



Licence

Environmental Protection Act 1986, Part V

Licensee: Atlas Iron Limited

Licence: L8788/2013/1

Registered office: Raine Square, Level 18
300 Murray Street
PERTH WA 6000

ACN: 110 396 168

Premises address: Mt Webber DSO Project
M45/1209-1, L45/280 and *Land Administration Act 1997* Section 91
Licence Area (LIC00200/2013_A3227408)
NULLAGINE WA 6758
as depicted in Schedule 1

Issue date: Thursday, 27 March 2014

Commencement date: Monday, 31 March 2014

Expiry date: Saturday, 30 March 2019

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
5	Processing or beneficiation of metallic or non-metallic ore: premises on which – (a) metallic or non-metallic ore is crushed, ground, milled or otherwise processed; (b) tailings from metallic or non-metallic ore are reprocessed; or tailings or residue from metallic or non-metallic ore are discharged into a containment cell or dam.	50,000 tonnes or more per year	7,000,000 tonnes per annual period
54	Sewage facility: premises – (a) on which sewage is treated (excluding septic tanks); or (b) from which treated sewage is discharged onto land or into waters.	100 cubic metres or more per day	119 cubic metres per day
89	Putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer, as amended from time to time) is accepted for burial.	More than 20 but less than 5,000 tonnes per year	500 tonnes per annual period



Conditions

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

Signed 11 February 2016

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Alana Kidd

Manager – Resource Industries

Officer delegated under section 20
of the *Environmental Protection Act 1986*



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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

Atlas Iron Limited (Atlas) is developing the Mt Webber Direct Shipping Ore (DSO) Project (the Project), approximately 170 kilometres (km) south-east of Port Hedland. The Project involves the mining of two open pits to extract an iron ore resource of approximately 63.2 million tonnes (Mt) over a mine life of approximately 10 years.

An accommodation camp, to support the construction and operation of the Project, has been constructed and is serviced by a 110 cubic metre per day (m³/day) capacity wastewater treatment plant (WWTP). A 9m³ per day WWTP is situated near the mine operations centre (MOC). Treated wastewater from the accommodation camp WWTP is reused for dust suppression or disposed of via irrigation to a 1 hectare (ha) spray field. Treated wastewater from the MOC is used for dust suppression or disposed of to a 0.22ha spray field.

A landfill exists on site for the disposal of inert and putrescible waste generated onsite. The landfill accepts up to 450 tonnes of waste per annum (tpa). A new tyre disposal area has been constructed for the disposal of waste tyres. It has a capacity to accept approximately 130 tyres per year. The waste capacity for the site has therefore been updated to 500 tpa.

The licences and works approvals issued for the Premises since 18 January 2013 are:

Instrument log		
Instrument	Issued	Description
W5312/2012/1	18/01/2013	Works Approval for Category 54 WWTP
W5373/2013/1	24/04/2013	Works Approval for Categories 5 and 89
L8788/2013/1	27/3/2014	New licence for Category 54 and 89
L8788/2013/1	3/7/2014	Licence amendment to include Category 5, Category 12 and the MOC WWTP.
L8788/2013/1	05/02/2015	Licence amendment to change monitoring frequency of the WWTP.
L8788/2013/1	11/02/2016	Licence amendment to include tyre disposal at waste rock dump

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*;

'Acceptance Criteria' has the meaning defined in Landfill Definitions;

'annual period' means the inclusive period from 1 July to 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 5667.10' means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*;

'averaging period' means the time over which a limit or target 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;

'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 and as amended from time to time;

'Licence' means this Licence numbered L8788/2013/1 and issued under the Act;

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

'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;

'NWQMS 1997' means the most recent version and relevant parts of the "National Water Quality Management Strategy, Australian Guidelines for Sewerage Systems - Effluent Management" as published by the Agriculture and Resource Management Council of Australia and New Zealand and Australian and New Zealand Environment and Conservation Council, 1997



'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' has the meaning defined in Landfill Waste Classification and Waste Definitions 1996 (As amended December 2009), published by the CEO and as amended from time to time:

'quarterly' means the 4 inclusive periods from 1 April to 30 June, 1 July to 30 September, 1 October to 31 December and in the following year, 1 January to 31 March;

'rehabilitation' means the completion of the engineering of a landfill cell and includes capping and/or final cover;

'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;

'usual working day' means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia; and

'wastewater treatment vessels' means any vessel or tank containment infrastructure associated with the treatment of wastewater.

- 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 the 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 an 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 only allow waste to be accepted on to the Premises if:



- (a) it is of a type listed in Table 1.3.1;
- (b) the quantity accepted is below any limit listed in Table 1.3.1; and
- (c) it meets any specification listed in Table 1.3.1.

Table 1.3.1: Waste acceptance		
Waste	Quantity Limit	Specification
Sewage	119m ³ / day	Accepted through sewer inflow(s) only
Inert Waste Type 1	500 tonnes per annual period	None specified
Inert Waste Type 2		
Putrescible Waste		
Clean Fill		

- 1.3.2 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.3.1 it is removed from the Premises by the delivery vehicle or, where that is not possible, stored in a segregated storage area or container and removed to an appropriately authorised facility as soon as practicable.
- 1.3.3 The Licensee shall ensure that the wastes accepted onto the Premises are only subjected to the processes set out in Table 1.3.2 and in accordance with any process limits described in that table.

Table 1.3.2: Waste processing		
Waste type	Process	Process limits
Sewage	Biological, physical and chemical treatment	Treatment of sewage waste shall be targeted at or below the treatment capacity of 119m ³ /day.
Inert Waste Type 1 Putrescible Waste Clean Fill Inert Waste Type 2	Receipt, handling and disposal of waste by landfilling	<u>All waste types with the exception of tyres</u> Disposal of waste by landfilling shall only take place within the landfill area shown on the Landfill Map in Schedule 1 The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2 m.
Inert Waste Type 2 (Tyres only)		<u>Inert Waste Type 2 - Tyres only</u> Disposal of tyres by landfilling shall only take place within the tyre disposal area at the Ibanez waste rock landform shown on the Tyre Disposal map in Schedule 1. Tyres shall only be landfilled: i) in batches separated from each other by at least 100mm of soil and each consisting of not more than 40m ³ of tyres reduced to pieces; or ii) in batches separated from each other by at least 100mm of soil and each consisting of not more than 1,000 whole tyres

- 1.3.4 The Licensee shall manage the irrigation of treated wastewater such that:
- (a) no irrigation generated run-off, spray drift or discharge occurs beyond the boundary of the defined irrigation area(s);
 - (b) treated wastewater is evenly distributed over the irrigation area;
 - (c) no soil erosion occurs;
 - (d) irrigation does not occur on land that is waterlogged; and
 - (e) vegetation cover is maintained over the irrigation areas identified in Table 2.2.1.
- 1.3.5 The Licensee shall manage the wastewater treatment vessels such that:
- (a) overtopping of the wastewater treatment vessels does not occur;
 - (b) stormwater runoff is prevented from entering the wastewater treatment vessels;
 - (c) there is no discernible seepage loss from the wastewater treatment vessels; and
 - (d) vegetation and floating debris (emergent or otherwise) is prevented from growing or accumulating in the wastewater treatment vessels.



