



Licence

Environmental Protection Act 1986, Part V

Licensee: Kimberley Metals Group Pty Ltd

Licence: L8549/2011/1

Registered office: Level 2
 41-47 Colin Street
 WEST PERTH
 WA 6005

ACN: 114 123 572

Premises address: Ridges Iron Ore Project
 Mining Tenements M80/599, M80/600, L80/55 and G80/15
 Great Northern Highway WA 6740
 As depicted in Schedule 1.

Issue date: Thursday, 2 June 2011

Commencement date: Monday, 6 June 2011

Expiry date: Sunday, 5 June 2016

Prescribed premises category

Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
05	Processing or beneficiation of metallic or non-metallic ore	50 000 tonnes or more per year	50 000 tonnes per year
64	Class II Putrescible landfill	20 tonnes or more per year	125 tonnes per year

Conditions

This Licence is subject to the conditions set out in the attached pages.

Date signed: 12 November 2015

.....
Alana Kidd
Manager Licensing – (Resource Industries)
 Officer delegated under section 20
 of the *Environmental Protection Act 1986*



Contents

Licence	1
Contents	2
Introduction	2
Licence conditions	4
1 General	4
2 Monitoring	7
3 Information	10
Schedule 1: Maps	12
Schedule 2: Reporting & notification forms	15

Introduction

This Introduction is not part of the Licence conditions.

DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This Licence is issued under Part V of the Act. Conditions contained within the Licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link:

<http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.



Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

Kimberley Metals Group (KMG) commenced mining haematite iron ore from the Ridges Iron Ore Project (RIOP) mine site located approximately 165 kilometres (km) south of Wyndham under licence L8549/2011/1. Ore from the RIOP mine site was hauled to the Barge Loading Facility (BLF) in Wyndham via Road Trains on the Great Northern Highway. Ore from the mine was stockpiled at the BLF located adjacent to Barytes Road in Wyndham then loaded onto a 1,200tph conveyor loading system into a barge to be transferred to a ship anchored in deeper water in the Cambridge Gulf. The BFL is approved under Licence L8557/2011/1.

On 6 February 2015 KMG placed the RIOP and the BLF on Care and Maintenance (C&M). During the RIOP/BLF C&M period, activities undertaken on site will be limited, but not exclusive to those outlined below.

- There will be no mining activity;
- There will be no grade control drilling;
- There will be no drill and blasting;
- There will be no activities related to ore processing (i.e. screening and crushing of ore);
- There will be no haulage of ore within the RIOP, or from RIOP to the BLF;
- There will be limited civil works occurring on site; and
- Site-wide maintenance and upkeep will be undertaken.

Public access to RIOP will be prevented by the installation of earthen bunds and a C&M security team will monitor the site.

This Licence is the result of an amendment sought by the Licensee on 4 August 2015 to reduce the approved category 5 capacity to the minimum category design capacity due to the mine being in care and maintenance.

The licences and works approvals issued for the Premises since 21/04/2011 are:

Instrument log		
Instrument	Issued	Description
W4899/2011/1	21/04/2011	New Works Approval issued.
L8549/2011/1	02/06/2011	New Licence issued.
L8549/2011/1	03/01/2013	Licence amendment.
W5420/2013/1	31/05/2013	New Works Approval issued.
W5719/2014/1	09/10/2014	New Works Approval issued.
W5728/2014/1	16/10/2014	New Works Approval issued.
L8549/2011/1	12/11/2015	Licence amendment to reduce Category 5 capacity and to update licence.



Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

END OF INTRODUCTION

Licence conditions

1 General

1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

'Act' means the *Environmental Protection Act 1986*;

'annual period' means the inclusive period from 1 July until 30 June in the following year;

'AS/NZS 5667.1' means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

'AS/NZS 5667.11' means the Australian Standard AS/NZS 5667.11 *Water Quality – Sampling – Guidance on sampling of groundwaters*;

'averaging period' means the time over which a limit is measured or a monitoring result is obtained;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;
Chief Executive Officer
Department Administering the Environmental Protection Act 1986
Locked Bag 33
CLOISTERS SQUARE WA 6850
Email: info@der.wa.gov.au

'Clean Fill' has the meaning defined in Landfill Definitions;

'controlled waste' has the definition in *Environmental Protection (Controlled Waste) Regulations 2004*;

'Inert Waste Type 1' has the meaning defined in Landfill Definitions;

'Inert Waste Type 2' has the meaning defined in Landfill Definitions;

'Landfill Definitions' means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Environment as amended from time to time;



'Licence' means this Licence numbered L8549/2011/1 and issued under the Act;

