

KOLOMELA MINE WASTE MANAGEMENT LICENCE AUDIT

Kolomela Mine

Prepared for: Sishen Iron Ore Company (Pty) Ltd

Authority References:

WMLs: Licence No.: 12/9/11/l218/8 and Licence No.: 12/9/11/L460/8



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Edwynn Louw
(Author)



Edward Perry
(Reviewer)

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ACRONYMS AND ABBREVIATIONS

Acronym / Abbreviation	Definition
EIA	Environmental Impact Assessment
DMR	Department of Mineral Resources
DMRE	Department of Mineral Resources and Energy
EA	Environmental Authorisation
EMPr	Environmental Management Programme
SIOC	Sishen Iron Ore Company (Pty) Ltd
Kumba	Kumba Iron Ore
Kolomela	Kolomela Mine
MPRDA	Mineral and Petroleum Resources Development Act (No. 28 of 2002)
MR	Mining right
NEMA	National Environmental Management Act (No. 107 of 1998)
SLR	SLR Consulting (South Africa) (Pty) Ltd
WML	Waste Management Licence

Kolomela Mine Waste Management Licence Audit

1. INTRODUCTION

Sishen Iron Ore Company (Pty) Ltd (SIOC) appointed SLR Consulting (Pty) Ltd (SLR) as an independent environmental consultant, to undertake an external compliance audit against its Kolomela Mine. In this regard, SIOC holds two Waste Management Licences (WMLs) in terms of the National Environmental Management Waste Act, 2008 (Act No. 59 of 2008), as amended, for the Kolomela Mine for the following facilities:

- Hazardous Waste Store (Licence No.: 12/9/11/I218/8) issued on the 6th of April 2010.
- Bioremediation Facility (Licence No.: 12/9/11/L460/8) issued on the 18th of September 2013.

This report presents the findings of the external compliance audit completed for the two WMLs for the Kolomela Mine for the period between December 2020 and November 2021.

2. BACKGROUND

SIOC, owns and operates Kolomela Mine located approximately 8 km southwest of Postmasburg in the Tsantsabane Local Municipality, in the Northern Cape Province. SIOC is the holder of a WML for the operation of a bioremediation facility and the operation of a hazardous waste storage site. The location of the Mine is shown in Figure 1.

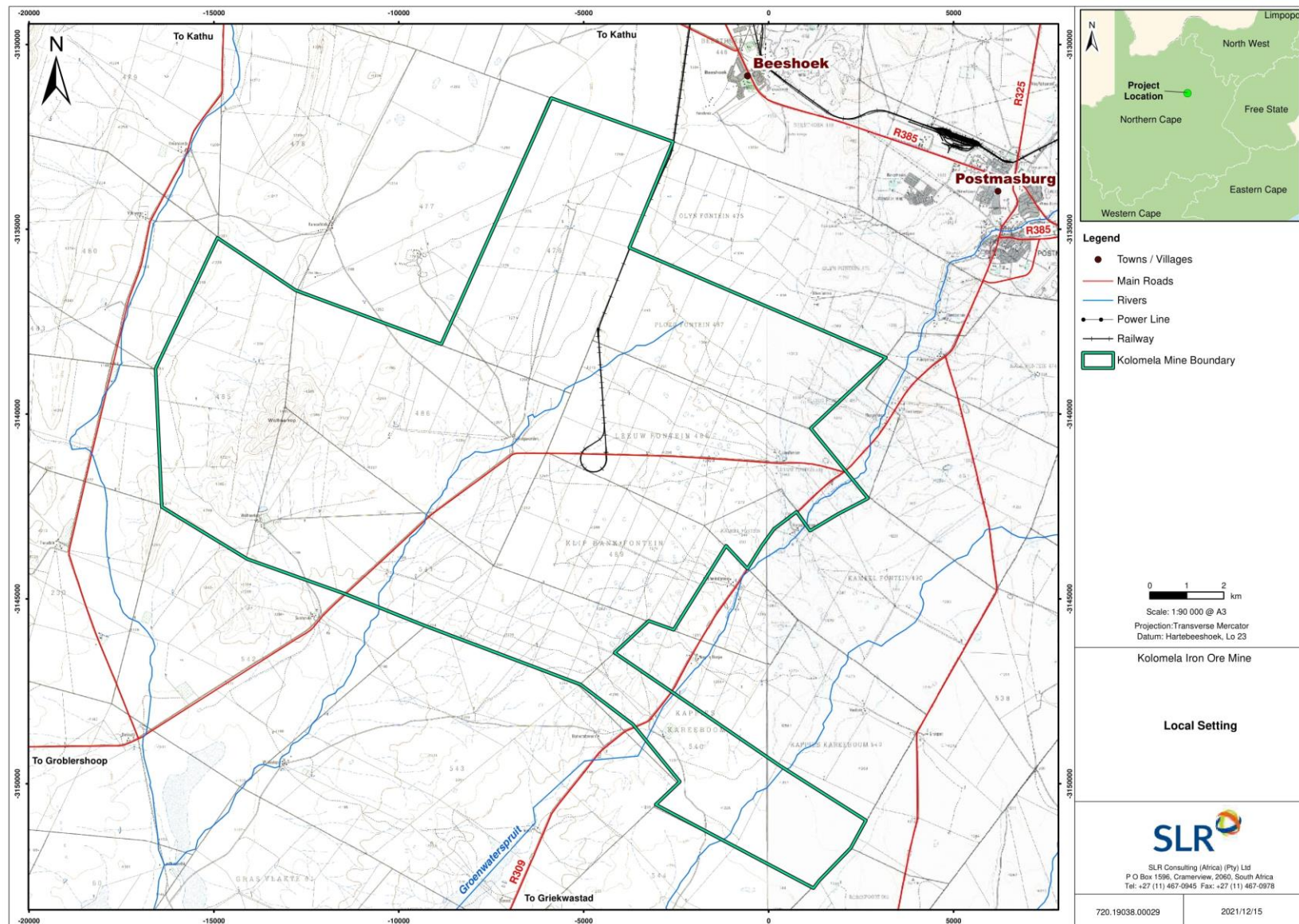


Figure 1: Layout map

3. OBJECTIVES OF THE ENVIRONMENTAL AUDIT REPORT

In accordance with Regulation 982 – Appendix 7 of NEMA, the environmental audit objectives include:

- Assessing the level of compliance with the conditions of the WML including measures and recommendations to be implemented to attend to any non-compliances;
- Identifying and assessing any new impacts and risks as a result of undertaking the activity; and
- Evaluating the continued appropriateness and effectiveness of the WML.

4. DETAILS OF THE AUDITOR

4.1 DETAILS OF THE AUDITOR THAT PREPARED THE REPORT

In accordance with Section 34(2(a) of NEMA, an Environmental Audit Report needs to be prepared by an independent person with relevant environmental auditing experience. The details of the auditors that were involved in the preparation of this WML Audit Report are included in Table 2 below.

SLR does not have any interest in the project other than fair payment for consulting services rendered as part of the environmental audit process and has declared its independence as required by the NEMA, EIA Regulations, 2014, as amended, in Section 11.

Table 1: Details of the auditors (for the full SIOC audit)

Name	Role	Contact details
Edward Perry	Overall review	eperry@slrconsulting.com
Michele Kilbourn Louw	Project manager and Auditor – EMPrs and AEL	mkilbournlouw@slrconsulting.com
Edwynn Louw	Auditor – WUL & WML	011 – 467 0945
Alice Moropa	Auditor – EAs	

4.2 EXPERTISE OF THE AUDIT TEAM

Project Director: Edward Perry

Edward Perry has worked in environmental consultancy for over 20 years for a wide range of public and private sector clients. Since moving to South Africa, Ed has been involved with Environmental and Social Impact Assessments and EAs throughout Africa. Ed has been Project Director of ESIA's for a wide range of facilities including Renewable energy facilities; metal extractive industries; large water storage schemes; new mines, and extensions to mines. Edward has also undertaken a wide range of environmental audits including; due diligence audits, EMPr audits, and over 20 international cyanide code audits of mines throughout Africa. These audits include assessing Environmental, Social and Health Impact Assessments and associated documentation against the requirements of the International Finance Corporation Performance Standards. Edward is a registered Environmental Assessment Practitioner with the Environmental Assessment Practitioners Association of South Africa.

Project Manager and auditor: Michele Kilbourn Louw

Michele Kilbourn Louw has more than 23 years as an environmental consultant and environmental project manager mainly in exploration, feasibility studies and the development of large multifaceted green- and brownfields mine construction projects, and their related linear infrastructure (power, water, roads), much

of which has been in Namibia. Michele has experience in the development, implementation, and auditing of environmental monitoring and management systems. She has also led, or managed, EIAs and EMPs to Equator Principles and World Bank standards.