- 1.3.6 The Licensee shall manage the landfilling activities to ensure:
- (a) the size of the tipping face is kept to a minimum and not larger than 30m in length and 2m above ground level in height;
 - (b) waste is levelled and compacted as soon as practicable after it is discharged;
 - (c) waste is placed and compacted to ensure all faces are stable and capable of retaining rehabilitation material; and
 - (d) rehabilitation of a cell or phase takes place within 6 months after disposal in that cell or phase has been completed.
- 1.3.7 The Licensee shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 1.3.3 and that sufficient stockpiles of cover are maintained on site at all times.

Waste Type	Material	Depth	Timescales
Inert Waste Type 1	Inert and incombustible material	Sufficient to ensure the waste is completely covered and that no waste is exposed	Monthly or as soon as practicable after deposit and prior to compaction
Putrescible Waste			
Inert Waste Type 2 (Tyres only)	Soil	500mm	As soon as practical following the achievement of final waste levels in the area(s) in which tyres are deposited.

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

- 1.3.8 The Licensee shall implement the following security measures at the landfill site:
- (a) implement security measures at the site to prevent as far as is practical unauthorised access to the landfill site; and
 - (b) undertake regular inspections of all security measures and repair damage as soon as practicable.
- 1.3.9 The Licensee shall ensure that wind-blown waste is contained within the landfill area and that wind-blown waste is returned to the tipping area on at least a monthly basis.
- 1.3.10 The Licensee shall construct the tyre disposal area in accordance with the documentation listed in Table 1.3.4.

Documentation	Parts	Date of Document
Mt Webber Direct Shipping Ore (DSO) Application to Amend Operating Licence L8788 supporting documentation, 132-LAH-EN-REP-0027, Atlas Iron Limited	All	2 November 2015

Note 1: Where the details and commitments of the documents listed in condition 1.3.10 are inconsistent with any other condition of this licence, the conditions of this licence shall prevail.

2 Emissions

2.1 General

- 2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit specified in any part of section 2 of this Licence.

2.2 Emissions to land

- 2.2.1 The Licensee shall ensure that where waste is emitted to land from the emission points in Table 2.2.1 and identified on the map of emission points in Schedule 1, it is done so in accordance with the conditions of this licence.



Table 2.2.1: Emissions to land		
Emission point reference and location on map of emission points	Description	Source including abatement
L1	Discharge of wastewater from final storage tank to a 1 ha spray field or onsite reuse for dust suppression	Treated wastewater from the accommodation camp WWTP
L2	Discharge of wastewater from final storage tank to a 0.22 ha spray field	Treated wastewater from the MOC WWTP

2.2.2 The Licensee shall not cause or allow emissions to land greater than the limits listed in Table 2.2.2.

Table 2.2.2: Emission limits to land			
Emission point reference	Parameter	Limit (including units)	Averaging period
L1	Volumetric flow rate (cumulative)	38.5m ³ /day	Annual

3 Monitoring

3.1 General monitoring

3.1.1 The Licensee shall ensure that:

- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- (b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10; and
- (c) 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.

3.1.2 The Licensee shall ensure that quarterly monitoring is undertaken at least 45 days apart.

3.1.3 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.

3.1.4 The Licensee shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

3.2 Monitoring of emissions to land

3.2.1 The Licensee shall undertake the monitoring in Table 3.2.1 according to the specifications in that table.

Table 3.2.1: Monitoring of emissions to land				
Monitoring point reference	Parameter	Units	Averaging period	Frequency
L1 & L2 - Final storage tanks	pH ¹	pH units	Spot sample	Quarterly
	5-Day Biochemical Oxygen Demand	mg/L		
	Total Dissolved Solids	mg/L		



	Total Suspended Solids	mg/L		
	Total Nitrogen	mg/L		
	Total Phosphorus	mg/L		
	<i>E.coli</i>	cfu/100ml		
L1 & L2 - Flow meter devices on outgoing pipelines	Volumetric flow rate (cumulative) for discharge to irrigation areas and used for dust suppression	m ³ /day	Daily	Continuous

Note 1: Infield non-Nata accredited analysis permitted

3.3 Monitoring of inputs and outputs

3.3.1 The Licensee shall undertake the monitoring in Table 3. 3.1 according to the specifications in that table.

Table 3.3.1: Monitoring of inputs and outputs

Input/output	Monitoring point reference	Parameter	Units	Averaging period	Frequency
Waste Inputs to landfill	None specified	Inert Waste Type 1, Inert Waste Type 2, Putrescible Waste and Clean Fill	tonnes or (where no weighbridge is present) m ³	N/A	Each load arriving at the landfill
Waste outputs from landfill	None specified	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the landfill
Waste inputs to tyre disposal area	None specified	Tyres only		Monthly	Each load arriving at the tyre disposal area.

4 Information

4.1 Records

4.1.1 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 4.1.1(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.

4.1.2 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.

4.1.3 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.



- 4.1.4 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.
- 4.1.5 The Licensee shall implement and maintain a system which ensures that a record is made of any documentary evidence to demonstrate compliance with the Class II landfill acceptance criteria.

4.2 Reporting

- 4.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by 31 July each year. The report shall contain the information listed in Table 4.2.1 in the format or form specified in that table.