'Licensee' means the person or organisation named as Licensee on page 1 of the Licence;

'mbgl' means metres below ground level;

'NATA' means the National Association of Testing Authorities, Australia;

'NATA accredited' means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

'putrescible waste' has the meaning defined in the Landfill Definitions;

'quarantine storage or container' means a hardstand storage area or sealed-bottom container that is separate and isolated from authorised waste disposal areas and is capable of containing all non-conforming waste and its constituents, these areas must be clearly marked and their access restricted to authorised personnel;

'Schedule 1' means Schedule 1 of this Licence unless otherwise stated;

'Schedule 2' means Schedule 2 of this Licence unless otherwise stated;

'spot sample' means a discrete sample representative at the time and place at which the sample is taken; and

'µS/cm' means microsiemens per centimetre.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

1.1.5 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:

- (a) pollution;
- (b) unreasonable emission;
- (c) discharge of waste in circumstances likely to cause pollution; or
- (d) being contrary to any written law.

1.2 General conditions

1.2.1 The Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.

1.2.2 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.3 The Licensee shall:

- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
- (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.¹



Note1: *The Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.

1.3 Premises operation

1.3.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit in this section.

1.3.2 The Licensee shall ensure that where wastes produced on the Premises are not taken off-site for lawful use or disposal, they are managed in accordance with the requirements in Table 1.3.1.

Table 1.3.1: Management of waste		
Waste type	Management strategy	Requirements
Inert Waste Type 1	Receipt, handling and disposal of waste by landfilling	<p><u>All waste types</u></p> <ul style="list-style-type: none"> • No more than 125 tonnes per year of all waste types cumulatively shall be disposed of by landfilling in the Class II Landfill; • Disposal of waste by landfilling shall only take place within the landfill area shown on the Map in Schedule 1; • Construction, operation and decommissioning of landfill cells can occur within the defined landfill area providing there is no waste within: <ul style="list-style-type: none"> ○ 100 m of any surface water body; and ○ 3 m of the highest level of the water table aquifer; • Waste shall be placed in a defined trench or within an area enclosed by earthen bunds; • The active tipping face shall be restricted to a maximum vertical height of 3 m; and • The active tipping face shall be fenced to effectively control windblown waste.
Clean Fill, Bioremediated soils and other wastes as described for Class II Waste within the Landfill Definitions		
Putrescible Waste		
Inert Waste Type 2		

Note 1: Requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations 1987*.

Note 2: Additional requirements for the acceptance of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

1.3.3 The Licensee shall ensure that where waste does not meet the waste types set out in Table 1.3.1 it is stored in a quarantined storage area or container and removed to an appropriately authorised facility as soon as practicable.



- 1.3.4 The Licensee shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 1.3.2 and that sufficient stockpiles of cover are maintained on site at all times.

Table 1.3.2: Cover requirements ¹			
Waste Type	Material	Depth	Timescales
Clean Fill	No cover required		
Inert Waste Type 1			
Putrescible waste	Inert waste type 1, soil or clay	Sufficient to ensure waste is totally covered and no waste is left exposed	At least weekly during operation of the landfill.
	Inert waste type 1, soil, or clay	1000mm	Within 3 months of achieving final waste contours.
Inert Waste Type 2	Type 1 Inert waste, soil or clay	100mm	By the end of the working day in which the waste was deposited. Plastic waste with the potential to become windblown shall be covered as soon as practicable after deposit.

Note 1: Additional requirements for the covering of tyres are set out in Part 6 of the *Environmental Protection Regulations 1987*.

- 1.3.5 The Licensee shall ensure that no waste is burnt on the Premises.
- 1.3.6 The Licensee shall ensure the limits specified in Table 1.3.3 are not exceeded.

Table 1.3.3 Production or design capacity limits		
Category¹	Category description¹	Premises production or design capacity limit
5	Processing or beneficiation of metallic or non-metallic ore	50,000 tonnes of ore per annual period

Note 1: *Environmental Protection Regulations 1987*, Schedule 1.

2 Monitoring

2.1 General monitoring

- 2.1.1 The Licensee shall ensure that:
- all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - all groundwater sampling is conducted in accordance with AS/NZS 5667.11;
 - all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.
- 2.1.2 The Licensee shall ensure that:
- quarterly monitoring is undertaken at least 45 days apart; and
 - annual monitoring is undertaken at least 9 months apart.
- 2.1.3 The Licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.



