However the findings of GHD (2019) indicated the contamination at PWMP02 is from the process water system.</p>	

Cond No.	Condition	Compliance Status	Evidence	Recommendations																					
			Overall, elevated cyanide concentrations appear to be limited to the shallow groundwater around PWMP02.																						
S3 C33	<p>Biodiversity Offset</p> <p>The Proponent shall implement the offset strategy outlined in Table 9, and shown in Appendix 5, to the satisfaction of the Secretary.</p> <p><i>Table 9: Biodiversity Offset</i></p> <table border="1"> <thead> <tr> <th>Community Type</th> <th>Offset Area to be Conserved (ha)</th> <th>Remnant Extension (Protection and Ameliorative Planting) (ha)</th> </tr> </thead> <tbody> <tr> <td>Inland Grey Box – Poplar Box – White Cypress Pine tall woodland on red loams (Benson 76)</td> <td>21.1</td> <td>21.5</td> </tr> <tr> <td>River Red Gum riverine woodland forest (Benson 78)</td> <td>13.1</td> <td>13.5</td> </tr> <tr> <td>Fuzzy Box – Inland Grey Box on alluvial brown loam soils (Benson 201)</td> <td>5.0</td> <td>26.0</td> </tr> <tr> <td>Poplar Box – Belah woodland on clay alluvial plains (Benson 56)</td> <td>1.9</td> <td>0</td> </tr> <tr> <td>Belah/ Black Oak Western Rosewood, Wilga Community (Benson 57)</td> <td>25.5</td> <td>0</td> </tr> <tr> <td>TOTAL</td> <td>66.6</td> <td>61.0</td> </tr> </tbody> </table>	Community Type	Offset Area to be Conserved (ha)	Remnant Extension (Protection and Ameliorative Planting) (ha)	Inland Grey Box – Poplar Box – White Cypress Pine tall woodland on red loams (Benson 76)	21.1	21.5	River Red Gum riverine woodland forest (Benson 78)	13.1	13.5	Fuzzy Box – Inland Grey Box on alluvial brown loam soils (Benson 201)	5.0	26.0	Poplar Box – Belah woodland on clay alluvial plains (Benson 56)	1.9	0	Belah/ Black Oak Western Rosewood, Wilga Community (Benson 57)	25.5	0	TOTAL	66.6	61.0	Admin NC	<p>Appendix 5 to the 2020 Annual Review (Fauna Monitoring Report - dated December 2019) states that TGO has 127Ha of biodiversity offset areas (BOA) in place, with these areas secured under a Property Vegetation Management Plan (PVP).</p> <p>Evidence of PVP dated 31 May 2015. However because the DPIE are yet to approve the PVP, this is a <u>non - compliance</u>. In the Audit Action Plan within the 2020 Annual Review it stated that TGO has contacted the DPIE seeking written approval of the PVP.</p> <p>Status covered in the Biodiversity Monitoring and Rehabilitation Report. Note the audit team did not visit these areas, hence we are relying on the Biodiversity and Rehabilitation Reports for compliance.</p>	<p>NC REC 17: Liaison with DPIE to obtain approval for the PVP.</p>
Community Type	Offset Area to be Conserved (ha)	Remnant Extension (Protection and Ameliorative Planting) (ha)																							
Inland Grey Box – Poplar Box – White Cypress Pine tall woodland on red loams (Benson 76)	21.1	21.5																							
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S3 C39	<p>Heritage Management Plan</p> <p>The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared by a suitably qualified and experienced person(s) whose appointment has been endorsed by the Secretary;</p> <p>(b) be prepared in consultation with BCD and the Aboriginal stakeholders (in relation to the management of Aboriginal heritage values);</p> <p>(c) be submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise;</p> <p>(d) include the following for the management of Aboriginal heritage:</p> <p>(i) a description of the measures that would be implemented for:</p> <ul style="list-style-type: none"> protecting, monitoring and/ or managing heritage items on site; implementing proposed archaeological investigations and/ or salvage measures for heritage items on site; managing the discovery of any human remains or previously unidentified Aboriginal objects on site; 	Admin NC	<p><u>Preparation:</u></p> <p>Plan is currently dated September 2016 and not updated after the last IEA.</p> <p>a) Section 3.1 Legislative Framework and Appendix 2 Consultation with NSW OEH and Endorsement by the Director General.</p> <p>b) Section 3.2 Aboriginal Stakeholder Consultation. Section 5 Community Consultation.</p> <p>c) NT, but completed prior to the period.</p> <p>d)</p> <p>i. Section 7 Management of the Aboriginal Heritage Items and Section 8 Management of Non-Aboriginal Heritage Items. Section 10 Monitoring. Section 7.3.3 General Management Measures / Unidentified Finds Protocol. Section 5.3 Access to Heritage Items. Section 5 Community Consultation. Section 16 Competence Training and Awareness.</p>	<p>NC REC 18: Ensure the Heritage Management Plan is revised to include a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term. Implementation of strategy and reporting in the Annual Review.</p> <p>NC REC 19: The next review of the ACHMP should update the status of 'proposed controls' as many of these have been completed. Eg. Fencing, signage.</p>																					

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<ul style="list-style-type: none"> maintaining and managing reasonable access for Aboriginal stakeholders to heritage items on site; on-going consultation with the Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage on site; and ensuring workers on-site receive suitable heritage inductions prior to carrying out works on the site, and that suitable records are kept of these inductions; (ii) a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term;		ii. Section 7 Management of Aboriginal Heritage Items. e) i. Section 10 Monitoring. Section 7.3.3 General Management Measures / Unidentified Finds Protocol. Section 16 Competence Training and Awareness. ii. Section 7 Management of Aboriginal Heritage Items. However there is no mention of longterm storage and management. This makes this condition <u>non - compliant</u> . Note this was also picked up in the previous Pitt and Sherry IEA report with the recommendation of "It is recommended that the Heritage Management Plan is revised to include a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term". <u>Implementation:</u> <ul style="list-style-type: none"> No clearing. Ongoing management of scar trees. Areas are signed and some are fenced where required. No additional consultation required. Register of heritage items and management. 	
S3 C43	Operating Conditions The Proponent shall ensure that heavy vehicle movements associated with mining operations do not exceed 8 per day (4 in and 4 out), when measured as a daily average over any calendar month.	Admin NC	Information was not provided to ensure compliance with this condition. Records of vehicles entering and exiting the site is provided but it is not separated by heavy vehicle vs other vehicles. Therefore <u>non - compliant</u> .	NC REC 20: Ensure a log is kept for heavy vehicles to ensure compliance with Schedule 3 Condition 43. We recommend recording this information in a spreadsheet for easy tracking and assessment.
S3 C44	Traffic Management Plan The Proponent shall prepare and implement a Traffic Management Plan to the satisfaction of the Secretary. The plan shall: (a) focus on traffic management along Tomingley West Road and through the village of Tomingley to minimise the potential for conflicts between project-related traffic and other road users;	Admin NC	<u>Preparation:</u> Most recent approved management plan is dated September 2016. a) Section 4 Management Measures, sections 4.1-4.4 in particular. b) Section 4 Management Measures, sections 4.1-4.4 in particular.	As per S3 C43 recommendation.

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>(b) describe the measures to be implemented to ensure the effective operation of the intersections between the project site and the Newell Highway, including the site access road and Tomingley West Road intersection and the Tomingley-Narromine Road and Newell Highway intersection; and</p> <p>(c) be developed in consultation with Council and TfNSW, and must be submitted for the approval of the Secretary prior to the commencement of construction.</p>		<p>c) Section 1.5 Consultation.</p> <p><u>Implementation:</u></p> <ul style="list-style-type: none"> • This is a fairly simple plan and generally covers the requirements. However there is no easy way to determine truck volume recording under Schedule 3 Condition 44. Section 4 of the Traffic Management Plan commits to the Project Approval requirement of "TGO will ensure that heavy vehicle movements associated with mining operations do not exceed 8 per day (4 in and 4 out) when measured as a daily average over any calendar month". <u>Non - compliance</u> for recording. • No specific mention of traffic counts. • There is no evidence of exceeding truck count numbers, but the lack of easy recording makes this condition <u>non - compliant</u>. 	
S3 C49	<p>Waste</p> <p>The Proponent shall:</p> <p>(a) minimise the waste generated by the project;</p> <p>(b) ensure that the waste generated by the project is appropriately stored, handled and disposed of; and</p> <p>(c) manage on-site sewage treatment disposal in accordance with the requirements of Council, to the satisfaction of the Secretary</p>	Low Risk NC	<p>a) Waste appears to be minimised.</p> <p>b) Storage of hydrocarbons is an issue and outlined in 'Areas of Improvement' heading.</p> <p>c) Approved by Council. Aerated treatment system.</p> <p>Field evidence of waste management. Evidence of waste receipts. No information about waste management in the Annual Review.</p> <p>Areas of good management included:</p> <ul style="list-style-type: none"> • Use of bins for waste; • Site labelling; and • Spill kits. <p>Areas of improvements included:</p>	<p>NC REC 21: Remove the older bulky bins at site that contain hydrocarbons.</p> <p>NC REC 22: Where it is required that bulky bins are to remain onsite for a period of time they should be installed in an earthen bund. This bund will need to be constructed. It is noted the bund would be within the sites dirty water catchment.</p> <p>NC REC 23: Details on waste management are to be included in the Annual Review.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
			<ul style="list-style-type: none"> Older bulky bins which contaminated chemicals or hydraulic oil remain onsite in unbunded areas. It is noted that any leakage would be contained within the dirty water management system. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of hydrocarbon contamination at site. The site is <u>non - compliant</u> with implementing part b) of this condition (ensure that the waste generated by the project is appropriately stored, handled and disposed of). 	
S5 C1	<p>Environmental Management Strategy</p> <p>1. The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:</p> <p>(a) be submitted for approval to the Secretary prior to construction;</p> <p>(b) provide the strategic framework for the environmental management of the project;</p> <p>(c) identify the statutory approvals that apply to the project;</p> <p>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</p> <p>(e) describe the procedures that would be implemented to:</p> <p>(i) keep the local community and relevant agencies informed about the operation and environmental performance of the project;</p> <p>(ii) receive, handle, respond to, and record complaints;</p> <p>(iii) resolve any disputes that may arise during the course of the project;</p> <p>(iv) respond to any non-compliance;</p> <p>(v) respond to emergencies; and</p> <p>(f) include:</p> <p>(i) copies of any strategies, plans and programs approved under the conditions of this approval; and</p> <p>(ii) a clear plan depicting all the monitoring required to be carried out under the conditions of this approval.</p>	Admin NC	<p>Preparation:</p> <p>EMS document dated December 2017. Note, no cross referencing table in the EMS.</p> <p>a) older condition. Covered in prior audit. It is noted that an approval latter was dated 29 October 2012</p> <p>b) All sections</p> <p>c) Section 5</p> <p>d) Section 15</p> <p>e) Parts i to iv are included. There is no information regarding emergency response (part v). This was picked up in the previous audit, but the EMS has not been updated. Therefore <u>non - compliant</u>.</p> <p>f) Relevant EMPs are listed. Section 6 outlines monitoring.</p> <p>Implementation:</p> <ul style="list-style-type: none"> Evidence of incident investigation No complaints. Sighted induction video. 	<p>The recommendation from the previous Audit is still required.</p> <p>NC REC 24: It is recommended that the EMS is revised to include a section on 'Emergency Response' procedures or reference the Emergency Management Plan and where to locate it.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
S5 C2	<p>Adaptive Management</p> <p>The Proponent shall assess and manage project-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 approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Proponent shall, at the earliest opportunity:</p> <p>(a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;</p> <p>(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</p> <p>(c) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.</p>	Admin NC	<p>There have been dust exceedances of short term criteria which were outlined in earlier conditions. Some generic details are included in Annual Reviews of extraordinary dust events. No evidence of assessment of dust investigations for all elevated dust levels above short term criteria. Noting evidence was provide for one month being 'Internal Environmental Dust Investigation for September and October 2019' - dated 19/11/2019.</p>	<p>NC REC 25: The site should keep improved internal records of short term PM10 exceedances. If any investigation determines a non - compliance with criteria then this should be reported to DPIE.</p>
S5 C3	<p>Management Plan Requirements</p> <p>The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <p>(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);</p> <p>(ii) any relevant limits or performance measures/criteria;</p> <p>(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;</p>	Admin NC	<p>Most of management plans cover these requirements. It is noted that management plans do not include cross referencing tables.</p> <p>Most management plans contain little information relating to baseline information. Management plans do contain some information about contingency response but the format and level of actions differ between plans. Therefore this condition has been classified as <u>non - compliant</u>.</p>	<p>NC REC 26: All Management Plans should include cross referencing tables outlining where the key statutory conditions have been covered. This relates to specific management plan conditions as well as the 'All Management Plan conditions'.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(d) program to monitor and report on the:</p> <p>(i) impacts and environmental performance of the project;</p> <p>(ii) effectiveness of any management measures (see c above);</p> <p>(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;</p> <p>(f) a protocol for managing and reporting any:</p> <p>(i) incidents;</p> <p>(ii) complaints;</p> <p>(iii) non-compliances with statutory requirements; and</p> <p>(iv) exceedances of the impact assessment criteria and/or performance criteria; and</p> <p>(g) a protocol for periodic review of the plan.</p> <p>Note: The Secretary may waive some of these requirements if they are unnecessary for particular management plans.</p>			<p>NC REC 27: All management plans should cover the requirements of Schedule 5 Condition 3. This includes baseline information and contingency measures. Contingency measures should generally be a consistent layout between plans and include a Trigger Action Response Plan in a traffic light system eg. green, amber and red triggers and subsequent responses.</p>
S5 C5	<p>"Revision of Strategies, Plans and Programs</p> <p>5. Within three months of:</p> <p>(a) the submission of an annual review under condition 4 above;</p> <p>(b) the submission of a non-compliance or incident notification under conditions 7 or 7A below;</p> <p>(c) the submission of an audit under condition 8 below; or</p> <p>(d) any modification to the conditions of this approval (unless the conditions require otherwise),</p> <p>the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.</p>	Admin NC	<p>Some management plans required updating following the 2018 IEA.</p> <p>Also some management plans have not been updated since MOD 2.</p> <p>The only management plan submitted to DPIE during the IEA period was the Biodiversity Management Plan (March 2021). The Water Management Plan has been reviewed and updated, but not yet submitted. It will be submitted as part of the management plans for MOD 5.</p> <p>The 2018 IEA had recommendations relating to updating the following management plans:</p> <ul style="list-style-type: none"> • Noise Management Plan - include consultation in future plan; • Water Management Plan - include consultation and details of design criteria for final voids. 	<p>NC REC 28: Ensure management plans are updated as per the requirements of Schedule 5 Condition 5. Management Plans should be updated if they are identified by the auditor and actions are included in TGO's Audit Action Plan.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
	<p>With the agreement of the Secretary, the Proponent may prepare any revised strategy, plan or program without undertaking consultation with all parties under the applicable conditions of this consent.</p> <p>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project."</p>		<ul style="list-style-type: none"> • Biodiversity Management Plan - detailed criteria (note this has now been included). Plus other recommendations. • Heritage Management Plan - to be revised to include a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term. • RMP - It is recommended that the MOP includes reference to the consultation that took place in considering the option to backfill the Caloma Two void. There still is not much information in the RMP regarding backfilling of Coloma Two void. <p>Also it was recommended from the previous auditor that under Schedule 5 Condition 3 - the relevant Management Plans such as the AQGHGMP, BLMP and NMP should be modified to include specific actions to manage any unpredicted impacts and their consequences (contingency measures).</p> <p>As some of these plans were not updated and resubmitted this audit period, this condition is <u>non - compliant</u>.</p>	
S5 C9	<p>Independent Environmental Audit</p> <p>Within 3 months of commencing an Independent Environmental Audit, or unless otherwise agreed by the Secretary, a copy of the audit report must be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations.</p> <p>The recommendations of the Independent Environmental Audit must be implemented to the satisfaction of the Secretary.</p>	Admin NC	<p>Previous audit report is dated 27 August 2018. The site visit occurred on 8 March 2018. No evidence of an extension to submission of audit report that was submitted to DPIE. Therefore <u>non - compliant</u> for three month timing of submission of audit report.</p>	No recommendation.
Environment Protection Licence (EPL)				

Cond No.	Condition	Compliance Status	Evidence	Recommendations
O1.1	<p>Licensed activities must be carried out in a competent manner.</p> <p>This includes:</p> <p>a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and</p> <p>b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.</p>	Admin NC	<p>Evidence of waste management and disposal.</p> <p>Older bulky bin which contaminated chemicals or hydraulic oil remain onsite in unbunded areas. It is noted that any leakage would be contained within the dirty water management system. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of hydrocarbon contamination at site.</p> <p><u>Non – compliant</u> for storage of materials and substances.</p>	As per S3 C49 (Project Approval) recommendations.
R2.1	<p>Notification of Environmental Harm</p> <p>Notifications must be made by telephoning the Environment Line service on 131 555.</p> <p>Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.</p>	Low Risk NC	<p>Incident - Cyanide Spill</p> <p>Evidence in Clean up notice that occurred via a hotline in 18 July 2019. It was based on an increase in the cyanide levels in the bore over an extended period since 2015.</p> <p>It is noted that this bore is not an EPL site and does not have a trigger value for notifications (EPL or Water Management Plan). Reporting should have occurred earlier than July 2019. However it is noted that there has been no material harm identified throughout the incident reports that have been provided to the Audit team. <u>Non - compliant</u> for not notifying earlier.</p> <p>Incident 2 and 3- Process Water Spill</p> <p>2 incidents of process water spills.</p> <p>Evidence of incident on 2 August 2019, with incident report supplied on 9 August 2019.</p> <p>Evidence of incident report on 18 October 2019, which is 5 days after the incident.</p>	<p>NC REC 29: Ensure incident notification occurs immediately if there have been incidents that cause or threaten material harm.</p>

Cond No.	Condition	Compliance Status	Evidence	Recommendations
			However there was no evidence was provided of notifications to the EPA hotline. The only evidence provided were the two incident reports which were sent to the EPA within 7 days (see condition below). <u>Non - compliance</u> as it was unknown at the time whether the spill would cause potential material harm.	
Statement of Commitments				
1.1	Environmental Management Comply with all commitments recorded in Table 5.1 (this table).	Admin NC	Not all commitments completed. Therefore non - compliant. No action. This is a very difficult condition to meet.	No recommendation.
4.4	Noise Implement procedures for response to real-time monitoring results.	Admin NC	<u>Non - compliant</u> as per Schedule 3 Condition 5 and 6. There are monthly reports completed by MAC which outlines the real time noise results. This summarises MAC's post analysis of noise events. However there is minimal evidence of real time assessment of noise triggers on site. Records should be kept for responding to triggers at the time of the trigger. It is noted that there are actions required for real time noise assessment in Section 5.3 of the Noise Management Plan. We have deemed the site <u>non - compliant</u> for implementing the real time noise monitoring system. Records need to kept for responding to all real time noise exceedances.	As per recommendation from Schedule 3 Condition 6.
5.4	Surface Water/Hydrocarbons Ensure that all fuel and reagent storage, delivery and handling areas are appropriately sealed and banded and that overflow pipes are installed in a manner that would minimise the potential for pollution in the event of overfilling.	Low Risk NC	Fuel storage areas banded as it's a self banded diesel tank. However spills can still occur during the process of refuelling, which does not occur within bands. No evidence of overflow pipes during inspection. Areas are not sealed and banded. <u>Non – compliant</u> . Note, Earth drain can handle leakages from refuelling with liquids to remain onsite if there are incidents.	NC REC 30: Complete a full review of the refuelling infrastructure and procedure to ensure that refuelling is completed within banded areas and there are appropriate controls to manage a spill.
5.5	Surface Water/Hydrocarbons Securely store all hydrocarbon and chemical products.	Low Risk NC	<u>This is non - compliant</u> . Older bulky bin which contaminated chemicals or hydraulic oil remain onsite in unbanded areas. It is noted that any leakage would be contained within the dirty water management system. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of hydrocarbon contamination at site.	

Cond No.	Condition	Compliance Status	Evidence	Recommendations
13.1	Traffic and Transportation Undertake all transport operations in accordance with an approved Traffic Management Plan (BMP).	Admin NC	No monitoring of heavy vehicles. There is no easy way to determine truck volume recording under Schedule 3 Condition 44. Section 4 of the Traffic Management Plan commits to the Project Approval requirement of "TGO will ensure that heavy vehicle movements associated with mining operations do not exceed 8 per day (4 in and 4 out) when measured as a daily average over any calendar month". <u>Non - compliance.</u>	As per Schedule 3 Condition 43.
13.2	Traffic and Transportation Enforce a Code of Conduct for all drivers for all heavy vehicles that travel to and from the Mine Site regularly. The Code of Conduct will stipulate safe driving practices must be maintained at all times.	Admin NC	No evidence of any code of conduct for heavy vehicles.	NC REC 31: <ul style="list-style-type: none"> • Including the Code of Conduct for all drivers of all heavy vehicles. • Attaching as appendix to the Traffic Management Plan • Complete training for drivers.
15.2	Waste Design and maintain storage areas to contain spillages.	Low Risk NC	Areas of good management included: <ul style="list-style-type: none"> • Use of bins for waste; • Site labelling; and • Spill kits. Areas of improvements included: <ul style="list-style-type: none"> • Older bulky bins which contaminated chemicals or hydraulic oil remain onsite in unbunded areas. It is noted that any leakage would be contained within the dirty water management system. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of hydrocarbon contamination at site however the site is <u>non - compliant</u> for storing hydrocarbons. 	As per S3 C49 (Project Approval) recommendations.
Mining Leases				
	No non – compliances identified.			
PVP				
	No non – compliances identified.			

7 ADDITIONAL RECOMMENDED ACTIONS

Additional recommendations relating to compliant conditions (or not relating to a non – compliance) are outlined within **Table 10**.

Table 10 Additional Recommendations

Aspect	Condition Reference	Improvement REC Number	Recommendation
Groundwater Elevated Cyanide	S2 C1	IMP REC 1	Continue to implement actions from the EPA and the 'Groundwater Data Review' Reports.
Previous Audit Actions.	S2 C2	IMP REC 2	The 2020 Annual Review indicates there are still some ongoing actions from the previous IEA that should be followed up and closed out. These generally relate to administrative items.
Building Certificates	S2 C8	IMP REC 3	Records of building certificates from contractors should be kept at site.
Noise Management Plan	S3 C6	IMP REC 4	Update the Noise Management Plan to outline the monthly noise monitoring (currently says quarterly). This is consistent with what has been occurring at the site.
Blasting	S3 C7	IMP REC 5	Ensure the Annual Review blasting criteria is outlined as per Schedule 3 Condition 7 of the Project Approval. This includes outlining that only 5% of blasts can be over 115 dBA for overpressure and 5% of blasts can be over 5 mm/s for vibration.
		IMP REC 6	Blasting results should be included as an appendix to the Annual Review.
		IMP REC 7	The monthly EPL monitoring reports only include maximum vibration levels for blasting, not overpressure. Results should be consistent to allow comparison against relevant blasting criteria.
		IMP REC 8	The Blast Management Plan should be updated to include information about underground blasting (eg. timing, methods, criteria, monitoring and record keeping).
Meteorological Monitoring	S3 C20	IMP REC 9	It is recommended that system calibration and diagnostic checks be performed at six month intervals, or in accordance with manufacturer's recommendations, whichever is more frequent as required by AM-4.
Groundwater	S3 C32	IMP REC 10	Ensure groundwater quality is discussed in the Annual Reviews.
Water Management Plan		IMP REC 11	Recommend streamlining and consolidating the Water Management Plan and appendices. The sub plans are quite repetitive of the Water Management Plan main document and could be streamlined to allow for easier implementation.
Biodiversity Management Plan	S3 C37	IMP REC 12	Ensure the Biodiversity Management Plan includes a cross referencing table. Section 3 mentions the conditions of consent, but not where they are covered.
		IMP REC 13	Figures to be updated and made clear (currently blurry).
		IMP REC 14	Further information should be included about the salvage of resources within the approved disturbance area.
Biodiversity Monitoring		IMP REC 15	Ensure the Biodiversity and Rehabilitation Monitoring Report includes more defined recommendations. Currently recommendations are generally mixed in within general discussion points.

Aspect	Condition Reference	Improvement REC Number	Recommendation
Rehabilitation	S3 C51A	IMP REC 16	Liaise with the Resources Regulator about implementing the TAP for tailings and rehabilitation.
		IMP REC 17	Implement rehabilitation recommendations from the Biodiversity and Rehabilitation Monitoring Reports by DNA Environmental.
	S3 C53	IMP REC 18	It is recommended that the RMP includes reference to the consultation that took place in considering the option to backfill the Caloma Two void. There still is not much information in the current MOP regarding backfilling of Coloma Two void. This is to cover Schedule 2 Condition 53k.
		IMP REC 19	The DNA Environmental - TGO Biodiversity and Rehabilitation Monitoring Report need to have a more defined conclusion and recommendations section. Recommendations are mixed within this section and should be separated out and given specific recommendation ID numbers. The conclusion should also be separated into biodiversity areas and rehabilitation areas as they are managed differently.
		IMP REC 20	For future rehabilitation ensure better records are kept as to what activities were completed. This would include details such as soil testing, landform shaping, ameliorants used, seed mix used and rates. This 'validation' process is a new requirement of the Resources Regulators Rehabilitation Reforms.
Annual Review	S5 C4	IMP REC 21	Additional detail needs to be provided in future Annual Reviews regarding longer term data trends.
	Mining Lease Condition 4	IMP REC 22	Complete a comparison of MOP predictions vs actual disturbance and rehabilitation.
		IMP REC 23	Section 8.1 of the Annual Review does not meet the requirements of the DPIE Annual Review Guidelines. It does not include details of the total amount of rehabilitation or the previous period. This should be completed in future Annual Reviews. See link to the guideline. https://www.planning.nsw.gov.au/-/media/Files/DPE/Guidelines/post-approval-requirements-for-state-significant-mining-developments-annual-review-guideline-2015-10.pdf?la=en

8 CONCLUSION

This IEA has been completed for the TGO and covered the following requirements of Schedule 5 Condition 8 of the Project Approval (MP09_0155).

The IEA period is from 9th March 2018 (day after previous audit visit) to 11th May 2021 (first day of 2021 audit). The IEA identified strong compliance in the field. Issues identified during the IEA related to low risk or administrative non – compliances:

- There were 5 low risk non – compliances and 15 administrative non – compliances for the Project Approval;
- There were 2 low risk non – compliances and 5 administrative non – compliances for the Statement of Commitments;
- There were 1 low risk non – compliances and 1 administrative non – compliances for the Environment Protection Licence;
- There were 0 non - compliances for the Mining Lease; and
- There was 0 a non - compliances for the PVP.

There were limited issues of concern from the field inspection. Overall improvements can be made around administrative issues such as management plan updates and implementation requirements, responding to real time air and noise and consolidated record keeping for environmental monitoring data. Field improvements relate to implementation of the Rehabilitation TAP from the Resources Regulator, minor erosion and sediment control management and the storage of chemicals and hydrocarbons.