Table 4.2.1: 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 3.2.1	pH, 5 Day Biochemical Oxygen Demand, Total Suspended Solids, Total Dissolved Solids, Total Nitrogen, Total Phosphorus, <i>E.coli</i> and Volumetric flow rate	LR2
Table 3.2.1	Cumulative volumes to irrigation areas and use for dust suppression	None specified
Table 3.3.1	Waste types and quantities accepted and rejected at the landfill site	None specified
4.1.3	Compliance	Annual Audit Compliance Report (AACR)
4.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

- 4.2.2 The Licensee shall ensure that the Annual Environmental Report also contains an assessment and comparison of the monitoring results required by condition 3.2.1 against the NWQMS 1997 and all previous monitoring results.
- 4.2.3 The Licensee shall submit the information in Table 4.2.2 to the CEO according to the specifications in that table.

Table 4.2.2: Non-annual reporting requirements				
Condition or table	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form¹
-	Copies of original monitoring reports submitted to the Licensee by third parties	Not applicable	Within 14 days of the CEO's request	As received by the Licensee from third parties

Note 1: Forms are in Schedule 2

4.3 Notification

- 4.3.1 The Licensee shall ensure that the parameters listed in Table 4.3.1 are notified to the CEO in accordance with the notification requirements of the table.



Table 4.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form²
2.1.1	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. Part B: As soon as practicable	N1
3.1.4	Calibration report	As soon as practicable	None specified
Table 1.3.4	Construction of the Tyre Disposal Area within the Ibanez waste rock dump.	Notify the CEO in writing within 14 days following the completion of the works for the tyre disposal area and prior to operation of the same, as specified in condition 1.3.10. The written notification shall: (a) confirm that the works were constructed in accordance with condition 1.3.10; and (b) be signed by a person authorised to represent the Licensee and contain the printed name and position of that person within the company. Following submission of the written notification, the Licensee shall operate the tyre disposal area in accordance with the conditions of this Licence.	

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

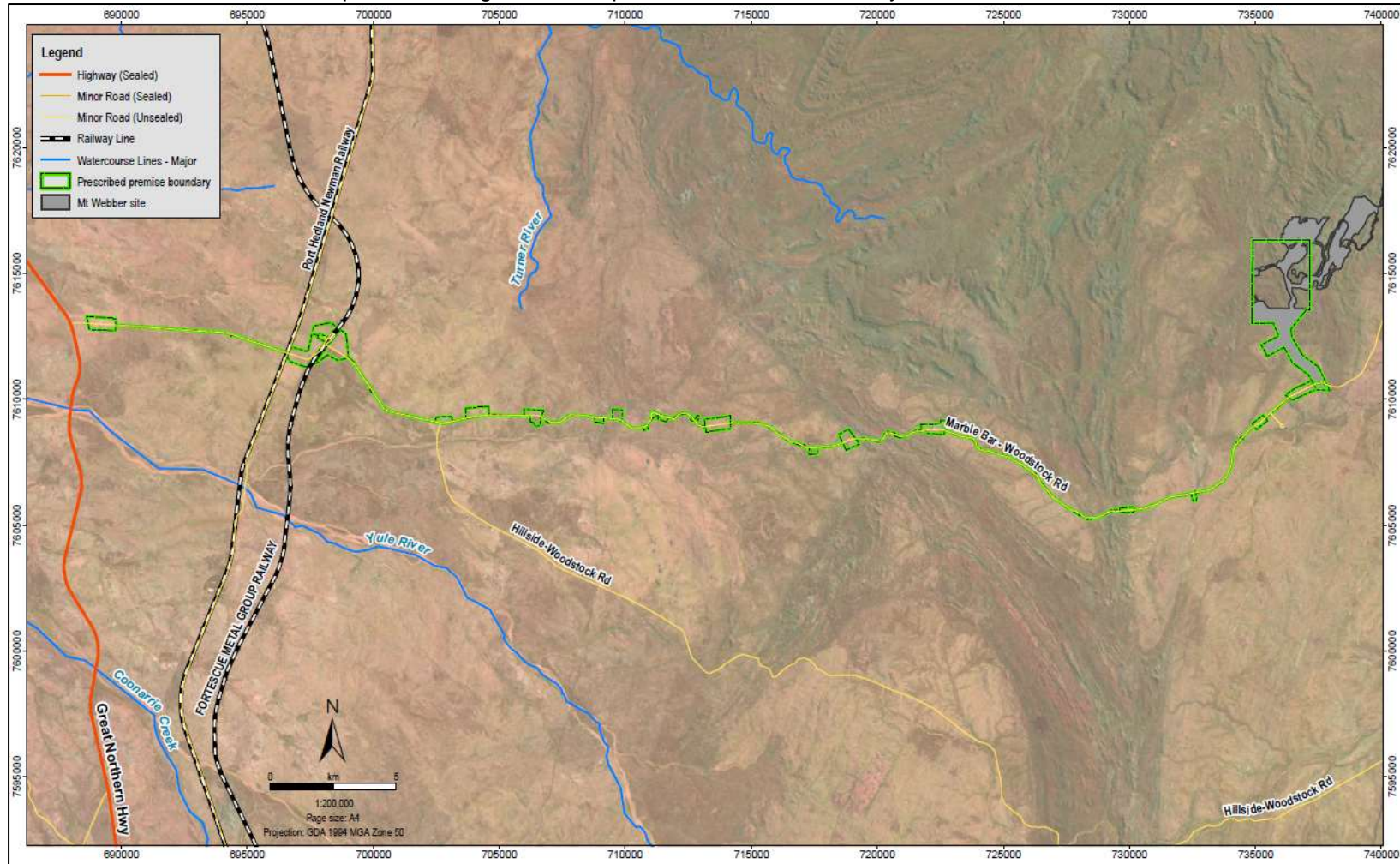
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