2.2 Monitoring of inputs and outputs

2.2.1 The Licensee shall undertake the monitoring in Table 2.2.1 according to the specifications in that table.

Table 2.2.1: Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Waste Inputs	Inert Waste Type 1 Inert Waste Type 2 Putrescible Waste Clean Fill Other waste that comply with Class II criteria in the landfill definitions	m ³ (where no weighbridge is present)	N/A	Each load disposed at the Premises
Waste Outputs	Waste type as defined in the Landfill Definitions			Each load rejected from the Premises

2.3 Process monitoring

2.3.1 The Licensee shall undertake the monitoring in Table 2.3.1 according to the specifications in that table and record and investigate results that do not meet any limit specified.

Table 2.3.1: Process monitoring						
Monitoring point reference	Process description	Parameter	Limit	Units	Frequency	Method
-	Recycled water used for dust suppression or otherwise discharged off the premises	Total Recoverable Hydrocarbons (TRH)	15	mg/L	Quarterly during operations	None specified

2.4 Ambient environmental quality monitoring

2.4.1 The Licensee shall undertake the monitoring in Table 2.4.1 according to the specifications in that table.



Table 2.4.1: Monitoring of ambient groundwater quality				
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
RMB04, RMB07	Standing water level	mbgl	Spot sample	Annually
	Electrical Conductivity ¹	µs/cm		
	pH ¹	-		
	Total Dissolved Solids	mg/L		
	Total Recoverable Hydrocarbons (TRH)			
	Petroleum Hydrocarbons:			
	C6–C9			
	C10–C14			
	C15–C28			
	C29–C36			
	Hardness (as equivalent CaCO ₃)			
	Total Alkalinity (as CaCO ₃)			
	Total Nitrogen (TN)			
	Total Phosphorus (TP)			
	Bicarbonate (HCO ₃)			
	Carbonate (CO ₃)			
	Nitrite (NO ₂)			
	Sulphate (SO ₄)			
	Hydroxide (OH)			
	Aluminium (Al)			
	Arsenic (As)			
	Barium (Ba)			
	Boron (B)			
	Cadmium (Cd)			
	Calcium (Ca)			
	Chromium (Cr)			
	Cobalt (Co)			
	Copper (Cu)			
	Iron (Fe)			
	Lead (Pb)			
	Magnesium (Mg)			
	Manganese (Mn)			
	Mercury (Hg)			
Molybdenum (Mo)				
Nickel (Ni)				
Potassium (K)				
Selenium (Se)				
Sodium (Na)				
Vanadium (V)				
Zinc (Zn)				

Note 1: In-field non-NATA accredited analysis permitted.



3 Information

3.1 Records

- 3.1.1 All information and records required by the Licence shall:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) except for records listed in 3.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
 - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 3.1.2 The Licensee shall ensure that:
- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
 - (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.
- 3.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.
- 3.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

3.2 Reporting

- 3.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by 31 October in each year. The report shall contain the information listed in Table 3.2.1 in the format or form specified in that table.

Table 3.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
Table 1.3.3	Ore processed during operations	None specified
Table 2.2.1	Monitoring of inputs and outputs during operations	None specified
Table 2.3.1	Process monitoring during operations	None specified
Table 2.4.1	Monitoring of ambient groundwater quality	GR1
3.1.3	Compliance	Annual Audit Compliance Report (AACR)
3.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

- 3.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:
- (a) any relevant process, production or operational data recorded under Condition 2.1.3; and



- (b) an assessment of the information contained within the report against previous monitoring results and Licence limits.

3.3 Notification

3.3.1 The Licensee shall ensure that the parameters listed in Table 3.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 3.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form²
	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day.	N1
		Part B: As soon as practicable	
-	Production ceasing for an unspecified period of time	As soon as practicable after the decision has been made.	None Specified
-	Production recommencing	At least 28 days prior to production recommencing.	None specified