APPENDIX A

Photographs





Photo 1 – Established rehabilitation and stable drop structure



Photo 2 - Established rehabilitation and stable drop structure



Photo 3 – Some patchy areas of rehabilitation with minor erosion



Photo 4 – Some bunds at site have rill erosion due to dispersive soils



Photo 5 – Stable drain and rehabilitation area



Photo 6 – Some areas of erosion in sections of rehabilitation



Photo 7 – Erosion near the WRE 3 drop structure leading to SD2



Photo 8 – Area at the base of WRE4 should be shaped and rehabilitated



Photo 9 – Empty hydrocarbon storage that are not stored within bunds



APPENDIX B

Compliance Spreadsheet



Project Approval

SCHEDULE 1
 Application Number: 09_0155
 Proponent: Alkane Resources Ltd
 Approval Authority: Minister for Planning and Infrastructure

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action								
Schedule 2 Admin Conditions													
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT													
1	In addition to meeting the specific performance criteria established under this approval, the Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the project.	Compliant	Controls reviewed in Management Plans Annual Reviews Incident Reports	<p>Although there were some incidents during the audit period there was no evidence of material harm. Evidence of site maintenance, in an attempt to prevent incidents.</p> <p>Incident 1 - Cyanide Groundwater</p> <ul style="list-style-type: none"> Clean-up notice from EPA for elevated cyanide levels. Dated 24 July 2019. Based on incident from 18 July 2019 incident. It was based on an increase in the cyanide levels in the bore over an extended period since 2015 (outside of IEA period). Evidence of validation Report prepared by TGO. There was a \$550 clean up notice fee paid to the EPA. Evidence of invoice. Based on information provided there was no evidence of material harm. No mention of material harm from the EPA based on the information provided to the IEA team. Note, the results for PWMP2 bore for cyanide continue to remain higher than pre incident levels. <p>There have been a series of reports by GHD investigating the cause and impacts of the increased cyanide levels. The June 2020 Report stated:</p> <p><i>Previous investigations (GHD 2015) identified elevated cyanide concentrations at monitoring bore PWMP02 in early 2015. The contamination was considered at the time to be likely to be associated with issues of containment of surface water at the rear of the ball mill. However the findings of GHD (2019) indicated the contamination at PWMP02 is from the process water system.</i></p> <p><i>Overall, elevated cyanide concentrations appear to be limited to the shallow groundwater around PWMP02.</i></p> <p>Incident 2 and 3 - Process Water Spill</p> <p>2 incidents of process water spills. Evidence of incident on 2 August 2019, with incident report supplied on 9 August 2019. For incident 2 - Evidence of incident report on 18 October 2019, which is 5 days after the incident.</p>	IMP REC: Continue to implement actions from the EPA and the 'Groundwater Data Review' Reports.								
TERMS OF APPROVAL													
2	The Proponent shall carry out the project generally in accordance with the: (a) EA; (b) Statement of Commitments; and (c) conditions of this approval. Notes: • The general layout of the project is shown in Appendix 2; and • The Statement of Commitments is reproduced in Appendix 8.	Compliant	Environmental Assessment Project Approval	Based on information provided and field evidence the site generally has met this condition. Site layout appears to be within Project Approval area. There are still some ongoing actions from the previous IEA (see 2020 Annual Review).	IMP REC: The 2020 Annual Review indicates there are still some ongoing actions from the previous IEA that should be followed up and closed out. These generally relate to administrative items.								
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.	Noted											
4	The Proponent shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: (a) any strategies, plans, programs, reviews, audit correspondence that are submitted in accordance with this approval; (b) any report, reviews or audits commissioned by the Department regarding compliance with this approval; and (c) the implementation of any actions or measures contained in these documents.	Compliant	DPIE Annual Review Approval Letters	Consultation with DPIE during the period through the Annual Reviews. No issues relating to the Annual Reviews based on approval letters. It is noted that most of the management plans are older (many are approved in 2016). The Audit Action Plan in the 2020 Annual Review provides an update on management plans. TGO are progressively updating management plans, however there are recommendations regarding management plan updates in later conditions (including Schedule 5 Condition 2).									
LIMITS ON APPROVAL													
5	The Proponent may carry out mining operations on the site until 31 December 2022. Note: Under this approval, the Proponent is required to rehabilitate the site and perform additional undertakings to the satisfaction of both the Secretary and RR. Consequently, this approval will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.	Compliant	N/A	Within approval timeframe. Noting the audit had commenced prior to the site obtaining a new modification (MOD 5). MOD 5 has approval date until 31 December 2025.									
6	The Proponent shall not: (a) process more than 1.5 million tonnes of ore at the site in a calendar year; (b) transport unprocessed ore from the site; or (c) process any ore other than that extracted from the site.	Compliant	Annual Production Numbers Annual Review	2018 - 1,307 Kt 2019 - 68.5 Kt. Low due to the establishment of the underground. 2020 - 624.1 Kt 2021 - within criteria year to date.									
7	Deleted												
STRUCTURAL ADEQUACY													
8	The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. Notes: • Under Part 6 of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and • Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.	Compliant	Building Certificates managed by contractors	New building was added in August 2020. This was the only building. The new open cut demountable building is rented from OSM Transportables in Dubbo and these are manufactured in accordance with Australian standards. The buildings are provided with engineered drawings and certificates to satisfy local council regulations. These certificates cover electrical, smoke alarm, air-conditioning and plumbing installations, waterproofing, glazing and building compliance.	IMP REC: Records of building certificates from contractors should be kept at site.								
DEMOLITION													
9	The Proponent shall ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.	Not Triggered	Site communications. Annual Reviews.	Based on site discussions no demolition completed during the IEA period. None outlined in Annual Reviews.									
PROTECTION OF PUBLIC INFRASTRUCTURE													
10	Unless the Proponent and the applicable authority agree otherwise, the Proponent shall: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and (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	Incident records Site communications.	No evidence of condition being triggered.									
11	Unless otherwise agreed by TNSW, all works associated with the underpass of the Newell Highway, all pipeline and transmission line crossings of classified roads, and all works connecting to classified roads shall be undertaken in accordance with the Works Authorisation Deed agreed between the Proponent and TNSW and effective from 12 May 2011.	Not Triggered	Site communications. Annual Reviews.	Work completed in previous IEA period. Not completed in this period.									
OPERATION OF PLANT AND EQUIPMENT													
12	The Proponent shall ensure that all the plant and equipment used at the site, or to transport materials from the site, is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Compliant	Shift Summary Report - numerous across the period Onsite activities - field visit	Evidence of maintenance activities in the numerous shift summary reports. This also outlines repairs completed. Site generally well maintained. Evidence of air quality controls in place through watering of haul roads. Evidence of real time system being in place. Evidence of site inspections.									
STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM													
13	With the approval of the Secretary, the Proponent may: (a) submit any strategy, plan or program required by this approval on a progressive basis; and (b) combine any strategy, plan or program required by this approval with any similar strategy, plan or program required for the project. Notes: • While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the activities on site are covered by suitable strategies, plans or programs at all times; and • 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.	Not Triggered	Records of Management Plans	Not triggered. At the discretion of the site.									
PLANNING AGREEMENT													
14	By 30 November 2016, unless otherwise agreed by the Secretary, the Proponent shall amend the current planning agreement with Council under Division 6 of Part 4 of the EP&A Act to reflect the terms outlined in Appendix 3.	Compliant	Planning agreement signed. Email correspondence DPIE dated 26/07/2016	TGO have amended the planning agreement as per the terms outlined in Appendix 3 of the Development Consent. The signed variation planning agreement was sighted. Email correspondence with DPIE confirming that the planning agreement has been amended was sighted.									
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS													
NOISE													
1	<p>Acquisition Upon Request</p> <p>Upon receiving a written request for acquisition from an owner of the land in Table 1, the Proponent shall acquire the land in accordance with the procedures in conditions 6-7 of schedule 4.</p> <p>Table 1: Land subject to acquisition upon request</p> <table border="1"> <thead> <tr> <th>Lot</th> <th>DP</th> </tr> </thead> <tbody> <tr> <td>156</td> <td>755093</td> </tr> <tr> <td>157</td> <td>755093</td> </tr> <tr> <td>1622</td> <td>1178801</td> </tr> </tbody> </table>	Lot	DP	156	755093	157	755093	1622	1178801	Not Triggered	N/A	Based on consultation with site, this has not been triggered. No written evidence of this being triggered.	
Lot	DP												
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1622	1178801												

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action																																																																																																																											
2	<p>Additional Noise Mitigation Measures</p> <p>Upon receiving a written request from the owner of the properties identified as R3, R23, R27, R28, R29, R32, R33 or R41, the Proponent shall implement additional noise mitigation measures (such as double-glazing, insulation and/or air conditioning) at the residence in consultation with the landowner. These measures must be reasonable and feasible, and directed towards reducing the noise impacts of the project on the residence.</p> <p>If the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.</p> <p>Note: to interpret the locations referred to in condition 2 of schedule 3, see the figure in Appendix 4.</p>	Not Triggered	Site communications. Annual Reviews.	Based on consultation with site, this has not been triggered. No written evidence. Noise mitigation measures mostly completed in 2013.																																																																																																																												
3	<p>Noise Criteria</p> <p>Until 30 June 2019, unless agreed otherwise by the Secretary, the Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land (except for residences on the land identified in Table 1).</p> <table border="1"> <caption>Table 2: Noise Criteria dB(A)</caption> <thead> <tr> <th rowspan="2">Noise Assessment Group</th> <th rowspan="2">Receivers</th> <th colspan="2">Day</th> <th colspan="2">Evening</th> <th colspan="2">Night</th> </tr> <tr> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">NAG A</td> <td>R1, R4, R6</td> <td>36</td> <td>36</td> <td>36</td> <td>36</td> <td>36</td> <td>45</td> </tr> <tr> <td>R5</td> <td>37</td> <td>37</td> <td>37</td> <td>37</td> <td>37</td> <td>45</td> </tr> <tr> <td>All other receivers</td> <td>36</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td rowspan="2">NAG B</td> <td>All receivers</td> <td>36</td> <td>36</td> <td>36</td> <td>36</td> <td>36</td> <td>45</td> </tr> <tr> <td>All receivers</td> <td>36</td> <td>36</td> <td>36</td> <td>36</td> <td>36</td> <td>45</td> </tr> <tr> <td rowspan="10">NAG C</td> <td>R3</td> <td>49</td> <td>40</td> <td>40</td> <td>40</td> <td>40</td> <td>45</td> </tr> <tr> <td>R27</td> <td>48</td> <td>38</td> <td>38</td> <td>38</td> <td>38</td> <td>45</td> </tr> <tr> <td>R28</td> <td>46</td> <td>39</td> <td>39</td> <td>39</td> <td>39</td> <td>45</td> </tr> <tr> <td>R29</td> <td>48</td> <td>40</td> <td>40</td> <td>40</td> <td>40</td> <td>45</td> </tr> <tr> <td>R33</td> <td>48</td> <td>39</td> <td>39</td> <td>39</td> <td>39</td> <td>45</td> </tr> <tr> <td>R41</td> <td>46</td> <td>38</td> <td>38</td> <td>38</td> <td>38</td> <td>45</td> </tr> <tr> <td>All other receivers</td> <td>46</td> <td>37</td> <td>37</td> <td>37</td> <td>37</td> <td>45</td> </tr> <tr> <td>NAG D</td> <td>R23, R32</td> <td>43</td> <td>39</td> <td>39</td> <td>39</td> <td>39</td> <td>45</td> </tr> <tr> <td>All receivers</td> <td>43</td> <td>38</td> <td>38</td> <td>38</td> <td>38</td> <td>45</td> </tr> <tr> <td>All other residential receivers</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> </tbody> </table>	Noise Assessment Group	Receivers	Day		Evening		Night		(LAeq15-min)	(LAeq15-min)	(LAeq15-min)	(LAeq15-min)	(LAeq15-min)	(LAeq15-min)	NAG A	R1, R4, R6	36	36	36	36	36	45	R5	37	37	37	37	37	45	All other receivers	36	35	35	35	35	45	NAG B	All receivers	36	36	36	36	36	45	All receivers	36	36	36	36	36	45	NAG C	R3	49	40	40	40	40	45	R27	48	38	38	38	38	45	R28	46	39	39	39	39	45	R29	48	40	40	40	40	45	R33	48	39	39	39	39	45	R41	46	38	38	38	38	45	All other receivers	46	37	37	37	37	45	NAG D	R23, R32	43	39	39	39	39	45	All receivers	43	38	38	38	38	45	All other residential receivers	35	35	35	35	35	45	Compliant	Noise monitoring reports from 2018 - 2021. Annual Reviews 2018-2020	<ul style="list-style-type: none"> Attended noise monitoring reports are completed monthly by a noise consultant. Monitoring locations compare against the NAGs. No issues determined in terms of results against criteria for attended monitoring. Sometimes the site has been recorded as audible, however the noise monitoring results are within criteria. It is noted the noise summary within the Annual Review is not very detailed. Later conditions cover recommendations relating to further information. 	
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3A	<p>From 30 June 2019, unless agreed otherwise by the Secretary, the Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 2A at any residence on privately-owned land (except for the land identified in Table 1). Noise generated by the development is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy.</p> <table border="1"> <caption>Table 2A: Noise Criteria dB(A)</caption> <thead> <tr> <th rowspan="2">Noise Assessment Group</th> <th rowspan="2">Receivers</th> <th colspan="2">Day</th> <th colspan="2">Evening</th> <th colspan="2">Night</th> </tr> <tr> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> <th>(LAeq15-min)</th> </tr> </thead> <tbody> <tr> <td>NAG A</td> <td>All receivers</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>NAG B</td> <td>All receivers</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>NAG C</td> <td>All receivers</td> <td>45</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>NAG D</td> <td>All receivers</td> <td>43</td> <td>38</td> <td>38</td> <td>38</td> <td>38</td> <td>45</td> </tr> <tr> <td>All other residential receivers</td> <td></td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> </tbody> </table> <p>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 meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.</p> <p>However, these criteria do not apply if the Proponent has an agreement with the relevant owner(s) of these residences/ land to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.</p> <p>Notes</p> <ul style="list-style-type: none"> To interpret the locations referred to in Tables 2 and 2A, see the figure in Appendix 4. Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. 	Noise Assessment Group	Receivers	Day		Evening		Night		(LAeq15-min)	(LAeq15-min)	(LAeq15-min)	(LAeq15-min)	(LAeq15-min)	(LAeq15-min)	NAG A	All receivers	35	35	35	35	35	45	NAG B	All receivers	35	35	35	35	35	45	NAG C	All receivers	45	35	35	35	35	45	NAG D	All receivers	43	38	38	38	38	45	All other residential receivers		35	35	35	35	35	45	Compliant	Noise monitoring reports from 2018 - 2021. Annual Reviews 2018-2020	Based on results provided the site has not triggered criteria when completing attended noise monitoring.																																																																						
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4	<p>Operating Hours</p> <p>The Proponent shall comply with the operating hours in Table 3.</p> <table border="1"> <caption>Table 3: Operating hours</caption> <thead> <tr> <th>Activity</th> <th>Operating Hours</th> </tr> </thead> <tbody> <tr> <td>Vegetation clearing and topsoil stripping</td> <td>6 am-6 pm, 7 days per week</td> </tr> <tr> <td>Construction</td> <td></td> </tr> <tr> <td> Mining, maintenance and processing operations</td> <td>24 hours, 7 days per week</td> </tr> <tr> <td>Rehabilitation</td> <td>7 am-10 pm, 7 days per week</td> </tr> </tbody> </table> <p>Note: Condition 8 includes restrictions on blasting times.</p>	Activity	Operating Hours	Vegetation clearing and topsoil stripping	6 am-6 pm, 7 days per week	Construction		Mining, maintenance and processing operations	24 hours, 7 days per week	Rehabilitation	7 am-10 pm, 7 days per week	Compliant	Site communications	<ul style="list-style-type: none"> No clearing (based on Annual Review and site communications). Some rehabilitation in 2018. No evidence of operating outside of hours. Mining can occur 24/7. No major construction, only the assembly of a portable building. 																																																																																																																		
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4A	<p>The Proponent shall only undertake construction works on the modified amenity bund between 7 am and 6 pm Monday to Friday and 8 am and 1 pm Saturday.</p> <p>Notes:</p> <ul style="list-style-type: none"> For the location of the modified amenity bund, see the figure in Appendix 2. The maximum height of the modified amenity bund must not exceed 8 m, unless otherwise agreed by the Secretary. 	Not Triggered	Site communications	Based on site discussions no work completed in this area.																																																																																																																												
5	<p>Operating Conditions</p> <p>5. The Proponent shall:</p> <ol style="list-style-type: none"> implement best management practice, including all reasonable and feasible noise mitigation measures, to minimise the construction, operational and traffic noise of the project, including measures to: <ul style="list-style-type: none"> minimise maximum noise levels from the tipping of waste rock; and relocate mobile plant from elevated and exposed sections of the site under adverse meteorological conditions at night; operate a noise management system on site that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this approval; investigate ways to minimise the noise generated by the project; maintain the effectiveness of noise suppression equipment on plant at all times and ensure that defective plant is not used operationally until fully repaired; minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply, and report on these investigations and the implementation and effectiveness of these measures in the Annual Review, to the satisfaction of the Secretary. 	Administrative Non-Compliance	Field inspection Real time noise system. Complaints log. Noise results.	<ol style="list-style-type: none"> Evidence of screening of crusher which is the main noise source. No activities since 2018 in higher up rehabilitation areas which cause more potential noise to receptors. There is a real time system in place. Although the system is in place the site has not had to actively use this system due to compliance with noise and there hasn't been noise complaints. However Muller Acoustics manage the system and can contact TGO if there are higher noise levels (above criteria) recorded from the site. There is no evidence that operations are planned based on using a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations. There are monthly reports completed by MAC which outlines the real time results and the source of noise from a real time trigger is reached. This summarises MAC's post analysis of noise events and compliance. However there is no evidence of site actions following noise triggers. It is noted that there are actions required for real time noise assessment in Section 5.3 of the Noise Management Plan. We have deemed the site non-compliant for implementing the real time noise monitoring system (at time of triggers) and a lack of predictive forecasting. This has not been required during the IEA period due to compliance. Evidence of monthly real-time reports by Muller Acoustics. Monitoring continues to be completed. Real time monitoring continues and so does meteorological monitoring. No specific evidence of reviewing potential noise based on meteorological conditions. There has been no proposed improvements required as the site has been compliant. 	<p>NC REC: Ensure there are improved record keeping for changes made at site relating to noise real time noise triggers and actions. Records should be kept indicating TGO has reviewed site activities when a trigger has been hit.</p> <p>NC REC: Look into the implementation of a noise management system on site that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations. This is to cover Schedule 3 Condition 5b of the Project Approval.</p>																																																																																																																											
6	<p>Noise Management Plan</p> <p>The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. The plan must:</p> <ol style="list-style-type: none"> be prepared in consultation with the EPA and Council, and submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise; describe the measures that would be implemented to ensure compliance with conditions 3-5 of this schedule, including a trigger action response plan based on noise complaints, real time and attended noise monitoring; include a monitoring program that: <ol style="list-style-type: none"> uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project; adequately supports the proactive and reactive noise management system on site; defines what constitutes a noise incident, and includes a protocol for identifying noise incidents and notifying the Department and relevant stakeholders of any such incident; evaluates and reports on the effectiveness of the noise management system on site; 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 better indicator of compliance with the noise criteria in this approval and a trigger for further attended monitoring); and include a noise reduction strategy for progressively reducing mine noise during open cut mining operations, consistent with the noise scenarios described in the document 'Tomingley Gold Mine Environmental Assessment - Project Approval No. 09_0155 Modification 3' dated November 2015. 	Administrative Non-Compliance	Field inspection Real time noise system. Complaints log. Noise results.	<p>Preparation:</p> <p>Noise Management Plan that is on the website is dated November 2016 and was not updated following the last IEA. Note, the document does not have a cross referencing table. We do not have this as a recommendation in this condition as we have this as a recommendation under Schedule 5 Condition 3.</p> <ol style="list-style-type: none"> Section 2.4 Consultation. Section 5 Noise Actions and Response Plan (Section 5.3.3 Noise Incident Response, Section 5.5 & Section 8 complaints). Section 5 Noise Actions and Response Plan. "Proactive" - Section 4.4 Engineering Noise Controls. Section 4.5 Procedural Noise Controls. Section 4.6.2 Real Time Unattended Noise Logging (monitors to be hired periodically at various positions). Section 4.6 Noise Monitoring. Section 5.3.3 Noise Incident Response. Appendix 4 Attended Noise Monitoring Procedure. Section 5.5 In the Event of a Complaint. This is completed as part of Annual Reviews. Section 5.2.1 Validation Assessment. Appendix 4 Attended Noise Monitoring Procedure. Section 4.6 Noise Monitoring. Section 7 Review (addresses this condition but does not present a noise reduction strategy). Appendix 3 Sound Power Screening Test. <p>Implementation:</p> <p>Evidence of noise management in the field inspection through location of noisy equipment (eg. crusher). Real time noise system, Complaints log and noise results were sighted. Noise has not been an issue at the site in terms of compliance against noise criteria. Evidence of attended noise monitoring and comparison against noise criteria. There are monthly reports completed by MAC which outlines the unattended noise results (EPL criteria). This summarises MAC's post analysis of unattended noise monitoring and compliance and includes determining the component of noise that is from TGO. No issues were determined in the monthly MAC reports.</p> <p>Real time system - There is a system in place, however there is no evidence of site actions following noise triggers at the time of an elevated noise level from real time noise monitoring. It is noted that there are actions required for real time noise assessment in Section 5.3 of the Noise Management Plan. It states that 'the following actions will occur immediately after obtaining exceedance information from the real - time monitors'. We have not been provided definitive dates about when real time noise triggers occurred.</p> <p>We have also deemed the site non-compliant for implementing the real time noise monitoring system, including using a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations.</p> <p>Evidence of sound power levels for site equipment.</p> <p>One minor recommendation about monitoring frequency.</p>	<p>MP REC: Update the Noise Management Plan to outline the monthly noise monitoring (currently says quarterly). This is consistent with what has been occurring at the site.</p>																																																																																																																											

BLASTING

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action																
7	<p>Blasting Criteria</p> <p>The Proponent shall ensure that blasting on the site does not cause exceedances of the criteria in Table 4.</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Airblast Overpressure (dB(Ln Peak))</th> <th>Ground Vibration (mm/s)</th> <th>Allowable Exceedance</th> </tr> </thead> <tbody> <tr> <td>Residence on privately-owned land</td> <td>120</td> <td>10</td> <td>0%</td> </tr> <tr> <td></td> <td>115</td> <td>5</td> <td>5% of total blasts over any 12 month period</td> </tr> <tr> <td>All public infrastructure</td> <td>-</td> <td>50, or alternatively, a specific limit determined to the satisfaction of the Secretary by the structural design methodology in AS 2187 2:2006, or its latest version</td> <td>0%</td> </tr> </tbody> </table> <p>However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner, and has advised the Department in writing of the terms of this agreement.</p>	Location	Airblast Overpressure (dB(Ln Peak))	Ground Vibration (mm/s)	Allowable Exceedance	Residence on privately-owned land	120	10	0%		115	5	5% of total blasts over any 12 month period	All public infrastructure	-	50, or alternatively, a specific limit determined to the satisfaction of the Secretary by the structural design methodology in AS 2187 2:2006, or its latest version	0%	Compliant	<p>Blast Management Plan</p> <p>Blast Results reports - Blasting Contractor.</p> <p>Annual Review 2018-2020</p>	<p>Open Cut Blasting - Evidence of blast results. It is noted that the last open cut blasting was on the 15th November 2018 and there was no other open cut blasting for the remainder of the audit period. Results within criteria based on records provided.</p> <p>Underground Blasting - It is noted that blasts are completed underground, however the record management is poor and not in a consolidated spreadsheet. Blasting information in terms of times are outlined in end of shift report. Although it is highly unlikely that underground blast events would cause exceedances of criteria, records for blasting timing and blasting details still need to be kept in a consolidated format so they can be supplied on demand. It is noted that TGO only receive a blast notification when the blast triggers our monitors and being underground this is not very often and when it does the levels are always well below our Licence levels. Despite the requirements to improve record keeping there is no evidence of blasting exceedances from open cut and underground.</p> <p>With regards to blast timing, TGO complied with Condition L5.6 of EPL 20169 for all underground blasting which states that underground blasting is permitted at anytime. It appears the blasting criteria are still applicable for all blasting (surface and underground).</p>	<p>IMP REC: Ensure the Annual Review blasting criteria is outlined as per Schedule 3 Condition 7 of the Project Approval. This includes outlining that only 5% of blasts can be over 115 dBA for overpressure and 5% of blasts can be over 5 mm/s for vibration.</p> <p>IMP REC: Blasting results should be included as an appendix to the Annual Review.</p> <p>IMP REC: The monthly EPL monitoring reports only include maximum vibration levels for blasting, not overpressure. Results should be consistent to allow comparison against relevant blasting criteria.</p> <p>IMP REC: The Blast Management Plan should be updated to include information about underground blasting (eg. timing, methods, criteria, monitoring and record keeping).</p>
Location	Airblast Overpressure (dB(Ln Peak))	Ground Vibration (mm/s)	Allowable Exceedance																		
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8	<p>Blasting Hours</p> <p>The Proponent shall only carry out blasting on site between 9:00 am and 5:00 pm Monday to Saturday, inclusive. No blasting is allowed on Sundays, public holidays or at any other time without the written approval of the Secretary.</p>	Compliant	Blast Results - spreadsheet	<p>Open Cut Results - Blast results spreadsheet has been provided with the site being compliant for those blasting hours. It is noted that the last open cut blasting was on the 15th November 2018 and there was no other open cut blasting for the remainder of the audit period. Results within criteria based on records provided.</p> <p>Underground Blasting - Underground blasting can be completed at any time.</p>																	
9	<p>Blasting Frequency</p> <p>The Proponent may carry out a maximum of three blasts per day for mining operations on the site, unless an additional blast is required following a blast misfire.</p> <p>This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or blasts required to ensure the safety of the site or its workers.</p> <p>Note: for the purpose 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 site.</p>	Compliant	Blast Results - spreadsheet	Based on the data provided the site was within the maximum number of blasts. As well as being within criteria.																	
10	<p>Property Inspections</p> <p>The Proponent shall advise the owners of privately-owned land within 2 kilometres of blasting operations at least 2 months prior to blasting that they are entitled to a structural property inspection to establish the baseline condition of buildings and other structures on the property.</p>	Not Triggered	N/A	This is an older condition and not relevant to this period. Previously completed.																	
11	<p>If the Proponent receives a written request from any such landowner, then within one month of receiving the request, and where possible prior to blasting, the Proponent shall:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to:</p> <p>(i) establish the baseline condition of any buildings and other structures on the land, or update the previous property inspection report; and</p> <p>(ii) identify measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and</p> <p>(b) give the landowner a copy of the new or updated property inspection report.</p> <p>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.</p>	Not Triggered	N/A	Based on site discussions this has not been triggered.																	