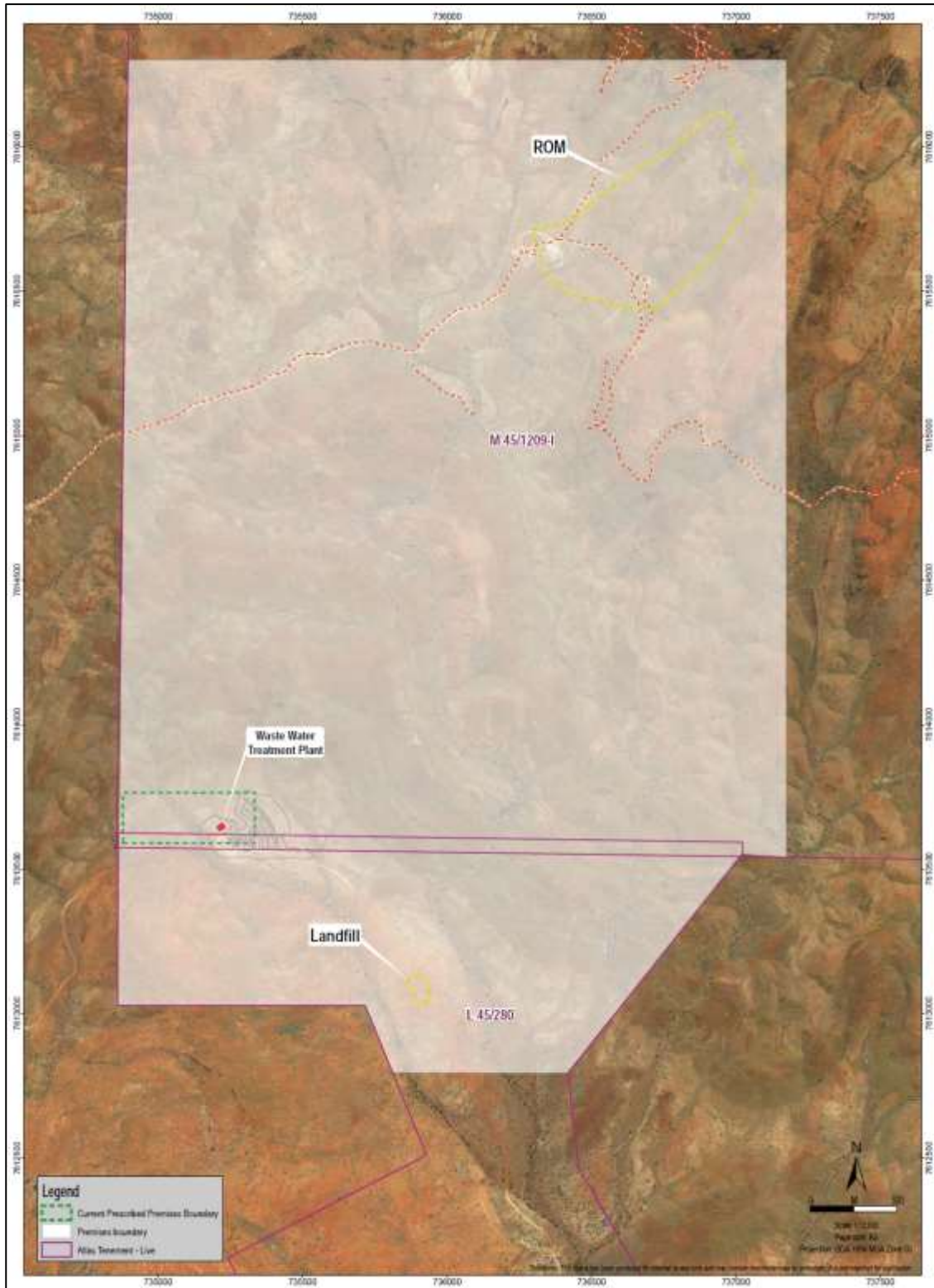
The Premises is shown in the map below. The green line depicts the Premises boundary.





Landfill Map

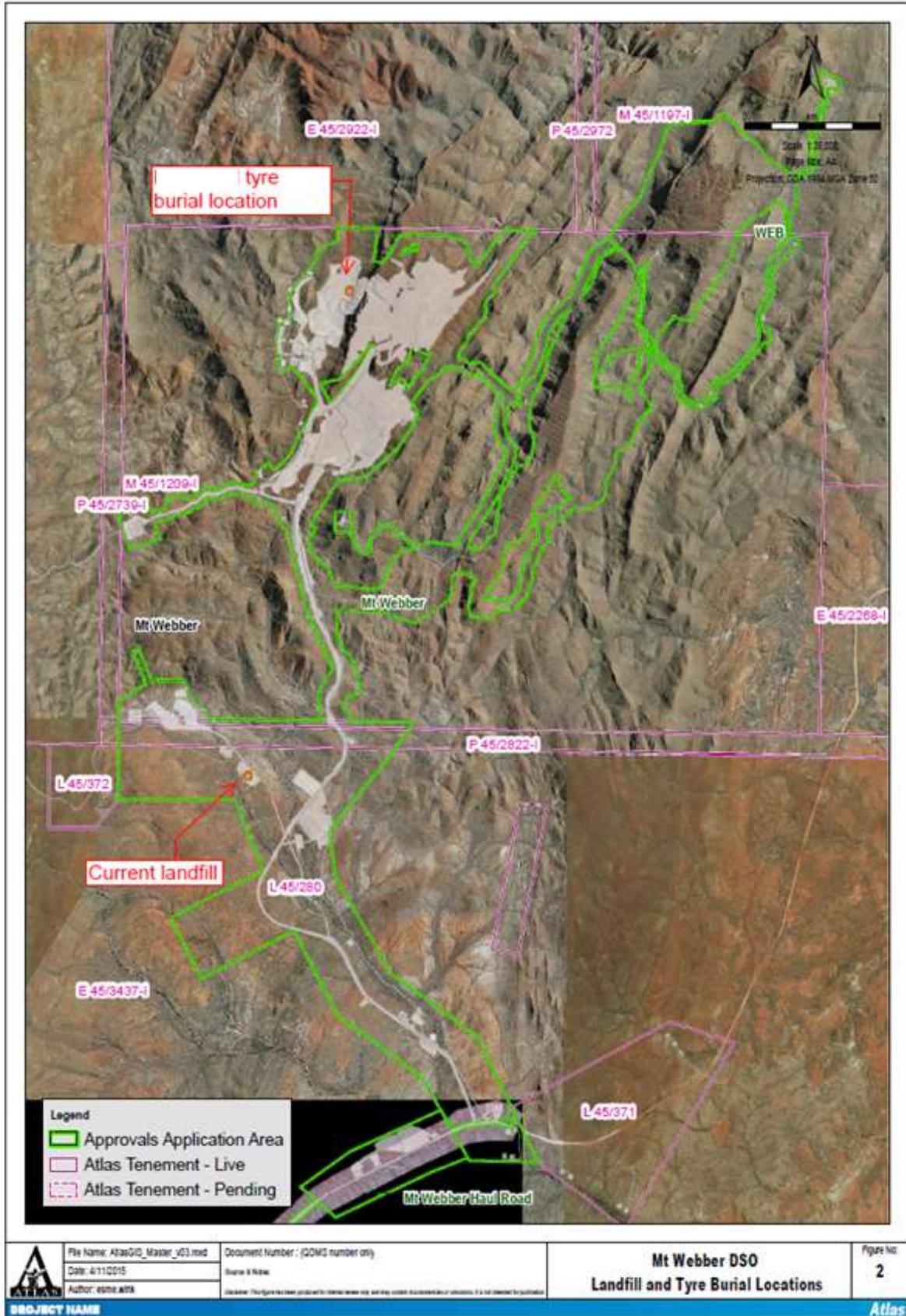
The location of the landfill area defined in Table 1.3.2 is shown in the map below.