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

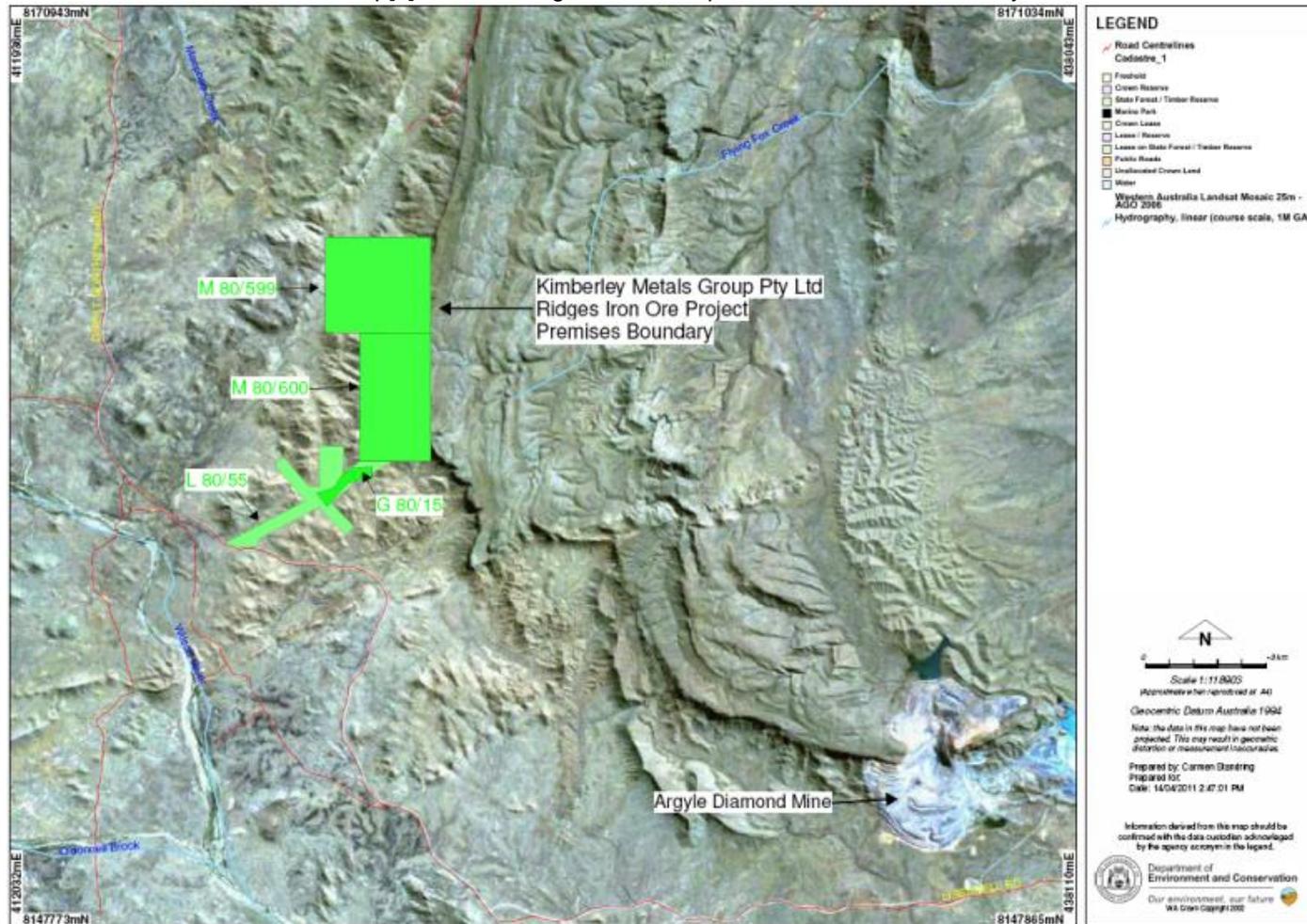
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