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action																							
12	<p>Property Investigations</p> <p>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 one month of receiving this claim the Proponent shall:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to investigate the claim; and</p> <p>(b) give the landowner a copy of the property investigation report.</p> <p>If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damage to the satisfaction of the Secretary.</p> <p>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 independent property investigation, either party may refer the matter to the Secretary for resolution.</p>	Not Triggered	N/A	Based on site discussions this has not been triggered.																								
13	<p>Operating Conditions</p> <p>During operation of the project, the Proponent shall:</p> <p>(a) implement best management practice to:</p> <p>(i) protect the safety of people and livestock in the surrounding area;</p> <p>(ii) protect public or private infrastructure/ property in the surrounding area from any damage, including the Newell Highway; and</p> <p>(iii) minimise the dust and fume emissions from any blasting;</p> <p>(b) minimise the frequency and duration of any road closures, and avoid road closures during peak traffic periods; and</p> <p>(c) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site, to the satisfaction of the Secretary.</p>	Compliant	<p>Blast Management Plan</p> <p>Blast Results reports - Blasting Contractor.</p> <p>Annual Review 2018-2020</p> <p>Examples of RMS Notification by Contractor</p>	<p>a) No issues with blast criteria, public safety or infrastructure damage. No evidence of fume issues in blasting reports or complaints. Although records for blasting and weather data recording (in a consolidated spreadsheet) could be improved there is no evidence of any dust issues relating to blast events.</p> <p>Based on blast results being within criteria and no blasting complaints it appears this is being managed effectively.</p> <p>b) Evidence of road closures. Evidence of blast notification sign. The highway is blocked during this time of road closures. Note, the last open cut blast occurred in November 2018.</p> <p>c) Section 8.1.1 in the Blast Management Plan outlines the detailed system for blast notification. RMS notification has been noted.</p> <p>Note, IEMA has called the condition below non-compliant, but his relates to recording wind conditions during blasting and not specifically relating to this condition.</p>																								
14	<p>Blast Management Plan</p> <p>The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with EPA, TNSW and Council, and submitted to the Secretary for approval prior to undertaking any blasting in conjunction with mining operations on-site;</p> <p>(b) describe the blast mitigation measures that would be implemented to ensure compliance with conditions 7-13 of this schedule; and</p> <p>(c) include a blast monitoring program to evaluate the performance of the project.</p>	Administrative Non-Compliance	<p>Blast Management Plan</p> <p>Blast Results reports - Blasting Contractor.</p> <p>Annual Review 2018-2020</p> <p>Road Occupancy Licence</p> <p>Work Control ROL Process (provided 25/6/2021)</p>	<p><u>Preparation:</u></p> <p>Note, the document does not have a cross referencing table.</p> <p>a); Section 6 Consultation, Appendix 1 Consultation in the preparation of this plan. Consultation with RMS but not sure about TNSW. As there is no information included in the management plan this condition has been called <u>non-compliant</u>.</p> <p>b); Section 8.1.8 Summary of Blast Impact Mitigation Measures. Section 8 Operational Management of Blasting Activities.</p> <p>c); Section 10 Monitoring, Appendix 2 TGO Blast Logging Template.</p> <p><u>Implementation:</u></p> <ul style="list-style-type: none"> Evidence of blast results. Evidence of blast notifications to landholders. Blasting managed by contractors with sentries being used. Evidence of road occupancy licence (1501862). Evidence of blasting signs which are required in the Blast Management Plan. Minimal documented evidence illustrating an assessment of weather conditions prior to open cut blasting (<u>non-compliance</u> with implementing the Blast Management Plan). There was no recording of wind direction or strength on the following dates in the Blast Summary spreadsheet: 12/03/2018, 13/03/2018, 24/03/2018, 11/04/2018, 12/04/2018, 14/04/2018, 17/04/2018, 19/04/2018, 21/04/2018, 3/05/2018, 9/05/2018, 12/05/2018, 21/05/2018, 24/05/2018, 28/05/2018, 29/05/2018, 4/06/2018, 9/06/2018, 12/06/2018, 20/06/2018, 21/06/2018, 25/06/2018, 17/07/2018, 23/07/2018, 24/08/2018, 12/09/2018, 17/09/2018, and 10/10/2018. There are site records of meteorological data, but the spreadsheets do not show evidence that weather conditions were assessed for all blasts. 	<p>NC REC: Ensure the site keeps evidence of assessing weather conditions prior to blasting as well as recording this information in the Blast Summary Spreadsheet.</p> <p>As per Schedule 3 Condition 7 recommendation.</p> <p>IMP REC: The Blast Management Plan should be updated to include information about underground blasting (eg. timing, methods, criteria, monitoring and record keeping).</p>																							
AIR QUALITY AND GREENHOUSE GAS																												
15	<p>Odour</p> <p>The Proponent shall ensure that no offensive odours, as defined under the POEO Act, are emitted from the site.</p>	Compliant	<p>Site inspection</p> <p>Complaints registers 2018-2021</p> <p>AQGHGMP</p> <p>Annual Review</p>	Based on Annual Reviews and site discussions there have been no odour complaints or issues. None identified.																								
16	<p>Greenhouse Gas Emissions</p> <p>The Proponent shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site to the satisfaction of the Secretary.</p>	Compliant	<p>Site inspection</p> <p>Complaints registers 2018-2021</p> <p>AQGHGMP</p> <p>Records of electricity/fuel usage</p>	<p>No issues identified with greenhouse gas. The site uses the least amount of electricity and fuel possible to save costs.</p> <p>Evidence of maintenance of fleet.</p>																								
17	<p>The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria listed in Tables 5, 6 or 7 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.</p> <p>Air Quality Criteria</p> <p>Table 5: Long term impact assessment criteria for particulate matter</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>90 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>Annual</td> <td>30 µg/m³</td> </tr> </tbody> </table> <p>Table 6: Short term impact assessment criterion for particulate matter</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>50 µg/m³</td> </tr> </tbody> </table> <p>Table 7: Long term impact assessment criteria for deposited dust</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Maximum increase in deposited dust level</th> <th>Maximum total deposited dust level</th> </tr> </thead> <tbody> <tr> <td>Deposited dust</td> <td>Annual</td> <td>2 g/m²/month</td> <td>4 g/m²/month</td> </tr> </tbody> </table> <p>Notes to Tables 5-7:</p> <ul style="list-style-type: none"> a Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to all other sources); b Incremental impact (i.e. incremental increase in concentrations due to the project on its own); c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580 10:2016, Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method, or its latest version; and d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary. 	Pollutant	Averaging Period	Criterion	Total suspended particulate (TSP) matter	Annual	90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	30 µg/m ³	Pollutant	Averaging Period	Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	50 µg/m ³	Pollutant	Averaging Period	Maximum increase in deposited dust level	Maximum total deposited dust level	Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month	Non-Compliant (Low Risk)	<p>Air quality results 2018-2021</p> <p>Annual Review 2018 - 2020</p> <p>Internal Dust Investigation (19/11/2019)</p>	<p>D2018</p> <p>DDG - Compliant with criteria.</p> <p>HVAS - Annual Average TSP Concentrations - Annual average validity questionable as no samples were collected on the following dates: 21-Feb, 17-Mar, 10-May, 28-May, 08-Aug, 26-Aug, 25-Sep, 18-Dec.</p> <p>TEOM - 24 hour average PM10 Concentrations - 31 results exceeded the 24 hour average limit for PM10. According to the Annual Review 2018, these were investigated and 1 reported to the NSW regulator. Investigation reports were not provided for review and as such the investigation methodology and findings could not be audited. It is noted that the monthly TEOM reports provide a high level review of exceedances.</p> <p>TEOM - Annual Average PM10 Concentrations - Compliant with criteria.</p> <p>TEOM Data Capture - ~97%</p> <p>2019</p> <p>DDG - DDG4 exceeded criteria, likely due to ongoing bushfires and drought. <u>Non-compliance</u> but this expected due to regional drought.</p> <p>HVAS - Annual Average TSP Concentrations - Compliant with criteria based on annual average.</p> <p>TEOM - 24 hour average PM10 Concentrations - 76 results exceeded the 24 hour average limit for PM10. According to the 2019 Annual Review, these were investigated and it was concluded that any exceedances during the reporting period were not as a result of mining related activity. Investigation reports were not provided for review and as such the investigation methodology and findings could not be audited. It is noted that the monthly TEOM reports provide a high level review of exceedances.</p> <p>TEOM - Annual Average PM10 Concentrations - Exceeded criteria (38.1ug/m³) likely due to ongoing bushfires and drought.</p> <p>TEOM Data Capture - ~98%</p> <p>2020</p> <p>DDG - Compliant with criteria.</p> <p>HVAS - Annual Average TSP Concentrations - Compliant with criteria based on annual average.</p> <p>TEOM - 24 hour average PM10 Concentrations - 32 results exceeded the 24 hour average limit for PM10. According to the 2020 Annual Review, "Ninety seven percent of exceedances were in January and the first week of February and could be attributed to extraordinary events including dust storms and severe bushfires". The Annual Review does not provide any information in relation to the remaining 3 percent of exceedances. It is noted that some of these exceedances occurred after significant rain events and regional PM10 concentrations were not elevated during these days.</p> <p>Investigation reports were not provided for review and as such the investigation methodology and findings could not be audited. It is noted that the monthly TEOM reports provide a high level review of exceedances. In some cases (e.g. January 2020), the Monthly TEOM reports state that the Tomingley mine may have contributed to the high particulate levels. However, no quantification of potential contribution has been performed and it is unknown what actions were taken to reduce potential for PM emissions.</p> <p>TEOM - Annual Average PM10 Concentrations - Exceeded criteria (39.2ug/m³) likely due to ongoing bushfires and drought.</p> <p>TEOM Data Capture - ~99%</p> <p>2021</p> <p>DDG - N/A (full year of data required to compare against annual average criteria).</p> <p>HVAS - Annual Average TSP Concentrations - N/A (full year of data required to compare against annual average criteria).</p> <p>TEOM - 24 hour average PM10 Concentrations - Compliant with criteria.</p> <p>TEOM - Annual Average PM10 Concentrations - N/A (full year of data required to compare against annual average criteria).</p> <p>TEOM Data Capture - ~97%.</p> <p>Compliance Summary:</p> <p>There have been outages in TEOM, however the data capture is still high, so we have determined the site compliant for data capture.</p> <p>There were exceedances of short term criteria. Although it is likely that these have been attributable to regional and extraordinary events, evidence has not been provided for reviewing and investigating the cause of all short term exceedances. Any evidence of the review of short term criteria exceedances was not completed immediately (some times at the end of the month, however some more recent review was also completed). No evidence of assessing potential site contributions (incremental short term impacts). We cannot therefore determine if the site met the short term PM10 criteria. <u>Non-compliance</u>.</p> <p>Key monitoring information is not provided in a consolidated spreadsheet (with exception of TEOM data). The information has generally been provided in monthly reports which does not give you an understanding of annual averages or long-term data trends. Longer term spreadsheets for all dust monitoring is required going forward.</p>	<p>NC REC: Going forward it is recommended that a spreadsheet or spreadsheets are prepared to include ongoing environmental monitoring results (eg. Air, surface water and groundwater). This will enable an easier assessment of results and trends.</p> <p>NC REC: Records should be kept in regards to planning for adverse weather requirements in an attempt to reduce dust emissions. Also if operations are changed due to adverse weather events (eg. wind direction, strength) then this information should be recorded and kept at site.</p> <p>NC REC: Liaise with an air quality specialist to utilise real time information and meteorological conditions to determine the incremental impact from site dust levels. This system should be easy enough that the site can determine it quickly. Utilising regional dust stations as well. A formal procedure for investigating any exceedances of ambient air quality criteria should be developed.</p> <p>Another alternative is to investigate the use of directional dust gauges to integrate with the current dust management system.</p>
Pollutant	Averaging Period	Criterion																										
Total suspended particulate (TSP) matter	Annual	90 µg/m ³																										
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Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month																									

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action								
18	<p>Operating Conditions</p> <p>The Proponent shall:</p> <p>(a) implement best management practice, including all reasonable and feasible measures to minimise the off-site odour, fume and dust emissions from the project.</p> <p>(b) regularly assess the predictive meteorological forecasting data and real-time air quality monitoring data to guide the day-to-day planning of mining operations and implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this approval.</p> <p>(c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note to Tables 5-7).</p> <p>(d) monitor and report on compliance with the relevant air quality conditions in this approval, and</p> <p>(e) take all practical measures to minimise dust emissions from the residue storage facility, to the satisfaction of the Secretary.</p>	Non-Compliant (Low Risk)	Monitoring results Field inspection Real time records and responses. Internal Dust Investigation (19/11/2019)	<ul style="list-style-type: none"> Water truck usage including some records of usage tracks. Air quality results spreadsheet. The monthly TEOM reports provide a high level review of exceedances and qualitatively determine potential emission sources during each exceedance event. While this information is useful, this report is prepared at the end of each month, by which time the opportunity to implement additional mitigation measures (if required) has passed. No evidence of changes to operations during high particulate concentration events was provided to the audit team. Moreover, no evidence was provided that exceedances of the relevant criteria and/or trigger levels were investigated as they occurred. No evidence provided that the facility implemented mitigation measures during the 2018, 2019 and 2020 to minimise the air quality impacts of the project during extraordinary events. As mentioned under ISchedule 3 Condition 17 above. It is noted that the monthly TEOM reports in some cases (e.g. January 2020), state that the Tomingley mine may have contributed to the high particulate levels during extraordinary event days. However, from the information provided it is not clear if quantification of potential contribution has been performed and if any actions were taken to reduce potential for PM emissions. It is noted there was some evidence provided of text messages being on the Environmental Officers phone for dust triggers, but no specific records of how the site has reacted to each trigger. No evidence provided that the facility reviewed operations upon exceedance of the pre-determined PM10 concentrations outlined in the AQMP (Trigger Level 1 and Trigger Level 2). The site should be keeping records of when the site has triggered a real time data air quality trigger and proposed actions which are required to be implemented under Section 8.2 in the AQHGMP. The site is <u>non-compliant</u> for not fully implementing the real time dust monitoring system and responding to dust triggers. Little information was provided to the IEA team regarding planning for adverse weather requirements (Section 8.1 of the AQHGMP). <p>See recommendations in other air quality conditions.</p>									
19	<p>Air Quality and Greenhouse Gas Management Plan</p> <p>The Proponent shall prepare and implement an Air Quality and Greenhouse Gas Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with the EPA and Council, and be submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise;</p> <p>(b) describe the measures that would be implemented to ensure compliance with conditions 15-18 of this schedule, including a trigger action response plan based on air complaints, air quality and visual monitoring and meteorological forecasting and monitoring;</p> <p>(c) include a program for the implementation of the measures referred to in (b) above;</p> <p>(d) include an air quality monitoring program that</p> <p>(i) uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project;</p> <p>(ii) adequately supports the proactive and reactive air quality management system on site; and</p> <p>(iii) includes a protocol for determining exceedances of the relevant conditions of this approval; and</p> <p>(e) describe the measures that would be implemented to minimise the release of greenhouse gas emissions from the site.</p>	Non-Compliant (Low Risk)	Monitoring results Field inspection Real time records and responses.	<p>Preparation:</p> <p>Note, the document does not have a cross-referencing table.</p> <p>a) Section 3.2 Consultation.</p> <p>b) Section 6 Management Measures, Table 4 Air Quality Control Measures During Mining Operations, Section 7.4 Monitoring Procedures, Section 8 Air Quality Response Plan, Appendix 2 TGO Site Specific Procedure for Dust Control - Section 6 Operation Control Measures.</p> <p>c) Table 4 Air Quality Control Measures During Mining Operations, Section 8 Air Quality Response Plan, in particular Section 8.3 Table 7 Dust Emissions - Triggers and Corrective Measures.</p> <p>d) i. Evidence of real time system. ii. Section 8.1 Planning for Adverse Weather, Section 8.2 Real Time Dust Management, Appendix 2 TGO Site Specific Procedure for Dust Control - Section 8 Reactive Triggers. iii. Section 2 Background (EA values and Impact Assessment Criteria), Section 8.2 Proactive Management Real Time Dust Management.</p> <p>e) Section 6.3.3 Minimisation, Section 7.5 Greenhouse Gas Data Collection.</p> <p>Implementation:</p> <ul style="list-style-type: none"> Evidence of monitoring. As per comments in above condition about use of real time monitoring and planning for adverse weather events. The site is <u>non-compliant</u> for not fully implementing the real time dust monitoring system and responding to dust triggers. Air quality mitigation measures such as water trucks. Dust from crusher was being contained close to the area. No dust issues observed in the field. As per the Approved Methods, referenced within the Air Quality Management Plan, "Analyses should be carried out by a laboratory accredited to perform them by an independent accreditation body acceptable to the EPA, such as the National Association of Testing Authorities (NATA)", from the information provided, it is not clear if the TEOM sampling/real-time analysis has been completed by a NATA laboratory. Within the monthly TEOM reports issued by CBased Environmental, it is noted that "All laboratory analysis was conducted by a National Association of Testing Authorities (NATA) accredited laboratory", however, no evidence is provided within these reports. Further to the above points, while the analysis of HVAS results has been completed by a NATA accredited laboratory, it is unclear from the information provided if the sampling has been completed by an entity NATA accredited for the sampling component of the work. A review of the PM10 and TSP data (which are located, as per Figure 3 of the AQMP) shows discrepancies between the data collected by the HVAS and TEOM. On 6% of the occasions, TSP concentrations recorded are less than that of PM10. The recorded TSP concentrations are less than half of the recorded PM10 concentration for 2% of the time from 2018 to 2021. These results are unusual and there appears to be some errors. 	<p>NC REC: It is recommended that a procedure for review and validation of ambient air quality data be adopted. This would be of use when there are differing ratios between TSP and PM10.</p> <p>NC REC: It is recommended that a formal procedure for investigating any exceedances of ambient air quality criteria, which includes quantitative estimation of the sites contribution to any exceedances be adopted.</p>								
METEOROLOGICAL MONITORING													
20	<p>For the life of the project, the Proponent shall ensure that there is a suitable meteorological station operating in the vicinity of the site that:</p> <p>(a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and</p> <p>(b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Industrial Noise Policy, unless a suitable alternative is approved by the Secretary following consultation with the EPA.</p>	Compliant	Meteorological station results. Evidence of calibration and servicing.	<ul style="list-style-type: none"> Included in carbon based monitoring reports. Evidence of calibration in the reports. Calibrations performed in accordance with AS2923-1987 for Class 3 instruments (ie measurement programs where a broad indication of the wind regime is adequate for project objectives) It is noted that the 2019 annual calibration was completed 15 months after the previous calibration (the previous annual calibration was completed March 2018 and 2019 calibration in June 2019). 	<p>IMP REC: It is recommended that system calibration and diagnostic checks be performed at six month intervals, or in accordance with manufacturer's recommendations, whichever is more frequent as required by AM-4.</p>								
SOIL AND WATER													
21	<p>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Proponent is required to obtain the necessary water licences for the project.</p> <p>Water Supply</p> <p>The Proponent shall ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of mining operations to match its available water supply, to the satisfaction of the Secretary.</p>	Compliant	Annual Reviews	Evidence of water supply. From a licensed production bore located approximately 7km east of Narromine, with water transported to the TGO site Raw Water Dam via the Narromine water pipeline.									
22	With the exception of potable water sourced to supply domestic consumption needs on the site, the Proponent shall preferentially employ water harvested from the site or generated through mine dewatering in place of potable water sourced from off-site.	Compliant	Water Management Plan Site Inspection	The site makes efforts to use onsite water. Evidence of water recycling system following gold processing.									
23	<p>Water Discharges</p> <p>The Proponent shall ensure that all surface water discharges from the site comply with:</p> <p>(a) section 120 of the POEO Act, or</p> <p>(b) the discharge limits (both volume and quality) set for the project in any applicable EPL.</p>	Not Triggered	No discharges	Based on site discussions there have been no discharges.									
24	The concentration of Weak Acid Dissociable (WAD) cyanide in tailings discharged from the discharge point to the residue storage facility shall not exceed 20 mg/L (90th percentile) or 30 mg/L (maximum).	Compliant		Evidence of WAD spreadsheet. Results all less than 20mg/L.									
25	<p>Drainage and Flooding</p> <p>The Proponent shall ensure that surface water diversion structures constructed as part of the project do not increase the frequency of flooding on the Newell Highway.</p>	Compliant	Site Inspection	Construction generally as per Water Management Plan.									
26	<p>Compensatory Water Supply</p> <p>The Proponent shall provide a compensatory water supply to any owner on privately-owned land whose water entitlements are adversely impacted (other than an impact that is negligible) as a result of the project, in consultation with DPIE Water, and to the satisfaction of the Secretary.</p> <p>The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributable to the project. Equivalent water supply should be provided (at least on an interim basis) within 24 hours of the loss being identified, unless otherwise agreed with the landowner.</p> <p>If the Proponent and the affected 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.</p> <p>If the Proponent is unable to provide an alternative long-term supply of water, then the Proponent shall provide alternative compensation to the satisfaction of the Secretary.</p> <p>Note: the Water Management Plan prepared in accordance with condition 32 shall describe the procedures for:</p> <ul style="list-style-type: none"> assessing the impacts of the project on water entitlements on privately-owned land; and the provision of compensatory water supply. 	Not Triggered	Site discussions	Based on discussions with the site this had not been triggered.									
27	<p>Water Performance Measures</p> <p>The Proponent shall comply with the performance measures in Table 8 to the satisfaction of the Secretary.</p> <table border="1"> <thead> <tr> <th>Feature</th> <th>Performance Measure</th> </tr> </thead> <tbody> <tr> <td>Water management – General</td> <td>Minimise the use of clean water on site Minimise the need for make-up water from external potable water supplies</td> </tr> <tr> <td>Construction and operation of infrastructure</td> <td>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 – Unsewered Flows.</td> </tr> </tbody> </table>	Feature	Performance Measure	Water management – General	Minimise the use of clean water on site Minimise the need for make-up water from external potable water supplies	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 – Unsewered Flows.						
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27A	<table border="1"> <thead> <tr> <th>Feature</th> <th>Performance Measure</th> </tr> </thead> <tbody> <tr> <td>Clean water diversion & storage infrastructure</td> <td>Design, install and maintain the infrastructure within 40 m of watercourses generally in accordance with the: <ul style="list-style-type: none"> Guidelines for Controlled Activities on Waterfront Land (DPI 2007), or its latest version Guidelines for fish habitat conservation and management – Chapter 4 (DPI 2013), or its latest version. </td> </tr> <tr> <td>Sediment dams</td> <td>Design, install and maintain the dams generally in accordance with the series Managing Urban Stormwater: Soils and Construction – Volume 1 and Volume 2E Mines and Quarries Ensure the capacity of all sediment dams is sufficient to contain rainfall up to a 10 day 90 percentile rain event</td> </tr> <tr> <td>Mine water management system, including residue storage facility and associated collection pond</td> <td> <ul style="list-style-type: none"> No unlicensed or uncontrolled discharge of mine water off-site (except in accordance with condition 23) Ensure that the capacity of the residue storage facility and associated collection pond is designed to meet the requirements of the Environmental Guidelines – Management of Tailings Storage Facilities (Vic DPI, 2004), or its latest version, and that the floor and walls are lined to achieve a permeability standard of at least 1 x 10⁹ m/s, unless otherwise agreed by the EPA and the Secretary Maintain adequate freeboard (i.e. minimum 500 mm) in the residue storage facility at all times All water storages on site that receive chemical or salt laden water, including the dewatering ponds, raw water dams and process water dams are lined to achieve a permeability standard of at least 1 x 10⁹ m/s, unless otherwise agreed by the EPA and the Secretary Maintain adequate freeboard (i.e. minimum 200 mm) in the process water and raw water dams at all times </td> </tr> </tbody> </table>	Feature	Performance Measure	Clean water diversion & storage infrastructure	Design, install and maintain the infrastructure within 40 m of watercourses generally in accordance with the: <ul style="list-style-type: none"> Guidelines for Controlled Activities on Waterfront Land (DPI 2007), or its latest version Guidelines for fish habitat conservation and management – Chapter 4 (DPI 2013), or its latest version. 	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There were minimal erosion and sediment control issues identified. Some minor issues outlined in conditions below.</p> <p>Section 3 of the Surface Water Management Plan includes information about design of water structures. Dams appear to be designed as per Blue Book requirements based on GHD's wording in the Water Management Plan.</p> <p>Based on the information provided and site discussions there were no dirty water discharges during the audit period.</p> <p>The Annual Biodiversity and Rehabilitation Monitoring Reports includes details on channel stability monitoring.</p> <p><u>Non-compliant</u> relating to <u>Chemical and hydrocarbon storage</u>. Older bulky bins which contained chemicals or hydraulic oil remain onsite in unbounded areas. It is noted that any leakage would be contained within the dirty water management system, however this is not best practice. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of any significant hydrocarbon contamination at site a the time of the audit inspection. See later conditions about recommendations for bulky bin management.</p>	<p>NC REC: Water Performance Measures in Schedule 3 Condition 27 should be included in the Water Management Plan.</p>
Feature	Performance Measure												
Clean water diversion & storage infrastructure	Design, install and maintain the infrastructure within 40 m of watercourses generally in accordance with the: <ul style="list-style-type: none"> Guidelines for Controlled Activities on Waterfront Land (DPI 2007), or its latest version Guidelines for fish habitat conservation and management – Chapter 4 (DPI 2013), or its latest version. 												
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Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action																					
27B	<p>Chemical and hydrocarbon storage</p> <p>Chemical and hydrocarbon products to be stored in bundled areas in accordance with the relevant Australian Standards</p> <p>Gundong Creek</p> <p>Maintain or improve baseline channel stability</p> <p>Develop site-specific water quality trigger levels in accordance with ANZECC 2000 and using the ANZECC Guidelines and Water Quality Objectives in NSW procedures (DECC 2006), or its latest version</p>																									
28	Deleted																									
29	Deleted																									
30	Deleted																									
31	<p>Baseline Groundwater Monitoring</p> <p>The Proponent shall obtain at least 6 months of additional baseline groundwater monitoring within 12 months of the project approval. This monitoring shall:</p> <p>(a) be sourced from bores WYMB02, WYMB03, WYMB04, WYMB06 (as shown in Figure 4.19 of the EA), and a new bore in the Gundong Creek alluvium to be established in consultation with DPIE Water; and</p> <p>(b) include a minimum of monthly measurements of standing water level and water quality parameters consistent with those monitored in the EA.</p>	Not Triggered		Outside the Audit period.																						
32	<p>Water Management Plan</p> <p>The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Secretary. This plan must be prepared in consultation with the EPA, DPIE Water and Dams Safety NSW by a suitably qualified and experienced person(s) whose appointment has been approved by the Secretary, and submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise.</p> <p>In addition to the standard requirements for management plans (see Condition 3 of Schedule 5), this plan must include:</p> <p>(a) a Site Water Balance that:</p> <p>(i) includes details of:</p> <ul style="list-style-type: none"> sources and security of water supply; water use on site; water management on site; off-site water discharges, including volume, timing and release point infrastructure requirements; reporting procedures, including comparisons of the site water balance for each calendar year; and describe what measures would be implemented to minimise potable water use on site. 	Administrative Non-Compliance	<p>Water Management Plan</p> <p>Site Inspection</p> <p>Water monitoring results</p>	<p>We understand the most recently approved Water Management Plan is dated November 2017. One other version was sent to DPIE during the IEA period (in March 2020), but they are not approved. We have reviewed the 2017 document.</p> <p><u>Preparation:</u> Document does reference parts of the WMP which fulfill conditions.</p> <p><u>a)</u> i. Section 3 Water Balance, Appendix E Site Water Balance. Table 2.1 Water management features (sources of water supply), Table 3.6 Operational Rules (water management on site), Section 3.7 Licensed Discharge Points, Figure 3.3 Licensed discharge points, & Section 5.6 Off-site discharge (off-site water discharge), Section 5.3 Average annual water balance & Table 5.1 Average annual water balance for TGO (modeling security of water supply and comparisons of site water balance each calendar year). ii. Some brief details of potable water use and use of water onsite. Generally covers requirements.</p> <p><u>Implementation:</u></p> <ul style="list-style-type: none"> Many monitoring commitments relate to discharge. No discharge occurred (based on information provided). Evidence was not provided by the site outlining when 10mm of rainfall was recorded. Section 4.2 of the Water Management Plan requires testing of a series of sediment dams following rainfall exceeding 10 mm in 24 hours. Based on site discussions the surface water monitoring of dams have been pushed out to 25mm (in draft plan), not the 10mm requirement in the currently approved plan. This makes this condition <u>non-compliant</u>. Section 5.4 of the Water Management Plan commits to 'An evaluation of any trends in the monitoring results occurring across the site over the life of the Project'. This is not completed in much detail in the Annual Review, especially for surface water and groundwater monitoring results. This makes this condition <u>non-compliant</u>. There are some details regarding groundwater results (minimal analysis) in Section 7.6 and Appendix 6 of the 2020 Annual Review. Section 8.1 and 8.2 of the Water Management Plan outlines surface water and groundwater management TARP's. Implementation of TARP's are not documented including inspections (pre and post rainfall). This makes this condition <u>non-compliant</u>. Based on results provided there has been no evidence of surface water triggers being exceeded. Evidence of groundwater results in the Annual Review. Limited information on groundwater quality. 	<p>NC REC: Complete all monitoring and inspections as per the requirement of approved Water Management Plan. This needs to occur until the revised Water Management Plan is approved.</p> <p>NC REC: Ensure triggers relating to surface water and groundwater are implemented and actions recorded by TGO.</p> <p>IMP REC: Ensure groundwater quality is discussed in the Annual Reviews.</p> <p>IMP REC: Recommend streamlining and consolidating the Water Management Plan main document and could be streamlined to allow for easier implementation.</p>																					
32A	<p>(b) a Surface Water Management Plan that includes:</p> <p>(i) detailed baseline data on surface water flows and quality in creeks and other waterbodies that could be affected by the project (including Gundong Creek);</p> <p>(ii) a detailed description of the water management system on site, including:</p> <ul style="list-style-type: none"> clean water diversion systems, including the clean water and dirty water separation levee; an erosion and sediment control plan, consistent with the requirements of the Managing Urban Stormwater: Soils and Construction Manual (Landscape 2004, or its latest version); and water storages; <p>(iii) detailed plans, including design objectives and performance criteria, for:</p> <ul style="list-style-type: none"> design and management of the final voids; design and management of water storages including the residue storage facility and process water dams, including demonstrating how the decant water pond within the RSF would be maintained to ensure adequate freeboard for containment of the design rainfall events; and control of any potential water pollution from the rehabilitated areas of the site; <p>(iv) a program to monitor:</p> <ul style="list-style-type: none"> the effectiveness of the water management system; potential leakage or spillage from on-site pipelines surface water flows and quality, stream health and channel stability in Gundong Creek (in so far as it could potentially be affected by the project); <p>(v) a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; and</p> <p>(vi) reporting procedures for the results of the monitoring program; and</p>	Administrative Non-Compliance	<p>Water Management Plan</p> <p>Site Inspection</p> <p>Water monitoring results</p>	<p><u>Preparation</u> Surface Water Management Plan is Appendix C to the Water Management Plan and is dated November 2017.</p> <p><u>b)</u> i. Section 2.2 and Table 5.3 Water quality monitoring results - clean water system to November 2016 (baseline data). ii. Section 3 Water Management System, Section 4 Erosion and Sediment Control, Section 4.4 Controls and Constraints (erosion and sediment control plan), Table 3.1 Water storages (water storage), Section 3.1 Clean Water (clean water diversion system). iii. No design and management for final void in the Surface Water Management Plan. No demonstration of how decant water within the RSF would be maintained to ensure adequate freeboard for containment of the design rainfall event. Section 6.2 Water quality limits (control of potential water pollution). This makes the preparation side of this condition <u>non-compliant</u>. iv. Section 5 Monitoring, Section 5.2 Surface water monitoring, Table 5.1 Surface water monitoring program, Table 5.4 Pollution Concentration Limits. v. Section 4.4 Controls and Constraints, Section 6 Risks and potential impacts. vi. Section 5.2 Surface Water Monitoring.</p> <p><u>Implementation - Records:</u></p> <p>Evidence was not provided by the site outlining when 10mm of rainfall was recorded. Section 4.2 of the Water Management Plan requires testing of a series of sediment dams following rainfall exceeding 10 mm in 24 hours. Based on site discussions the surface water monitoring of dams have been pushed out to 25mm (in draft plan), not the 10mm requirement in the currently approved plan. This makes implementation <u>non-compliant</u>.</p> <p>No evidence of surface water triggers being required (Section 5.2 of Surface Water Management Plan) as these relate to discharge event which did not occur.</p> <p>Data for surface water was provided through a series of monthly reports and spreadsheets, making it difficult to determine if monitoring requirements were fully completed over the IEA period. The selection of results that were reviewed included monitoring parameters as per the Water Management Plan. See earlier recommendation in Schedule 3 Condition 17 about recording data in consolidated spreadsheets. Some other general notes:</p> <ul style="list-style-type: none"> Based on the information provided no surface water TARP has been triggered. No surface water discharges. Surface water monitoring results, including SW1 and 2 when in flow. Upstream and downstream monitoring of Gundong Creek. Note, results are not provided in the Annual Review. Annual Review outlines two areas of riparian woodland revegetation along Gundong Creek (Creek sites). It stated that: <p>In 2018 and 2019, Gundong Creek has only been subjected to a few flows and was dry at the time of monitoring, but this year (2020) heavy flows had recently been experienced, which caused addition instream erosion and undercutting and/or slumping of the steep sided banks.</p> <p><u>Implementation Field Evidence:</u></p> <p>Field evidence suggested no major water management issues. This is excellent considering the long dry period, followed by heavy rains in 2020 and 2021. Some areas of minor erosion noted in the field, however this was generally contained within the dirty water catchment (makes this compliant).</p> <p>The area at the base of the rock structure (WRE3) that runs into DS4 has eroded. See improvement recommendation (note this is not a non-compliance).</p> <p>Evidence of defined clean and dirty water management system.</p>	<p>As per previous recommendations in Schedule 3 Condition 32. Additional recommendations below.</p> <p>NC REC: Ensure there is information on the design and management for final void in the Surface Water Management Plan to cover Part ii of Schedule 3 Condition 32A.</p> <p>NC REC: Implement recommendations from the 2020 TGO Biodiversity and Rehabilitation Monitoring Report in regards to erosion/biodiversity management along Gundong Creek.</p> <p>NC REC: Include surface water monitoring results for SW1 and 2 (creek monitoring locations) in the Annual Review as there is currently little information in the Annual Review regarding surface water management.</p>																					
32B	<p>(c) a Groundwater Management Plan, that includes:</p> <p>(i) detailed baseline data on groundwater levels, yield and quality in the region, and privately-owned groundwater bores, that could be affected by the project;</p> <p>(ii) groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts;</p> <p>(iii) a program to monitor:</p> <ul style="list-style-type: none"> groundwater inflows to the open cut and underground mining operations; the impacts of the project on: alluvial aquifers; and any groundwater bores on privately-owned land that could be affected by the project; <p>(iv) the seepage/leachate from the residue storage facility, water storages, backfilled voids and the final void; and</p> <p>(v) the quality of groundwater to be re-used on the site;</p> <p>(vi) a program for the on-going verification and refinement of the groundwater model, including the review and incorporation of additional baseline data obtained in accordance with condition 31, within 12 months of the project approval; and</p> <p>(vii) a plan to respond to any exceedances of the groundwater assessment criteria; and</p> <p>(viii) should geochemical testing reveal a higher risk of acid rock or saline drainage, the Proponent shall prepare an acid mine drainage strategy in consultation with DPIE Water and to the satisfaction of the Secretary.</p>	Administrative Non-Compliance	<p>Annual Reviews</p> <p>Groundwater Monitoring Results</p>	<p><u>Preparation:</u> Groundwater Management Plan is appendix D to the Water Management Plan and is dated November 2017.</p> <p><u>c)</u> Generally in accordance with the condition. Little information about saline drainage and acid rock strategy. However as plan has been approved by DPIE, the audit team has called this condition compliant.</p> <p><u>i.</u> Section 2.3 Hydrogeology, Figure 2.4 NSW groundwater bore search, and Section 3.1 Groundwater monitoring network (baseline data). <u>ii.</u> Section 3.3 Groundwater trigger values, Section 4 Potential risks. <u>iii.</u> Section 3.2 Monitoring, Table 3.5 Groundwater monitoring parameters and frequency, Section 4 Final Void Management, Appendix D Groundwater quality plots, Appendix B Piper Diagram (groundwater inflows to open cut). <u>iv.</u> See Appendix E Section 5 for water balance and groundwater model. Evidence of new model in audit period. <u>v.</u> Section 3.3 Groundwater trigger values. <u>vi.</u> No saline drainage and acid rock drainage strategy mentioned in the whole Water Management Plan. No mention of geochemical testing.</p> <p><u>Implementation</u></p> <ul style="list-style-type: none"> Evidence of groundwater monitoring for parameters. This is included in the Annual Review. The increase in cyanide level in PWMP2 bore was self reported on 18 July 2019. See Schedule 2 Condition 1 for further details. The reporting occurred due to sustained increase in cyanide levels at the PWMP2 bore. From our understanding PWMP2 bore is an internal bore and does not have groundwater trigger values in the approved Groundwater Management Plan. It is noted that Section 3.3.1 of the Groundwater Management Plan has triggers for depth, but none specifically for groundwater values except for GDCMB01 (EPA 5). <p>It is noted that the groundwater results are presented in a different format (sample depth metres) compared to the Groundwater Triggers within the Groundwater Management Plan (Level m AHD). As these formats were different it was not possible for the site to compare whether groundwater triggers have been reached. Therefore <u>non-compliant</u>.</p> <p>See Schedule 2 Condition 1 for information relating to the PWMP2 issue.</p> <p>There have been a series of reports by GHD investigating the cause and impacts of the increased cyanide levels. The June 2020 Report stated:</p> <p>Previous investigations (GHD 2015) identified elevated cyanide concentrations at monitoring bore PWMP02 in early 2015. The contamination was considered at the time to be likely to be associated with issues of containment of surface water at the rear of the ball mill. However the findings of GHD (2019) indicated the contamination at PWMP02 is from the process water system.</p> <p>Overall, elevated cyanide concentrations appear to be limited to the shallow groundwater around PWMP02.</p>	<p>NC REC: Information relating to geochemical testing should be included in the Water Management Plan.</p> <p>An acid rock and saline drainage strategy should be included in the Water Management Plan. This should be based on a trigger. Section 8.2 (Groundwater Trigger TARP) within the Water Management Plan could be updated.</p> <p>NC REC: Ensure groundwater monitoring data is in the format of that is the same as the trigger levels within the Groundwater Management Plan.</p>																					
BIODIVERSITY																										
33	<p>Biodiversity Offset</p> <p>The Proponent shall implement the offset strategy outlined in Table 9, and shown in Appendix 5, to the satisfaction of the Secretary.</p> <p><u>Table 9: Biodiversity Offset</u></p> <table border="1"> <thead> <tr> <th>Community Type</th> <th>Offset Area to be Conserved (ha)</th> <th>Remnant Extension (Protection and Ameliorative Planting) (ha)</th> </tr> </thead> <tbody> <tr> <td>Inland Grey Box – Poplar Box – White Cypress Pine tall woodland on red loams (Benson 76)</td> <td>21.1</td> <td>21.5</td> </tr> <tr> <td>River Red Gum riverine woodland forest (Benson 78)</td> <td>13.1</td> <td>13.5</td> </tr> <tr> <td>Fuzzy Box – Inland Grey Box on alluvial brown loam soils (Benson 201)</td> <td>5.0</td> <td>26.0</td> </tr> <tr> <td>Poplar Box – Belah woodland on clay alluvial plains (Benson 56)</td> <td>1.9</td> <td>0</td> </tr> <tr> <td>Belah/ Black Oak Western Rosewood, Vitex Community (Benson 57)</td> <td>25.5</td> <td>0</td> </tr> <tr> <td>TOTAL</td> <td>66.6</td> <td>61.0</td> </tr> </tbody> </table>	Community Type	Offset Area to be Conserved (ha)	Remnant Extension (Protection and Ameliorative Planting) (ha)	Inland Grey Box – Poplar Box – White Cypress Pine tall woodland on red loams (Benson 76)	21.1	21.5	River Red Gum riverine woodland forest (Benson 78)	13.1	13.5	Fuzzy Box – Inland Grey Box on alluvial brown loam soils (Benson 201)	5.0	26.0	Poplar Box – Belah woodland on clay alluvial plains (Benson 56)	1.9	0	Belah/ Black Oak Western Rosewood, Vitex Community (Benson 57)	25.5	0	TOTAL	66.6	61.0	Administrative Non-Compliance	<p>Biodiversity Management Plan</p> <p>Biodiversity and Rehabilitation Reports</p> <p>PVP dated 31 May 2015 - no approval sighted by DPIE.</p> <p>Letter from Local Land Services - Central West - re: Registration of PVP (dated 7 May 2015)</p>	<p>Appendix 5 to the 2020 Annual Review (Fauna Monitoring Report - dated December 2019) states that TGO has 127Ha of biodiversity offset areas (BOA) in place, with these areas secured under a Property Vegetation Management Plan (PVP).</p> <p>Evidence of PVP dated 31 May 2015. However because the DPIE are yet to approve the PVP, this is a <u>non-compliance</u>. In the Audit Action Plan within the 2020 Annual Review it stated that TGO has contacted the DPIE seeking written approval of the PVP.</p> <p>Status covered in the Biodiversity Monitoring and Rehabilitation Report. Note the audit team did not visit these areas, hence we are relying on the Biodiversity and Rehabilitation Reports for compliance.</p>	<p>NC REC: Liaison with DPIE to obtain approval for the PVP.</p>
Community Type	Offset Area to be Conserved (ha)	Remnant Extension (Protection and Ameliorative Planting) (ha)																								
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34	By 31 January 2015, the Proponent shall make suitable arrangements to provide appropriate long-term security for the Offset Area in the strategy to the satisfaction of the Secretary.	Not Triggered	Biodiversity Management Plan Biodiversity and Rehabilitation Reports	Status covered in the Biodiversity Monitoring and Rehabilitation Report. The proposed date is outside the Audit period, so we have deemed the requirement to be not triggered.																						
35	Pre-Clearing Surveys Prior to and during vegetation clearing, the Proponent shall engage a suitably qualified and/or experienced ecologist to confirm the presence of nesting/roosting species in areas to be affected by clearing activities.	Not Triggered	Site records and discussions	Based on site discussions no clearance during the IEA period.																						