Tyre disposal area map

The location of the tyre disposal area defined in Table 1.3.2 is shown in the map below.





Map of emission and monitoring points

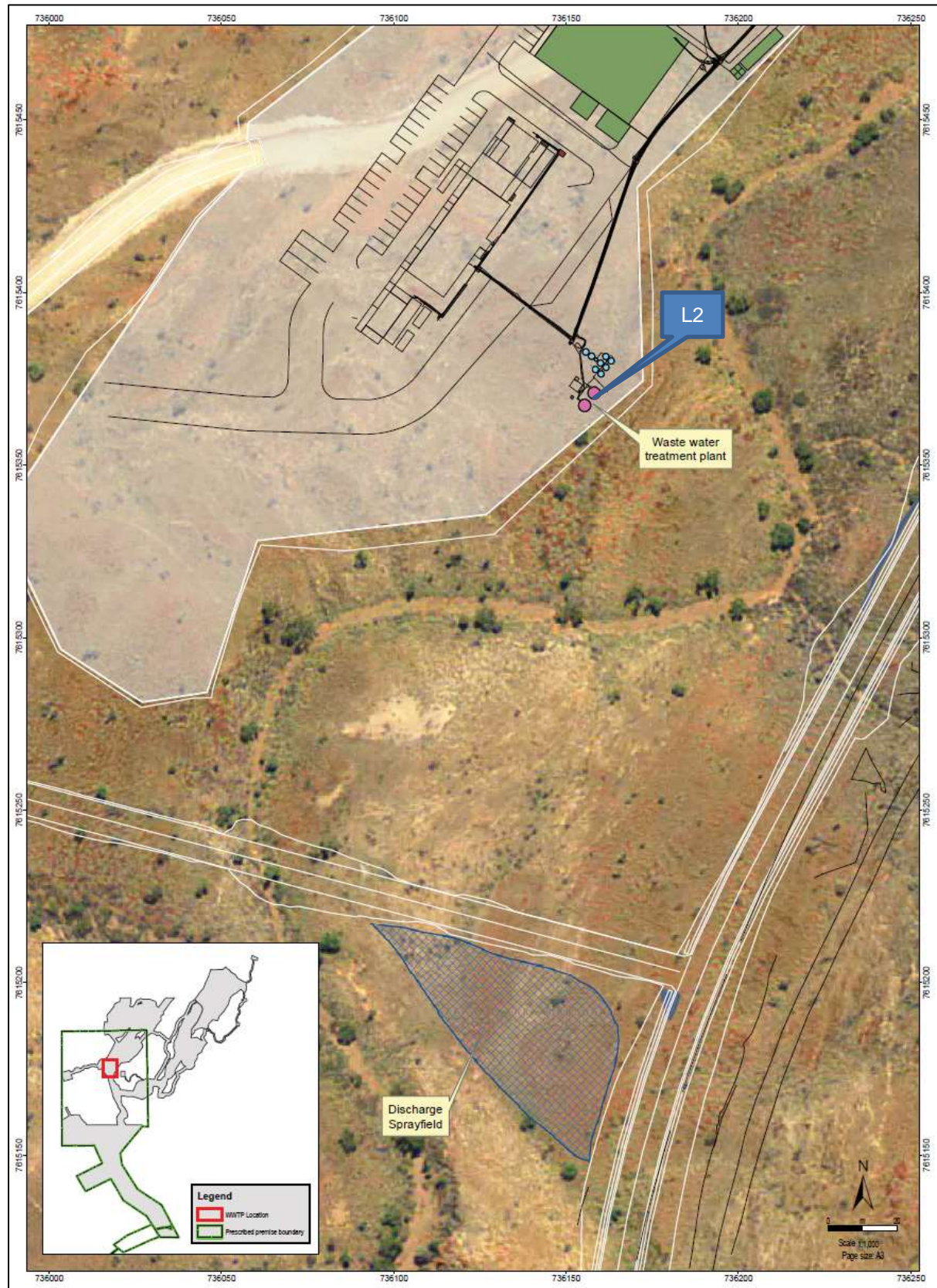
The location of the emission point (L1) defined in Table 2.5.1 and monitoring point defined in Table 3.5.1 is shown on the map below.





Map of emission and monitoring points (cont.)

The location of the emission point (L2) defined in Table 2.5.1 and monitoring point defined in Table 3.5.1 is shown on the map below.





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: L8788/2013/1
Form: LR2
Name: Monitoring of emissions to land

Licensee: Atlas Iron Limited
Period:

Form LR1: Monitoring of emissions to land							
Emission points	Parameter	Unit	Limit	Result	Averaging period	Method	Sample date & times
L1	pH	pH units	-		Spot sample		
	5-Day Biochemical Oxygen Demand	mg/L	-				
	Total Dissolved Solids	mg/L	-				
	Total Suspended Solids	mg/L	-				
	Total Nitrogen	mg/L	-				
	Total Phosphorus	mg/L	-				
	<i>E.Coli</i>	cfu/100ml	-				
	Volumetric flow rate	m ³	38.5m ³ /day		annual		
L2	pH	pH units	-		Spot sample		
	5-Day Biochemical Oxygen Demand	mg/L	-				
	Total Dissolved Solids	mg/L	-				
	Total Suspended Solids	mg/L	-				
	Total Nitrogen	mg/L	-				
	Total Phosphorus	mg/L	-				
	<i>E.Coli</i>	cfu/100ml	-				
	Volumetric flow rate	m ³	38.5m ³ /day		annual		

Signed on behalf of Atlas Iron Limited:

Date:



Licence: L8788/2013/1
Form: N1

Licensee: Atlas Iron Limited
Date of breach:

Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution.