Auditor: Edwynn Louw

Edwynn Louw has more than 10 years of experience in environmental authorisation and management processes within the South African mining industry. He has worked on many authorisation processes with a focus on water management and has drafted water use licences for various mining related companies including recently West Wits, Tshipi E Ntle, Black Mountain Mining and various associated projects for water service providers, namely the Gert Sibande District Municipality and Sedibeng: Vaal Gamagara. Edwynn has been involved in several mine audits, specialising on water use license commitments. He was involved in the Kolomela Mine basic assessments to consolidate all existing EMPs and WULs to consolidate all existing water uses and include additional water uses in 2013.

Auditor: Alice Moropa

Alice Moropa has over 6 years of experience as an Environmental Consultant undertaking various tasks including Environmental Impact Assessments and Basic Assessments, Environmental Compliance Audits and Environmental Risk Assessments. Alice has extensive experience in the mining, industrial and construction sectors, providing environmental authorisation, environmental compliance and advisory services. Alice has undertaken several mine compliance audits for various mines including coal, gold, vanadium and platinum mines.

5. APPROACH AND METHODOLOGY

5.1 AUDIT SCOPE

Condition 10.2 of WML for the hazardous waste store and Condition 8.2 of the WML for the bioremediation facility requires that the licence holder must appoint an independent external auditor to audit the site biennially (every two years) and the auditor must compile an audit report documenting the findings of the audit. The 7 April 2014 amendment to the Environmental Impact Assessment (EIA) regulations introduced the requirement for the auditing for all WMLs in effect on 8 December 2014. This audit is undertaken as an annual compliance audit to ensure Kolomela's compliance against the WML and has been structured to meet the requirements of Regulation 34 of the EIA Regulations, 2014.

The objective of the audit is to:

- Assess the level of compliance with the conditions of the WML;
- Identify and assess any new impacts and risks that result from undertaking the activity;
- Evaluate the effectiveness of the WML;
- Monitor the progress made on findings from the 2020 audit; and
- Make recommendations in order to achieve compliance in terms of the WML.

5.2 AUDIT LEGISLATIVE REQUIREMENTS

In accordance with Regulation 34 (1) of the EIA Regulations (GNR. 982) of 2014, the holder of an Environmental Authorisation ("EA") (or a WML) in terms of the NEMA (as amended) must, during the period which the WML remains valid:

- Ensure compliance with the conditions of the WML, is audited; and
- Submit an environmental audit report to the relevant competent authority.

Regulation 34 (1) provides for the auditing of a WML. Furthermore, Appendix 7 of Government Notice Regulation (GNR) 982 outlines the required audit report content.

Table 2: Audit Requirements as Per Appendix 7 of Government Notice Regulation (GNR) 982

Sub-Section	An environmental audit report prepared in terms of these Regulations must contain	Report Reference	Section
a	Details of- (i) the independent person who prepared the environmental audit report; and (ii) the expertise of independent person that compiled the environmental audit report.	Section 4	
b	A declaration that the independent auditor is independent in a form as may be specified by the competent authority.	Section 11	
c	An indication of the scope of, and the purpose for which, the environmental audit report was prepared.	Section 3 Section 5	
d	A description of the methodology adopted in preparing the environmental audit report.	Section 5	
e	An indication of the ability of the EMPr, and where applicable, the closure plan to- (i) sufficiently provide for the avoidance, management, and mitigation of environmental impacts associated with the undertaking of the activity on an on-going basis; (ii) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility; and (iii) ensure compliance with the provisions of environmental authorisation, EMPr, and where applicable, the closure plan.	Section 6 and 7	
f	A description of any assumptions made, and any uncertainties or gaps in knowledge.	Section 8	
g	A description of any consultation process that was undertaken during the course of carrying out the environmental audit report.	No stakeholder engagement was undertaken	
j	A summary and copies of any comments that were received during any consultation process.	No stakeholder engagement was undertaken	
k	Any other information requested by the competent authority.	None requested	

5.3 ASSESSMENT PERIOD

This report presents the findings of the compliance audit completed for the various WMLs for Kolomela Mine for the period December 2020 and November 2021.

5.4 DOCUMENTATION CONSIDERED

- All applicable operational procedures for the site as part of the Kolomela Environmental Management System (EMS);
- Incident management plan and records of incidents that occurred on site;
- Complaints procedure and most up to date Complaints register;
- Training records to make employees aware of EMP conditions;
- Various proof of submission of documents to authorities;
- Previous External Waste Management Licence (WML) Audit Report (2020);
- Previous External IWUL Audit Report (2020);
- Waste management records, such as inventory, storage volumes and types, and hazardous waste manifests;
- Emergency preparedness plan;
- Ground and surface water monitoring reports;
- Groundwater model;
- Waste management officer appointment;
- Water & Salt balance, including records of water abstraction, use, storage, and discharge; and
- Integrated Water and Waste Management Plan (IWWMP).

5.5 ASSESSMENT METHODOLOGY

The report is based on the findings of an assessment conducted by the SLR audit team which included the review of all the documentation requested and provided by SIOC. An assessment checklist was compiled using the conditions of the WML commitments for the Kolomela Mine. A site visit took place on 7th-9th November 2021. Three SLR personnel undertook the physical audit (Alice Moropa, Edwynn Louw and Michelle Kilbourn Louw).

5.6 EVALUATION CRITERIA

A simple scoring system was used to quantify compliance against the conditions of the WML commitments (see Table 3). This method allows for the compliance of the site against the WML to be quantified and an overall percentage of compliance to be calculated. The completed checklist shows the compliance category allocated to each of the WML conditions (see Appendix A).

Table 3: Compliance categories

Category	Explanation
Compliant (C)	Complies with the commitment or condition fully
Partially Compliant	Complies with some aspects of the commitment or condition but not fully
Non-Compliant (NC)	Does not comply with the commitment or condition
Not Applicable (N/A)	Condition is not applicable to the current audit period or scope

Category	Explanation
Noted	The commitment is noted and cannot be subjected to audit. Noted conditions may become applicable in the future and should be considered in the planning of the licensee's action plan.

6. SUMMARY OF AUDIT FINDINGS AND RECOMMENDATIONS

This section presents the key findings of overall compliance with the conditions of the WMLs commitments for the Kolomela Mine. The detailed results are presented in Appendix A.

The audit findings have been summarised into the following categories: Compliant, Non-Compliant, Partially Compliant, Not Applicable and Noted. At the time of the assessment, Kolomela achieved a compliance rate of 80% with the conditions of the WML, with the 15% not being applicable or noted, and 5% being partially or fully non-compliant (see Table 4 and Figure 2).

Table 4: Summary of level of compliance

Audit category	Compliance with EA conditions	Overall compliance as a percentage
Compliant	129	80%
Partially Compliant	4	2.5%
Non-Compliant	4	2.5%
Not Applicable	24	15%
Noted	0	0%
Total	161	100%

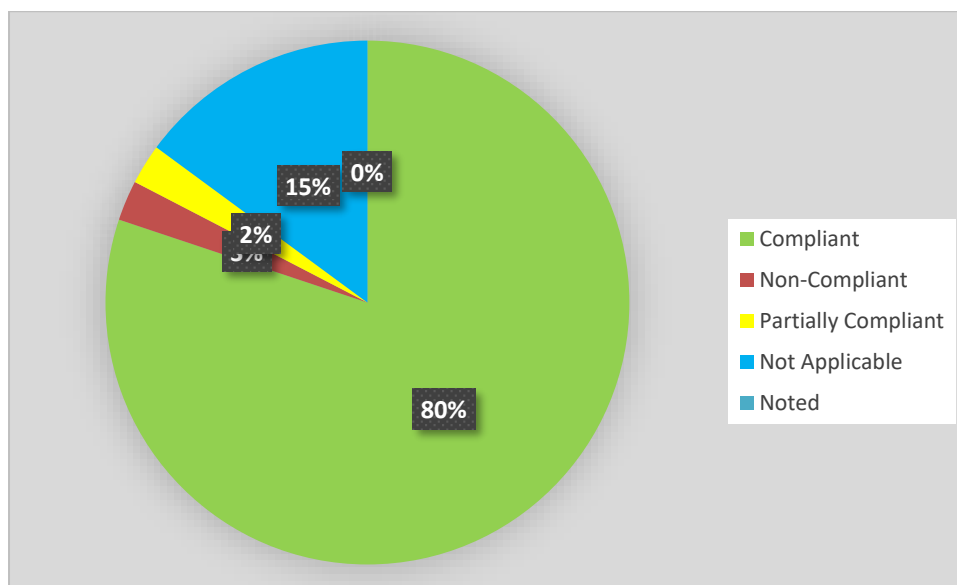


Figure 2: Compliance in terms of all WML conditions

Several WML conditions were found to be not applicable at the time of this audit. As such, consideration is given to the compliance rate when these conditions are excluded to provide a true reflection of the mine's compliance with the WML conditions (See Figure 3). In this regard, Kolomela achieved a 94% compliance rate, and an 6% non-compliance / partial compliance rate.