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action
36	Should any Grey-crowned Babblers be identified on the site, the Proponent shall develop measures to either relocate the birds or protect them and their roosting habitat from disturbance during vegetation clearing and construction works.	Not Triggered	Site records and discussions	No clearing occurred. Updates on these birds are provided in the Biodiversity Monitoring and Rehabilitation Report.	
37	Biodiversity Management Plan The Proponent shall prepare a Biodiversity Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with BCD, and submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise; (b) describe how the implementation of the biodiversity offset strategy would be integrated with the overall rehabilitation of the site; (c) describe the short, medium, and long term measures that would be implemented to: (i) manage the remnant vegetation and habitat on the site and in the offset areas (if and when applicable); and (ii) implement the biodiversity offset strategy (if and when applicable), including detailed performance and completion criteria; (d) include detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy, and triggering remedial action (if necessary); (e) include a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for: (i) enhancing the quality of existing vegetation and fauna habitat; (ii) restoring native vegetation and fauna habitat on the biodiversity areas and rehabilitation area through focusing on assisted natural regeneration, targeted vegetation establishment and the introduction of naturally scarce fauna habitat features (where necessary); (iii) maximising the salvage of resources within the approved disturbance area - including vegetative, soil and cultural heritage resources - for beneficial reuse in the enhancement of the biodiversity areas or rehabilitation area; (iv) collecting and propagating seed; (v) minimising the impacts on fauna on site, including pre-clearance surveys and minimising the potential exposure to tailings; (vi) controlling weeds and feral pests; (vii) controlling erosion; (viii) managing grazing and agriculture on site; (ix) controlling access; and (x) bushfire management; (f) include a seasonally-based program to monitor and report on the effectiveness of these measures, and progress against the detailed performance and completion criteria; (g) identify the potential risks to the successful implementation of the biodiversity offset strategy, and include a description of the contingency measures that would be implemented to mitigate against these risks; and (h) include details of who would be responsible for monitoring, reviewing, and implementing the plan.	Compliant	Biodiversity Management Plan 2018-2020 Biodiversity and Rehabilitation Monitoring Report (DnA Environmental) Fauna Monitoring Report (Area Environmental Consultants and Communication December 2019)	Preparation Current Biodiversity Management Plan is dated January 2017. The previous Audit had recommendations relating to this plan (mostly minor). It is noted that the Biodiversity Management Plan has been updated (as per 2020 Annual Review Audit Action Plan) and is with DPIE for review and approval. IEMA has been reviewing the approved 2017 management plan. <i>Document does not include cross referencing table.</i> a) Section 4 Consultation (consultation with Office of Environment and Heritage, and LLS). No feedback, however. Consultation will be required for any future updates. b) Section 5 Objectives and Targets, and Section 6 Biodiversity Offset Strategy (describes integration of strategy with overall rehab of the site). c) Section 6.2 Management of the Biodiversity Offset Area and Section 11 Biodiversity Management Performance Criteria and Response Plan (includes short-term, medium-term, and long-term). Criteria is included, but could be developed further to be more quantitative. d) Section 6.3 Biodiversity Offset Vegetation, Table 4 Vegetation community quality benchmarks (performance and completion criteria). Table 7 Biodiversity offset risk management strategy and trigger action response plan (remedial actions within "contingency"). The performance criteria are completion criteria. e) i. Section 7 Flora Management. ii. Section 6.3.3 Habitat Integrity iii. Section 6.3.1 Vegetation Community Descriptions and Benchmarks. There is some information about salvage of materials (timber and topsoil), but this should be expanded. iv. Section 9.2 Weed Management and Section 9.3 Management of Vertebrate Pests. v. Section 8 Fauna Management vi. Section 7 Flora Management vii. Table 7 Biodiversity offset risk management strategy and trigger action response plan, Table 10 short-term outcomes (references sediment and soil control plan and includes a succinct description of controlling erosion). viii. Section 9.4 Managing Grazing and Agriculture. ix. Section 9.1 Controlling Access x. Section 9.5 Fire Management f) Section 10 - Biodiversity Monitoring Program. g) Section 6.5. h) Section 12. Implementation • Evidence of weed management through site records and inspection. • There has been no clearing activities which removes some commitments during the audit period. • The 2019 Biodiversity Monitoring Report outlined that the survey indicated there is still moderate diversity in the fauna within the mine site which is on par with previous assessments.	IMP REC: Ensure the Biodiversity Management Plan includes a cross referencing table. Section 3 mentions the conditions of consent, but not where they are covered. IMP REC: Figures to be updated and made clear (currently blurry). IMP REC: Further information should be included about the salvage of resources within the approved disturbance area. IMP REC: Ensure the Biodiversity and Rehabilitation Monitoring Report includes more defined recommendations. Currently recommendations are generally mixed in within general discussion points.
38	Conservation Bond Within three months of the approval of the Biodiversity Management Plan, the Proponent shall lodge a conservation bond with the Department to ensure that the biodiversity offset is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan. The sum of the bond shall cover the full cost of implementing the Biodiversity Offset Strategy and be verified by a suitably qualified rehabilitation specialist or quantity surveyor. If the biodiversity offset is implemented to the satisfaction of the Secretary, the Secretary will release the conservation bond. If the offset strategy is not implemented to the satisfaction of the Secretary, the Secretary will call in all or part of the conservation bond, and arrange for the satisfactory implementation of the biodiversity offset. If the offset strategy is not completed generally in accordance with the completion criteria in the Biodiversity Management Plan, the Secretary will call in all or part of the conservation bond, and arrange for the satisfactory completion of the relevant works. With the agreement of the Secretary, this bond may be combined with the rehabilitation security deposit administered by RR.	Compliant	Conservation Bond Letter 20 June 2014	Complied with in previous IEA. No change in IEA period.	
HERITAGE					
39	Heritage Management Plan The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared by a suitably qualified and experienced person(s) whose appointment has been endorsed by the Secretary; (b) be prepared in consultation with BCD and the Aboriginal stakeholders (in relation to the management of Aboriginal heritage values); (c) be submitted to the Secretary for approval by the end of January 2013, unless the Secretary agrees otherwise; (d) include the following for the management of Aboriginal heritage: (i) a description of the measures that would be implemented for: • protecting, monitoring and/or managing heritage items on site; • implementing proposed archaeological investigations and/or salvage measures for heritage items on site; • managing the discovery of any human remains or previously unidentified Aboriginal objects on site; • maintaining and managing reasonable access for Aboriginal stakeholders to heritage items on site; • on-going consultation with the Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage on site; and • ensuring workers on-site receive suitable heritage inductions prior to carrying out works on the site, and that suitable records are kept of these inductions; (ii) a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term.	Administrative Non-Compliance	ACHMP Site Discussions - no clearing Annual Review Field inspection	Preparation Plan is currently dated September 2016 and not updated after the last IEA. a) Section 3.1 Legislative Framework and Appendix 2 Consultation with NSW OEH and Endorsement by the Director General. b) Section 3.2 Aboriginal Stakeholder Consultation. Section 5 Community Consultation. c) NT, but completed prior to the period. d) i. Section 7 Management of the Aboriginal Heritage Items and Section 8 Management of Non-Aboriginal Heritage Items. Section 10 Monitoring. Section 7.3.3 General Management Measures / Unidentified Finds Protocol. Section 5.3 Access to Heritage Items. Section 5 Community Consultation. ii. Section 7 Management of Aboriginal Heritage Items. e) i. Section 10 Monitoring. Section 7.3.3 General Management Measures / Unidentified Finds Protocol. Section 16 Competence Training and Awareness. ii. Section 7 Management of Aboriginal Heritage Items. However there is no mention of longterm storage and management. This makes this condition non-compliant. Note this was also picked up in the previous Pitt and Sherry IEA report with the recommendation of "It is recommended that the Heritage Management Plan is revised to include a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term". Implementation • No clearing. • Ongoing management of scar trees. Areas are signed and some are fenced where required. • No additional consultation required. • Register of heritage items and management.	NC REC: Ensure the Heritage Management Plan is revised to include a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term. Implementation of strategy and reporting in the Annual Review. NC REC: The next review of the ACHMP should update the status of 'proposed controls' as many of these have been completed. Eg. Fencing, signage.
TRANSPORT					
40	Dangerous Goods Transportation of all dangerous goods to or from the site shall be undertaken in strict accordance with Australian Code for the Transport of Dangerous Goods by Road and Rail.	Compliant	Hazardous Materials Management Plan. Records kept for chemicals delivered.	Covered in Hazardous Materials Management Plan. Licensed contractors. Records kept for chemicals delivered.	
41	Road Upgrades By 31 March 2014, the Proponent shall upgrade Tomingley West Road between the intersection with Narromine-Tomingley Road and the intersection with the mine access road, to the satisfaction of Council.	Not Triggered	N/A	Outside the Audit period.	
42	Access Road Construction By 31 March 2014, the Proponent shall construct the site access road intersection with Tomingley West Road in accordance with the requirements of Council.	Not Triggered	N/A	Outside the Audit period.	
43	Operating Conditions The Proponent shall ensure that heavy vehicle movements associated with mining operations do not exceed 8 per day (4 in and 4 out), when measured as a daily average over any calendar month.	Administrative Non-Compliance	Site records and discussions	Information was not provided to ensure compliance with this condition. Records of vehicles entering and exiting the site is provided but it is not separated by heavy vehicle vs other vehicles. Therefore non-compliant.	NC REC: Ensure a log is kept for heavy vehicles to ensure compliance with Schedule 3 Condition 43. We recommend recording this information in a spreadsheet for easy tracking and assessment.
44	Traffic Management Plan The Proponent shall prepare and implement a Traffic Management Plan to the satisfaction of the Secretary. The plan shall: (a) focus on traffic management along Tomingley West Road and through the village of Tomingley to minimise the potential for conflicts between project-related traffic and other road users; (b) describe the measures to be implemented to ensure the effective operation of the intersections between the project site and the Newell Highway, including the site access road and Tomingley West Road intersection and the Tomingley-Narromine Road and Newell Highway intersection; and (c) be developed in consultation with Council and TINSW, and must be submitted for the approval of the Secretary prior to the commencement of construction.	Administrative Non-Compliance	Site records and discussions	Preparation Most recent approved management plan is dated September 2016. a) Section 4 Management Measures, sections 4.1-4.4 in particular. b) Section 4 Management Measures, sections 4.1-4.4 in particular. c) Section 1.5 Consultation. Implementation • This is a fairly simple plan and generally covers the requirements. However there is no easy way to determine truck volume recording under Schedule 3 Condition 44. Section 4 of the Traffic Management Plan commits to the Project Approval requirement of "TGO will ensure that heavy vehicle movements associated with mining operations do not exceed 8 per day (4 in and 4 out) when measured as a daily average over any calendar month". Non-compliance for recording. • No specific mention of traffic counts. • There is no evidence of exceeding truck count numbers, but the lack of easy recording makes this condition non-compliant.	
VISUAL					
45	Operating Conditions The Proponent shall: (a) implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the project; (b) establish and maintain an effective vegetation screen and vegetated amenity bund consistent with the documents in condition 2 of schedule 2; (c) ensure no outdoor lights shine above the horizontal; and (d) ensure that all external lighting associated with project complies with Australian Standard AS4282 (INT) 1995 - Control of Obtrusive Effects of Outdoor Lighting, to the satisfaction of the Secretary.	Compliant	Complaints log Inspection	• Evidence of visual screening. No lighting complaints during IEA period. • Lighting covered by waste dump. • Minimal lighting at night. • No rehabilitation activities in exposed areas at night.	