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 Atlas Iron Limited	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Atlas Iron Limited

Licence: L8788/2013/1

Registered office: Raine Square, Level 18
300 Murray Street
PERTH WA 6000

ACN: 110 396 168

Premises address: Mt Webber DSO Project
M45/1209-1, L45/280 and *Land Administration Act 1997* Section 91 Licence
Area (LIC00200/2013_A3227408)
NULLAGINE WA 6758

Issue date: Thursday, 27 March 2014

Commencement date: Monday, 31 March 2014

Expiry date: Saturday, 30 March 2019

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 and legal requirements and that Licence and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by: Christine Pustkuchen
Licensing Officer

Decision Document authorised by: Alana Kidd
Delegated Officer



Contents

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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	<table border="1"> <thead> <tr> <th>Category number(s)</th> <th>Assessed design capacity</th> </tr> </thead> <tbody> <tr> <td>5 – Processing or beneficiation of metallic or non-metallic ore</td> <td>7,000,000 tonnes per annual period</td> </tr> <tr> <td>12 – Screening etc. of material</td> <td>260,000 tonnes per annual period</td> </tr> <tr> <td>54 – Sewage Facility</td> <td>119 cubic metres per day</td> </tr> <tr> <td>89 – Putrescible landfill</td> <td>500 tonnes per annual period</td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	5 – Processing or beneficiation of metallic or non-metallic ore	7,000,000 tonnes per annual period	12 – Screening etc. of material	260,000 tonnes per annual period	54 – Sewage Facility	119 cubic metres per day	89 – Putrescible landfill	500 tonnes per annual period
	Category number(s)	Assessed design capacity									
	5 – Processing or beneficiation of metallic or non-metallic ore	7,000,000 tonnes per annual period									
	12 – Screening etc. of material	260,000 tonnes per annual period									
54 – Sewage Facility	119 cubic metres per day										
89 – Putrescible landfill	500 tonnes per annual period										
Application verified	Date:										
Application fee paid	Date:										
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 type="checkbox"/> No <input checked="" 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 and assessment

Atlas Iron Limited (Atlas) operates the Mt Webber Direct Shipping Ore (DSO) Project (the Project), approximately 170 kilometres (km) south-east of Port Hedland. The Project involves the mining of two open pits to extract an iron ore resource of approximately 63.2 million tonnes (Mt) over a mine life of approximately 10 years.

An accommodation camp, to support the construction and operation of the Project, has been constructed and is serviced by a 110 cubic metre per day (m³/day) capacity wastewater treatment plant (WWTP). Treated wastewater (TWW) from the WWTP is reused for dust suppression or disposed of via irrigation to a 1 hectare (ha) spray field. Atlas operates a landfill for the disposal of inert and putrescible waste generated onsite.

Atlas operate an ore processing facility (OPF) (category 5) onsite. The OPF was approved for a production and design capacity of 7,000,000 tonnes per annual period and is located within the run of mine (ROM) area. Ancillary infrastructure required for the operation of the mine includes:

- waste rock dumps;
- ROM area;
- mine operations centre and administration area;
- explosives storage facility;
- mining contractors yard and workshop;
- haulage contractors yard;
- borefields;
- borrow pits;
- access tracks and haul roads; and
- a second WWTP at the Mine Operations Centre (MOC) with the capacity to treat 9m³/day.

This Decision Document assesses an amendment request made by the Licensee to increase the approved throughput for category 89 from 450 tonnes to 500 tonne per annum by the addition of a tyre burial area within a waste rock dump. The following forms the basis of this amendment:



- The burial of tyres under an active waste rock landform and subsequent increase in design capacity for category 89;
- The removal of category 12 from the licence; and
- Other changes made to reflect Departmental reform as published on DER's website under "*Administrative changes implemented within the Department of Environment Regulation*".

Where conditions have been added or removed in the existing Licence these have been justified in Section 4.



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 – 1.2.3	<p>Category 12 has been removed from the licence. This was originally granted to allow crushing and screening of gravel for the construction of the Public Road Upgrad (PRU). The construction works are now complete, with no further crushing and screening equired onsite.</p> <p>Generic changes have been made to the General Conditions as part of DER reform and updates to licence templates. These changes include removing conditions referencing the code of practice for the storage and handling of dangerous goods and referring to environmentally hazardous materials. It is the licensees responsibility to ensure they comply with relevant legislative requirements for the storage and handling of environmentally hazardous materials. Unauthorised discharges of environmentally hazardous materials maybe subject to the provisions of the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p>	N/A.
Premises operation	L1.3.1 L1.3.3 and L1.3.6 -1.3.7	<p>The approved design capacity for Category 89 has been increased from 450 tonnes to 500 tonnes per annual period (condition 1.3.1). This is to include the addition of the new tyre disposal area within the Ibanez waste rock landform (separate from the site's current Category 89 landfill location).</p> <p>It is expected that approximately 130 tyres per year over the next 3 to 4 years will be disposed of at the new tyre disposal area. The disposal area will be approximately 25 m x 25 m at the base of the Ibanez waste rock landform. The landform will eventually encapsulate the tyre disposal area. Wastes other than used tyres will be segregated and directed to the sites current landfill facility. Atlas Iron have committed to carrying</p>	Application supporting documentation



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
	L1.3.10-1.3.12	<p>out regular inspections and to record the number of tyres disposed of on a monthly basis. The licence currently contains conditions in relation to the covering of tyres with soil material to a depth of 500 mm and landfill management (conditions 1.3.6 and 1.3.7). No additional tyre disposal management conditions are required to be added to the licence.</p> <p>Condition 1.3.3 has been updated to include the addition of the new tyre disposal area and to ensure that only tyres are disposed of at the new tyre disposal area. A map of the tyre disposal area has also been included in the licence.</p> <p>Conditions 1.3.10 have been added to the licence to insure that the new tyre disposal area is constructed in accordance with the documentation provided to DER.</p>	
Emissions general	L2.1.1	Generic changes have been made to condition 2.1.1 in line with DER reform and updates to licence templates. This change relates to the removal of the reference to targets.	DER public website at: www.der.wa.gov.au
Point source emissions to air including monitoring	Licence – no conditions	<p>Construction and Operation</p> <p>No point source air emissions are expected during construction or operation of the new tyre disposal area. No specified conditions relating to point source emissions to air or the monitoring of such emissions are required to be added to the licence as part of this amendment.</p>	Application supporting documentation
Point source emissions to surface water including monitoring	Licence – no conditions	<p>Construction and Operation</p> <p>No point source emissions to surface water are expected during construction or operation of the new tyre disposal area. There are no permanent bodies of water in close proximity to the tyre disposal area. The nearest waterbody is approximately 1 km away to the east (Python Waterhole).</p> <p>No specified conditions relating to point source emissions to surface water or the</p>	Application supporting documentation