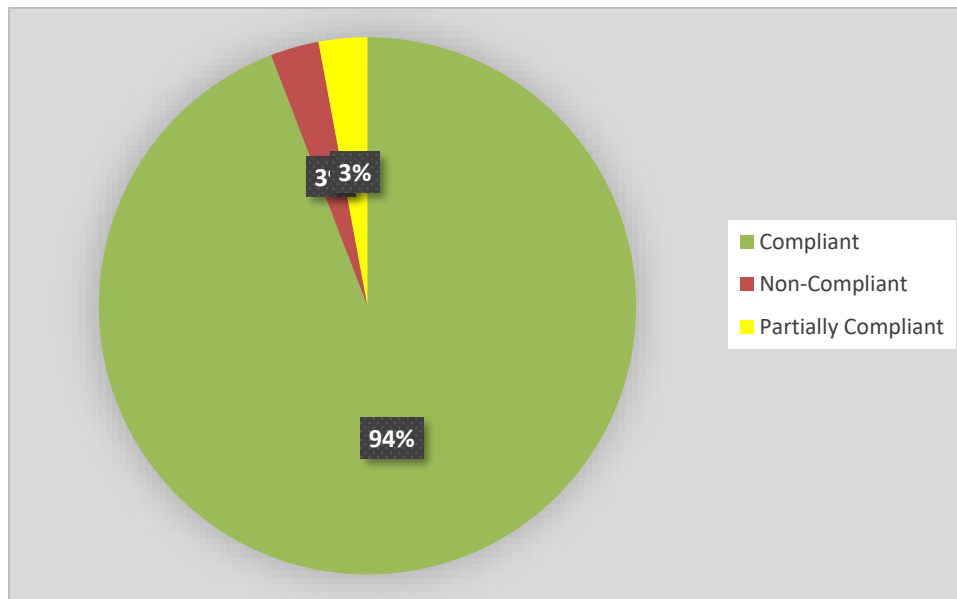


Figure 3: Compliance with applicable WML conditions

7. AREAS REQUIRING IMPROVEMENT

The principal area of non-conformance with the requirements of the WML is related to the submission of various documents and proof of submission of documents to authorities, storage of hazardous materials, hydrocarbons on open ground without a waterproof cover, and conducting biannual (twice per year) internal audits of the WML. The following photographs provide evidence of the non-conformances.

Table 5: Areas identified that require improvement

Areas identified that require improvement – DMS Plant	
Poor hydrocarbon management	
Dirty water from the above locations at the DMS plant is pumped to the informal PCD described above.	
	
Hydrocarbon waste is being stored on open ground without a cover / tarpaulin to prevent contamination of run-off. Various hydrocarbon spillages were observed at the parking area which has not been cleaned up.	
Areas identified that require improvement – HME bund area	
Poor hydrocarbon management	
	
An open skip containing hydrocarbons was stored outside of the bunded area. It is noted that open ground is being used as a parking area. This parking area is not fit for purpose as it is open ground with the ground inclination allowing for dirty water to flow into the clean water diversion channel which reports to the environment.	

Areas identified that require improvement – DMS Plant



The HME bund has various hydrocarbon drums without lids. Additionally, the bund is considered to be on no use as the water is allowed to report to a dirty water channel through a pipe without a valve to control egress of water from the bund.

Areas identified that require improvement – LDV refueling area



A hydrocarbon spill / leak observed at the underground diesel storage tanks.

Areas identified that require improvement – Moolmans



Contaminated soil is stored on open ground, without an appropriate tarpaulin / cover.



Hydrocarbon waste is stored on open ground, without an appropriate tarpaulin / cover.

8. PROGRESS AGAINST PREVIOUS AUDIT FINDINGS

A compliance audit was previously undertaken by EXM Advisory for the 2020 audit period. Figure 4 below depicts a comparison of the mine's compliance rate with the WML conditions between the previous (2020) and current (2021) audit periods. Overall no change in the compliance rating with the WML conditions from 94% in 2020 to 94% in 2021 is noted, however the severity of non-compliance has improved.

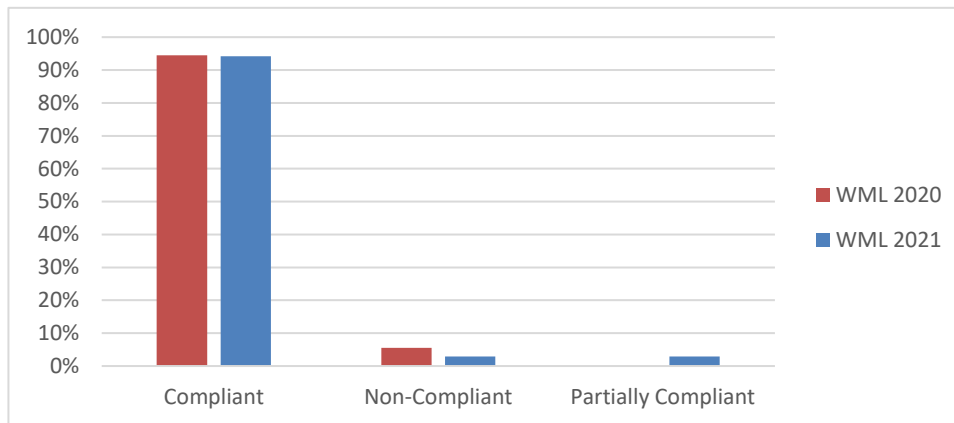


Figure 4: 2020/2021 WML Compliance Rate Comparison

9. ASSUMPTIONS AND LIMITATIONS

The following assumptions and limitations apply to this environmental audit:

- The information reported and findings contained in this WMLs Audit Report are considered accurate to the best of SLR's knowledge and are based on available documentation and verbal discussions held with the mine at the time of the assessment.
- The report presents findings and observations made during the audit period between December 2020 and November 2021. Findings and observations evident prior to or after this period have not been accounted for in the compliance of the mine with the respective WMLs
- No risk assessments were undertaken as part of this audit as it was not deemed necessary due to the nature of the audit.
- This report must not be altered or added to without the prior written consent of the author. This includes electronic copies of the report which are supplied for the purposes of inclusion as part of other reports.
- Recommendations, statements, or conclusions drawn from or based on this report must refer to this report. If this report is used as part of a main report, the report in its entirety must be included as an appendix or separate section to the main report

10. CONCLUSION AND RECOMMENDATIONS

Section 34 and Appendix 7 of the EIA Regulations 2014 (as amended) requires an assessment of the adequacy and effectiveness of the WMLs as part of the audit scope, as follows:

- Assess the level of compliance with the conditions of the WML including measures and recommendations to be implemented to attend to any non-compliances;

- Identify and assess any new impacts and risks as a result of undertaking the activity; and
- Evaluate the continued appropriateness and effectiveness of the WML.

Kolomela achieved an overall compliance rate of 94%. The WMLs are deemed appropriate and effective and do not require any amendments.

10.1 CONTINUED APPROPRIATENESS AND EFFECTIVENESS OF THE WML

The conditions contained in the WML(s) are deemed adequate to manage the environmental risks associated with the waste management activities at the respective sites.

See Appendix A for details of actions that should be undertaken to address the non-conformances identified.

11.DECLARATION OF INDEPENDENCE

INDEPENDENT AUDITOR DECLARATION

Appendix 7 of GNR 982 refers to the need for the independent auditor to declare his/her independence of the holder of the WML.

Name Of Independent Auditor: Edwynn Louw

UNDERTAKING

I, Edwynn Louw, the undersigned and duly authorized thereto, by SLR, have adequately assessed the Kolomela's Mine operations against the mine's WML and compiled this report to the best of my knowledge. I also hereby declare that neither myself nor SLR, an independent consulting firm, have any interest or personal gains in this project whatsoever, except receiving fair payment for rendering an independent professional service.

Signed at SLR (Fourways) on this the 18th February 2022.