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action												
46	<p>Additional Visual Mitigation Measures</p> <p>Upon receiving a written request from the owner of any residence on privately-owned land which has, or would have, significant direct views of the project operations, the Proponent shall implement visual mitigation measures (such as landscaping treatments or vegetation screens) on the land in consultation with the landowner. These measures must be reasonable and feasible, and directed toward minimising the visibility of the project operations from the affected residence.</p> <p>If within three months of receiving this request from the landowner, the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.</p>	Not Triggered	N/A	None in IEA period.													
HAZARDOUS MATERIALS																	
47	<p>Final Hazard Analysis</p> <p>The Proponent shall prepare a Final Hazard Analysis (FHA) for the project to the satisfaction of the Secretary, in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis.</p> <p><i>Note: If the project design is no different from that assessed in the Preliminary Hazard Analysis (PHA), then the Secretary will accept the PHA as the FHA.</i></p>	Compliant	HMMP Risk Assessment Proposed LOX by Sherpa Consulting 2014	Older requirement, previously completed in 2014.													
48	<p>Hazardous Materials Management Plan</p> <p>The Proponent shall prepare and implement a Hazardous Materials Management Plan for the project to the satisfaction of the Secretary. The plan must:</p> <p>(a) be prepared in consultation with relevant government agencies including Council, TNSW, EPA, DPIE Water, WorkCover NSW and MEG;</p> <p>(b) be consistent with the International Cyanide Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold;</p> <p>(c) be submitted to the Secretary for approval prior to commencing mining operations;</p> <p>(d) describe the measures that would be implemented to:</p> <p>(i) ensure sodium cyanide and other toxic chemicals are stored and handled on the site in accordance with AS/NZ 4452 – The Storage and Handling of Toxic Substances; and</p> <p>(ii) ensure the transportation of hazardous materials to or from the site is undertaken in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 11 – Route Selection and the Australian Code for the Transport of Dangerous Goods by Road and Rail – current version, or its latest version; and</p> <p>(e) detail the emergency procedures for the Project consistent with the Department's Hazardous Industry Planning Advisory Paper No. 1 – Emergency Planning.</p>	Compliant	HMMP Site inspection and records	<p>Preparation:</p> <p>Document dated November 2018.</p> <p>a) Section 3.3 Consultation council, RMS, EPA, DPIE Water, Workcover,, DRE.</p> <p>b) Section 3.4 International Cyanide Management Code.</p> <p>c) NT</p> <p>d) Section 5 Hazardous Materials On Site (detailed storage and transport).</p> <p>i. Section 4.3 Storage.</p> <p>ii. Section 4.2 Transport.</p> <p>e) Section 4.4.3 Emergency Response</p> <p>Implementation:</p> <ul style="list-style-type: none"> The issue relating to cyanide leakage occurred in 2015 in the previous IEA. No other issues determined during this period through a review of site records. See information in Schedule 2 Condition 1 regarding the cause of the issue. After Chris Jones from IEMA liaised with Josh Loxley at the EPA, it has been determined that this was a historical issue, with the site completing monitoring and reporting to assess any impacts. See earlier recommendations about implementing actions in consultation with the EWPA. 													
WASTE																	
49	<p>The Proponent shall:</p> <p>(a) minimise the waste generated by the project;</p> <p>(b) ensure that the waste generated by the project is appropriately stored, handled and disposed of; and</p> <p>(c) manage on-site sewage treatment disposal in accordance with the requirements of Council, to the satisfaction of the Secretary</p>	Non-Compliant (Low Risk)	Waste receipts Field inspection.	<p>a) Waste appears to be minimised.</p> <p>b) Storage of hydrocarbons is an issue and outlined in 'Areas of Improvement' heading.</p> <p>c) Approved by Council. Aerated treatment system.</p> <p>Field evidence of waste management.</p> <p>Evidence of waste receipts.</p> <p>No information about waste management in the Annual Review.</p> <p>Areas of good management included:</p> <ul style="list-style-type: none"> Use of bins for waste; Site labelling; and Spill kits. <p>Areas of improvements included:</p> <ul style="list-style-type: none"> Older bulky bins which contaminated chemicals or hydraulic oil remain onsite in unbanded areas. It is noted that any leakage would be contained within the dirty water management system. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of hydrocarbon contamination at site. The site is non-compliant with implementing part b) of this condition (ensure that the waste generated by the project is appropriately stored, handled and disposed of). 	<p>NC REC: Remove the older bulky bins at site that contain hydrocarbons.</p> <p>NC REC: Where it is required that bulky bins are to remain onsite for a period of time they should be installed in an eastern bund. This bund will need to be constructed. It is noted the bund would be within the sites dirty water catchment.</p> <p>NC REC: Details on waste management are included in the Annual Review.</p>												
REHABILITATION																	
50	Within three years of the date of this approval, the Proponent shall investigate the feasibility of filling the Wyoming Three open cut pit void as part of the rehabilitation of the site, in consultation with RR.	Compliant	Approval letter from 29/7/2016 - MOP from 2016	Older condition. Filling the Wyoming Three open cut pit void as part of the rehabilitation of the site has been identified in the Second MOP - Amendment 2. Approval of this MOP from Resources Regulator on 29/7/16 was sighted.													
51	<p>Rehabilitation Objectives</p> <p>The Proponent shall rehabilitate the site in accordance with the conditions imposed on the mining lease(s) associated with the Project under the Mining Act 1992. This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the EA (as reproduced in Appendix 6), and must comply with the objectives in Table 10.</p>	Not Triggered	MOP Biodiversity and Rehabilitation Monitoring Reports by DNA Environmental - TGO Biodiversity and Rehabilitation Monitoring Report Resources Regulator (TAP) -dated 14 April 2021 Site Inspection	<p>These are longer-term rehabilitation objectives. The Biodiversity and Rehabilitation Monitoring Report assess against the criteria from the MOP.</p> <p>Not yet triggered as operations are ongoing.</p> <p>IEMA was provided with some documentation from the Resources Regulator (TAP) -dated 14 April 2021 looking into tailings and rehabilitation management. It should be noted that these are directions, not specifically identifying gaps in implementation of documentation.</p>	<p>IMP REC: Liaise with the Resources Regulator about implementing the TAP for tailings and rehabilitation.</p> <p>IMP REC: Implement rehabilitation recommendations from the Biodiversity and Rehabilitation Monitoring Reports by DNA Environmental.</p>												
51A	<p>Table 10: Rehabilitation Objectives</p> <table border="1"> <thead> <tr> <th>Feature</th> <th>Objective</th> </tr> </thead> <tbody> <tr> <td>Mine site (as a whole) including final voids</td> <td> <ul style="list-style-type: none"> Safe, stable and non-polluting Final land use compatible with surrounding land uses. Final landforms designed to consider micro-relief, natural drainage lines and minimise visual prominence by integration with the surrounding landscape. Restore self-sustaining ecosystems, including establishing local native plant species. Minimise visual impact of final landforms as far as is reasonable and feasible. </td> </tr> <tr> <td>Final voids</td> <td> <ul style="list-style-type: none"> Negligible instability risk Minimise the size and depth of the final voids as far as is reasonable and feasible Minimise the drainage catchment of the final voids as far as is reasonable and feasible </td> </tr> <tr> <td>Tailings Storage Facilities</td> <td> <ul style="list-style-type: none"> Tailings are contained within a structure that adequately mitigates risk of tailings and associated contaminants being released to the environment. Structural integrity and final landform stability meeting industry accepted engineering guidelines for tailings facilities closure </td> </tr> <tr> <td>Surface infrastructure</td> <td>To be decommissioned and removed, unless the RR agrees otherwise</td> </tr> <tr> <td>Community</td> <td>Minimise the adverse socio-economic effects associated with mine closure</td> </tr> </tbody> </table> <p>Notes:</p> <ul style="list-style-type: none"> These rehabilitation objectives apply to all environmental consequences caused by mining taking place after the date of this approval, and to all surface infrastructure sites and other disturbance which forms part of the project, whether constructed prior to or following the date of this approval. Rehabilitation of environmental impacts and consequences caused by mining which took place prior to the date of this approval may be subject to the requirements of other consents (e.g. under a mining lease). 	Feature	Objective	Mine site (as a whole) including final voids	<ul style="list-style-type: none"> Safe, stable and non-polluting Final land use compatible with surrounding land uses. Final landforms designed to consider micro-relief, natural drainage lines and minimise visual prominence by integration with the surrounding landscape. Restore self-sustaining ecosystems, including establishing local native plant species. Minimise visual impact of final landforms as far as is reasonable and feasible. 	Final voids	<ul style="list-style-type: none"> Negligible instability risk Minimise the size and depth of the final voids as far as is reasonable and feasible Minimise the drainage catchment of the final voids as far as is reasonable and feasible 	Tailings Storage Facilities	<ul style="list-style-type: none"> Tailings are contained within a structure that adequately mitigates risk of tailings and associated contaminants being released to the environment. Structural integrity and final landform stability meeting industry accepted engineering guidelines for tailings facilities closure 	Surface infrastructure	To be decommissioned and removed, unless the RR agrees otherwise	Community	Minimise the adverse socio-economic effects associated with mine closure	Not Triggered	MOP Biodiversity and Rehabilitation Monitoring Reports by DNA Environmental - TGO Biodiversity and Rehabilitation Monitoring Report Resources Regulator (TAP) -dated 14 April 2021 Site Inspection	<p>Progressive rehabilitation is ongoing. There has been an increase in the groundcover since the rains in 2020. Evidence of monitoring report. Some of the areas required under the Resources Regulator (TAP) -dated 14 April 2021, include:</p> <ul style="list-style-type: none"> Updated Rehabilitation Risk Assessment; Waste characterisation; Records relating to tailings construction and capping; Surface water construction - WRE's; Landform construction records; and Instability of highwall batters in the Wyoming 1 pit void and the Caloma 2 pit void. <p>Rehabilitation sighted in the field. Generally good quality with groundcover and minimal erosion in most areas which is a large improvement on previous years during drought conditions.</p> <p>The DNA Environmental - 2020 TGO Biodiversity and Rehabilitation Monitoring Report outlines the following in regards to rehabilitation:</p> <p>The pasture rehabilitation areas on the Noise Bund, WRE2 and WRE3 including the new rehabilitation area, WRE3-2, were overall relatively stable areas with high functional areas and were largely comprised of exotic annual plants and dead leaf litter. In sites WRE2-1 and WRE3-2 there was a small proportion of perennial ground cover plants and these were comparable to the pasture reference sites this year. The soil continued to be low in organic matter, phosphorus and nitrates in the rehabilitation areas. This year there has been a further reduction in EC and ESP in all three older pasture rehabilitation sites, with both EC and ESP now within acceptable levels. The soils were however moderately alkaline in WRE3-01. In the two new areas of rehabilitation on WRE2 and WRE3 most soils characteristics were close to or within acceptable levels except that they were slightly to moderately saline.</p> <p>Minor rilling has previously been recorded on the Noise Bund during its early establishment stages and was likely to have been exacerbated by downward indentation of machinery tracks. Extensive establishment of ground cover plants and litter have presently stabilised the large rill at this site, however large rills such as this would require more permanent amelioration measures.</p>	
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52	<p>Progressive Rehabilitation</p> <p>The Proponent shall carry out rehabilitation of the site progressively, that is, as soon as reasonably practicable after disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies shall be employed when areas prone to dust generation cannot yet be permanently rehabilitated.</p> <p><i>Note: It is accepted that some parts of the site that are progressively rehabilitated may be subject to further disturbance at some later stage of the project.</i></p>	Compliant	MOP Biodiversity and Rehabilitation Monitoring Reports by DNA Environmental - TGO Biodiversity and Rehabilitation Monitoring Report Resources Regulator (TAP) -dated 14 April 2021 Site Inspection	<p>Progressive rehabilitation is ongoing. There has been an increase in the groundcover since the rains in 2020. Evidence of monitoring report. Some of the areas required under the Resources Regulator (TAP) -dated 14 April 2021, include:</p> <ul style="list-style-type: none"> Updated Rehabilitation Risk Assessment; Waste characterisation; Records relating to tailings construction and capping; Surface water construction - WRE's; Landform construction records; and Instability of highwall batters in the Wyoming 1 pit void and the Caloma 2 pit void. <p>Rehabilitation sighted in the field. Generally good quality with groundcover and minimal erosion in most areas which is a large improvement on previous years during drought conditions.</p> <p>The DNA Environmental - 2020 TGO Biodiversity and Rehabilitation Monitoring Report outlines the following in regards to rehabilitation:</p> <p>The pasture rehabilitation areas on the Noise Bund, WRE2 and WRE3 including the new rehabilitation area, WRE3-2, were overall relatively stable areas with high functional areas and were largely comprised of exotic annual plants and dead leaf litter. In sites WRE2-1 and WRE3-2 there was a small proportion of perennial ground cover plants and these were comparable to the pasture reference sites this year. The soil continued to be low in organic matter, phosphorus and nitrates in the rehabilitation areas. This year there has been a further reduction in EC and ESP in all three older pasture rehabilitation sites, with both EC and ESP now within acceptable levels. The soils were however moderately alkaline in WRE3-01. In the two new areas of rehabilitation on WRE2 and WRE3 most soils characteristics were close to or within acceptable levels except that they were slightly to moderately saline.</p> <p>Minor rilling has previously been recorded on the Noise Bund during its early establishment stages and was likely to have been exacerbated by downward indentation of machinery tracks. Extensive establishment of ground cover plants and litter have presently stabilised the large rill at this site, however large rills such as this would require more permanent amelioration measures.</p>													

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action
53	<p>Rehabilitation Management Plan</p> <p>53. The Proponent shall prepare and implement a Rehabilitation Management Plan for the project, in accordance with the conditions imposed on the mining lease(s) associated with the project under the Mining Act 1992. This plan must:</p> <p>(a) be prepared in consultation with the Department, BCD, EPA, DPIE Water and Council;</p> <p>(b) be submitted within 3 months of any modification to the conditions of this approval to the RR, unless the Secretary agrees otherwise;</p> <p>(c) be prepared in accordance with any relevant RR guideline and be consistent with the rehabilitation objectives of the project and in Table 10;</p> <p>(d) describe how the performance of the rehabilitation would be monitored and assessed against the objectives in condition 51;</p> <p>(e) describe how the rehabilitation of the site would be integrated with the implementation of the biodiversity offset strategy;</p> <p>(f) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);</p> <p>(g) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval, and address all aspects of rehabilitation including mine closure, final landform, and final land use;</p> <p>(h) include a program to monitor, independently audit and report on the effectiveness of the measures, and progress against the detailed performance and completion criteria;</p> <p>(i) build, to the maximum extent practicable, on the other management plans required under this approval;</p> <p>(j) include a risk assessment of any potential threats to rehabilitation of disturbed areas to a condition that can support the intended final land use, including a strategy to address risks identified;</p> <p>(k) include consideration of options for backfilling the Coloma Two void; and</p> <p>(l) provide for detailed mine closure planning, including measures to minimise socio-economic effects due to mine closure, to be conducted prior to the site being placed on care and maintenance.</p> <p>Notes:</p> <ul style="list-style-type: none"> The approved Mining Operations Plan may satisfy the requirements of this condition for a Rehabilitation Management Plan. The Rehabilitation Management Plan should address all land impacted by the project. 	Compliant	MOP Biodiversity and Rehabilitation Monitoring Reports by DNA Environmental - TGO Biodiversity and Rehabilitation Monitoring Report Resources Regulator (TAP) -dated 14 April 2021 Site Inspection	<p>Preparation:</p> <p>(Rehabilitation Management Plan inside of the Mining Operations Plan). Most recent version of the MOP Amendment Dated July 2020 and covers period from 1 October 2017 to 30 September 2021.</p> <p>a) Section 1.5.2 Government Agency Consultation.</p> <p>b) NT</p> <p>c) <i>Not sure what the RR guideline is.</i></p> <p>d) Section 5.3 Rehabilitation Phases. Table 17 Measurement of Rehabilitation Performance.</p> <p>e) Table 13 Rehabilitation Objectives and Targets. Table 15 Rehabilitation Domain Objectives. Table 16 Summary of Rehabilitation Phases Proposed for Completion at the end of the MOP term.</p> <p>f) Section 6 Performance Indicators, Measures, and Relinquishment Criteria. Section 9 Intervention and Adaptive Management.</p> <p>g) Section 7 Rehabilitation Implementation.</p> <p>h) Section 6 Performance Indicators, Measures, and Relinquishment Criteria. Section 8.1 Rehabilitation Monitoring.</p> <p>i) Section 7 Rehabilitation Implementation (<i>builds on Biodiversity Management Plan</i>).</p> <p>j) Table 24 Analysis of Rehabilitation Threats. Table 25 Trigger Action Response Plan.</p> <p>k) Section 7.2.8 Domain 6 - Open Cut Voids. There still is not much information in the RMP regarding backfilling of Coloma Two void. Further details are required.</p> <p>l) Table 13 Rehabilitation Objectives and Targets (<i>very brief reference to socio-economic</i>).</p> <p>Implementation:</p> <ul style="list-style-type: none"> Rehabilitation sighted in the field. Generally good quality with groundcover and minimal erosion in most areas which is a large improvement on previous years during drought conditions. Based on site discussions no clearing or rehabilitation completed in the IEA period. Evidence of monitoring in the Biodiversity and Rehabilitation Monitoring Report. This includes details on soil testing. Evidence of weed management in rehabilitation areas. There are some annual weeds, however there is evidence of good grass cover in large areas of the site. <p>Although there hasn't been any rehabilitation in the IEA period, there is limited information on what was completed in previous rehabilitation areas. eg. soil testing, landform shaping, ameliorants used, seed mix used and rates. This was also picked up by the Resources Regulator in the TAP.</p>	<p>IMP REC: It is recommended that the RMP includes reference to the consultation that took place in considering the option to backfill the Coloma Two void. There still is not much information in the current MOP regarding backfilling of Coloma Two void. This is to cover Schedule 2 Condition 53k.</p> <p>IMP REC: The DNA Environmental - TGO Biodiversity and Rehabilitation Monitoring Report need to have a more defined conclusion and recommendations section. Recommendations are mixed within this section and should be separated out and given specific recommendation ID numbers.</p> <p>The conclusion should also be separated into biodiversity areas and rehabilitation areas as they are managed differently.</p> <p>IMP REC: For future rehabilitation ensure better records are kept as to what activities were completed. This would include details such as soil testing, landform shaping, ameliorants used, seed mix used and rates. This 'validation' process is a new requirement of the Resources Regulators Rehabilitation Reforms.</p>
SCHEDULE 4 ADDITIONAL PROCEDURES					
NOTIFICATION OF LANDOWNERS					
1	<p>Within 1 month of the date of approval, the Proponent shall notify in writing</p> <p>(a) the owner of land listed in Table 1 of schedule 3 that they have the right to require the Proponent to acquire their land at any stage during the project; and</p> <p>(b) the owners of receivers R3 and R20 that they have the right to request the Proponent to ask for additional noise mitigation measures to be installed at their residence at any stage during the project.</p>	Not Triggered		Based on site discussions this has not been triggered.	
2	<p>Within two weeks of obtaining monitoring results showing:</p> <p>(c) an exceedance of any relevant noise criteria in Schedule 3, the Proponent shall notify affected landowners and/or tenants in writing of the exceedance, and provide regular monitoring results to each of these affected parties until the project is again complying with the relevant criteria; and</p> <p>(d) an exceedance of any relevant air quality criteria in Schedule 3, the Proponent shall send the affected landowners and/or tenants a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time).</p>	Not Triggered		Based on site discussions this has not been triggered.	
INDEPENDENT REVIEW					
3	<p>If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the project on his/her land.</p> <p>If the Secretary is satisfied that an independent review is warranted, then within two months of the Secretary's decision the Proponent shall:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:</p> <p>(i) consult with the landowner to determine his/ her concerns;</p> <p>(ii) conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and</p> <p>(iii) if the project is not complying with these criteria then identify measures that could be implemented to ensure compliance with the relevant criteria.</p> <p>(b) give the Secretary and landowner a copy of the independent review.</p>	Not Triggered		Based on site discussions this has not been triggered.	
4	<p>If the independent review determines that the project is complying with the relevant criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the Secretary.</p>	Not Triggered		Based on site discussions this has not been triggered.	
5	<p>If the independent review determines that the project is not complying with the relevant criteria in Schedule 3, then the Proponent shall:</p> <p>(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until the project complies with the relevant criteria; or</p> <p>(b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Secretary.</p>	Not Triggered		Based on site discussions this has not been triggered.	
LAND ACQUISITION					
6	<p>Within 3 months of receiving a written request from a landowner with acquisition rights, the Proponent shall make a binding written offer to the landowner based on:</p> <p>(a) the current market value of the landowner's interest in the land at the date of this written request, as if the land was unaffected by the project, having regard to the:</p> <ul style="list-style-type: none"> existing and permissible use of the land, in accordance with 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; <p>(b) the reasonable costs associated with:</p> <ul style="list-style-type: none"> relocating within the Narramine 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 <p>(c) reasonable compensation for any disturbance caused by the land acquisition process.</p> <p>However, if at the end of this period, the Proponent and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Secretary for resolution.</p> <p>Upon receiving such a request, the Secretary will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:</p> <ul style="list-style-type: none"> 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. 	Not Triggered		Based on site discussions this has not been triggered.	
6A	<p>Within 14 days of receiving the independent valuer's report, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.</p> <p>However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the Secretary for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the Secretary will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report of the party that disputes the independent valuer's determination and any other relevant submissions.</p> <p>Within 14 days of this determination, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the Secretary's determination.</p> <p>If the landowner refuses to accept the Proponent's binding written offer under this condition within 6 months of the offer being made, then the Proponent's obligations to acquire the land shall cease, unless the Secretary determines otherwise.</p>	Not Triggered		Based on site discussions this has not been triggered.	
7	<p>The Proponent shall pay all reasonable costs associated with the land acquisition process described in condition 6 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.</p>	Not Triggered		Based on site discussions this has not been triggered.	
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING					
ENVIRONMENTAL MANAGEMENT					

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action
1	<p>Environmental Management Strategy</p> <p>1. The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:</p> <p>(a) be submitted for approval to the Secretary prior to construction;</p> <p>(b) provide the strategic framework for the environmental management of the project;</p> <p>(c) identify the statutory approvals that apply to the project;</p> <p>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</p> <p>(e) describe the procedures that would be implemented to:</p> <p>(i) keep the local community and relevant agencies informed about the operation and environmental performance of the project;</p> <p>(ii) receive, handle, respond to, and record complaints;</p> <p>(iii) resolve any disputes that may arise during the course of the project;</p> <p>(iv) respond to any non-compliance;</p> <p>(v) respond to emergencies; and</p> <p>(f) include:</p> <p>(i) copies of any strategies, plans and programs approved under the conditions of this approval; and</p> <p>(ii) a clear plan depicting all the monitoring required to be carried out under the conditions of this approval.</p>	Administrative Non-Compliance	Incident records Site communications. Annual Review	<p>Preparation: EMS document dated December 2017. Note, no cross referencing table in the EMS. a) older condition. Covered in prior audit. It is noted that an approval letter was dated 29 October 2012 b) All sections c) Section 5 d) Section 15 e) Parts i to iv are included. There is no information regarding emergency response (part v). This was picked up in the previous audit, but the EMS has not been updated. Therefore <u>non-compliant</u>.</p> <p>Implementation:</p> <ul style="list-style-type: none"> Evidence of incident investigation No complaints Sighted induction video. 	The recommendation from the previous Audit is still required. NC REC: It is recommended that the EMS is revised to include a section on 'Emergency Response' procedures or reference the Emergency Management Plan and where to locate it.
2	<p>Adaptive Management</p> <p>The Proponent shall assess and manage project-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 approval and may be subject to penalty or offence provisions under the EP&AA Act or EP&AA Regulation.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Proponent shall, at the earliest opportunity:</p> <p>(a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;</p> <p>(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</p> <p>(c) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.</p>	Administrative Non-Compliance	'Internal Environmental Dust Investigation for September and October 2019' - dated 19/11/2019. Site communications. Annual Review	There have been dust exceedances of short term criteria which were outlined in earlier conditions. Some generic details are included in Annual Reviews of extraordinary dust events. No evidence of assessment of dust investigations for all elevated dust levels above short term criteria. Noting evidence was provided for one month being 'Internal Environmental Dust Investigation for September and October 2019' - dated 19/11/2019.	NC REC: The site should keep improved internal records of short term PM10 exceedances. If any investigation determines a non-compliance with criteria then this should be reported to DPIE.
3	<p>Management Plan Requirements</p> <p>3. The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <p>(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);</p> <p>(ii) any relevant limits or performance measures/criteria;</p> <p>(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;</p> <p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(d) a program to monitor and report on the:</p> <p>(i) impacts and environmental performance of the project;</p> <p>(ii) effectiveness of any management measures (see c above);</p> <p>(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;</p> <p>(f) a protocol for managing and reporting any:</p> <p>(i) incidents;</p> <p>(ii) complaints;</p> <p>(iii) non-compliances with statutory requirements; and</p> <p>(iv) exceedances of the impact assessment criteria and/or performance criteria; and</p> <p>(g) a protocol for periodic review of the plan.</p> <p>Note: The Secretary may waive some of these requirements if they are unnecessary for particular management plans.</p>	Administrative Non-Compliance	Management Plans	<p>Most of management plans cover these requirements. It is noted that management plans do not include cross referencing tables.</p> <p>Most management plans contain little information relating to baseline information. Management plans do contain some information about contingency response but the format and level of actions differ between plans. Therefore this condition has been classified as <u>non-compliant</u>.</p>	<p>NC REC: All Management Plans should include cross referencing tables outlining where the key statutory conditions have been covered. This relates to specific management plan conditions as well as the 'All Management Plan conditions'.</p> <p>NC REC: All management plans should cover the requirements of Schedule 5 Condition 3. This includes baseline information and contingency measures. Contingency measures should generally be a consistent layout between plans and include a Trigger Action Response Plan in a traffic light system eg. green, amber and red triggers and subsequent responses.</p>
4	<p>Annual Review</p> <p>4. By the end of March each year following the commencement of construction, the Proponent shall review the environmental performance of the project to the satisfaction of the Secretary. This review must:</p> <p>(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;</p> <p>(b) include a comprehensive review of the monitoring results and complaints records of the project over the past calendar year, which includes a comparison of these results against the:</p> <p>(i) the relevant statutory requirements, limits or performance measures/criteria;</p> <p>(ii) requirements of any plan or program required under this approval;</p> <p>(iii) the monitoring results of previous years; and</p> <p>(iv) the relevant predictions in the EA;</p> <p>(c) identify any non-compliance over the past year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>(d) identify any trends in the monitoring data over the life of the project;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</p> <p>(f) describe what measures will be implemented over the next year to improve the environmental performance of the project.</p>	Compliant		<p>See 2018, 19 and 2020 Annual Reviews. Approved by DPIE.</p> <p>Parts a, b, c, e and f are generally covered in Annual Reviews.</p> <p>d) Limited evidence identifying trends in monitoring data and comparison to previous years. This includes the surface water section which could be improved. Some raw data eg. depositional dust and TSP have not been provided.</p>	IMP REC: Additional detail needs to be provided in future Annual Reviews regarding longer term data trends.
5	<p>Revision of Strategies, Plans and Programs</p> <p>5. Within three months of:</p> <p>(a) the submission of an annual review under condition 4 above;</p> <p>(b) the submission of a non-compliance or incident notification under conditions 7 or 7A below;</p> <p>(c) the submission of an audit under condition 8 below; or</p> <p>(d) any modification to the conditions of this approval (unless the conditions require otherwise),</p> <p>the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.</p> <p>With the agreement of the Secretary, the Proponent may prepare any revised strategy, plan or program without undertaking consultation with all parties under the applicable conditions of this consent.</p> <p>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</p>	Administrative Non-Compliance	Copies of Management Plans Previous Audit	<p>Some management plans required updating following the 2018 IEA.</p> <p>Also some management plans have not been updated since MOD 2.</p> <p>The only management plan submitted to DPIE during the IEA period was the Biodiversity Management Plan (March 2021). The Water Management Plan has been reviewed and updated, but not yet submitted. It will be submitted as part of the management plans for MOD 5.</p> <p>The 2018 IEA had recommendations relating to updating the following management plans:</p> <ul style="list-style-type: none"> Noise Management Plan - include consultation in future plan; Water Management Plan - include consultation and details of design criteria for final voids; Biodiversity Management Plan - detailed criteria (note this has now been included). Plus other recommendations. Heritage Management Plan - to be revised to include a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term. RMP - it is recommended that the MOP includes reference to the consultation that took place in considering the option to backfill the Coloma Two void. <p>Also it was recommended from the previous auditor that under Schedule 5 Condition 3 - the relevant Management Plans such as the AQGHGMP, BLMP and NMP should be modified to include specific actions to manage any unpredicted impacts and their consequences (contingency measures).</p> <p>As some of these plans were not updated and resubmitted this audit period, this condition is <u>non-compliant</u>.</p>	NC REC: Ensure management plans are updated as per the requirements of Schedule 5 Condition 5. Management Plans should be updated if they are identified by the auditor and actions are included in TGO's Audit Action Plan.
6	<p>Community Consultative Committee</p> <p>The Proponent shall establish and operate a Community Consultative Committee (CCC) for the project in general accordance with the Community Consultative Committee (CCC) Guidelines for State Significant Projects (NSW Government, 2019, or its latest version), and to the satisfaction of the Secretary. This CCC must be operating within three months of the commencement of construction.</p> <p>Notes:</p> <ul style="list-style-type: none"> The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval, and In accordance with the guideline, the Committee should be comprised of an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community. 	Compliant	CCC minutes	<p>Evidence of CCC minutes.</p> <p>Established system for reporting to CCC. There have been fewer meetings in 2020 due to COVID 19.</p>	
COMPLIANCE					
7	<p>Incident Notification</p> <p>The Proponent must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing and identify the development (including the development application number and name) and set out the location and nature of the incident.</p>	Compliant	Incident Reports	<p>Evidence of incident reporting with details included in Schedule 2 Condition 1. Meets this requirement.</p> <p>It is noted that the 2015 incident relating to cyanide did not occur during the IEA period.</p>	
7A	<p>Non-Compliance Notification</p> <p>Within seven days of becoming aware of a non-compliance, the Proponent must notify the Department of the non-compliance. The notification must be in writing and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.</p> <p>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</p>	Compliant	Incident Reports	Evidence of incident reporting with details included in Schedule 2 Condition 1. Meets this requirement.	
7B	<p>Compliance Reporting</p> <p>The Proponent must provide regular compliance reporting to the Department on the development in accordance with the relevant Compliance Reporting requirements (DPE 2018), or its latest version.</p>	Compliant	Website	Compliance reporting on the website.	
INDEPENDENT ENVIRONMENTAL AUDIT					
8	<p>One year after mining operations commence, and every three years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. The audit must:</p> <p>(a) be prepared in accordance with the relevant Independent Audit Post Approval requirements (DPE 2018);</p> <p>(b) be led and conducted by a suitably qualified, experienced and independent team of experts, and any other fields experts specified by the Secretary, whose appointment has been endorsed by the Secretary;</p> <p>(c) be carried out in consultation with the relevant agencies;</p> <p>(d) assess whether the project complies with the relevant requirements in this approval, and any strategy, plan or program required under this approval; and</p> <p>(e) recommend appropriate measures or actions to improve the environmental performance of the project and any strategy, plan or program required under this approval.</p>	Compliant	Previous Audit - Pitt and Sherry 2018	Previous audit from 2018 was completed by Pitt and Sherry. It covered requirements a-e. Evidence of endorsement of IEA team. Audit report is a good quality document.	

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action								
9	<p>Within 3 months of commencing an Independent Environmental Audit, or unless otherwise agreed by the Secretary, a copy of the audit report must be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations.</p> <p>The recommendations of the Independent Environmental Audit must be implemented to the satisfaction of the Secretary.</p>	Administrative Non-Compliance	Previous Audit - Pitt and Sherry 2018	Previous audit report is dated 27 August 2018. The site visit occurred on 8 March 2018. No evidence of an extension to submission of audit report that was submitted to DPIE. Therefore <u>not compliant</u> for three month timing of submission of audit report.									
ACCESS TO INFORMATION													
10	<p>Prior to the commencement of construction on the site, or within 1 month of the submission of the relevant documents, the Proponent shall:</p> <p>(a) make copies of the following publicly available on its website:</p> <p>(i) the documents referred to in condition 2 of Schedule 2;</p> <p>(ii) all relevant statutory approvals for the project;</p> <p>(iii) all approved strategies, plans and programs required under the conditions of this approval;</p> <p>(iv) a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any approved plans or programs required under the conditions of this or any other approval;</p> <p>(v) a complaints register, which is to be updated on a monthly basis;</p> <p>(vi) minutes of CCC meetings;</p> <p>(vii) the annual reviews required under this approval;</p> <p>(viii) any independent environmental audit of the project, and the Proponent's response to the recommendations in any audit;</p> <p>(ix) any other matter required by the Secretary; and</p> <p>(b) keep this information up-to-date, to the satisfaction of the Secretary.</p>	Compliant		<p>The CCC minutes are not on the website.</p> <p>Management Plans, EIS and Annual Reviews are on the website.</p> <p>The most recent environmental monitoring reports are dated in July 2021.</p>									
APPENDIX 3: PLANNING AGREEMENT GENERAL TERMS													
1	<table border="1"> <tr> <td colspan="2">Contributions to Council until December 2022 for:</td> </tr> <tr> <td>Community Fund</td> <td>\$53,750/annum</td> </tr> <tr> <td>Road Maintenance (except for Tomingley West Road)</td> <td>\$45,000/annum</td> </tr> <tr> <td>Provision of Council Environmental Management Expertise</td> <td>\$20,000/annum</td> </tr> </table>	Contributions to Council until December 2022 for:		Community Fund	\$53,750/annum	Road Maintenance (except for Tomingley West Road)	\$45,000/annum	Provision of Council Environmental Management Expertise	\$20,000/annum	Compliant	Contributions	Sighted contribution from planning agreement in TGO accounts management system. Every six months.	
Contributions to Council until December 2022 for:													
Community Fund	\$53,750/annum												
Road Maintenance (except for Tomingley West Road)	\$45,000/annum												
Provision of Council Environmental Management Expertise	\$20,000/annum												
2	Upgrade and maintenance of Tomingley West Road as per plans approved by Council	Compliant	Site discussions	Council complete it using TGO contributions.									
3	Transfer ownership of the water supply pipeline, 300 mm production bore, pumps, bore power supply and potentially a portion of the bore extraction licence to Council (subject to Council's concurrence) when no longer required by the project.	Not Triggered	N/A	Still required. Not triggered									
4	Contribute between \$30,000 and \$50,000 for a Water Supply Options Study.	Compliant	Previous IEA	Previously completed.									
5	Provide water to Tomingley village sufficient to meet its supply needs until the end of the mine's life.	Compliant	Site Discussions Water balance	Records illustrate TGO provides water.									