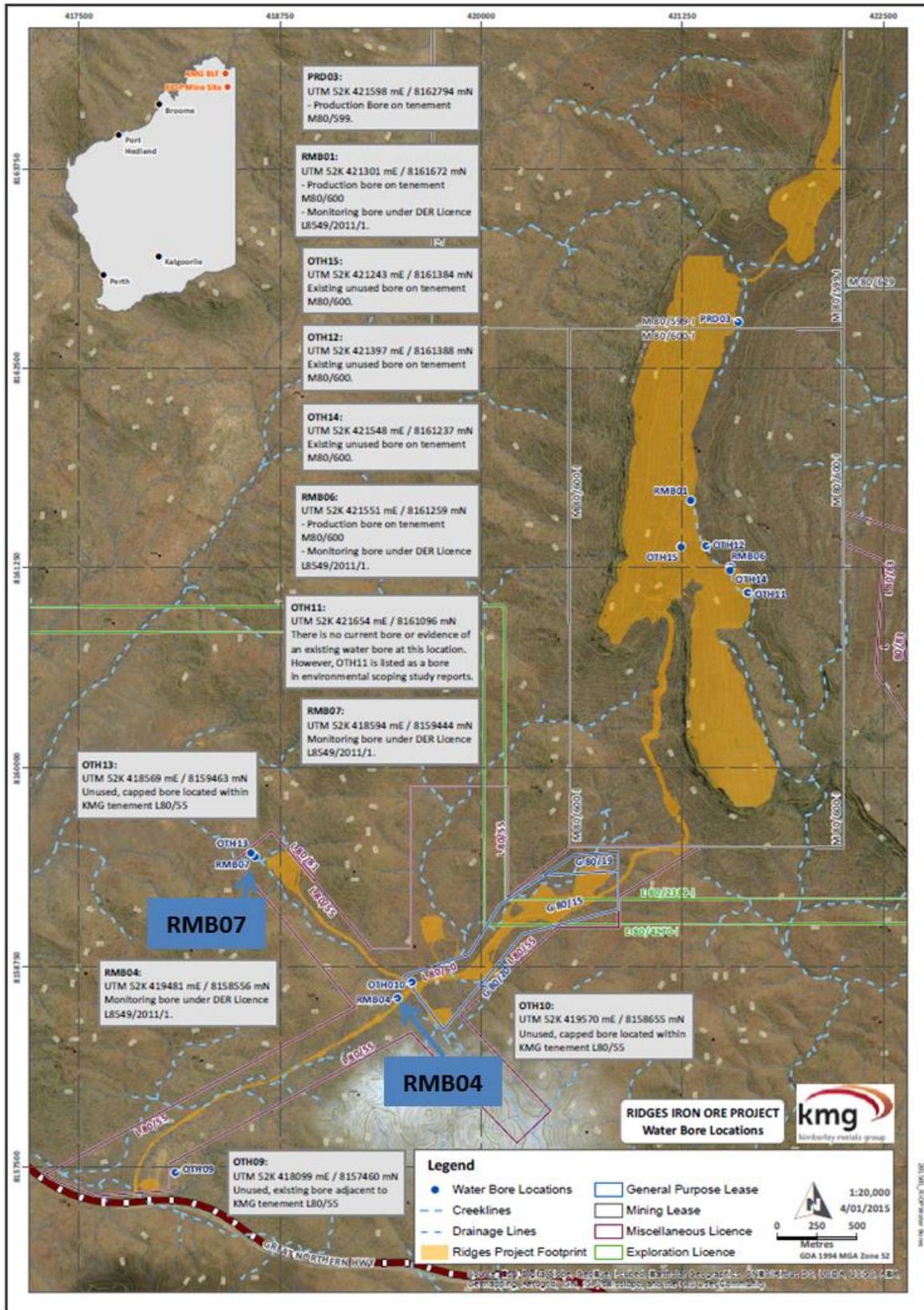
The Premises is shown in the map[s] below. The green area depicts the Premises boundary.