SIGNATURE OF INDEPENDENT AUDITOR

APPENDIX A: WML CHECKLIST

Table 6: Compliance Checklists

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
LICENCE NO.: 12/9/11/L218/8 (HAZARDOUS WASTE STORE)									
1	Site Details								
1.1	The licence authorises the temporary storage of general and hazardous waste on Farm Strydfontein 614 (Formerly Leeuwfontein 488) within the Magisterial District of Siyanda District Council, Postmastburg in the Northern Cape Province (hereinafter referred to as "the site") according to the Sishen South Iron Ore Company (Pty) Ltd, Sishen South Project Temporary Hazardous Waste Storage Area Exemption Application Report compiled by Synergistics Environmental Services, dated 28 January 2009 (hereinafter referred to as "the Report"), submitted by the licence holder.						The site has been constructed on the relevant property indicated in the WML.	N/A	N/A
1.1.1	The location of the site must be according to co-ordinates indicated on the Licence application form, submitted by the Licence holder which is defined as follows (Refer to Licence).						The site has been constructed on the relevant property indicated in the WML.	N/A	N/A
1.2	Documents Considered						No implementable conditions contained in this section		
1.2	Site Security and Access Control								

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
1.2.1	The licence holder must ensure effective access control of the waste management site to prevent unauthorised entry. Weather proof, durable and legible signs in at least three official languages applicable in the area must be displayed at each entrance to the site. The signs must indicate the risks involved in entering the site, must include the name, address and telephone number of the licence holder and the person responsible for the operation of the site						Signage has been placed at the entrance of the site that conforms to the requirements.	N/A	N/A
1.2.2	The licence holder must prevent treatment of waste that is not authorised for treatment at the site						No other waste than specified is stored at the facility.	N/A	N/A
2	Management								
2.1	General Management								

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
2.1.1a	The activities must be managed and operated: In accordance with an Environmental Management System (EMS), that inter alia identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the licence holder as a result of complaints; b) in accordance with conditions of this licence and any other written instruction by the Director; and by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.						The site is managed in accordance with procedure that form part of the Mine's EMS and is accredited in terms of ISO14001. The site operator (Interwaste) is also ISO 14001 accredited. The holder of the licence is aware of the conditions of the licence and the site is managed in line with the conditions contained herein. The site is being managed by an external contractor (Interwaste). They are a reputable company and has a long history and experience in waste management.	N/A	N/A
2.1.2	Any persons having duties that are or may be affected by the matters set out in this Licence must have convenient access to a copy of it, kept at or near the place where those duties are carried out. A copy of this licence may be published on any website deemed fit by the Department						A copy of the licence is kept at the facility as well as at the environmental department.	N/A	N/A
2.2	Designation of Waste Management Control Officer								
2.2.1	A Waste management Control Officer (WMCO) must be designated, who will monitor and ensure compliance and correct implementation of all conditions and provisions as stipulated in the licence.						A section manager for waste has been designated, namely Mr Izak Gous. This person is responsible to monitor and ensure compliance at this site.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
1.2.2	The duties and responsibilities of the WMCO should not be seen as exempting the licence holder from the legal obligations in terms of the NEM: WA.						The licence holder takes note of this condition.	N/A	N/A
2.3	Emergency Preparedness Plan								
2.3.1	The license holder must maintain and implement an emergency preparedness plan and review it annually when conducting an audit, after each emergency incident and major incident. The plan must include: a) equipment malfunction b) site fires c) spillages d) natural disasters e) contact details of the nearest police station, ambulance services and emergency centre						Kolomela Mine implements the procedure for emergency preparedness and response document: KOL-SHE-ENV-PRO-0008. This document was approved on 28 June 2019, however is only due for update on 28 June 2022.	Licence holder to update the procedure for emergency preparedness and response document on an annual basis.	Licence holder
3	Permissible Waste								
3.1	Any portion of the Site, which has been constructed or developed according to condition 4 below, may be used for storage of asbestos sheets, Hydrocarbon contaminated rags, Hydraulic pipes, Empty drums with residues of hazardous materials, used filters, Fluorescent Tubes, Contaminated soils, Used Cooking oils, used laboratory oil, Laboratory waste, used oils and lubrication, Laboratory Acids, Rid salts and general						No other waste than specified is stored at the facility.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
	waste generated as part of the day-today operations of Sishen South Mine.								
4	Construction of the Facility								
4.1	The construction of the site must be according to the engineering drawing (site plan) that is approved by a registered professional engineer as compliant with recognised civil engineering standards						The site was constructed, and the design approved by a professional, registered engineer.	N/A	N/A
4.2	The site plan must only be changed under the supervision of a registered professional engineer						The site plan was not changed during the audit period.	N/A	N/A
4.3	The treatment facility must have firm and impermeable base to prevent contamination of groundwater						Hazardous waste is stored in a building with a roof and cement floor. A trench with a sump has been established to ensure that spills are captured to prevent water contamination.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
4.4	The licence holder must construct and maintain on a continuous basis, drainage and containment system capable of collecting and storing all contaminated runoff water arising from the site in the event of 1:100 year rain event. The system must under the said rainfall event, maintain a freeboard of one meter						All storage where hazardous waste is stored is adequately banded. The system also complies with the storm water requirements.	N/A	N/A
5	General Impact Management and Operation								
5.1	Impact Management								
5.1.1	Licence holder must prevent spillages; where they happen nonetheless, condition 2.3.1 above should be improved and the licence holder must ensure the effective and safe cleaning of such spillages						No spillages were observed during the site visit. Spill response equipment is available at the site. Spillages are managed according to a hazardous substances management procedure.	N/A	N/A
5.1.2	Licence holder must prevent nuisance conditions or health hazards, or the potential creation of nuisance condition or health hazards.						No health hazards or nuisance conditions were observed during the site audit.	N/A	N/A
5.1.3	Licence holder must ensure that all non-recyclable waste are disposed of at waste management facilities licenced to handle such waste and all recyclable waste are collected by licence waste management facilities for recycling, reuse or treatment.						Kolomela is implementing its Zero Waste to Landfill Strategy. The portion of waste disposed of has decreased significantly since the commencement of this facility as most of the waste is distributed for reuse and recycling. Relevant documentation for external reputable parties that accept waste from	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
							Kolomela was provided during the audit, namely Interwaste (Masakhane), and Averda (Vlakfontein WMF).		
5.1.4	Licence holder must ensure that all liquid wastes, whose emissions to water or land could cause pollution is only diverted to sewer only after receiving written approval from the relevant local authority.						No liquid waste is diverted to any municipal sewer works.	N/A	N/A
5.1.5	Licence holder must ensure that emissions from the activities are free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Department and interested and affected parties.						The facility is well managed, and no odour was present that could be perceived as likely to cause a nuisance.	N/A	N/A
5.1.6	Licence holder must ensure that all personnel who works with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risk involved. Records of training and verification of competence must be kept by the licence holder.						The site is managed in accordance with procedure that form part of the Mine's EMS and is accredited in terms of ISO14001. The site operator (Interwaste) is also ISO 14001 accredited. The holder of the licence is aware of the conditions of the licence and the site is managed in line with the conditions contained herein. The site is being managed by an	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
							external contractor (Masakhane Interwaste). Interwaste is a reputable company and has experience and various other appointments in hazardous waste management.		
5.1.7	Licence holder must ensure that all personnel who works with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risk involved. Records of training and verification of competence must be kept by the licence holder.						No overfilled skips were observed during the site visit. The area is generally very well managed.	N/A	N/A
5.2	Operation								
5.2.1	Licence Holder must make sure all the hazardous waste are stored in sealed containers or drums stored under roofed and well-ventilated areas prior to disposal.						Hazardous waste is stored in sealed containers and/ or drums under a roofed, well-ventilated area. All of the different types of hazardous waste are also stored separately.	N/A	N/A
5.2.2	Licence Holder must ensure that the storage area is surrounded by an interception trench with a sump or outlet valve for intercepting and recovering potential spills.						Hazardous waste is stored in sealed containers and/ or drums under a roofed, well-ventilated area. All of the different types of hazardous waste are also stored separately.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
5.2.3	All liquid wastes must be stored in leak proof waste storage containers.						All liquid waste is stored in leak proof containers.	N/A	N/A
5.2.4	Wastewater resulting from the cleaning of floors and machinery and stormwater from the storage areas must only be discharged into the natural environment after testing that it conforms to this Department's requirements and discharge into sewer must also be after testing and obtaining written authorisation from the relevant local authority.						Wastewater resulting from the cleaning of floors and machinery and stormwater from the storage areas must only be discharged into the natural environment after testing that it conforms to this Department's requirements and discharge into sewer must also only be after testing and obtaining written authorisation from the relevant local authority.	N/A	N/A
5.2.5	The licence holder must ensure separation of general and hazardous waste. Where mixing of waste occurs the waste must be considered hazardous.						The licence holder takes note of this condition. General and hazardous waste separation was clearly observed during the site audit.	N/A	N/A
5.2.6	Sixteen-point MSDS must be available on site for all chemicals and hazardous substances stored or used on-site.						MSDS were made available during the site visit.	N/A	N/A
6.	Monitoring								
6.1	Monitoring Methods and Parameters								
6.1.1	The licence holder must carry out all tests required in terms of this licences in accordance with published laboratory analysis or those prescribed by and obtainable from the South Africa Bureau of Standards (SABS), referred to in the Standards Act,2008 (Act 08 of 2008)						The licence holder takes note of this condition.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
6.2	Water Quality Monitoring								
6.2.1	Surface water monitoring shall be performed in all storm water drains on and adjacent to the Site at locations selected in conjunction with the Department of Water Affairs and at such a frequency as determined by the responsible authority.						Kolomela mine has an extensive surface and groundwater monitoring programme around the mine. However, surface water monitoring is not conducted within the first hour of rain at all storm water drains outlets that discharge into the natural environment. This condition is not practical as external consultants are appointed to conduct water sampling on a scheduled basis as required by the mine’s Water Use Licence.	It is recommended that the licence holder should apply for an amendment of this condition to remove the requirement to monitor the integrity of the base of the facility.	Licence holder
7.	Investigations								
7.1	If, in the opinion of the Director, environmental pollution, nuisances or health risks may be occurring on Site, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem.						Responsibility of the Director.	N/A	N/A
7.2	If in the opinion of the Director and or Director RPW, water pollution may be occurring or is occurring, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem. Such investigation must include the monitoring of the water quality variables at those monitoring points and at such frequency as may be specified by Director; PW.						Responsibility of the Director.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
7.3	Investigation carried out in terms of conditions 7.1 and 7.2 above must include the monitoring of the relevant environmental pollution, nuisance and health risk variables at these monitoring points and such frequency to be determined in consultation with the Director.						See conditions 7.1 and 7.2 above.	N/A	N/A
7,4	Investigation carried out in terms of conditions 7.1 and 7.2 above must include the monitoring of the relevant environmental pollution, nuisance and health risk variables at these monitoring points and such frequency to be determined in consultation with the Director.						See conditions 7.1 and 7.2 above.	N/A	N/A
8.	Records								
8.1	Internal Audits must be conducted biannually by the licence holder and on each audit occasion an official report must be complied by the relevant auditor to report the finding of the audit, which must be made available to the external auditor specified in condition 8.2.1						The licence holder has conducted one of two biannual audit of every condition of this licence. The Licence holder implements a comprehensive ISO14001 Environmental Management System (EMS) on the mine. The system is well developed and adequately implemented to ensure compliance to this authorisation.	It is recommended that internal audits must be conducted biannually (twice per year) to assess compliance with the conditions of the WML(s).	Licence holder
8.2	External Audits								