Statement of Commitments

SCHEDULE 1

Application Number: 09_0155

Proponent: Alkane Resources Ltd

Approval Authority: Minister for Planning and Infrastructure

Land: See Appendix 1

Condition Number	DESIRED OUTCOME	ACTION	TIMING	Compliance Status	Source of Evidence	Finding	Recommended Action
1	ENVIRONMENTAL MANAGEMENT						
	Compliance with all conditional requirements in all approvals, licences and leases.	1.1 Comply with all commitments recorded in Table 5.1 (this table).	Continuous and as required	Administrative Non-Compliance	Approvals and management plans	Not all commitments completed. Therefore non-compliant. No action. This is a very difficult condition to meet.	
		1.2 Comply with all conditional requirements included in the: <ul style="list-style-type: none"> PA 09_0155; EPL 20169; ML 1684; and Groundwater licences. 	Ongoing	Compliant			
		1.3 Implement the following management plans: <ul style="list-style-type: none"> Mining Operations Plan (Rehabilitation Management Plan) Cultural Heritage Management Plan Water Management Plan Noise Management Plan Blast Management Plan Air Quality and Greenhouse Gas Management Plan Biodiversity Management Plan Traffic Management Plan Hazardous Materials Management Plan Pollution Incident Response Management Plan 	Ongoing	Compliant		Generally plans have been implemented.	
	Compile relevant environmental data for publication	1.4 Prepare monthly environmental management reports and upload to the Mine website.	Monthly	Compliant	Website Reports	Evidence provided on website reports.	
		1.5 Incorporate relevant environmental data / information in Annual Environmental Management Reports	Annual	Compliant	Annual Review	Evidence of Annual Reviews.	
2	AREAS OF ACTIVITIES						
	All approved activities are undertaken generally in the location(s) nominated on the figures shown in Sections 2 and 4.	2.1 Mark, and where appropriate, survey the boundaries of the areas of proposed disturbance on the Mine Site.	Prior to the commencement of the relevant activity	Not Triggered	Site discussions and Annual Review	There was no clearing in the IEA period.	
		2.2 Mark, and where appropriate fence, boundaries relevant to the biodiversity offset strategy.	Within 6 months of approval of the biodiversity offset strategy	Compliant		There was no clearing in the IEA period. Fences were not viewed in the offset area, but no means to determine a non-compliance.	
3	OPERATING HOURS						
	All operations are undertaken within the approved operating hours.	3.1 Undertake all activities, where practicable, in accordance with the operating hours approved by PA 09_0155.	Continuous and as required	Compliant		No evidence of any non-compliance.	
4	NOISE						
	Noise generated by operational activities does not exceed intrusiveness criteria nor significantly impacts on neighbouring landowners and/or residents.	4.1 Construct and maintain an acoustic and amenity bund at the northern end of the Mine Site in accordance with PA 09_0155 MOD 2.	Complete	Compliant	Noise Management Plan Annual Review	Bund constructed and maintained.	
		4.2 Implement noise mitigation and management measures in accordance with an approved Noise Management Plan (NMP).	Ongoing	Compliant	Noise Management Plan Annual Review	Generally completed. Controls outlined in Management Plan and Annual Review.	
	Noise generated by the Project is monitored and procedures developed and implemented to respond to ensure compliance is maintained.	4.3 Undertake noise monitoring in accordance with an approved NMP.	As defined within the NMP	Compliant	Noise results Annual Review	Monitoring as per management plan	
		4.4 Implement procedures for response to real-time monitoring results.	As required on receipt of notification	Administrative Non-Compliance	Real time system	Non-compliant as per Schedule 3 Condition 5 and 6. There are monthly reports completed by MAC which outlines the real time noise results. This summarises MAC's post analysis of noise events. However there is minimal evidence of real time assessment of noise triggers on site. Records should be kept for responding to triggers at the time of the trigger. It is noted that there are actions required for real time noise assessment in Section 5.3 of the Noise Management Plan. We have deemed the site non-compliant for implementing the real time noise monitoring system. Records need to be kept for responding to all real time noise exceedances.	As per recommendation from Schedule 3 Condition 6. NC REC: Ensure there are improved records keeping for changes made at site relating to real time noise information and triggers. If there is a trigger, then actions and responses need to be recorded and kept at site.
		4.5 Complete annual noise compliance monitoring	Annual	Compliant	Noise results Annual Review	Monitoring as per management plan. Monitoring completely monthly by specialist.	
	Noise complaints are recorded and addressed in an appropriate manner	4.6 Ensure that a 24-hour complaints telephone line is maintained and that the surrounding community is made aware of the number. If noise-related complaints are received.	Prior to the commencement of activities on the Mine Site	Compliant	Complaints line	Complaints line online and contact details on the front gate.	
		4.7 Ensure that prompt action is taken to identify the nature of any complaint received and verify the relevant noise levels using the real-time noise monitoring equipment.	Within 24 hours of receipt of complaint	Compliant	Complaints records, Annual Review	No complaints during the IEA period regarding noise.	
5	SURFACE WATER						
	Effective management of the potential contamination and/or reduction in availability of surface water resources.	5.1 Construct and maintain surface water management infrastructure of the Mine in accordance with an approved Water Management Plan (WMP).	Ongoing	Compliant	Water Management Plan	Water management generally as per the Water Management Plan.	
		5.2 Implement impact mitigation measures in accordance with an approved WMP.	As defined by WMP	Compliant	Water Management Plan	Water management generally as per the Water Management Plan.	

Condition Number	DESIRED OUTCOME	ACTION	TIMING	Compliance Status	Source of Evidence	Finding	Recommended Action
		5.3 Undertake surface water monitoring in accordance an approved WMP	As defined by WMP	Compliant	Water Management Plan Water Monitoring	Many monitoring commitments relate to discharge. No discharge occurred. Evidence was not provided by the site outlining when 10mm of rainfall was recorded. This is not specifically monitoring and is an inspection requirement.	See Water Management Plan recommendations.
	Design and construct surface water management structures to prevent the discharge of contaminated (hydrocarbon, cyanide, trace metals etc.) water from the Mine Site	5.4 Ensure that all fuel and reagent storage, delivery and handling areas are appropriately sealed and banded and that overflow pipes are installed in a manner that would minimise the potential for pollution in the event of overflowing.	Ongoing	Non-Compliant (Low Risk)	Field inspection	Fuel storage areas banded as its a self banded diesel tank. However spills can still occur during the process of refuelling, which does not occur within bunds. No evidence of overflow pipes during inspection. Areas are not sealed and banded. Note, Earth drain can handle leakages from refuelling with liquids to remain onsite if there are incidents.	NC REC: Complete a full review of the refuelling infrastructure and procedure to ensure that refuelling is completed within banded areas and there are appropriate controls to manage a spill.
		5.5 Securely store all hydrocarbon and chemical products.	Ongoing	Non-Compliant (Low Risk)	Field inspection	This is non - compliant. Older bulky bind which contaminated chemicals or hydraulic oil remain onsite i unbanded areas. It is noted that any leakage would be contained within the dirty water management system. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of hydrocarbon contamination at site.	As per S3 C49 (Project Approval) recommendations.
		5.6 Ensure all hydrocarbon and chemical storage tanks are either self-banded tanks or banded with an impermeable surface and a capacity to contain a minimum 110% of the largest storage tank capacity.	Ongoing	Compliant	Field inspection	The audit team has called this compliant as there was no evidence of full chemical or hydrocarbon storage containers not being stored within bunds.	
		5.7 Refuel all equipment within designated areas of the Mine Site, where practicable.	Ongoing	Compliant	Field inspection	Fuel storage areas banded as its a self banded diesel tank. See earlier commitment 5.4 about refuelling. Spills can still occur during the process of refuelling, which does not occur within bunds. No evidence of overflow pipes.	
		5.8 Undertake all maintenance works involving hydrocarbons, where practicable, within designated areas of the Mine Site such as the maintenance workshop.	Ongoing	Compliant	Field inspection	Workshop sighted.	
		5.9 Direct all water from wash-down areas and workshops to oil/water separators and containment systems.	Ongoing	Compliant	Water Management Plan Field Inspection	There is no oil/water separator onsite. However there is a closed dirty water system. Therefore we have called this compliant.	
		5.10 Construct the RSF in accordance with design specifications and have QA/QC assessment completed.	During site establishment phase (prior to commencement of mining)	Compliant	Water Management Plan Field Inspection	Completed prior to the IEA period. Inspections are completed. Appears to be constructed as per the Water Management Plan.	
		5.11 Line the RSF and Raw Water Dam with compacted clay to achieve a permeability of 1 x 10-9m/s or less.		Compliant	Water Management Plan Field Inspection		
		5.12 Provide for design specific freeboard within the RSF and Raw Water Dam to prevent overtopping.		Compliant	Water Management Plan Field Inspection		
6	GROUNDWATER						
	Effective management of water dewatered from the open cuts	6.1 Remove water accumulating in the open cuts, transfer to Dewatering Dams and use preferentially for dust suppression activities.	Ongoing	Compliant	Water Management Plan Field Inspection	Water is pumped to sediment dams	
	Effective management of the potential contamination and/or reduction in availability of groundwater resources.	6.2 Implement impact mitigation measures in accordance with an approved Water Management Plan (WMP).	As defined by the Water Management Plan	Compliant	Water Management Plan Field Inspection	Generally completed. Note, issue that occurred relating to cyanide first started in 2015, hence it was outside this audit period.	
		6.3 Undertake the groundwater monitoring in accordance an approved WMP.		Compliant	Water Management Plan Groundwater results	It appears that groundwater results are as per the Water Management Plan. No evidence of checking or implementing the TARP from the Water Management Plan (covered under different condition).	
	Ensure the availability of groundwater to surrounding users is maintained.	6.4 Implement additional assessment, land owner notification and contingency or compensatory measures in accordance with an approved Site Water Management Plan.	As defined by the Water Management Plan	Not Triggered	Water Management Plan Site Records	No evidence this was triggered.	
7	BIODIVERSITY						
	Avoid, minimise, mitigate or offset impacts (in that hierarchical order) on native vegetation (including the two identified EECs), native fauna (including threatened species) and their habitat.	7.1 Locate the Mine Site activities and infrastructure so as to avoid the majority of remnant native vegetation. Restrict disturbance of remnant native vegetation to (approximately): • 2.7ha (of 36.9ha) of Inland Grey Box – Poplar Box – White Cypress Pine tall woodland on red loams; • 0.9ha (of 30.9ha) of Fuzzy Box – inland Grey Box on alluvial brown loam soils; and • 18.8ha (of 70.3ha) of Belah / Black Oak Western Rosewood Wilga woodland.	Ongoing	Compliant	Biodiversity Management Plan Annual Review	Clearing not in this IEA period.	
		7.2 Implement the impact avoidance, minimisation mitigation and offset measures of an approved Biodiversity Offset Strategy and Biodiversity Management Plan (BMP) for the Mine in consultation with the OEH and DPE	Ongoing	Compliant	Biodiversity Management Plan Annual Review		
	Offset residual impacts on native flora and fauna.	7.3 Implement the Conservation Property Vegetation Plan, as agreed and signed between TGO and Local Land Services – Central West.	In perpetuity	Compliant	Letter from Local Land Services - Cental West - re: Registration of PVP (dated 7 May 2015)	Evidence of letter from Local Land Services Central West. Evidence of implementation in the PVP Part 1 Tab.	
	Rehabilitate disturbed areas to create a final landform that maintains or improves biodiversity values of the Project Site.	7.4 Complete rehabilitation in accordance with an approved Rehabilitation Management Plan (RMP) or Mining Operations Plan (MOP).	Ongoing	Compliant	Biodiversity Management Plan Annual Review	Evidence of rehabilitation monitoring in the Biodiversity and Rehabilitation Monitoring Report. Evidence of assessment against the MOP criteria.	
8	ABORIGINAL HERITAGE						
	Maintain Aboriginal heritage values on site.	8.1 Implement the Cultural Heritage Management Plan for the Mine in consultation with OEH and DPE	Ongoing	Compliant	Cultural Heritage Management Plan Site Discussions	Plan implemented.	
	Maintain Aboriginal heritage values on site.	8.2 In the event the disturbance footprint changes, ensure that appropriate consultation and field survey is undertaken to confirm no sites or objects of Aboriginal heritage significance are impacted.	If the disturbance footprint changes	Not Triggered	Cultural Heritage Management Plan Site Discussions	Not triggered	
		8.3 Ensure work in an area is suspended should any Aboriginal sites be uncovered. The OEH Western Regional Archaeologist (Dubbo Office) and local Aboriginal community will be contacted to discuss how to proceed.	If a previously unidentified object or Aboriginal site is uncovered.	Not Triggered	Cultural Heritage Management Plan Site Discussions	Not triggered	
9	NON ABORIGINAL HERITAGE						
	Site activities are undertaken to minimise impacts on non-Aboriginal heritage items.	9.1 Implement the Cultural Heritage Management Plan for the Mine in consultation with OEH and DPE.		Compliant	Cultural Heritage Management Plan Site Discussions	Plan implemented. As no clearing completed no consultation has undertaken during the IEA period.	
10	VISUAL AMENITY						

Condition Number	DESIRED OUTCOME	ACTION	TIMING	Compliance Status	Source of Evidence	Finding	Recommended Action
	Limit the visibility of operational areas from nearby residences and the Newell Highway.	10.1 Maintain vegetated amenity bunds in the following locations. • Adjacent to the eastern and western boundary of the Newell Highway. • To the north of the Caloma Open Cut. • To the south of the Wyoming One Open Cut. • to the north of Waste Rock Emplacement 2.	Ongoing	Compliant	MOP Field Inspection	Field inspection notes the vegetated bunds. No visual complaints.	
		10.2 Construct and progressively rehabilitate the Waste Rock Emplacements in accordance with an approved MOP (or Rehabilitation Management Plan).	Continuous for the life of the Project	Compliant	MOP Field Inspection	This is ongoing. Emplacements so far appear to have been completed as per the MOP.	
		10.3 Place and operate lighting on the Mine Site that: • are not directed towards, and therefore do not impact on the vision of motorists using, the Newell Highway; • do not point towards surrounding residences; and • minimise the 'loom' created by the lights.	Continuous for the life of the Project	Compliant	Evidence of inspections and management of visual screen (if completed) Evidence of lighting audits (if completed)	• Evidence of visual screening. No lighting complaints during IEA period. • Lighting covered by waste dump. • Minimal lighting at night.	
		10.4 Provide for additional visual screening in response to reasonable and feasible request from surrounding land holders.	As required	Not Triggered			
		10.5 Maintain the Mine Site in a clean and tidy condition at all times.	Continuous for the life of the Project	Compliant	Site inspection	Site was mostly tidy	
		10.6 Implement commitments related to air emissions management.		Compliant		Emissions are monitored and reported through NGRS and NPI	
11	AIR QUALITY						
	Minimise impacts to air quality relating to the Project.	11.1 Undertake all surface disturbance, mining, processing, transportation and other air emissions activities in accordance with an approved Air Quality and Greenhouse Gas Management Plan (AQGHGMP) for the Mine.	Ongoing	Compliant	AQMP	Evidence of air quality controls in field. No disturbance in IEA period.	
		11.2 Undertake air quality monitoring in accordance with an approved AQGHGMP for the Mine.	As defined within the AQGHGMP	Compliant	AQMP Monitoring results	Monitoring generally as per the AQMP. There were some issues in regards to responding to real time monitoring triggers, but that is not specifically covered by this condition.	
12	BLASTING AND VIBRATION						
	Minimise impacts from blasting on surrounding receptors and infrastructure.	12.1 Undertake blasting in accordance with an approved Blast Management Plan (BMP).	Ongoing	Compliant	Blast Management Plan Blast monitoring results	Blasting as per the Blast Management Plan	
		12.2 Ensure that all blasts are designed by a suitably qualified and experienced blasting engineer or shot- firer.	Continuous for the life of the Project	Compliant		Evidence of blast designs	
13	TRAFFIC AND TRANSPORTATION						
	Achieve safe and efficient transport operations.	13.1 Undertake all transport operations in accordance with an approved Traffic Management Plan (BMP).	Ongoing	Administrative Non-Compliance	Traffic Management Plan	No monitoring of heavy vehicles. There is no easy way to determine truck volume recording under Schedule 3 Condition 44. Section 4 of the Traffic Management Plan commits to the Project Approval requirement of "TGO will ensure that heavy vehicle movements associated with mining operations do not exceed 8 per day (4 in and 4 out) when measured as a daily average over any calendar month". Non - compliance.	As per Schedule 3 Condition 43. NC REC: Ensure a log is kept for heavy vehicles to ensure compliance with Schedule 3 Condition 43.
		13.2 Enforce a Code of Conduct for all drivers for all heavy vehicles that travel to and from the Mine Site regularly. The Code of Conduct will stipulate safe driving practices must be maintained at all times.	During site establishment operations	Administrative Non-Compliance	Traffic Management Plan	No evidence of any code of conduct for heavy vehicles.	NC REC: • Including the Code of Conduct for all drivers of all heavy vehicles. • Attaching as appendix to the Traffic Management Plan • Complete training for drivers.
		13.3 Investigate immediately any complaints received and substantiated incidents acted on decisively, which could include the banning the offending driver(s) from the Mine Site.	Continuous during the life of the Project	Not Triggered	Complaints log	No evidence of complaints	
		13.4 Prepare an individual Traffic Control Plan for each over mass and over weight delivery.	As required	Compliant	Permits	Completed by workshop. To legally bring an overweight load onsite permits are required. Permit evidence.	
14	SOILS AND LAND CAPABILITY						
	Maintenance of soil value for rehabilitation and minimisation of soil loss through erosion	14.1 Strip soil material as nominated within an approved MOP.	Ongoing	Not Triggered	Site records	No stripping during IEA period.	
	Create a final landform that is safe, stable and is amenable to the nominated land use(s).	14.2 Undertake final landform construction and rehabilitation in accordance with an approved RMP or MOP.	Ongoing	Not Triggered	RMP Site Records	This ongoing as no final landform yet. Although it appears to be generally completed as per the MOP.	
15	WASTE						
	Manage waste appropriately on the Mine Site.	15.1 Maintain a register of the types and quantities of wastes produced on the Mine Site.	Ongoing	Compliant	Waste register	Evidence of waste register and breakdown of types.	
		15.2 Design and maintain storage areas to contain spillages.	Ongoing	Non-Compliant (Low Risk)	Site Inspection Waste register	Areas of good management included: • Use of bins for waste; • Site labelling; and • Spill kits. Areas of improvements included: • Older bulky bins which contaminated chemicals or hydraulic oil remain onsite in unbunded areas. It is noted that any leakage would be contained within the dirty water management system. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of hydrocarbon contamination at site however the site is <u>non-compliant</u> for storing hydrocarbons.	As per S3 C49 (Project Approval) recommendations.
		15.3 Segregate and retain recyclable and non-recyclable waste in designated storage areas prior to removal from the Project Site.	Ongoing	Compliant	Site Inspection Waste register	Evidence of waste segregation.	
		15.4 Keep the Project Site in a clean and tidy condition.	Ongoing	Compliant	Site Inspection Waste register	Mostly clean and tidy.	
		15.5 Ensure waste is regularly removed from the Project Site by a licensed contractor.	Ongoing	Compliant	Site Inspection Waste register	Generally removed with the exception of the bulky bins. However condition has been called compliant.	
16	SOCIO ECONOMIC SETTING						
	Maximise the positive impacts and minimise any actual or perceived adverse impacts on the social fabric or facilities available to the community surrounding the Mine Site.	16.1 Engage the community surrounding the Project in regular dialogue in relation to the proposed and ongoing operation of the Project and maintain an "open door" policy for any member of the community who wishes to discuss any aspect of the Project.	Ongoing	Compliant	CCC Annual Review	Excellent community relations through CCC, community activities. No complaints. Regular consultation with community. Community programs.	
		16.2 Proactively and regularly consult with those residents most likely to be adversely impacted by the Project.	Ongoing	Compliant	CCC Annual Review	Excellent community relations through CCC, community activities. No complaints. Regular consultation with community. Community programs.	

Condition Number	DESIRED OUTCOME	ACTION	TIMING	Compliance Status	Source of Evidence	Finding	Recommended Action
		16.3 Continue to support community organisations, groups and events, as appropriate and review any request by a community organisation for support or assistance throughout the life of the Project.	Ongoing	Compliant	CCC Annual Review	Excellent community relations through CCC, community activities. No complaints. Regular consultation with community. Community programs.	
		16.4 Advertise and maintain a community complaints telephone line.	Continuous for the life of the Project	Compliant	Web page	On webpage and sign out the front.	
		16.5 Make available excess water from the water supply bores and pipeline to Narromine Shire Council for supply to the residents of Tomingley.	As feasible	Compliant	Site Discussions	Based on site discussions this is completed. Water is supplied for the town via TGO's water supplies.	
		16.6 Ensure that infrastructure and services installed for the Project, including the water supply bores and pipeline, electricity transmission line, appropriate buildings and hardstand areas, remain available for alternative uses following completion of the Project, provided that such uses are consistent with the final land uses identified in this document or any subsequent approval.	post-mining	Not Triggered	Site Discussions	Not triggered.	
17	CONSULTATION						
	Maintain ongoing consultation with the local community and Council.	17.1 Maintain a Community Consultative Committee (CCC), including representative members of the community and Narromine Shire Council.		Compliant	CCC	CCC is maintained.	
		17.2 Regularly brief the CCC on activities within the Mine Site and seek feedback in relation to Project-related impacts whether real or perceived.		Compliant	CCC	CCC is maintained. See minutes.	
		17.3 Maintain an environmental complaints line and register of complaints in accordance with the requirements of the Environment Protection Licence, once issued.		Compliant	Complaints line	No complaints.	
		17.4 Respond promptly to any issue of concern or complaint raised by the community or a government agency.		Compliant	Correspondence	Evidence of general correspondence with community and government.	

ENVIRONMENT PROTECTION LICENCE - Licence 20169

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Actions												
ADMINISTRATIVE CONDITIONS																	
What the licence authorises and regulates																	
A1.1	<p>This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2.</p> <p>There are Initial site works: Establishment of the processing plant, tailings storage facility and ancillary infrastructure including water pipeline, internal roads, offices and workshops. stages to the scheduled development works of which the following stages are authorised by this licence: Construction of access road around caloma 2 pit, construction of drains and drain re-alignment and construction of Sediment Basin 4 and 7 (SP4 and SP7) to north of Caloma Central Drain (GR 614691, 6393621). Refer Trim: DOC16/377995.</p>	Noted	N/A														
A1.2	<p>This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.</p> <p>Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.</p> <table border="1"> <thead> <tr> <th>Scheduled Activity</th> <th>Fee Based Activity</th> <th>Scale</th> </tr> </thead> <tbody> <tr> <td>Crushing, grinding or separating</td> <td>Crushing, grinding or separating</td> <td>> 500000 - 2000000 T annual processing capacity</td> </tr> <tr> <td>Mineral processing</td> <td>Mineral processing</td> <td>> 500000 - 2000000 T annual processing capacity</td> </tr> <tr> <td>Mining for minerals</td> <td>Mining for minerals</td> <td>> 500000 - 2000000 T annual production capacity</td> </tr> </tbody> </table>	Scheduled Activity	Fee Based Activity	Scale	Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity	Mineral processing	Mineral processing	> 500000 - 2000000 T annual processing capacity	Mining for minerals	Mining for minerals	> 500000 - 2000000 T annual production capacity	Compliant	Annual Review	Within scale.	
Scheduled Activity	Fee Based Activity	Scale															
Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity															
Mineral processing	Mineral processing	> 500000 - 2000000 T annual processing capacity															
Mining for minerals	Mining for minerals	> 500000 - 2000000 T annual production capacity															
Premises or plant to which this licence applies																	
A2.1	<p>The licence applies to the following premises:</p> <table border="1"> <thead> <tr> <th>Premises Details</th> </tr> </thead> <tbody> <tr> <td>TOMINGLEY GOLD MINE</td> </tr> <tr> <td>TOMINGLEY WEST ROAD</td> </tr> <tr> <td>TOMINGLEY</td> </tr> <tr> <td>NSW 2869</td> </tr> <tr> <td>PART LOT 1 DP 254193, LOT 103 DP 755110, LOT 104 DP 755110, LOT 105 DP 755110, LOT 112 DP 755110, PART LOT 122 DP 755110, LOT 160 DP 755110, LOT 161 DP 755110, LOT 162 DP 755110, LOT 163 DP 755110, LOT 1 DP 1151198, PART LOT 2 DP 1151198, PART LOT 3 DP 1151198</td> </tr> </tbody> </table>	Premises Details	TOMINGLEY GOLD MINE	TOMINGLEY WEST ROAD	TOMINGLEY	NSW 2869	PART LOT 1 DP 254193, LOT 103 DP 755110, LOT 104 DP 755110, LOT 105 DP 755110, LOT 112 DP 755110, PART LOT 122 DP 755110, LOT 160 DP 755110, LOT 161 DP 755110, LOT 162 DP 755110, LOT 163 DP 755110, LOT 1 DP 1151198, PART LOT 2 DP 1151198, PART LOT 3 DP 1151198	Noted	N/A								
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Information supplied to the EPA																	
A3.1	<p>Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.</p> <p>In this condition the reference to "the licence application" includes a reference to: a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	Noted	N/A														
DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND																	
Location of monitoring/discharge points and areas																	
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Air																	
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P1.2	<p>The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.</p>	Noted	N/A														