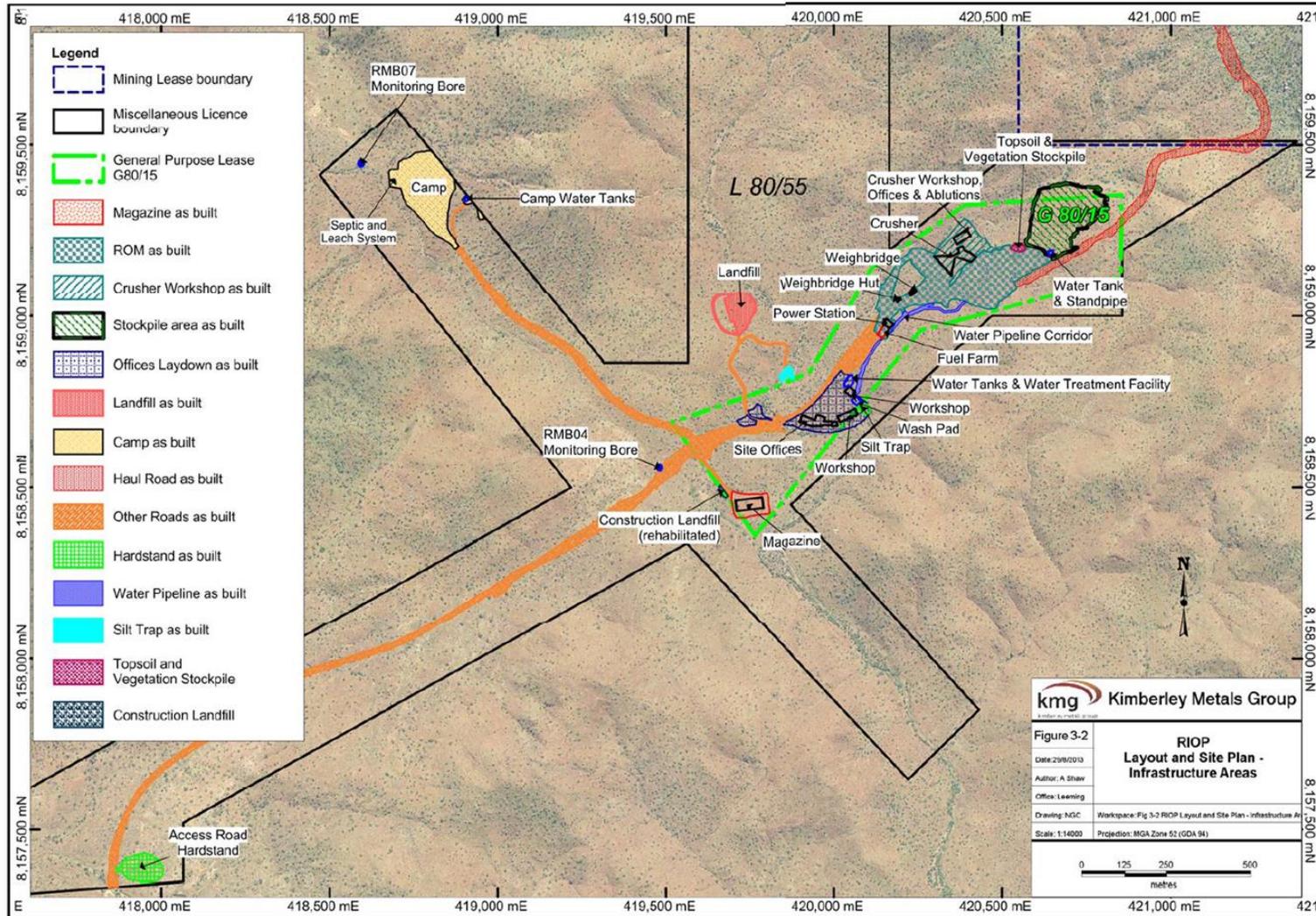
Map of monitoring locations

The locations of the monitoring points defined in Table 2.4.1 are shown below.





Landfill Area map





Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name: Trading as:	ABN:
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the Licence complied with within the reporting period? (please tick the appropriate box)

Yes Please proceed to Section C

No Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) must only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: _____

SIGNATURE: _____

NAME:
(printed) _____

NAME:
(printed) _____

POSITION: _____

POSITION: _____

DATE: ____/____/____

DATE: ____/____/____

SEAL (if signing under seal)



Licence: L8549/2011/1
 Form: N1

Licensee: Kimberley Metals Group
 Date of breach:

Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.
 Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	



Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Kimberley Metals Group	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: **Kimberley Metals Group Pty Ltd**

Licence: **L8549/2011/1**

Registered office: Level 2
41-47 Colin Street
WEST PERTH
WA 6005

ACN: 114 123 572

Premises address: Ridges Iron Ore Project
Mining Tenements M80/599, M80/600, L80/55 and G80/15
Great Northern Highway WA 6740

Issue date: Thursday, 2 June 2011

Commencement date: Monday, 6 June 2011

Expiry date: Sunday, 5 June 2016

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by:

Cathy Scheib
Licensing Officer

Decision Document authorised by:

Alana Kidd
Manager Licensing – (Resource Industries)



Contents

Decision Document	1
Contents	2
1 Purpose of this Document	2
2 Administrative summary	2
3 Executive summary of proposal	3
4 Decision table	4
5 Advertisement and consultation table	10
6. Risk Assessment	11

1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/>	
	New Licence <input type="checkbox"/>	
	Licence amendment <input checked="" type="checkbox"/>	
	Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	05	50 000 tonnes per year
	64	125 tonnes per year
Application verified	Date: N/A	
Application fee paid	Date: N/A	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Referral decision No:
		Managed under Part V <input checked="" type="checkbox"/>
		Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No:
		EPA Report No:



Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.	
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.	

3 Executive summary of proposal

Kimberley Metals Group (KMG) commenced mining haematite iron ore from the Ridges Iron Ore Project (RIOP) mine site located approximately 165 kilometres (km) south of Wyndham under licence L8549/2011/1. Ore from the RIOP mine site was hauled to the Barge Loading Facility (BLF) in Wyndham via Road Trains on the Great Northern Highway. Ore from the mine was stockpiled at the BLF located adjacent to Barytes Road in Wyndham then loaded onto a 1,200tph conveyor loading system into a barge to be transferred to a ship anchored in deeper water in the Cambridge Gulf. The BFL is approved under Licence L8557/2011/1.

On 6 February 2015 KMG placed the RIOP and the BLF on Care and Maintenance (C&M). During the RIOP/BLF C&M period, activities undertaken on site will be limited, but not exclusive to that outlined below.

- There will be no mining activity;
- There will be no grade control drilling;
- There will be no drill and blasting;
- There will be no activities related to ore processing (i.e. screening and crushing of ore);
- There will be no haulage of ore within the RIOP, or from RIOP to the BLF;
- There will be limited civil works occurring on site; and
- Site-wide maintenance and upkeep will be undertaken.