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
8.2.1	The Licence holder must appoint an independent external auditor to audit the storage area biennially and this auditor must compile an audit report documenting the findings of the audit, which must be submitted by the Licence holder according to condition 10.7, below.						This audit has been developed to comply to this condition. The annual water quality report appended to this document complies with condition b & e.	N/A	N/A
8.2.2	The audit report must: a) specifically state whether conditions of this licence are adhered to. b) include an interpretation of all available data and test results regarding the operation of the site and all its impacts on the environment. c) Specify target dates for the implementation of the recommendation by the Licence holder to achieve compliance. d) contain recommendation regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the licence holder and whether corrective action taken for the previous audit non-conformities was adequate. e) show monitoring results graphically and conduct trend analysis						This audit has been developed to comply to this condition. The annual water quality report appended to this document complies with condition b & e.	N/A	N/A
8.3	Departmental audits and inspections								
8.3.1	The Department reserves the right to audit and/or inspect the Site without prior notification at any						The licence holder takes note of this condition.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
	time and frequency as may be determined by the Director.								
8.3.2	The Licence holder must make any records or documentation available to the Director upon request, as well as any other information he/she may require.						The licence holder takes note of this condition.	N/A	N/A
8.3.3	The findings of these audits or inspections must be made available to the Licence holder within 30 days of the end of the audit or inspection. Information from the audits must be treated in accordance with the Promotion of Access to Information Act, 2000 (Act 2 of 2000).						The licence holder takes note of this condition.	N/A	N/A
9.	Reporting								
9.1	The Licence holder must keep records and update all the information referred to in Annexure II and submit this information to the Director and the Director: RPW on an annual basis.						Submission of information as per annexure II to the Director has been provided. Dated 17 December 2020	N/A	N/A
9.2	All records required or resulting from activities required by this Licence must: a) be legible; b) be made as soon as reasonably practicable and should form part of the external audit report; c) if amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable; and d) be retained in accordance with a documented procedures which is approved by the Department.						The licence holder takes note of this condition.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
9.3	Records demonstrating compliance with condition 2.1.1 must be maintained.						Records proving Mr Izak Gous has been appointed as a WMCO was provided for the audit.	N/A	N/A
9.4	The licence holder must keep records of all waste disposal certificates						Comprehensive records regarding waste disposal were available for review during the audit. A waste manifest is maintained for hazardous waste managed at the facility. Safe disposal certificates were available for review.	N/A	N/A
10.	Reporting								
10.1	The Licence holder must, within 24 hours notify the Director of the occurrence or detection of any incident on the Site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.						The licence holder takes note of this condition. No such incident has occurred which had the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.	N/A	N/A
10.2	The Licence holder must, within 14 days, or a shorter period of time, if specified by the Director from the occurrence or detection of any incident referred to in condition 10.1, submit an action plan, which must include a detailed time schedule, and resource allocation signed off by top management, to the satisfaction of the Director and/or the Director: RPW of measures taken to - a) correct the impact resulting from the incident; b) prevent the incident from causing any further						The licence holder takes note of this condition. No such incident has occurred during the audit period.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
	impact; and c) prevent a recurrence of a similar incident.								
10.3	In the event that measures have not been implemented within 21 days of the incident to address impacts caused by the incident referred to in condition 10.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the Licence holder.						The licence holder takes note of this condition. No such incident has occurred during the audit period.	N/A	N/A
10.4	The Licence holder must keep an incident report and complaints register, which must be attached available to the external auditor. Departmental and DWA Auditors for the purpose of audit.						All complaints are managed according to a complaints management procedure. The complaints register was available for review. No complaints have been received which relates to the site from December 2020 to June 2021.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
10.5	The Department must be notified without delay in the case of the following: a) any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused. is causing or may cause significant pollution; b) the breach of this Licence; and c) any significant adverse environmental and health effects.						The licence holder takes note of this condition. No such incident has occurred.	N/A	N/A
10.6	The Department must be notified within 14 days of the following changes: a) Licence holder's trading name, registered name or registered office address; b) Particulars of the Licence holder's ultimate holding company (including details of an ultimate holding where a Licence holder has become a subsidiary; c) steps taken with a view to the Licence holder, or any one of them, going into bankruptcy, entering into composition or arrangement with creditors, or ,in the case of them being in a partnership, dissolving the partnership.						The licence holder takes note of this condition. No changes to licence holder have taken place since approval of the WML.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
10.7	The Department must be notified within 14 days of the following changes: a) Licence holder's trading name, registered name or registered office address; b) Particulars of the Licence holder's ultimate holding company (including details of an ultimate holding where a Licence holder has become a subsidiary; c) steps taken with a view to the Licence holder, or any one of them, going into bankruptcy, entering into composition or arrangement with creditors, or ,in the case of them being in a partnership, dissolving the partnership.						The 2020 external audit report was submitted in May 2021; however, the 2020 external audit is dated 17 December 2020.	Licence holder to ensure external WML audit is submitted to authorities within 1 month of completion.	Licence holder
11.	Rehabilitation and closure								
11.1	The licence holder must rehabilitate the site or any portion thereof, in accordance with a closure report and rehabilitation plan, which must submit to the Director for approval at least one year prior to the intended closure of the Site, or any portion thereof. The licence holder must rehabilitate the site or any portion thereof, in accordance with a closure report and rehabilitation plan, which must submit to the Director for approval at least one year prior to the intended closure of the Site, or any portion thereof.						The licence holder takes note of this condition. This will be submitted during the closure phase.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
11.2	The Licence holder will remain responsible for the Site, and/or any of its impacts on the environment, after operations on the site have ceased.						The licensee takes note of this condition. The site is currently operational.	N/A	N/A
12	Leasing and alienation of the site								
12.1	Should the Licence holder want to alienate or lease the site, he/she shall notify the Director in writing of such an intention at least 120 days prior to the said transaction. Should the approval be granted, the subsequent licence holder shall remain liable to compliance with all licence conditions.						The licensee has not alienated or leased the site.	N/A	N/A
13	Transfer of Waste Management Licence								
13.1	Should the licence holder want to transfer holder-ship of this, he/she must apply in terms of Section 52 of the National Environmental Management: Waste Act, 2008 (Act No 59 of 2008).						The licensee takes note of this condition. The licence has not been transferred.	N/A	N/A
13.2	Any subsequent licence holder shall be bound by conditions of this licence						The licensee takes note of this condition.	N/A	N/A
14	General								
14.1	The construction of the Licence activity may not commence within twenty (20) days of the date of signature of this Licence.						Construction commenced after 30 days from signature of the licence.	N/A	N/A
14.2	Should you be notified by the Minister of a suspension of the licence pending any appeals decision, you may not commence with the activities licensed by the Minister in writing.						No instruction suspending the licence has been issued by the Minister.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
14.3	After the appeal period has expired and no good cause to extend the appeal period has been submitted, the activity may commence provided a notice has been submitted to the Department. The notice must include a date on which it is anticipated that the activity will commence.						No appeal was lodged.	N/A	N/A
14.4	The activity must commence within a period of two (2) years from the date of issue If commencement of the activity does not occur within that period, the licence lapses and a new application for a licence must be made in order for the activity to be undertaken.						Construction of the facility commenced within 2 years from the date of issuance.	N/A	N/A
14.5	If the Licence Holder anticipates that commencement of the activity would not occur within two (2) year period, he/she must apply and show good cause for an extension of the licence six (6) months prior to its expiry date.						Refer to condition 14.4 above.	N/A	N/A
14.6	This Licence shall not be transferable unless such transfer is subject to condition 13.1.						The licensee takes note of this condition. The licence has not been transferred.	N/A	N/A
14.7	This Licensee shall not be construed as exempting the Licence Holder from compliance with the provisions of National and Provincial Legislation and any relevant Ordinance, Regulation, By-law or relevant National Norms and Standards.						The licensee takes note of this condition.	N/A	N/A
14.8	Transgression of any condition of this Licence could result in the Licence being withdrawn by the Department.						The licensee takes note of this condition.	N/A	N/A