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P1.3	<p>The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.</p> <p style="text-align: center;"><i>Water and land</i></p> <table border="1"> <thead> <tr> <th>EPA Identification no.</th> <th>Type of Monitoring Point</th> <th>Type of Discharge Point</th> <th>Location Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Discharge and monitoring to tailing storage facility.</td> <td>Discharge and monitoring to tailing storage facility.</td> <td>Located South of the Process and Raw water dams, as shown on Map titled "Water Monitoring Locations", DOC13/35050.</td> </tr> <tr> <td>3</td> <td></td> <td>Discharge to Process Water Dam</td> <td>Process Water Dam, South of processing plant. 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Compliant	<p>Water Management Plan - figures.</p> <p>Water monitoring results.</p>	<p>Noted these are the monitoring locations. Water monitoring results for these locations.</p> <p>Note there has been no discharge from site.</p> <p>Sites noted in the Water Management Plan.</p>	
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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.	Compliant	Incident Reports	Although there have been incidents there has been no prosecutions and no evidence of material harm.																																																													
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L3.1	<p>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.</p> <p>Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.</p> <p>Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.</p> <p>This condition does not limit any other conditions in this licence.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Waste</th> <th>Description</th> <th>Activity</th> <th>Other Limits</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>General or Specific exempted waste</td> <td>Waste that meets all the conditions of a Resource Recovery Exemption under clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005</td> <td>As specified in each particular resource recovery exemption</td> <td>NA</td> </tr> </tbody> </table>	Code	Waste	Description	Activity	Other Limits	NA	General or Specific exempted waste	Waste that meets all the conditions of a Resource Recovery Exemption under clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005	As specified in each particular resource recovery exemption	NA	Compliant	Site Discussions Site inspection	No evidence of any waste being received at site.	
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Noise Limits																																																																																
L4.1	<p>Limit Conditions</p> <p>Until 30 June 2019, noise generated at the premises must not exceed the noise limits in the table below. The location groups referred to in the tables below are indicated in Project Approval 05-0199, schedule 3 condition 3 and 3A respectively. (Trim Reference DOC16/338008).</p> <table border="1"> <thead> <tr> <th>Location and Noise Assessment Group</th> <th>Day LAeq (15 minute)</th> <th>Evening LAeq (15 minute)</th> <th>Night LAeq (15 minute)</th> <th>Night LA1 (1 minute)</th> </tr> </thead> <tbody> <tr> <td>NAG A, R1, R4, R6</td> <td>36</td> <td>36</td> <td>36</td> <td>45</td> </tr> <tr> <td>NAG A, R5</td> <td>37</td> <td>37</td> <td>37</td> <td>45</td> </tr> <tr> <td>NAG A, All other receivers</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>NAG B, All receivers</td> <td>36</td> <td>36</td> <td>36</td> <td>45</td> </tr> <tr> <td>NAG C, R3</td> <td>49</td> <td>40</td> <td>40</td> <td>45</td> </tr> <tr> <td>NAG C, R27</td> <td>46</td> <td>38</td> <td>38</td> <td>45</td> </tr> <tr> <td>NAG C, R28</td> <td>46</td> <td>39</td> <td>39</td> <td>45</td> </tr> <tr> <td>NAG C, R29</td> <td>48</td> <td>40</td> <td>40</td> <td>45</td> </tr> <tr> <td>NAG C, R33</td> <td>46</td> <td>39</td> <td>39</td> <td>45</td> </tr> <tr> <td>NAG C, R41</td> <td>46</td> <td>38</td> <td>38</td> <td>45</td> </tr> <tr> <td>NAG C, All other receivers</td> <td>46</td> <td>37</td> <td>37</td> <td>45</td> </tr> <tr> <td>NAG D, R23, R32</td> <td>43</td> <td>39</td> <td>39</td> <td>46</td> </tr> <tr> <td>NAG D, All other receivers</td> <td>43</td> <td>38</td> <td>38</td> <td>46</td> </tr> <tr> <td>All other residential receivers</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> </tbody> </table>	Location and Noise Assessment Group	Day LAeq (15 minute)	Evening LAeq (15 minute)	Night LAeq (15 minute)	Night LA1 (1 minute)	NAG A, R1, R4, R6	36	36	36	45	NAG A, R5	37	37	37	45	NAG A, All other receivers	35	35	35	45	NAG B, All receivers	36	36	36	45	NAG C, R3	49	40	40	45	NAG C, R27	46	38	38	45	NAG C, R28	46	39	39	45	NAG C, R29	48	40	40	45	NAG C, R33	46	39	39	45	NAG C, R41	46	38	38	45	NAG C, All other receivers	46	37	37	45	NAG D, R23, R32	43	39	39	46	NAG D, All other receivers	43	38	38	46	All other residential receivers	35	35	35	45	Compliant	Noise monitoring results and reports. Annual Review	No evidence of noise exceedances. Monitoring completed by specialists as per these NAG locations.	
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Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Actions																									
L4.2	<p>From 30 June 2019, unless agreed otherwise by the Secretary, the proponent shall ensure that the noise generated by the project does not exceed the criteria in table below at any residence on privately owned land (except for the land identified in Table 1 of project approval 05-0199)</p> <table border="1"> <thead> <tr> <th>Location and Noise Assessment Group</th> <th>Day LAeq (15 minute)</th> <th>Evening LAeq (15 minute)</th> <th>Night LAeq (15 minute)</th> <th>Night LA1(1 minute)</th> </tr> </thead> <tbody> <tr> <td>NAG A, All receivers</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>NAG B, All receivers</td> <td>36</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>NAG C, All receivers</td> <td>45</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>NAG D, All receivers</td> <td>43</td> <td>38</td> <td>36</td> <td>45</td> </tr> </tbody> </table> <p>Note: Refer to Table 2 and Table 2A in Project Approval 05-0199, schedule 3, condition 3 and 3A, respectively for noise locations. However, these criteria do not apply if the Proponent has an agreement with the relevant owner(s) of these residences/ land to generate higher noise levels, and the Proponent has advised the Department of Planning and Infrastructure and EPA in writing of the terms of this agreement.</p>	Location and Noise Assessment Group	Day LAeq (15 minute)	Evening LAeq (15 minute)	Night LAeq (15 minute)	Night LA1(1 minute)	NAG A, All receivers	35	35	35	45	NAG B, All receivers	36	35	35	45	NAG C, All receivers	45	35	35	45	NAG D, All receivers	43	38	36	45	Compliant	Noise monitoring results and reports. Annual Review	No evidence of noise exceedances.	
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L4.3	<p>For the purpose of condition L3.1;</p> <ul style="list-style-type: none"> Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sunday and Public Holidays. Evening is defined as the period 6pm to 10pm. Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sunday and Public Holidays. 	Compliant	Noise Reports	Noted. Monitoring times included in reports.																										
L4.4	<p>The noise limits set out in condition L3.1 apply under all meteorological conditions except for the following:</p> <ol style="list-style-type: none"> Wind speeds greater than 3 metres/second at 10 metres above ground level. Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or Stability category G temperature inversion conditions. 	Compliant	Noise Reports	Noted. Weather conditions included in the report.																										
L4.5	<p>For the purposes of condition L3.3:</p> <p>Data recorded by a meteorological station installed on site must be used to determine meteorological conditions; and Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.</p>	Compliant	Noise Reports	Noted. Weather conditions included in the report.																										
L4.6	<p>To determine compliance:</p> <ol style="list-style-type: none"> with the Leq(15 minute) noise limits in condition L3.1, the noise measurement equipment must be located: <ul style="list-style-type: none"> approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable within approximately 50 metres of the boundary of a National Park or a Nature Reserve. with the LA1(1 minute) noise limits in condition L3.1, the noise measurement equipment must be located within 1 metre of a dwelling façade. with the noise limits in condition L3.1 the noise measurement equipment must be located, <ul style="list-style-type: none"> at the most affected point at a location where there is no dwelling at the location; or at the most affected point within an area at a location prescribed by conditions L3.5(a) or L3.5(b). 	Compliant	Noise Reports	Noise monitoring completed by specialists.																										
L4.7	<p>A non-compliance of condition L3.1 will still occur where noise generated from the premises in excess of the appropriate limit is measured:</p> <ul style="list-style-type: none"> at a location other than an area prescribed by conditions L3.5(a) and L3.5(b); and/or at a point other than the most affected point at a location. 	Compliant	Noise Reports	Noise monitoring completed by specialists.																										
L4.8	<p>For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.</p>	Compliant	Noise Reports	Noise monitoring completed by specialists.																										
Blasting																														
L5.1	<p>The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded</p>	Compliant	Blast Management Plan Blast Results reports - Blasting Contractor.	Blast results within criteria.	See recommendations in Schedule 3 Condition 7 and 8 of the Project Approval.																									
L5.2	<p>The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.</p>	Compliant		Blast results within criteria.																										
L5.3	<p>Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.</p>	Compliant		Blast results within criteria.																										
L5.4	<p>Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.</p>	Compliant		Blast results within criteria.																										

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Actions
L5.5	Surface blasting at the premises may only take place between 9:00am - 5pm Monday to Saturday. Blasting is not permitted on Sundays or Public Holidays.	Compliant	Annual Review 2018-2020	Blast summary spreadsheet outlines times of blasts.	
L5.6	Underground blasting at the premises is permitted at anytime.	Compliant		Noted. Blasting underground occurs.	
L5.7	Blasting outside of the hours specified in condition L5.5 can only take place with the written approval of the EPA.	Compliant		None completed.	
L5.8	The blasting limits do not apply if the Proponent has a written agreement with the relevant landowner, and has advised the Department of Planning and Environment and EPA in writing of the terms of this agreement.	Compliant		No special blast limits.	
L5.9	Surface blasting at the premises is limited to a maximum of 3 blasts per day, unless an additional blast is required following a blast misfire. This condition does not apply to blasts that generate ground vibration of 0.5mm/s or less at any residence on privately owned land, or blasts required to ensure the safety of the site or its workers.	Compliant		Within this criteria for number of blasts.	
Potentially Offensive Odour					
L6.1	The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises. Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environmental protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.	Compliant	Complaints log	No odour complaints	
L6.2	No condition of this licence identifies a potentially offensive odour for the purposes of Section 129 of the Protection of the Environment Operations Act 1997.	Compliant	Complaints log	No odour complaints	
OPERATING CONDITIONS					
Activities must be carried out in a competent manner					
O1.1	Licensed activities must be carried out in a competent manner. This includes: a)the processing, handling, movement and storage of materials and substances used to carry out the activity; and b)the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Administrative Non-Compliance	Field Inspection Waste tracking sheet	Evidence of waste management and disposal. Older bulky bin which contaminated chemicals or hydraulic oil remain onsite in unbunded areas. It is noted that any leakage would be contained within the dirty water management system. The vast majority of these do not contain any hydrocarbons, but some contained a mix of hydrocarbons and rain water. No evidence of hydrocarbon contamination at site. Non - compliant for storage of materials and substances.	As per S3 C49 (Project Approval) recommendations.
Maintenance of plant and equipment					
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a)must be maintained in a proper and efficient condition; and b)must be operated in a proper and efficient manner.	Compliant	Maintenance certificates Onsite activities - field visit	Evidence of maintenance certificates. Site generally well maintained. Evidence of air quality controls in place through watering of haul roads. Evidence of real time system being used and maintained.	
Dust					
O3.1	All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Compliant	Field Inspection	Minor criteria exceedances. Evidence of water trucks in the field and general implementation of the AQMP. Minimal dust from crusher and none seen leaving site. No dust complaints. Water sprays available at the processing plant.	
O3.2	All dust control equipment must be operable at all times with the exception of shutdowns required for maintenance.	Compliant	Field Inspection		
O3.3	Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.	Compliant	Field Inspection	None seen in IEA inspection.	
Other operating conditions					
O4.1	Bundling Requirements: All above ground storage facilities containing flammable and combustible liquids must be banded in accordance with Australian Standard AS 1940-2004.	Compliant	Inspection	Above ground storage facilities are banded. Therefore recommendations about storing used hydraulic oil bulky bins, but that doesn't apply to this condition. Large double skinned diesel tank sighted.	
O4.2	A minimum of 500mm freeboard must be maintained on the Tailings Storage Facility at all times.	Compliant	Inspection	Inspection had well above this free board. Design and implementation for a beached set up in the tailings dam.	
O4.3	A minimum of 500mm freeboard must be maintained on the process water dam at all times.	Compliant	Inspection	Inspection had well above this free board. Design and implementation for a beached set up in the process water dam.	
O4.4	Stormwater/Sediment - Construction Phase A stormwater management scheme must be prepared for all aspects of the construction phase of the development and must be implemented. Implementation of the scheme must mitigate the impacts of stormwater runoff from and within the premises during the construction. The scheme should be consistent with the Stormwater Management Plan for the catchment. Where a Stormwater Management Plan has not yet been prepared the scheme should be consistent with the guidance contained in Managing Urban Stormwater: Control Handbook (available from the EPA)	Not Triggered		Not in period.	
MONITORING AND RECORDING CONDITIONS					
Monitoring records					
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Compliant	Site monitoring records	Evidence of monitoring records including raw data. However most of it is not in a consolidated spreadsheet.	See previous recommendation about completing consolidated monitoring spreadsheets.
M1.2	All records required to be kept by this licence must be: a)in a legible form, or in a form that can readily be reduced to a legible form; b)kept for at least 4 years after the monitoring or event to which they relate took place; and c)produced in a legible form to any authorised officer of the EPA who asks to see them.	Compliant	Site monitoring records		
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a)the date(s) on which the sample was taken; b)the time(s) at which the sample was collected; c)the point at which the sample was taken; and d)the name of the person who collected the sample.	Compliant	Site monitoring records		
Requirement to monitor concentration of pollutants discharged					

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Actions																																																																																																																																																																																																																								
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	Compliant		Noted																																																																																																																																																																																																																									
M2.2	<p style="text-align: center;">Water and/ or Land Monitoring Requirements</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Cyanide (weak acid dissociable)</td> <td>milligrams per litre</td> <td>Daily during any discharge</td> <td>Grab sample</td> </tr> </tbody> </table> <p>POINT 4,5,6,7,8,18</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr><td>Aluminium</td><td>milligrams per litre</td><td>Special Frequency 1</td><td>Grab sample</td></tr> <tr><td>Arsenic</td><td>milligrams per litre</td><td>Special Frequency 1</td><td>Grab sample</td></tr> <tr><td>Boron</td><td>milligrams per litre</td><td>Special Frequency 1</td><td>Grab sample</td></tr> <tr><td>Cadmium</td><td>milligrams per litre</td><td>Special Frequency 1</td><td>Grab sample</td></tr> 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litre	Special Frequency 1	Grab sample	Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample	pH	pH	Special Frequency 1	In situ	Phosphorus (total)	micrograms per litre	Special Frequency 1	Grab sample	Selenium	milligrams per litre	Special Frequency 1	Grab sample	Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample	Zinc	milligrams per litre	Special Frequency 1	Grab sample	Pollutant	Units of measure	Frequency	Sampling Method	Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample	Ammonia	milligrams per litre	Quarterly	Grab sample	Arsenic	milligrams per litre	Quarterly	Grab sample	Bicarbonate	milligrams per litre	Quarterly	Grab sample	Cadmium	milligrams per litre	Quarterly	Grab sample	Calcium (dissolved)	milligrams per litre	Quarterly	Grab sample	Carbonate	milligrams per litre	Quarterly	Grab sample	Chloride	milligrams per litre	Quarterly	Grab sample	Chromium	milligrams per litre	Quarterly	Grab sample	Copper	milligrams per 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sample	Total Iron	milligrams per litre	Quarterly	Grab sample	Total suspended solids	milligrams per litre	Quarterly	Grab sample	Zinc	milligrams per litre	Quarterly	Grab sample	Site monitoring records Annual Review Groundwater Data Review GHD 2019 and 2020	Note much of this condition refers to Special Frequency 1 which is during discharge. There has been no discharge at site. Other monitoring outlined in site records. There are other groundwater sites monitored which are not EPL sites.	
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M2.3	For the purpose of the Table above Special Frequency 1 = During Discharge	Noted		Noted																																																																	
Testing methods - concentration limits																																																																					
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.	Not Triggered	Site records and discussions	There has been no discharge, therefore not triggered.																																																																	
Environmental monitoring																																																																					
M4.1	To assess compliance with Condition L3.1, attended noise monitoring must be undertaken in accordance with Conditions L3.5 and: a) at each one of the locations listed in Condition L3.1; b) occur annually in a reporting period; c) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of: • 1.5 hours during the day; • 30 minutes during the evening; and • 1 hour during the night. d) occur for three consecutive operating days.	Compliant	Noise Reports	Noise monitoring completed by specialists.																																																																	
Weather monitoring																																																																					
M5.1	For each point specified in the table below the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns. Weather - Monitoring Point 1 - Weather Station on the mine site <table border="1"> <thead> <tr> <th>Parameter</th> <th>Units of measure</th> <th>Frequency</th> <th>Averaging Period</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Rainfall</td> <td>mm</td> <td>Continuous</td> <td>1 hour</td> <td>AM-4</td> </tr> <tr> <td>Wind direction @ 10 metres</td> <td>Degrees</td> <td>Continuous</td> <td>15 minute</td> <td>AM-2 & AM-4</td> </tr> <tr> <td>Wind speed @ 10 metres</td> <td>m/s</td> <td>Continuous</td> <td>15 minute</td> <td>AM-2 & AM-4</td> </tr> <tr> <td>Additional requirements -Siting -Measurement</td> <td></td> <td></td> <td></td> <td>AM-1 & AM-4 AM-2 & AM-4</td> </tr> </tbody> </table>	Parameter	Units of measure	Frequency	Averaging Period	Sampling Method	Rainfall	mm	Continuous	1 hour	AM-4	Wind direction @ 10 metres	Degrees	Continuous	15 minute	AM-2 & AM-4	Wind speed @ 10 metres	m/s	Continuous	15 minute	AM-2 & AM-4	Additional requirements -Siting -Measurement				AM-1 & AM-4 AM-2 & AM-4	Compliant	Meteorological station results. Evidence of calibration and servicing.	<ul style="list-style-type: none"> Included in carbon based monitoring reports. Evidence of calibration in the reports. Calibrations performed in accordance with AS2923-1987 for Class 3 instruments (ie measurement programs where a broad indication of the wind regime is adequate for project objectives) <p>• It is noted that the 2019 annual calibration was completed 15 months after the previous calibration (the previous annual calibration was completed March 2018 and 2019 calibration in June 2019).</p>	As per Schedule 3 Condition 20 recommendations.																																							
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Recording of pollution complaints																																																																					
M6.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Not Triggered																																																																			
M6.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	Not Triggered	Complaints log Site Discussions	There have been no complaints.																																																																	
M6.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Not Triggered																																																																			
M6.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Not Triggered																																																																			
Telephone complaints line																																																																					
M7.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Compliant	Complaints Line	Evidence of complaints line. Phone number on the front gate.																																																																	
M7.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Compliant	Complaints Line	Evidence of complaints line. Phone number on the front gate.																																																																	
M7.3	The preceding two conditions do not apply until 3 months after the date of the issue of this licence.	Compliant		Outside of Audit period.																																																																	

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Actions
REPORTING CONDITIONS					
Annual return documents					
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.	Compliant	Copies of recent Annual Returns	Evidence of Annual Returns online records. Covers these sections.	
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below. Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.	Compliant	Copies of recent Annual Returns	Evidence of Annual Returns online records. Covers these sections.	
R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period. Note: An application to transfer a licence must be made in the approved form for this purpose.	Not Triggered	Copies of recent Annual Returns		
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.	Not Triggered	Copies of recent Annual Returns		
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	Compliant	Copies of recent Annual Returns	Evidence of payments and accepted Annual Returns.	
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	Compliant	Copies of recent Annual Returns	More than 4 yrs on site records.	
R1.7	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Compliant	Copies of recent Annual Returns	Evidence of authorised Annual Returns in the online versions.	
Notification of environmental harm					
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	Non-Compliant (Low Risk)	Incident Report	Incident - Cyanide Spill Evidence in Cleanup notice that occurred via a hotline on 18 July 2019. It was based on an increase in the cyanide levels in the bore over an extended period since 2015. It is noted that this bore is not an EPL site and does not have a trigger value for notifications (EPL or Water Management Plan). Reporting should have occurred earlier than July 2019. However it is noted that there has been no material harm identified throughout the incident reports that have been provided to the Audit team. <u>Non-compliant</u> for not notifying earlier. Incident 2 and 3- Process Water Spill 2 incidents of process water spills. Evidence of incident on 2 August 2019, with incident report supplied on 9 August 2019. Evidence of incident report on 18 October 2019, which is 5 days after the incident. However there was no evidence was provided of notifications to the EPA hotline. The only evidence provided were the two incident reports which were sent to the EPA within 7 days (see condition below). <u>Non-compliance</u> as it was unknown at the time whether the spill would cause potential material harm.	NC REC: Ensure incident notification occurs immediately if there have been incidents that cause or threaten material harm.
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.	Compliant	Incident Report	Incident - Cyanide Spill The Cleanup Notice from the EPA regarding the cyanide spill outlined a history of consultation and reporting. It appears TGO have met these requirements. Note as outlined previous the incident of elevated cyanide in an internal bore commenced in 2015 which is outside this period. Incident - Process Water Spill (2 issues) Evidence of incident on 2 August 2019, with incident report supplied on 9 August 2019. Evidence of incident report on 18 October 2019, which is 5 days after the incident.	
Written report					

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Actions
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	Not Triggered	Incident Report Site records	Based on information provided it appears incidents have been self reported and TGO has worked with the EPA regarding post incident investigation and management.	
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	Not Triggered			
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	Not Triggered			
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	Not Triggered			
Other reporting conditions					
R4.1	Noise Monitoring Report A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the yearly monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include: a) an assessment of compliance with noise limits presented in Condition L3.1; and b) an outline of any management actions taken within the monitoring period to address any exceedances of the limits contained in Condition L3.1.	Compliant	Noise monitoring reports sent to the EPA as per Condition R4.1	The December report from Mullers Acoustics is the Annual Noise Report. Included in EPL Annual Returns.	
R4.2	Reporting Fauna Deaths or Injury The licensee must report any incident of death or injury (including bogging or miring) of fauna (avian or terrestrial) associated with the Tailing Impoundment or tailings runoff dam by telephoning the EPA's Pollution Line 131 555 as soon as the licensee becomes aware of the incident. The licensee must provide written details of the notification with respect of the above condition to the EPA within 7 days of the date which the incident occurred	Not Triggered	Any fauna deaths reporting under Condition R4.2	None triggered.	
GENERAL CONDITIONS					
Copy of licence kept at the premises or plant					
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Compliant			
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Compliant			
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Compliant			
Signage					
G2.1	The location of each Monitoring and Discharge point must be clearly marked by signs that indicate the point identification number used in this licence and be located as close as practical to the point.	Compliant	Field Inspection	Labelling of discharge points is effective.	

Mining Lease

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action
Notice to Landholders					
1	(a) Within a period of three months from the date of grant/renewal of this lease or within such further time as the Minister may allow, the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice.	Not Triggered	Land ownership	TGO own all the land within the lease area.	
	(b) If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease are is situated. The notice must indicate that this lease has been granted/renewed; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.	Not Triggered	Land ownership	TGO own all the land within the lease area.	
Environmental Harm					
2	(a) The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease.	Compliant	Annual Reviews Incident Reports	See Schedule 2 Condition 1 for incident details.	
	(b) For the purposes of this condition: (i) environment means components of the earth, including: (A) land, air and water, and (B) any layer of the atmosphere, and (C) any organic or inorganic matter and any living organism, and (D) human-made or modified structures and areas, and includes interacting natural ecosystems that include components referred to in paragraphs (A)-(C) (ii) harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution, contributes to the extinction or degradation of any threatened species, populations or ecological communities and their habitats and causes impact to places, objects and features of significance to Aboriginal people.			There has been evidence of general maintenance activities at the site. Evidence of inspections, however incidents appear to be caused by unexpected mechanical failure. Controls were in place to minimise impacts to waterways (site falls within the dirty water management system). Although there have been these incidents (Incident 1 is from 2015, but still has evidence of impacts) there has been no recorded evidence of material harm through a review of the correspondence with the EPA.	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with a Mining Operations Plan (MOP) which has been approved by the Director-General.	Compliant	MOP	The MOP covers this required.	
	(b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under: - the <i>Environmental Planning and Assessment Act 1979</i> - the <i>Protection of the Environment Operations Act 1997</i> - and any other approvals relevant to the development including the conditions of this lease; and - have regard to any relevant guidelines adopted by the Director-General	Compliant		The MOP covers this required.	
	(c) The leaseholder may apply to the Director-General to amend an approved MOP at any time.	Not Triggered		Noted	
	(d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order or direction given under the <i>Mining Act 1992</i> , the <i>Environmental Planning and Assessment Act 1979</i> , <i>Protection of the Environment Operations Act 1997</i> , <i>Mining Health and Safety Regulation 2017</i> / <i>Coal Mine Health and Safety Act 2002</i> and <i>Mine Health and Safety Regulation 2007</i> / <i>Coal Mine Health and Safety Regulation</i> or the <i>Occupational Health and Safety Act 200</i> ; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out.	Not Triggered		Noted	
	(e) A MOP ceases to have effect 7 years after date of approval or other such period as identified by the Director-General.	Compliant		Within date.	
Environmental Management Report					
4	(a) The lease holder must lodge Environmental Management Report (EMR) with the Director-General annually or at dates otherwise directed by the Director-General.	Compliant	Annual Review		
	(b) The EMR must: (i) report against compliance with the MOP; (ii) report on progress in respect of rehabilitation completion criteria; (iii) report on the extent of compliance with regulatory requirements; and (iv) have regard to any relevant guidelines adopted by the Director-General.	Compliant		i) the MOP/RMP is mentioned, however there is no actual prediction against MOP predictions vs actual disturbance and rehabilitation. There has however been no rehabilitation at site in the Audit period, with this mentioned in the Annual Reviews. ii) Criteria is reported through the Biodiversity and Rehabilitation Monitoring Report which is attached to the Annual Review. iii) Completed in several sections. iv) Completed as per DPIE Guideline, except the rehabilitation reporting section in the Annual Reviews is not correct.	IMP REC: Complete a comparison of MOP predictions vs actual disturbance and rehabilitation. IMP REC: Section 8.1 of the Annual Review does not meet the requirements of the DPIE Annual Review Guidelines. It does not include details of the total amount of rehabilitation or the previous period. This should be completed in future Annual Reviews. See link to the guideline. https://www.planning.nsw.gov.au/-/media/Files/DPE/Guidelines/post-approval-requirements-for-state-significant-mining-developments-annual-review-guideline-2015-10.pdf?la=en
Environmental Incident Report					
5	(a) The lease holder must report any environmental incidents. The report must: (i) be prepared according to any relevant Departmental guidelines; (ii) be submitted within 24 hours of the environmental incident occurring.	Compliant	Annual Review Incident Report		
	(b) For the purpose of this condition, environmental incidents includes: (i) any incident causing or threatening material harm to the environment (ii) any breach of Conditions 1 to 9 and 11 to 24; (iii) any breach of environmental protection legislation; or (iv) a serious complaint from landholders or the public.			No evidence of an incident requiring triggering Part b of this condition. There have been incidents, not none covering these requirements. Note, the Admin Non - Compliance in regards to the Annual Review was determined by this auditor, and does not trigger a non - compliance with this condition.	

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action
	(c) For the purposes of this condition, harm to the environment is material if: (i) it involves actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, where loss includes the reasonable cost and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.				
Additional Environmental Reports					
6	Additional environmental reports may be required from time to time as directed in writing by the Director-General and must be lodged as instructed.	Not Triggered	Site records and discussions	Not triggered	
Rehabilitation					
7	Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.	Not Triggered		Ongoing requirement	
Working Requirement					
9	The lease holder must: (a) ensure that at least 30 competent people are efficiently employed in relation to the mining process or mining operations on the lease area OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than \$525,000 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Compliant	Site discussions	Meets this requirement.	
Blasting					
10	(a) <u>Ground Vibration</u> The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10mm/second and does not exceed 5mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	Compliant	Blast results	Results indicate the site has been compliant with blasting.	
	(b) <u>Blast Overpressure</u> The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling occupied premises, as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	Compliant	Blast results	Results indicate the site has been compliant with blasting.	
Safety					
11	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill hole shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to secure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Note	N/A	Safety is out of the scope of this audit.	
Prevention of Soil Erosion and Pollution					
12	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with a accepted Mining Operations Plan.	Not Triggered	No exploration	Condition relates to exploration. No exploration. Other activities generally meet this requirement.	
Transmission lines, Communication lines and Pipelines					
13	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions stipulated.	Not Triggered	Site discussions	Not triggered	
Roads and Tracks					
14	(a) The lease holder must pay to the relevant roads authority in control of the road or track the reasonable cost incurred by the roads authority in making good any damage to roads or tracks caused by operations carried out under this lease less any amount paid or payable from the Mine Subsidence Compensation Fund.	Not Triggered	Site discussions Field inspection		
	(b) During wet weather the use of any road or track must be restricted so as to prevent damage to the road or track.	Compliant		Site appears compliant with this condition. No issue sighted in the field.	
	(c) Existing access tracks should be used for all operations where reasonably practicable. New access tracks must be kept to a minimum and be positioned in order to minimise damage to the land, watercourses or vegetation.	Compliant		Site appears compliant with this condition. No issue sighted in the field.	
	(d) Temporary access tracks must be rehabilitated and revegetated to the satisfaction of the Director-General as soon as reasonably practicable after they are no longer required under this lease.	Compliant		Site appears compliant with this condition. No issue sighted in the field.	
Trees and Vegetation					
15	(a) The lease holder must not fell trees, strip bark or cut timber on any land subject of this lease without the consent of the landholder who is entitled to the use of the timber.	Not Triggered	Site records	No clearing during the IEA period.	
	(b) The lease holder must contact Forest NSW and obtain any required permit, licence or approval before taking timber from any Crown Land within the lease area. <i>Note: any clearing not authorised under the Act must comply with the requirements of the Native Vegetation Act 2003. Any clearing or taking of timber on Crown Land is subject to the requirements of the Forestry Act 1916 .</i>	Not Triggered			
Use of Mercury or Cyanide					
16	The lease holder must not use mercury or cyanide or any solution containing cyanide or the recovery of minerals on the lease area without the prior written approval of the Minister and subject to any conditions stipulated.	Compliant	Approval letter for Cyanide use	Approval to use cyanide. Most recent letter dated 30 October 2019.	
Resource Recovery					
17	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, notice in writing to the lease holder may be give requiring the holder to recover such minerals.	Not Triggered	Site Records	No evidence of this being triggered.	
	(b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery.	Not Triggered	Site Records	No evidence of this being triggered.	
	(c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.	Not Triggered	Site Records	No evidence of this being triggered.	

Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action
Indemnity					
18	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	Noted			
Security					
19	(a) This authorisation is subject to a condition that the holder of the authorisation is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations of all or any kind under the authorisation, including obligations of all or any kind under the authorisation that may arise in the future.	Compliant	Security Deposit	Most recent security deposit is dated 12 March 2021 with an amount of \$8.637M. Evidence of deposit.	
	(b) The amount of the security deposit to be provided has been assessed by the Director-General of the Department of Trade and Investment, Regional Infrastructure and Services at \$3,291,000.00.	Compliant			
	(c) The security deposit is to be provided by way of a cash deposit (with no entitlement to any interest thereon) or in such other form as may be approved by the Director General (or their delegate).	Compliant			
Prescribed Dam					
22	(a) Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Tomingly Residue Storage Facility without the prior written approval of the Minister and subject to any conditions stipulated.	Not Triggered	Site Plan Discussions	No mining within this prescribed dam area.	
	(b) Where the lease holder desires to mine within the notification area he or she must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct.	Not Triggered	Site Plan Discussions	No mining within this prescribed dam area.	
	(c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. This sub-paragraph is complied with if: (i) the Dam Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire of the mine referred to in paragraph (b). (ii) The notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined. (iii) The Director-General has compiled with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal. (iv) the Dams Safety Committee made its recommendations concerning the mining proposal or has informed the minister in writing that it does not propose to make any such recommendations; and (v) Where the Dam Safety Committee has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the minister does not accept those recommendations or any of them in accordance with a determination under sub-paragraph (ii) of this paragraph. (vi) Where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dam Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the <i>Dams Safety Act 1978</i> ; or - in the event of failure to reach such agreement - as determined by the Premier.	Not Triggered	Site Plan Discussions	No mining within this prescribed dam area.	
	(d) The Minister, on notice from the Dams Safety Committee, may at any time or times: (i) cancel any approval given where a notice pursuant to Section 18 of the <i>Dams Safety Act 1978</i> is given.	Not Triggered	Site Plan Discussions	No mining within this prescribed dam course.	
Suspension of Mining Operations					
23	The holder of a mining lease may not suspend mining operations in the mining area other than in accordance with the consent of the Minister.	Not Triggered	N/A	Mining is ongoing.	
Cooperation Agreement					
24	The lease holder must make every reasonable attempt, and be able to demonstrate their attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: - access arrangements - operational interaction procedures - dispute resolution - information exchange - well location - timing of drilling - potential resource extraction conflicts; and - rehabilitation issues <u>Note: Exploration Reports (Geological and Geophysical)</u> The lease holder must lodge reports to the satisfaction of the Director-General in accordance with section 163C of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010. Reports must be prepared in accordance with <u>Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales</u> (Department of Trade and Investment, Regional Infrastructure and Services 2010).	Not Triggered	Site Ownership	No overlapping titles. TGO does not overlap.	