Public access to RIOP will be prevented by the installation of earthen bunds and a C&M security team will monitor the site.

This Licence is the result of an amendment sought by the Licensee on 4 August 2015 to reduce the approved category 5 capacity to the minimum category design capacity due to the mine being in care and maintenance.

During C&M there are limited environmental risks associated with the Project and as such, monitoring frequency of groundwater has been reduced and fugitive dust conditions have been removed. However, a notification requirement when restarting operations has been added and DER will then reassess the Licence in relation to the applicability of the conditions to an operating period.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.1	Condition 1.2.1 ensures that pollution control and monitoring equipment is maintained to manufacturer's specifications, or to effective internal systems.	General Provisions of the <i>Environmental Protection Act 1986</i> <i>Environmental Protection (Unauthorised Discharges) Regulations 2004.</i>
	L1.2.2	Condition 1.2.2 requiring immediate recovery of spills outside of engineered containment systems replaces condition 11 of the previous licence.	
	L1.2.3	<p><u>Emission Description</u> <i>Emission:</i> Stormwater contaminated with hydrocarbons or elevated sediment discharging to land and surface water systems. <i>Impact:</i> Contamination of surrounding land, surface water systems and infiltration to groundwater. <i>Controls:</i> All hydrocarbon storage facilities were constructed appropriately and there are currently no liquid chemicals stored on site during the C&M period. Triple interceptors are installed and maintained at the wash-down pad and fuel facility at the mine Site. Windrows and v-drains are installed at the landfill, and reinforced prior to the wet season. Landfilling occurs within defined trenches but during the C&M period, no waste is being disposed at the landfill. All windrows and sediment traps are inspected for their integrity prior to and during the wet season. A roads and disturbance area inspection is scheduled for October each year to ensure that the windrows are maintained for the wet season. Rock armouring has been installed at the pit windrows to ensure that material has been maintained. Inspections of all windrows and sediment traps are scheduled to be undertaken immediately after all high rainfall occasions. Kimberley Metals Group liaise with the Department of Water regarding surface water</p>	



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>management.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Condition 1.2.3 requiring stormwater management replaces conditions 5, 6, 8, 12, 13 and 18, of the old format licence. This condition applies at all times, including the C&M period. Liquid chemical storage conditions 9 and 10 are not replaced in the updated format licence since there are no significant volumes of liquid chemicals stored on site during the C&M period. This will be reassessed when Kimberley Metals Group restart operations.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Residual Risk Rating:</i> Moderate</p>	
Premises operation	L1.3.1 L1.3.2 – L1.3.4 L1.3.5	<p>Condition 1.3.1 requires Kimberley Metals Group to record and investigate the exceedance of any descriptive or numerical limit set out in premises operation conditions.</p> <p>Conditions 1.3.2 and 1.3.4 specify management of waste and cover requirements, replacing conditions 15, 16, 17, 19, 20, 21 and 22 of the old format Licence. Condition 1.3.3 ensures waste types that are not authorised to be disposed of on the Premises are stored appropriately and removed from the premises. This condition replaces condition 14 of the old format Licence. No other changes have been applied to these requirements during this amendment.</p> <p>Condition 1.3.5 specifies that no waste is burnt on the Premises, replacing condition 4</p>	<i>Environmental Protection (Controlled Waste) Regulations 2004.</i>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
	L1.3.6	of the old format Licence. Condition 1.3.6 has been added during this amendment to ensure that approved production or design capacity limits for processing of ore are not exceeded.	
Emissions general	L – no conditions	No emission conditions are applied to the Licence and therefore there is no requirement for general emission conditions.	N/A
Point source emissions to air including monitoring	L – no conditions	There are no significant point source air emissions expected in relation to the Project. No conditions relating to point source air emissions were applied to the old format licence and no conditions have been added during this amendment.	N/A
Point source emissions to surface water including monitoring	L – no conditions	There are no point source emissions to surface water authorised under this Licence. No conditions relating to point source emissions to surface water were applied to the old format licence and no conditions have been added during this amendment. Sediment control in stormwater is conditioned under L1.2.3. The <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i> apply.	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>
Point source emissions to groundwater including monitoring	L – no conditions	There are no point source emissions to groundwater authorised under this Licence. No conditions relating to point source emissions to groundwater were applied to the old format licence and no conditions have been added during this amendment.	N/A
Emissions to land including monitoring	L – no conditions	There are no emissions to land authorised under this Licence. No conditions relating to emissions to land were applied to the old format licence and no conditions have been added during this amendment.	N/A
Fugitive emissions	L – no conditions	<u>Emission Description</u> <i>Emission:</i> Very limited dust emissions are produced during minor civil works, vehicle movements and site maintenance during C&M.	General provisions of the <i>Environmental</i>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><i>Impact:</i> No impact is anticipated from dust emissions during the C&M period. <i>Controls:</i> During C&M there will be no activities relating to mining, processing (screening, crushing) or haulage and therefore control of dust is not considered a requirement.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> General provisions of the <i>Environmental Protection Act 1986</i> and the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i> apply. No conditions relating to dust management are considered necessary during C&M and the dust conditions 1, 2 and 3 have been removed during this amendment. This aspect will be reassessed when operations recommence.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Rare <i>Residual Risk Rating:</i> Low</p>	<p><i>Protection Act 1986</i></p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i></p>
Odour	L – no conditions	There are no significant sources of odour expected at the Project, including during the C&M period. Therefore no odour conditions are considered a requirement.	N/A
Noise	L – no conditions	There are no significant sources of noise during the C&M period. No noise conditions were applied to the Licence prior to this amendment. Kimberley Metals Group are required to comply with the <i>Environmental Protection (Noise) Regulations 1997</i> and no additional regulatory controls are considered necessary.	<i>Environmental Protection (Noise) Regulations 1997</i>
Monitoring general	L2.1.1 – 2.1.3	General monitoring conditions have been updated in this new format Licence, replacing conditions 24, 25, 26 and 27 of the old format Licence.	N/A