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 such emissions are required to be added to the licence as part of this amendment.	
Point source emissions to groundwater including monitoring	Licence – no conditions	<p>Construction and Operation</p> <p>No point source emissions to groundwater are expected during construction or operation of the new tyre disposal area. The licensee has stated that the depth to groundwater in the area is greater than 20 metres below ground level (mbgl).</p> <p>No specified conditions relating to point source emissions to groundwater or the monitoring of such emissions are required to be added to the licence as part of this amendment.</p> <p>Assessment of the impact of landfill seepage on groundwater is discussed in the emissions to land section.</p>	Application supporting documentation
Emissions to land including monitoring	Licence – no conditions	<p>Construction</p> <p>No emissions to land are expected during the construction of the new tyre disposal area.</p> <p>Operation</p> <p><u>Emission Description</u></p> <p><i>Emission:</i> Discharge of leachate from waste onto land, the release of contaminated stormwater (that has been in contact with waste) on to land and windblown waste.</p> <p><i>Impact:</i> Contamination of the surrounding environment including soil, surface water and groundwater causing potential death of vegetation and fauna.</p> <p><i>Controls:</i></p> <ul style="list-style-type: none"> The new tyre disposal area is located in an area where the depth to groundwater is approximately 20mbgl. Tyres will not be disposed of within 10 meters of the boundary or 3 meters of the highest level of the underlying water table; Stormwater will be diverted away from the tyre disposal area; 	<p>Application supporting documentation</p> <p>General provisions of the <i>Environmental Protection Act 1986</i>.</p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
	Licence conditions: 1.3.4, 1.3.5, 2.2.1, 2.2.2 and 3.2.1	<ul style="list-style-type: none"> • Tyres will be buried in batches separated from each other by at least 100 mm of inert material; • Tyres will be covered by inert material to a depth of at least 500mm; • All other waste will be segregated and directed to the site's current landfill facility; and • Regular inspections will occur to assess disposal management. <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> It is not expected that significant amounts of leachate or windblown waste will be generated by the disposal of tyres at the waste rock landform. The separation distance to groundwater is large so it is not expected that an environmental impact will occur to groundwater. No conditions associated with emissions to land are required to be added to the licence as a result of this amendment.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p>Targets and limits associated with the WWTP Details of DER's assessment and decision making are included in Appendix B.</p>	
Fugitive emissions	Licence – No conditions	Construction and Operation <i>Emission:</i> During construction of the new tyre disposal area dust emissions may arise	Application supporting



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>due to earthmoving activities and site levelling. During operation fugitive dust emissions may arise from vehicle movement on unsealed roads, earthmoving activities and from cleared areas and stockpiles.</p> <p><i>Impact:</i> dust emissions impacting vegetation and nuisance dust impacting sensitive receptors.</p> <p><i>Controls:</i> Dust emissions will be managed via the use of water carts.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> It is not expected that dust will have a significant impact on the off-site environment. No conditions associated with dust are required to be added to the licence as a result of this amendment.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p><u>Mt Webber DSO project</u> Existing dust controls that are being implemented across the Mt Webber DSO project include;</p> <ul style="list-style-type: none"> Dust suppression at the ore processing facility is undertaken with water sprays on the crushing circuit. A mobile truck with a water cannon and/or spray bar will be also utilised to manage dust from the stockpiles as required. Transfer chutes are covered to further reduce dust emissions; and 	<p>documentation</p> <p>General provisions of the <i>Environmental Protection Act 1986</i>.</p> <p><i>Administrative changes implemented within the Department of Environment Regulation, DER public website at:</i> www.der.wa.gov.au</p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<ul style="list-style-type: none"> Dust associated with the crushing and screening plant is minimal and temporary. A mobile water cart is utilised to control dust on trafficable areas and stockpiles. <p>Fugitive emissions of dust from the Mt Webber DSO project are considered low risk given the location of the Premises (approximately 170 kilometres (km) south-east of Port Hedland and Hillside Station homestead >20 km away) and the accommodation villages are situated at suitable distances from the mine operations</p> <p>Previous conditions 2.6.1 and 2.6.2 has been removed from the licence as the environmental/health risk of dust emissions associated with the premises is low. This is in accordance with Departmental reform as published on DER's website under <i>"Administrative changes implemented within the Department of Environment Regulation. General provisions of the Environmental Protection Act 1986 and the Environmental Protection (Unauthorised Discharges) Regulations 2004 apply.</i></p>	
Odour	Licence – no conditions	<p>Construction and Operation No odour emissions will be generated by the construction or operation of the tyre disposal area.</p> <p><u>Mt Webber DSO project</u> Existing odour controls that are being implemented across the Mt Webber DSO project include;</p> <ul style="list-style-type: none"> Regular inspections and maintenance of the WWTPs to ensure efficient operation; The WWTPs has been designed as an enclosed system and includes chlorination disinfection to reduce odour emissions; and Sludge is regularly removed by an approved contractor and disposed offsite at a licensed waste disposal facility; and Some odour may be generated from the sites putrescible landfill however this is not expected to be significant as waste is covered monthly or as soon as 	<p>Application supporting documentation</p> <p>General provisions of the <i>Environmental Protection Act 1986.</i></p> <p><i>Administrative changes implemented within the Department of</i></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>practicable after deposit.</p> <p>Fugitive emissions of odour from the Mt Webber DSO project are considered low risk given the location of the Premises (approximately 170 kilometres (km) south-east of Port Hedland and Hillside Station homestead >20 km away) and the accommodation villages are situated at suitable distances from the WWTPs.</p> <p>Previous condition 2.4.1 has been removed from the licence as the environmental/health risk of odour emissions associated with the premises is low. This is in accordance with Departmental reform as published on DER's website under "Administrative changes implemented within the Department of Environment Regulation". General provisions of the <i>Environmental Protection Act 1986</i> and the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i> apply.</p>	<p><i>Environment Regulation</i>, DER public website at: www.der.wa.gov.au</p>
Noise	N/A	<p>Construction and Operation</p> <p><u>Emission Description</u> <i>Emission:</i> Noise emissions from vehicle movement and earthmoving equipment during construction and operation of the tyre disposal area. <i>Impact:</i> Nuisance noise emissions impacting nearby sensitive receptors (Hillside Station homestead >20 km away). <i>Controls:</i> Atlas has stated that noise levels will comply with the <i>Environmental Protection (Noise) Regulations 1997</i> at all times. Noise levels are not expected to be significant.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p> <p>Due to the large distance to the nearest sensitive receptor (Hillside Station homestead >20 km away) it is unlikely that noise emissions will have a significant impact on the</p>	<p>Application supportant documentation.</p> <p><i>Environnemental Protection (Noise) Regulations 1997.</i></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>offsite environment.</p> <p><u>Regulatory Controls</u> No specified conditions are required to be added to the licence.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	
Monitoring general	L3.2.1	The existing licence has conditions relating to monitoring of emissions to land at discharge points located at the sewage treatment plants. No additional conditions relating to monitoring general are required to be added to the licence as a result of this amendment.	N/A.
Monitoring of inputs and outputs	L3.3.1	The existing licence has conditions relating to the monitoring of inputs and outputs at the current landfill. No additional conditions relating to inputs and outputs are required to be added to the licence as a result of this amendment.	N/A.
Process monitoring	N/A.	No specified conditions relating to process monitoring are required to be added to the licence as a result of this amendment.	N/A.
Ambient quality monitoring	N/A.	No specified conditions relating to ambient quality monitoring are required to be added to the licence as a result of this amendment.	N/A.
Meteorological monitoring	N/A.	No specified conditions relating to meteorological monitoring are required to be added to the licence as a result of this amendment.	N/A.
Improvements	N/A.	No specified conditions relating to improvements are required to be added to the licence as a result of this amendment	N/A.
Information	L4.2.2 and 4.3.1	Condition 4.2.2 has been updated to ensure the Licensee provides an assessment and comparison of the emissions to land monitoring data against the <i>National Water Quality Management Strategy, Australian Guidelines for Sewerage Systems - Effluent Management</i> , Agriculture and Resource Management Council of Australia and New	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
		<p>Zealand and Australian and New Zealand Environment and Conservation Council, 1997 (NWQMS 1997) and all previous monitoring data.</p> <p>Condition 4.3.1 has been updated to include a requirement for Atlas Iron to notify DER within 14 days of the completion of the works involved in the construction of the tyre disposal area. The notification will confirm that the works have been constructed in accordance with condition 1.3.10.</p> <p>No additional conditions relating to information are required to be added to the licence as a result of this amendment.</p>	
Licence Duration	N/A.	The licence is due to expire in March 2019. No change to the licence duration has occurred as a result of this amendment.	N/A.