PVP Part 1

Condition Number	Map Number	Map Units	Management Action	Duration of Management Action	Management Action Details	Compliance Status	Source of Evidence	Finding	Recommended Action		
1	1	1a, 2a, 3a, 4, 5	Supplementary planting	In perpetuity	Where remnant vegetation is present and in low condition (see Appendix A) and natural regeneration is not occurring, the landholder must undertake supplementary planting within 24 months of the commencement of this PVP. Supplementary planting must use indigenous trees, shrubs and groundcover species forming each of the following Vegetation communities: <ul style="list-style-type: none"> Inland Grey Box - Poplar Box - White Cypress Pine tall woodland on red loams (Benson 76) in Map Unit 1a. River Red gum riverine woodland forest (Benson 78) in Map Unit 2a. Fuzzy Box - Inland Grey Box on alluvial brown loam Soils (Benson 201) in Map Unit 3a. Poplar Box - Belah Woodland on Clay (Benson 56) in Map Unit 4. Belah - Black Oak - Western Rosewood - Wilga woodland (Benson 57) in Map Unit 5. 	Not Triggered	2018-2020 Biodiversity and Rehabilitation Monitoring Report (DnA Environmental) Fauna Monitoring Report (Area Environmental Consultants and Communication December 2019) Letter from Local Land Services - Cental West - re: Registration of PVP (dated 7 May 2015) Invoice for Tree Supply by Narromine Transplants Pty Ltd - undated TGO Weed Treatment Register	Note the timing for supplementary planting (24 months) occurred prior to the reporting period. Evidence of monitoring within the 2018-2020 Biodiversity and Rehabilitation Monitoring Report (DnA Environmental) and Fauna Monitoring Report (Area Environmental December 2019). There has been no grazing in the area. Supplementary planting occurred in 2015. Evidence of invoice for the supply of \$6,200 mixed species trees. Evidence of tree species list from 2016. This also included locations of plantings and the proposed vegetation community (Fuzzy Box and Grey Box). The Consent is managed by the Local Land Service. Evidence of weed maintenance records provided (weed treatment register). No grazing completed.			
		1b, 2b, 3b	Revegetation	In perpetuity	The landholder must establish indigenous trees, shrubs and groundcover species which form the vegetation communities defined below within 24 months of the commencement of this PVP. <ul style="list-style-type: none"> 28.8 ha of Inland Grey Box - Poplar Box - White Cypress Pine tall woodland on red loams (Benson 76) in Map Unit 1b. 9.9 ha of River Red gum riverine woodland forest (Benson 78) in Map Unit 2b. 27 ha Fuzzy Box - Inland Grey Box on alluvial brown loam Soils (Benson 201) in Map Unit 3b. 	Compliant	Letter from Local Land Services - Cental West - re: Registration of PVP (dated 7 May 2015) Invoice for Tree Supply by Narromine Transplants Pty Ltd - undated	Outside the period. But records indicate this has been completed.			
		1a,1b, 2a, 2b, 3b, 4, 5	Grazing exclusion	In perpetuity	The landholder is to exclude all livestock for a minimum of 10 years to prevent damage to 2b,3b,4,5 revegetation and native vegetation regeneration. After 10 years of grazing exclusion the landholder may undertake strategic grazing in map Units 1a, 1b, 2a, 2b, 3b, 4 and 5. Grazing must allow at least six months between each grazing event and must not exceed a total of 14 days per calendar year.	Compliant	Site discussions	No evidence of any grazing based on site discussions.			
		3a	Strategic grazing	In perpetuity	The landholder may undertake strategic grazing in map Unit 3a at any time for the purpose of decreasing fuel loads to reduce fire risk to the neighbouring residence. Grazing must allow at least six months between each grazing event and must not exceed a total of 14 days per calendar year.	Not Triggered	Site Discussions	Grazing not completed.			
		1a, 1b, 2a, 2b, 3a, 3b, 4, 5	1		Retain regrowth	In perpetuity	The landholder must retain all native vegetation regrowth and/or natural regeneration of native 2b, 3a, 3b, plant species in Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5. All regrowth or natural regeneration of 4,5 native vegetation in Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5 is classified as 'Protected Regrowth' under the Native Vegetation Act 2003. Non-native vegetation must not be planted or sown in Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5 at any time.	Compliant	Invoice for Tree Supply by Narromine Transplants Pty Ltd - undated	No planting in the audit period with all planting completed in 2015 and 2016. This also included locations of plantings and the proposed vegetation community (Fuzzy Box and Grey Box). Evidence suggests that only native species were planted.	
					Clearing not permitted	In perpetuity	The clearing of native vegetation, whether remnant or regrowth, is not permitted in Map Units 1a, 2b, 3a, 3b, 1b, 2a, 2b, 3a, 3b, 4 and 5 at any time unless otherwise state in this PVP.	Compliant	Site Discussions	No evidence of any clearing based on records or site discussions.	
					Permitted routine agricultural management activities (RAMA)	In perpetuity	The Landholder must not clear native vegetation in the area identified as Map Units 1a, 1b, 2a, 2b, Agricultural Management 3a, 3b, 4 and 5 for routine agricultural management activities, except when the landholder is Activities (RAMA) clearing native vegetation for the following Routine Agricultural Management Activities: <ul style="list-style-type: none"> The operation and maintenance only of permanent fences only (as permitted by s. 22 and s. 11(i)(a) Native Vegetation Act 2003 and cl 27 Native Vegetation Regulation 2013); The removal of noxious weeds under the Noxious Weeds Act 1993 (as permitted by s. 22 and s. 11(i)(b) Native Vegetation Act 2003); The control of pests under the Local Land Services Act 2013 (as permitted by s. 22 and s. 11(i)(c) Native Vegetation Act 2003); The clearing of feral native plant species (as permitted by s. 22 Native Vegetation Act 2003 and cl. 37 Native Vegetation Regulation 2013); The maintenance of public utilities (as permitted by s.22 and s.11(i)(h) Native Vegetation Act 2003 and Cl. 37 Native Vegetation Regulation 2013); Any activity reasonably considered necessary to remove or reduce an imminent risk of serious personal injury or damage to property (as permitted by s. 22 and s. 11(i)(i) Native Vegetation Act 2003). The clearing of any vegetation in contravention of this clause is excluded from being an activity permitted to be carried out under Part_3 Division 3 s.22 of the Native Vegetation Act 2003.	Compliant	Site Discussions Site photos	No evidence of any clearing based on records or site discussions. No clearing seen in photos.	
					Control of feral herbivores	Term of project	The landholder must control all pest vertebrates such as cats, feral dogs and foxes from Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5, (as outlined in the Tomingley Gold Project, Biodiversity Management Plan) at all times.	Compliant	Area Consulting - Fauna Monitoring Report (December 2019). Site photos	Evidence of pest management in the Area Consulting - Fauna Monitoring Report (December 2019). <i>Review of the Environmental Monitoring Reports, Appendix E show a decline in vertebrate pest monitoring at TGO:</i> <ul style="list-style-type: none"> From August 2013 to January 2017 vertebrate pest trapping results were recorded and indicated a trapping program has been ongoing. Since June 2018, Biodiversity Monitoring results have been limited to "No fauna deaths were recorded" and pest control has not been reported on. Photo evidence of weeds being sprayed.	
					Salvaged local timbers	In perpetuity	Salvaged local timbers must be primarily installed in Map Units 1a and 2a along Gundong Creek to rehabilitate the riparian corridor to current Best Management Practices.	Compliant	Site photos	Photos of salvaged timber of offset area.	
					Weed control	In perpetuity	The landholder must control non-native plant species in Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5 to encourage the establishment of native groundcover species. The landholder must not use herbicides within Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5 except to spot-spray non-native weed species.	Compliant	Invoice for Tree Supply by Narromine Transplants Pty Ltd - undated TGO Weed Treatment Register	Evidence of weed spraying.TGO Weed Treatment Register DNA Report outlines weeds within the area.	
					Retain dead timber	In perpetuity	All dead timber either standing or fallen must be retained in Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5 in at all times.	Compliant	Site Discussions Site photos	No clearing. All dead timber remains in the area.	
					Retention of naturally occurring rocks	In perpetuity	Naturally occurring rocks must not be removed from Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5 at occurring rocks any time.	Compliant	Site Discussions Site photos	No rock removal.	
					Exclude fertilisers	In perpetuity	Fertilisers must not be applied within Map Units 1a, 1b, 2a, 2b, 3a, 3b, 4 and 5 at any time.	Compliant	Site Discussions Site photos	Based on site discussions this has not occurred.	

Condition Number	Map Number	Map Units	Management Action	Duration of Management Action	Management Action Details	Compliance Status	Source of Evidence	Finding	Recommended Action
			Fire management for conservation	Term of project	Best Management Practices for fire management for the vegetation types and threatened species Conservation present on the site within Map Units la, lb, 2a, 2b, 3a, 3b, 4 and 5 must be implemented during the term of the project. Best management practices must be determined in consultation with the NSW Rural Fire Service (as outlined in the Tomingley Gold Project, Biodiversity Management Plan). The use of fire within Map Units la, lb, 2a, 2b, 3a, 3b, 4 and 5 must be in accordance with the conditions of a Bush Fire Environmental Assessment Code approval issued by the NSW Rural Fire Service.	Compliant	Biodiversity Management Plan	<p>The Biodiversity Management Plan states: <i>Fire prevention and management on, or near, the mine site is managed according to the TGO Emergency Management Plan. TGO have procedures and awareness training in place to prevent onsite ignition of bushfire. TGO Incident Response Team have limited fire-fighting capability and TGO notify local RFS brigades in the case of large offsite fires threatening the Biodiversity Offset Area.</i></p> <p><i>The use of fire for biodiversity outcomes is not practical and unlikely to occur in the foreseeable future, due to the small and awkward shape of the Biodiversity Offset Area and proximity to Tomingley village, the mine site and local agricultural land. However, any use of fire on the TGO site, for any reason, will be done after consultation with the NSW Rural Fire Service.</i></p>	
			Monitor established vegetation points	Term of project	The monitoring of vegetation, must follow the Office of Environment and Heritage publication, "Model for Practical Partnerships in Resource Condition, Monitoring Evaluation and reporting 2011", (as outlined in the Tomingley Gold Project, Biodiversity Management Plan). The evaluation and reporting from the monitoring data must lead to constant improvement of the vegetation condition.	Compliant	2018-2020 Biodiversity and Rehabilitation Monitoring Report (DnA Environmental) Fauna Monitoring Report (Area Environmental Consultants and Communication December 2019)	Evidence of reports by ecologists meeting these requirements.	
			Management of human disturbance	Term of project	The landholder must take all reasonable measures to exclude dumping; fire wood collection; and unauthorised human activities at all times. The landholder must install signage clearly stating the land use of offset area as biodiversity conservation at each separate offset area. The erection of signage described in the Management Action titled "Management of human activities" under Management Action Details (b) in this Schedule must be commenced within twelve (12) months of the commencement of clearing.	Compliant		Fencing, inspections completed. The site is within normal farmland that is not accessible to the public.	

PVP Part 2


Condition Number	Condition	Compliance Status	Source of Evidence	Finding	Recommended Action
Commencement					
1	This PVP will commence from the date at which it is signed by the Minister administering the Native Vegetation Act 2003 (or delegate).	Noted	Letter from Local Land Services - Cental West - re: Registration of PVP (dated 7 May 2015)	Noted. Letter from Local Land Services - Cental West - re: Registration of PVP (dated 7 May 2015)	
Words and Phrases used					
2	In this Schedule: "LLS" means Local Land Services constituted under section 8 of the Local Land Services Act 2013; "Central West Local Land Services" means Local Land Services in the Central West region; "Landholder" means the landholder who is a party to this PVP and once this PVP is registered all future landholders; "the works under this PVP" means the clearing, the management actions, the mitigating actions and all other works that the Landholder is authorised or required to take under this PVP; "the Land" means the land to which this PVP applies; "OEH" means the Office of Environment and Heritage within the Department of Premier and Cabinet and includes its successor departments or agencies; and "PVP" means this property vegetation plan.	Noted		Noted	
Monitoring and auditing					
3	The carrying out of any works under this PVP may be subject to auditing by members of staff of LLS or officers of OEH who are authorised officers under the Native Vegetation Act 2003, as set out in sections 34 and 35.	Not Triggered	Site discussions	No contact during period based on site discussions.	
4	Subject to reasonable notice, the Landholder will allow authorised officers of LLS or OEH access to the Land and allow those officers to do all things reasonably necessary for the purpose of monitoring or auditing compliance with this PVP.	Not Triggered	Site discussions	No contact during period based on site discussions.	
5	Clauses 3 and 4 do not affect the powers of authorised officers of LLS, OEH or other government agencies to carry out investigations under the Native Vegetation Act 2003.	Not Triggered	Site discussions	No contact during period based on site discussions.	
Registration of PVP on Title					
6	For the purpose of sections 31(1) and 31(2) of the Native Vegetation Act 2003, the Landholder consents to the registration of this PVP in accordance with section 31 of the Native Vegetation Act 2003.	Noted		Noted	
Dispute resolution					
7	The Landholder and Minister (or delegate) agrees to attempt to resolve any dispute in relation to this PVP by negotiation in the first instance. Such negotiation may involve agreeing on a variation to the PVP. However, this clause does not apply to a dispute relating to a possible breach of the Native Vegetation Act 2003.	Not Triggered	Site discussions	No disputes with LLS or public based on site discussions.	
8	Where appropriate, if negotiations are not successful, the Minister (or delegate) agrees to provide a written notice to the Landholder setting out the nature of any contravention and requesting the Landholder to take the steps specified in that notice, in the time specified in that notice, to rectify that contravention. This clause does not apply to a possible breach of the Native Vegetation Act 2003.	Not Triggered	Site discussions		
9	The Landholder agrees to comply with that notice in the time specified in the notice. Failure to comply with that notice is a breach of this plan. If the Landholder does not comply with the notice, the Minister (or delegate) may consider terminating this plan, in accordance with the procedure set out in section 30 of the Native Vegetation Act 2003. LLS or OEH may also take other action under that Act.	Not Triggered	Site discussions		
10	The landholder also agrees to provide access to the property to officers of LLS and OEH. Note: The procedure for varying or terminating a PVP is set out in section 30 of the Native Vegetation Act 2003 and clause 11 of the Native Vegetation Regulation 2013 .	Not Triggered	Site discussions		
Subdivision					
11	The Landholder agrees to notify LLS of any proposal to subdivide the Land.	Not Triggered		Noted	
12	The Landholder agrees to submit to LLS an application to vary this PVP to divide it into separate PVPs relating to the Land as subdivided in the same or similar terms to this PVP, if so requested by LLS.	Not Triggered		Noted	
Apportionment of risk/indemnity					
13	LLS and the Landholder agree to apportion risk as follows: (i) LLS accepts the risk for the actions of LLS staff in entering the Land and carrying out functions associated with this PVP and for the actions of other visitors to the Land as organised by LLS. (ii) All other risks associated with this PVP and the works under this PVP rest with the Landholder.	Noted		Noted	
Disclosure of Information					
14	Subject to clause 15, personal information contained in this PVP will be treated in accordance with the Privacy and Personal Information Protection Act 1998, under which you have rights of access and correction.	Noted		Noted	
15	Information contained in this PVP may be disclosed: (i) In the case of a PVP that specifies a date for the definition of "regrowth", -ertain information from the PVP will be included on the register of PVPs and development consents, which will be publicly available on the Internet and available for inspection at the office of LLS in the Central West region. (ii) to OEH for compliance and statistical purposes. (iii) in circumstances where disclosure is otherwise required or authorised by law, including the Government Information (Public Access) Act 2009.	Noted		Noted	



APPENDIX C

IEA Certification Form



Development Name	Tomingley Gold Operations
Development Consent No.	09_0155
Description of Development	Open Cut and Underground Gold Mine
Development Address	Tomingley West Road, Tomingley NSW 2869
Proponent	Alkane Resources Ltd
Operator Address	Alkane Head Office Level 4, 66 Kings Park Road, West Perth WA 6005
Title of Audit	Tomingley Gold Operations IEA 2021
Audit Period	9th March 2018 (day after previous audit visit) to 11th May 2021 (first day of 2021 audit).
<p><i>I certify that I have undertaken the independent Audit and prepared the contents of the attached independent Audit report and to the best of my knowledge:</i></p> <p><i>The Audit has been undertaken in accordance with relevant approval condition(s) and in accordance with the Auditing standard AS/NZS ISO 19011:2014 and Post Approval Guidelines – Independent Audits</i></p> <p><i>The findings of the Audit are reported truthfully, accurately and completely;</i></p> <p><i>I have exercised due diligence and professional judgement in conducting the Audit;</i></p> <p><i>I have acted professionally, in an unbiased manner and did not allow undue influence to limit or over-ride objectivity in conducting the Audit;</i></p> <p><i>I am not related to any owner or operator of the development as an employer, business partner, employee, sharing a common employer, having a contractual arrangement outside the Audit, spouse, partner, sibling, parent, or child;</i></p> <p><i>I do not have any pecuniary interest in the Audited development, including where there is a reasonable likelihood or expectation of financial gain or loss to me or to a person to whom I am closely related (i.e. immediate family);</i></p> <p><i>Neither I nor my employer have provided consultancy services for the Audited development that were subject to this Audit except as otherwise declared to the lead regulator prior to the Audit; and</i></p> <p><i>I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from fair payment) from any owner or operator of the development, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.</i></p> <p>Note.</p> <p><i>The Independent Audit is an ‘environmental Audit’ for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an Audit report produced to the Minister in connection with an environmental Audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.</i></p> <p><i>The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).</i></p>	
Signature	
Name of Lead / Principal Auditor	Chris Jones
Address	51 Hudson Street Hamilton 2303
Email Address	chris.jones@iema.com.au
Audit or Certification (if relevant)	Principal Environmental Auditor
Date:	15 September 2021



APPENDIX D

Endorsement of the IEA Team





Mr David Pritchard
Environmental Coordinator
Tomingley Gold Project
PO Box 59
Peak Hill NSW 2869

04/02/2021

Dear David

**Tomingley Gold Project – MP09_0155
IEA team approval 2021**

I refer to your request (MP09_0155-PA-8) for the Secretary's approval of suitably qualified persons to prepare the Independent Environmental Audit (IEA) 2021 for Tomingley Gold Project (the Project).

The Department has reviewed the nominations and information you have provided and is satisfied that these experts are suitably qualified and experienced. Consequently, I can advise that the Secretary approves the appointment of the IEMA (Integrated Environmental Management Australia) audit team.

In accordance with Schedule 5 Condition 8 of MP09_0155 (as modified) and the Independent Audit Post Approval Requirements, the Secretary has agreed to the following audit team:

- Chris Jones - Lead Auditor and Rehabilitation
- Tawna Ryan - Assistant Environmental Auditor
- Ali Naghizadeh - Air Specialist
- Martin Davenport - Noise Specialist

Please ensure this correspondence is appended to the Independent Audit Report.

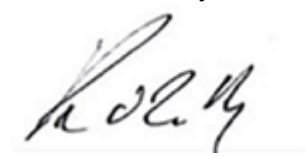
The Independent Audit must be prepared, undertaken and finalised in accordance with the Independent Audit Post Approval Requirements. Failure to meet these requirements will require revision and resubmission.

The Department reserves the right to request an alternate auditor or audit team for future audits.

In accordance with Schedule 5 Condition 9 of the MP09_0155, within three months of commencing the audit, Alkane Resources Ltd (the proponent) are to submit a copy of the audit report to the Planning Secretary, together with its response to any recommendations contained in the audit report and a timetable to implement the recommendations. Prior to submitting the audit report to the Planning Secretary, it is recommended that Alkane Resources Ltd review the report to ensure it complies with the relevant consent condition.

If you wish to discuss the matter further, please contact myself on 0429400261 or at katrina.oreilly@planning.nsw.gov.au

Yours sincerely

A handwritten signature in black ink, appearing to read 'K. O'Reilly', enclosed in a thin black rectangular border.

Katrina O'Reilly
Team Leader - Compliance
Compliance
As nominee of the Planning Secretary



Mr David Pritchard
Environment and Community Manager
Tomingley Gold Operations Pty Ltd
Tomingley West Road
Tomingley NSW 2869

23/08/2021

Dear Mr Pritchard

**Tomingley Gold Project - 09_0155 (as modified)
Extension of Time to submit Independent Environment Audit 2021**

I refer to MP09_0155-PA-15 submitted to the Department of Planning, Industry and Environment (the Department) on 18 August 2021 requesting an extension of time to submit the Independent Environmental Audit report for Tomingley Gold Project (the Project) as required under Condition 8 Schedule 5 of Project Approval 09_0155 as modified (the Approval).

The Department notes the reasons justifying the request.

Accordingly, under Condition 9 Schedule 5 of the Approval, the Planning Secretary grants an extension of time until 17 September 2021 to submit the IEA report.

If you wish to discuss the matter further, please contact me on 0429400261 or at katrina.oreilly@planning.nsw.gov.au

Yours sincerely

A handwritten signature in black ink, appearing to read 'K. O'Reilly', enclosed in a light grey rectangular box.

Katrina O'Reilly
Team Leader - Compliance
Compliance
As nominee of the Planning Secretary



APPENDIX E

IEA Consultation (Incoming Consultation)



BCD Feedback – Incoming Email

From: Rowan Murphy <Rowan.Murphy@environment.nsw.gov.au>
Sent: Tuesday, 11 May 2021 2:33 PM
To: Chris Jones <chris.jones@iema.com.au>
Subject: RE: DEES Feedback - Tomingley Gold Audit

Dear Chris,

Thank you for your email on 29 April 2021 requesting feedback regarding activities during the Audit period. The Biodiversity, Conservation & Science (BCS) Directorate request that the following matters are included in the audit:

- Progress on all non-compliances and observations identified in the previous audit report ([pitt&sherry, 2018](#)).
- Compliance with requirements of Property Vegetation Plan 20PVP00168 (request number 18458) (attached).
- Compliance with requirements of [project modifications](#) approved during the audit period; including:
 - Any required updates incorporated into the [Biodiversity Management Plan](#) (check currency of version).
 - Whether recommendations from annual biodiversity monitoring reports have been adequately addressed and incorporated into the Biodiversity Management Plan.
 - Obligations relating to the establishment and management of additional offsets under the NSW Biodiversity Offset Scheme.

If you require any further information regarding this matter, please contact Rowan Murphy, Senior Conservation Planning Officer, via rowan.murphy@environment.nsw.gov.au or (02) 6883 5347.

Best regards,
Rowan Murphy
Senior Conservation Planning Officer – North West
Biodiversity and Conservation Division
Department of Planning, Industry and Environment

Level 1, 48-52 Wingewarra St, Dubbo
PO Box 2111, Dubbo NSW 2830
T 02 6883 5347
M 0400 337 662

From: Chris Jones <chris.jones@iema.com.au>
Sent: Thursday, 29 April 2021 1:48 PM
To: OEH ROD Hunter Central Coast Mailbox <huntercentralcoast@environment.nsw.gov.au>
Subject: DEES Feedback - Tomingley Gold Audi

Attention Stephen Cox,

As Lead Auditor, I am writing to you about feedback on the proposed Independent Environmental Audit for the Tomingley Gold Project. The proponent is Alkane Resources Ltd.

The Audit period is proposed from 9th March 2018 (day after previous audit visit) to 11th May 2021 (first day of 2021 audit).

The Independent Environmental Audit is required to satisfy Schedule 5 Condition 8 of the Project Approval. The Independent Environmental Audit will assess the Project Approval, Statement of Commitments, Environment Protection Licence, Mining Lease, Water Licences (extraction volumes only). The Audit team endorsed by the Department of Planning Industry and Environment (DPIE) is outlined below:

- Chris Jones - Lead Auditor and Rehabilitation;
- Tawna Ryan - Assistant Environmental Auditor;
- Ali Naghizadeh - Air Specialist; and
- Martin Davenport - Noise Specialist.

The Audit team is seeking feedback regarding activities during the Audit period, with this being a requirement of the Department of Planning Industry and Environment Audit Guidelines. Email is the preferable form of communication for feedback.

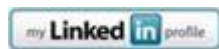
If you would prefer to have your input kept confidential, please call on the number below and the queries will be assessed in the audit but not attributed to you or your organisation.

Thanks
Chris

CHRIS JONES
Principal Environmental Consultant



ABN 32 622 237 870
PO Box 404, WARNERS BAY NSW 2282 AUSTRALIA
e: chris.jones@iema.com.au
m: 0401 800 918 | w: www.iema.com.au



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CCC Chairperson

From: James Hamilton Cultivate Advisory <james@cultivateadvisory.com.au>
Sent: Saturday, 8 May 2021 12:57 PM
To: Chris Jones <chris.jones@iema.com.au>
Subject: RE: CCC Chairperson - Tomingley Gold Audit Feedback

Dear Chris,

I write in relation to your recent email where you requested 'feedback regarding activities'. While this request appears general in nature I'll make the following comments.

Tomingley Gold Mine is fortunate in that it receives broad acceptance from the people who live in Tomingley and the surrounding region. I believe this to be true due to the community engagement TGM undertakes, the support of local events (eg. picnic race club) and their attention to minimising dust and noise.

The proposed expansion of the mine has meant that some people who were not directly affected by the mine will now be. This is in the form of land being purchased by the mine and changes to local roads. TGM is actively engaging with locals directly or through the employment of Susan Benedyka, who specialises in social impact analysis.

The CCC meet as required. It would be unusual to have all CCC members attend a meeting due to individual commitments. The committee is currently looking to have one or two new members join the committee.

I personally have found the employees of TGM who I work with in my capacity as chair to be friendly and helpful. Providing the CCC with relevant information and answering questions when asked.

If you have any further questions please email or call me on 0428 890 151.

Regards,

James Hamilton



CULTIVATE ADVISORY

james@cultivateadvisory.com.au

0428890151

From: Chris Jones <chris.jones@iema.com.au>
Sent: Thursday, 29 April 2021 1:56 PM
To: james@cultivateadvisory.com.au
Subject: CCC Chairperson - Tomingley Gold Audit Feedback

Hi James,

As Lead Auditor, I am writing to you about feedback on the proposed Independent Environmental Audit for the Tomingley Gold Project. The proponent is Alkane Resources Ltd.

The Audit period is proposed from 9th March 2018 (day after previous audit visit) to 11th May 2021 (first day of 2021 audit).

The Independent Environmental Audit is required to satisfy Schedule 5 Condition 8 of the Project Approval. The Independent Environmental Audit will assess the Project Approval, Statement of Commitments, Environment Protection Licence, Mining Lease, Water Licences (extraction volumes only). The Audit team endorsed by the Department of Planning Industry and Environment (DPIE) is outlined below:

- Chris Jones - Lead Auditor and Rehabilitation;
- Tawna Ryan - Assistant Environmental Auditor;
- Ali Naghizadeh - Air Specialist; and
- Martin Davenport - Noise Specialist.

The Audit team is seeking feedback for the CCC Chairperson regarding activities during the Audit period, with this being a requirement of the Department of Planning Industry and Environment Audit Guidelines. Email is the preferable form of communication for feedback.

If you would prefer to have your input kept confidential, please call on the number below and the queries will be assessed in the audit but not attributed to you.

Thanks
Chris

CHRIS JONES
Principal Environmental Consultant



ABN 32 622 237 870
PO Box 404, WARNERS BAY NSW 2282 AUSTRALIA
e: chris.jones@iema.com.au
m: 0401 800 918 | w: www.iema.com.au



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