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14.9	Non-compliance with a condition of this Licence may result in criminal prosecution or other action provided for in Section 67 (1) of the National Environmental Management; Waste Act,2008						The licensee takes note of this condition.	N/A	N/A
14.10	Any committees appointed in terms of the application or any other public authority or organization shall not be held responsible for any damages or losses suffered by the Licence Holder or his/her successor in title in any instance where construction or operation are to be temporarily or permanently stopped for reasons of non-compliance						The licensee takes note of this condition.	N/A	N/A
14.11	In terms of section 28 and 30 of the National Environmental Management Act No. 107 of 1998, and section 19 and 20 of the National Water Act No. 36 of 1998, any costs Incurred to remedy environmental damage must be borne by the person responsible for the damage. It is therefore Imperative that the Licence Holder reads through and understand the legislative requirements pertaining to the project. It is the Applicant's responsibility to take reasonable measures which Include Informing and educating contractors and employees about environmental risks of their vi/work and training them to operate in an environmental acceptable manner.						The licensee takes note of this condition. All relevant employees have been informed of their duties and associated risks.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
14.21	This licence is valid for a period of twenty (20) years and the licence holder must Initiate a licence review process 10 years from the date of issue. Based on the results of the review, compliance to licence conditions or recommendations from audit reports and or changing legislation, the licence could be amended or withdrawn or validity thereof extended.						The licensee takes note of this condition. The licence was issued on the 6th of April 2010. The licence holder is in the process to register the facility in terms of the Norms and Standards for the Storage of Waste as well as the Norms and Standards for the Sorting and Baling of Waste. The registration will replace the WML, and the licence holder will have to comply with the requirements of the Norms and Standards	N/A	N/A
15	Appeal of Licence								
15.1	The Licence Holder must notify every registered interested and affected party, in writing and within twelve (12) days of receiving the Department's decision.						The licence holder notified all Interested and Affected parties of the Departments decision.	N/A	N/A
15.2	The notification to in 14.1 must-								
15.2.1	Specify the date on which the Licence was issued;						The notification letter included the required information.	N/A	N/A
15.2.2	Inform the registered interested and affected party of the appeal procedure provided for in Chapter 7 of GN No.R 543 of 18 June 2010 in terms of National Environmental Management Act, 1998, as amended (see Annexure 1);								

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15.2.3	Advise the interested and affected party that a copy of the Licence will be furnished on request; and								
15.2.3	An appeal against the decision must be lodged in terms of chapter 7 of GN No. R 543 of June 2010 in terms of NEMA 1998, as amended, from the date of this licence with; The Minister, Department of Environmental Affairs, Private Bag x 447, Pretoria, 0001, Tel No. (012) 310 3705, Email; AppealsDirectorate@environment.gov.za								

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
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LICENCE NO.: 12/9/11/L460/8 (BIOREMEDIATION FACILITY)									
1	Site Details								
1.1.1	The licence authorises the construction of a bioremediation facility and treatment of contaminated soil at Kolomela Mine located on the Farm Strydfontein 614, Postmasburg within the jurisdiction of the Siyanda District Municipality in the Northern Cape Province						The site has been constructed on the relevant property as indicated on the Licence	N/A	N/A
1.1.2	The location of the site must be in accordance with the coordinates in the table related to this condition						The site is located approximately 90 metres south of the location described in the condition. The site was relocated from the original location to improve the stormwater management at the site.	It is recommended that the licensee apply for an amendment to this condition to ensure that the coordinates correlate with the location of the facility.	Licence holder
1.2	Documents Considered								
1.3	Site Security and Access Control								
1.3.1	The license holder must ensure effective access control of the waste management site to prevent unauthorised entry. Weather proof, durable and legible signs in at least three official languages applicable in the area must be displayed at each entrance to the site. The signs must indicate the risks involved in entering the site, must include the name, address and telephone number of the						A sign has been placed at the facility as required by the licence. Although the site itself has not been fenced, it is located within the greater Kolomela mine which implements strict access control measures.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
	licence holder and the person responsible for the operation of the site								
1.3.2	The licence holder must prevent treatment of waste that is not authorised for treatment at the site						The site is authorised to treat hazardous waste. No other waste is treated at this site	N/A	N/A
2	Management								
2.1	General Management								
2.1.1a	The activities shall be managed and operated in accordance with the documented EMS that inter alia, identifies and minimises the risk of pollution, including those arising from operations, maintenance, accidents, incidents and non conformance as well as those drawn to the attention of the licence holder as a result of complaints						The management of the site is in accordance with a procedure that forms part of the Mine's EMS which is accredited terms of ISO14001.	N/A	N/A
2.1.1b	The activities shall be managed and operated in accordance with conditions of this licence and any other written instruction by the director						The holder is aware of the conditions of this licence and actively manages and operates the site in line with the conditions contained herein.	N/A	N/A

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		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
2.1.1c	The activities shall be managed and operated by an adequate, competent staff complement						The site is managed by a competent manager and coordinator that has experience in conducting waste treatment related to this the facility. Training is conducted according to a Training Needs Analysis (TNA) as part of the mine's EMS.	N/A	N/A
2.1.2	All mitigation measures and recommendations contained in the BAR and EMP are binding and must be implemented, unless stated differently in this licence						A full compliance assessment in terms of the requirements of the BAR and EMP is outside the scope of this audit.	N/A	N/A
2.1.3	Any persons having duties that are or may be affected by this licence must have convenient access to a copy thereof, which copy must be kept at or near the place where those duties are carried out						A copy of the licence is kept at the Environmental Department and is available to all employees.	N/A	N/A
2.1.4	A copy of this licence may be published by the Department, in its discretion, on any website or other media						The licence holder takes note of this condition	N/A	N/A
2.2	Designation of Waste Management Control Officer								
2.2.1	A waste management control officer (WMCO) must be designated to monitor and ensure compliance and correct implementation of all mitigation measures and provisions as stipulated in the licence and standard operation procedures						A section manager for waste has been designated, namely Mr Izak Gous. This person is responsible to monitor and ensure compliance at this site.	N/A	N/A