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
28/01/2016	Proponent sent a copy of draft instrument	<ul style="list-style-type: none">• Request to remove Category 12 from licence as it is no longer required; and• Request to make a minor change to wording within frequency column in Table 3.3.1	All changes requested by the proponent have been made to the licence.



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



Appendix A

Emissions to land including monitoring

Emission Description

Emission: Effluent from each of the Mt Webber DSO project wastewater treatment plants (Camp WWTP and MOC WWTP), which discharges to land via irrigation spray fields (Camp WWTP – 1.0 hectares (ha) and MOC WWTP 0.22 ha).

Impact: Effluent discharged as irrigation to land has the potential to result in degraded or waterlogged land, with soil or groundwater contamination arising where the effluent is either saline, turbid, nutrient enriched, and/or contaminated with metals.

Controls:

The following management measures are currently being implemented by Atlas Iron;

- The irrigation spray field areas are fenced and signed to restrict personnel from accessing the area;
- Irrigation fields are regularly inspected and undergo weed management;
- WWTPs are regularly serviced and maintained according to manufactures specifications;
- Treated wastewater is not applied during heavy rain events or if heavy rain is forecasted within two hours of application. Pooling of irrigated treated wastewater and surface runoff is unlikely due to vegetation uptake and the high evaporation rate experienced in the region (approximately 3 metres (m) per year);
- Treated wastewater quality is monitored on a quarterly basis as per condition 3.2.1; and
- Conditions 1.3.4 and 1.3.5 require Atlas Iron to manage the irrigation fields and WWTP treatment vessels appropriately to ensure environmental impact is minimised.

Risk Assessment

Consequence: Minor

Likelihood: Rare

Risk Rating: Low

Risk of a significant impact to the environment as a result of irrigation of wastewater has been determined as low. This has been determined based on the following information;

- The management measures (outlined above under *Controls*) undertaken by Atlas Iron to ensure that the WWTPs are operating efficiently and according to manufactures specifications;
- The project area is not located within a public drinking water source area (although it is located within the Pilbara Groundwater Management Area, proclaimed under the *Rights in Water and Irrigation Act 1914*, and the Pilbara Groundwater Province);
- Standing water levels from bores drilled northeast of the WWTPs show a groundwater gradient towards the Shaw River in the east. Bore depths in the vicinity of the WWTPs show that the static water levels range from 9.25 to 14.62 metres below ground level (mbgl). Therefore the likelihood of an impact to groundwater is low;
- There are no permanent surface water bodies located nearby to the irrigation areas: and
- The Licensee is required to monitor wastewater quality on a quarterly basis and to report the results along with a comparison against previous results in the Annual Environmental Report.

The Licensee's Annual Environmental Report for the 2015 reporting period noted that there were a number of exceedances of the water quality targets (for Total Nitrogen, Total Phosphorus, *E. coli* and Total Suspended Solids) during the reporting period. Each exceedance was followed up and management actions taken to address these exceedances.



Regulatory Controls

Previous condition 2.5.3 (wastewater quality targets) has been removed from the licence as the risk to the environment from the irrigation of treated wastewater is low. This is in accordance with Departmental reform as published on DER's website under "*Administrative changes implemented within the Department of Environment Regulation*" www.der.wa.gov.au.

Condition 4.2.2 has been updated to ensure the Licensee provides an assessment and comparison against the *National Water Quality Management Strategy, Australian Guidelines for Sewerage Systems - Effluent Management*, Agriculture and Resource Management Council of Australia and New Zealand and Australian and New Zealand Environment and Conservation Council, 1997 (NWQMS 1997) and all recorded monitoring data.

Previous condition 2.5.2 (now 2.2.2) has been modified to remove reference to Total Nitrogen and Total Phosphorus loading limits. These have been removed as;

- the risk to the environment from the irrigation of treated wastewater is low (see above); and
- the Department of Water's, Water Quality Protection Note 22, which the loading rate limits are based on, refers to industrial and agricultural wastewater not treated effluent and therefore do not apply.

Residual Risk

Consequence: Minor

Likelihood: Rare

Risk Rating: Low