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Monitoring of inputs and outputs	L2.2.1	Condition 2.2.1 specifies that waste volumes are estimated both of inputs to the landfill, and any waste rejected from the premises during operation of the landfill. Therefore during C&M there is no requirement to monitor since waste is not being disposed at the site.	N/A
Process monitoring	L2.3.1	Process monitoring condition 2.3.1 has been added to replace condition 7 of the old format Licence. The Total Recoverable Hydrocarbon (TRH) limit has been changed from 10 mg/L to 15 mg/L to ensure consistency with conditions imposed on other licenced premises. Monitoring is required quarterly, during operations.	N/A
Ambient quality monitoring	L2.4.1	Monitoring of ambient groundwater quality is required under condition 2.4.1, replacing condition 23 of the old format licence. Updates to the requirements have been made during this amendment and include: <ul style="list-style-type: none"> • A reduced frequency of monitoring from quarterly (SWL, EC, pH, TDS) or six-monthly (TRH, hydrocarbons, metals etc.) to annually, reflecting the C&M status, the fact that no activities are occurring on site and the remote location to access when staff are not based at the Project site. Annual monitoring will allow trends to be assessed throughout the C&M period (at a lower frequency) and the monitoring can be increased when the Project restarts operations; • Two bores have been removed from the requirements during C&M (RMB01 and RMB06) since they are not accessible whilst earthen bunds are blocking access to the site for security purposes. Access to RMB 04 (downstream of the landfill site) and RMB07 (north-west of the camp) has been maintained and these bores will be monitored annually for all parameters. Additional bores can be added/reinstated when the Project restarts operations; and • The requirement to measure Total Petroleum Hydrocarbons (TPH) has been replaced by the requirement to measure Total Recoverable Hydrocarbons (TRH), as is currently standard. 	N/A
Meteorological monitoring	L – no conditions	No conditions relating to meteorological monitoring are required on the licence. No meteorological monitoring was required by the old format Licence.	N/A



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Improvements	L – no conditions	No improvements have been added to the Licence.	N/A
Information	L3.1.1 – 3.1.4 L3.2.1 L3.3.1	<p>Condition 3.1.1 specifies records required by the Licence and condition 3.1.2 ensures appropriate awareness of the requirements of the Licence.</p> <p>Condition 3.1.3 replaces condition 30 of the old format Licence requiring submission of an Annual Audit Compliance Report.</p> <p>Condition 3.1.4 ensures a complaints management system is implemented.</p> <p>Conditions 3.2.1 and 3.2.2 requiring submission of an Annual Environmental Report, relevant operational or calibration data and an assessment of data against previous monitoring results and licence limits, replace conditions 28 and 29 of the old format Licence.</p> <p>Standard notification requirements are specified by condition 3.3.1 and also include a notification requirement if operations are to restart, 28 days prior to production recommencing. This is to allow a further licence amendment to ensure that conditions are applicable during an operating period, and likely also to reinstate a higher Category 5 production capacity.</p>	N/A
Licence Duration	N/A	The licence duration has not been changed as a result of this licence amendment.	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
29/10/2015	Proponent sent a copy of draft instrument	Kimberley Metals Group waived the 21 day period with no comments on the draft instrument.	N/A



6. Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High