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		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
2.2.1a	The WMCO must report any non-compliance with any licence condition or requirement or provisions of NEM: WA to the licencing authority						The WMCO will notify the Department of the outcome of this audit and report any non-compliances	N/A	N/A
2.2.2	The duties and responsibility of the WMCO should not be seen as exempting the licence holder from any other legal obligations in terms of NEM: WA						The licence holder takes note of this condition.	N/A	N/A
2.3	Emergency Preparedness Plan								
2.3.1	The license holder must maintain and implement an emergency preparedness plan and review it annually when conducting and audit, after each emergency incident and major incident. The plan must include: a) equipment malfunction b) site fires c) spillages d) natural disasters e) contact details of the nearest police station, ambulance services and emergency centre						The site operates under the ambit of the overarching Kolomela emergency preparedness plan.	N/A	N/A
3	Permissible Waste								
3.1	Any portion of the site, which has been constructed or developed according to condition 4 below, may be used for the bioremediation of contaminated soil						Waste is sorted and managed according to the Kolomela waste management procedure. No other waste types are treated at the facility.	N/A	N/A

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3.2	The classification, acceptance and disposal criteria as listed in the latest edition of the document "Minimum requirements for handling, classification and disposal of hazardous waste, waste management series, Department of Water Affairs and Forestry "or its successor must be conformed to						Waste at the facility is managed according to the Waste Classification and Management Regulations which replaced the Minimum requirements for handling, classification and disposal of hazardous waste.	N/A	N/A
4	Construction of the Facility								
4.1	The construction of the site must be according to the engineering drawing (site plan) that is approved by a registered professional engineer as compliant with recognised civil engineering standards						The site was constructed, and the design approved by a professional, registered, engineer.	N/A	N/A
4.2	The site plan must only be changed under the supervision of a registered professional engineer						The site plan has not been changed during the audit period.	N/A	N/A
4.3	The treatment facility must have firm and impermeable base to prevent contamination of groundwater						The facility's base consists of a clay layer with a conveyor belt liner on top.	N/A	N/A
4.4	The licence holder must construct and maintain on a continuous basis, drainage and containment system capable of collecting and storing all contaminated runoff water arising from the site in the event of 1:100 year rain event. The system must under the said rainfall event, maintain a freeboard of one meter						The system complies with the stormwater requirements. A freeboard of more than a meter was observed.	N/A	N/A
5	General Impact Management and Operation								
5.1	Impact Management								

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
5.1.1	Waste, which is not permissible on site, must be dealt with according to relevant legislation or the Departments policies and practices.						Waste is sorted and managed according to Kolomela Mine's waste management procedure. Inappropriate waste types are not treated at the facility.	N/A	N/A
5.1.2	The license holder must prevent spillages. Where they happen nonetheless, condition 2.3.1 above shall apply and the licence holder must ensure the effective and safe cleaning of such spillages.						Spillages are logged as environmental incidents and investigated to ensure that actions are implemented to remedy any potential pollution incidents.	N/A	N/A
5.1.3	Contaminated soil should not be stockpiled in areas where surface water may accumulate, in drainage channels or areas susceptible to erosion. All contaminated soil should be kept in a manner that will reduce the possibility of loss of the contaminated soil in the event of precipitation.						No contaminated soil was stockpiled outside of the bioremediation facility where it could be affected by precipitation.	N/A	N/A
5.1.4	The licence holder must ensure that treatment of any contaminants which might be done on site must not impact on a water resource or any other persons water use, property or land and must not be detrimental to the health and safety of the public in the vicinity of the site.						No surface spillages were evident and the groundwater monitoring data downstream of the site shows no impact from the activities at the bioremediation site.	N/A	N/A
5.1.5	The licence holder must ensure that contaminated water does not enter the storm water drainage						Runoff from the bioremediation facility is captured in a sump. No discharge of affected water occurs at the facility.	N/A	N/A

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		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
5.1.6	The licence holder must prevent the occurrence of nuisance conditions or health hazards.						No nuisance conditions, nor health hazards were observed during the site audit.	N/A	N/A
5.1.7	The licence holder must ensure that all personnel who work with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risks involved. Records of training and verification of competence must be kept by the licence holder.						No nuisance conditions, nor health hazards were observed during the site audit.	N/A	N/A
5.2	Operation								
5.2.1	The licence holder must ensure that the treatment facility operates within its design parameters at all times.						The facility was not overfull at the time of the audit.	N/A	N/A
5.2.2	The licence holder must ensure that solid waste from the treatment process is disposed of at a waste management facility licenced to accept such waste						Waste is sorted and managed according to Kolomela Mine's waste management procedure. Inappropriate waste types are not treated at the facility.	N/A	N/A
5.2.3	The licence holder must take all reasonable steps to ensure that the integrity of the waterproof base and infrastructure are routinely monitored and corrective action must be taken before containment integrity is breached						Due to the operation of the site, the base of the facility cannot be physically inspected without disturbing it. The holder has drilled a downstream monitoring borehole that serves to monitor changes in the groundwater regime to indicate if the liner is not operating within specification. Current monitoring indicated no pollution at the borehole. The integrity of the liner	It is recommended that Kolomela Mine should apply for an amendment of this condition to remove the requirement to monitor the integrity of the base of the facility, but rather to monitor borehole	Licence holder

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							however still cannot be monitored. This condition is not practical and should be amended.	LF710 and monitor for an expanded set of hydrocarbon testing including diesel range organic compounds, (DRO) to expand on the current oil and grease (SOG) testing undertaken by Kolomela Mine.	
5.2.4	The licence holder must ensure that the treated effluent that is discharged into the sewer system is only discharged after obtaining written approval from the relevant authority.						No effluent is currently discharged into the sewer system, nor in the future.	Licensee may apply for this condition to be removed.	
5.2.5	No effluent must be discharged into any storm water drain or furrow whether by commission or by omission						No effluent is currently discharged into the sewer system, nor in the future.	N/A	N/A
6.	Monitoring								
6.1	Monitoring Methods and Parameters								
6.1.1	The licence holder must carry out all tests required in terms of this licences in accordance with published laboratory analysis or those prescribed by and obtainable from the South Africa Bureau of Standards (SABS), referred to in the Standards Act,2008 (Act 08 of 2008)						The licence holder carries out the tests approved in the EMS procedure at an accredited laboratory	See 5.2.3 for additional monitoring recommendation.	

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		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
6.1.2	The licence holder may only use another of analysis if approved by the Department.						The licence holder takes note of this condition.	N/A	N/A
6.2	Water Quality Monitoring								
6.3.1	If, in the opinion of the Director or Director; RPW, a water quality variable at any monitoring point referred to in condition 6.2.1 above shows an increasing trend, the licence Holder shall report in terms of condition 9 below						Responsibility of the Director.	N/A	N/A
7.	Investigations								
7.1	If, in the opinion of the Director, environmental pollution, nuisances or health risks may be occurring on Site, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem.						Responsibility of the Director.	N/A	N/A
7.2	If in the opinion of the Director and or Director RPW, water pollution may be occurring or is occurring, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem. Such investigation must include the monitoring of the water quality variables at those monitoring points and at such frequency as may be specified by Director; RPW.						Responsibility of the Director.	N/A	N/A
7.3	Should the investigation carried out as per conditions 7.1 and 7.2 above reveal any unacceptable levels of pollution, the Licence Holder must submit mitigation measures to the satisfaction of the Director.						See conditions 7.1 and 7.2 above.	N/A	N/A

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8.	Records								
8.1	The Licence Holder must keep records update all the information referred to in Annexure II and submit this information to the Director on an annual basis.						Proof of submission of information as per annexure II to the director provided.	N/A	N/A
8.2	All records or resulting from activities required by this Licence must;						The licence holder takes note of this condition.	N/A	N/A
8.2a	Be legible;								
8.2b	Be made as soon as reasonable practicable and should form part of the external audit report;								
8.2c	If amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable; and								
8.2d	Be retained in accordance with documented procedures.								
8.3	Records demonstrating compliance with condition 2.1.1 must be maintained for five years.						The licence holder takes note of this condition	N/A	N/A
9.	Reporting								
9.1	The Licence Holder must, within 24 hours, notify the Director of the occurrence or detection of any incident on Site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risk, nuisance conditions or water pollution.						No environmental incidents have occurred at the site between December 2020 and June 2021.	N/A	N/A

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
9.2	The Licence Holder must, within 14 days, or a shorter period of time, if specified by the Director, from the occurrence or detection of any incident referred to in condition 9.1 submit an action plan, which must include a detailed time schedule, and resource allocation, signed off by top management to the satisfaction of the Director and/or the Director; RPW of measures taken to-						No environmental incidents have occurred at the site between December 2020 and June 2021.	N/A	N/A
9.2a	Correct the impact resulting from the incident;							N/A	N/A
9.2b	Prevent the incident from causing any further impact; and							N/A	N/A
9.2c	Prevent a recurrence of a similar incident.							N/A	N/A
9.3	In the event where measures have not been implemented within 21 days of the incident to address impact caused by the incident referred to in condition 9.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the Licence Holder.						No environmental incidents have occurred at the site. The licence holder takes note of this condition.	N/A	N/A
9.4	The Licence Holder must keep an incident and complaint register, which must be attached to the external audit report as well as the Director and DWA for audit purposes.						An incident and complaints register is available and being used at the mine that includes this site. The register will be included with the next audit report.	N/A	N/A
9.5	The Department must be notified without delay in the case of the following;						No concerns have been raised on conditions 9.5 a-c.		

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9.5a	Any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is cause or may cause significant pollution;							N/A	N/A
9.5b	The breach of this Licence; and							N/A	N/A
9.5c	Any significant adverse environmental and health effects.							N/A	N/A
9.6a	The Department must be notified within 14 days of the following changes; a) Licence Holder `s trading name, registered name or registered office address;						The licence holder details have not changed.	N/A	N/A
9.6b	Particulars of the Licence Holder`s ultimate holding company (including details of an ultimate holding where a licence holder has become a subsidiary; and						The licence holder details have not changed.	N/A	N/A
9.6c	Steps, taken with a view to the Licence Holder, or any one of them, going into bankruptcy, entering into arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.						The licence holder is not any of the financial positions described	N/A	N/A
9.7	Each external audit report referred to in condition 10.2 below must be submitted to the Director within 30 days from the date on which the external auditor finalised the audit report						The 2020 external audit report was submitted in May 2021; however the 2020 external audit is dated 17 December 2020.	licence holder to ensure external WML audit is submitted to authorities within 1 month of completion.	Licence holder
10.	Auditing								

Nr	COMMITMENT	COMPLIANCE					FINDING/COMMENT	RECOMMENDATION	RESPONSIBLE PERSON
		COMPLIANT	NON-COMPLIANT	PARTIALLY COMPLIANT	NOT APPLICABLE	NOTED			
10.1	Internal Audits								
10.1.1	Internal audits must be conducted annually by the Licence Holder and on each audit occasion an official report must be compiled by the relevant auditor to report the findings of the audits, which must be made available to the external auditor specified in condition 10.2.1						The licence holder has conducted one of two biannual audit of every condition of this licence. The Licence holder implements a comprehensive ISO14001 Environmental Management System (EMS) on the mine. The system is well developed and adequately implemented to ensure compliance to this authorisation.	It is recommended that internal audits must be conducted biannually (twice per year) to assess compliance with the conditions of the WML(s).	Licence holder
10.2.	External Audits								
10.2.1	The Licence Holder must appoint an independent external auditor to audit the site biennially and the auditor must compile an audit report documenting the finding of the audit, which must be submitted by the licence holder according to condition 9.7 above						The previous audit was undertaken in 2020 by EXM.	N/A	N/A
10.2.2	The audit report must;						The report includes an assessment of the level of compliance with the WML conditions. Monitoring and reporting was discussed as required. Trend analysis is included in the annual water quality Monitoring report which will be submitted to the department.	N/A	N/A
10.2.2a	Specifically state whether conditions of the licence holder are adhered to;								
10.2.2b	Include an interpretation of all available data and test results regarding the operation of the site and its impacts on the environment;								
10.2.2c	Specify target dates for the implementation of the recommendations by the Licence Holder to achieve compliance;								

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10.2.2d	Contain recommendations regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the Licence Holder and whether corrective action taken for the previous audit non conformities was adequate; and								
10.2.2e	Show monitoring results graphically and conduct trend analysis.							Licence holder to ensure annual water quality Monitoring report is submitted to the department with the external audit report.	Licence holder
10.3	Department Audits and Inspections								
10.3.1	The Department reserves the right to audit and/or inspect the Site without prior notification at any time and at such frequency as may be determined by the Director.						These conditions are noted by the licence holder. No inspections have been undertaken by the Department.	N/A	N/A
10.3.2	The Licence Holder must make any records or documentation available to the Director upon request, as well as any other information he/she may require.							N/A	N/A
11.	Leasing and Alienation of Site								
11.1	Should the Licence Holder want to alienate or lease the Site, he/she must notify the Director in writing of such an intention at least 120 days prior to the said transaction for approval.						The site is not leased or planned to be alienated.	N/A	N/A

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11.2	Should the approval be granted, the subsequent Licence Holder shall remain liable for compliance with all licence condition.							N/A	N/A
12	Transfer of Waste Management Licence								
12.1	Should the Licence Holder want to transfer the Licence, he/she must apply in terms of Section 52 of the National Environmental; Waste Act,2008(Act No59 of 2008)						The licence holder has not transferred the licence.	N/A	N/A
12.2	Any subsequent Licence Holder shall be bound by conditions of the licence.							N/A	N/A
13.	General								
13.1	The construction of the Licence activity may not commence within twenty (20) days of the date of signature of this Licence.						Construction commenced after 20 days of signature of the licence.	N/A	N/A
13.2	Should the Licence Holder be notified by the Minister in writing of a suspension of the Licence pending any appeals decision, you may not commence with the activities licence by the Minister.						No instruction suspending the licence has been issued by the Minister.	N/A	N/A
13.3	After the appeal period has expired and no good cause to extend the appeal period has been submitted, the activity may commence provided a notice has been submitted to the Department. The notice must include a date on which it is anticipated that the activity will commence.						The holder did not notify the Department of commencement. This is a historical non-compliance. The Department is aware of the operations at the facility.	N/A	N/A

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13.4	The activity must commence within a period of two (2) years from the date of issue. If commencement of the activity does not occur within that period, the licence lapses and a new application for a licence must be made in order for the activity to be undertaken.						The activity commenced within 2 years of issuance of the WML.	N/A	N/A
13.5	If the Licence Holder anticipates that commencement of the activity would not occur within two (2) year period, he/she must apply and show good cause for an extension of the licence six (6) months prior to its expiry date.						The activity commenced within 2 years of issuance of the WML.	N/A	N/A
13.6	This Licence shall not be transferable unless such transfer is subject to condition 12.1.						The licence has not been transferred.	N/A	N/A
13.7	This Licence shall not be construed as exempting the Licence Holder from compliance with the provisions of National and Provincial Legislation and any relevant Ordinance, Regulation, By-law or relevant National Norms and Standards.						The licence holder takes note of this condition.	N/A	N/A
13.8	Transgression of any condition of this Licence could result in the Licence being withdrawn by the Department.						The licence holder takes note of this condition.	N/A	N/A
13.9	Non-compliance with a condition of this Licence may result in criminal prosecution or other action provided for in Section 67 (1) of the National Environmental Management; Waste Act, 2008						The licence holder takes note of this condition.	N/A	N/A

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13.10	In terms of section 28 and 30 of the NEMA and section 19 and 20 of the National Water Act No.36 of 1998, any costs incurred to remedy environmental damage must be borne by the person responsible for the damage. It is therefore imperative that the Licence Holder reads through and understands the legislative requirements pertaining to the project. It is the Applicant's responsibility to take reasonable measures which include informing and educating contractors and employees about the environmentally acceptable manner.						The licensee takes note of this condition. All relevant employees have been informed of their duties and associated risks.	N/A	N/A
13.11	This Licence is valid for a period of ten (10) years and shall be reviewed every five (05) years from the date of issue or at any time before or after that date. Based on the results of the review, especially compliance to Licence conditions or recommendations from the audit reports and or changing legislation, the Licence could be amended or withdrawn, or the validity thereof extended.						The licence expires in September 2023 and was due for review in September 2018. The Competent Authority did not initiate a review of the licence.	N/A	N/A
14.	Appeal of Licence								
14.1	The Licence Holder must notify every registered interested and affected party, in writing and within twelve (12) days of receiving the Department's decision.						The licence holder notified all IAPs of the Departments decision.	N/A	N/A
14.2	The notification to in 14.1 must-								
14.2.1	Specify the date on which the Licence was issued;							N/A	N/A

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14.2.2	Inform the registered interested and affected party of the appeal procedure provided for in Chapter 7 of GN No. R 543 of 18 June 2010 in terms of National Environmental Management Act, 1998, as amended (see Annexure 1);						The notification letter included the required information.	N/A	N/A
14.2.3	Advise the interested and affected party that a copy of the Licence will be furnished on request; and							N/A	N/A
14.2.4	An appeal against the decision must be lodged in terms of chapter 7 of GN No. R 543 of June 2010 in terms of NEMA 1998, as amended, from the date of this licence with; The Minister, Department of Environmental Affairs, Private Bag x 447, Pretoria, 0001, Tel No. (012) 310 3705, Email; AppealsDirectorate@environment.gov.za							N/A	N/A

SLR Reference:	720.19038.00029
Title:	Kolomela Mine Waste Management Licence Audit
Report Number:	1
Client:	Kolomela Iron Ore Company- Kolomela Mine

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