



Licence

Environmental Protection Act 1986, Part V

Licensee: Atlas Group Pty Ltd

Licence: L6764/1997/14

Registered office: 501 Alexander Drive
MALAGA WA 6061

ACN: 009 061 063

Premises address: Atlas Group Pty Ltd
501 Alexander Drive
MIRRABOOKA WA 6061
Being Lot 1 on Diagram 36381 as depicted in Schedule 1.

Issue date: Thursday, 29 March 2012

Commencement date: Tuesday, 10 July 2012

Expiry date: Sunday, 9 July 2017

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
62	Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or re-use.	500 tonnes or more per year	70,000 tonnes per annual period
63	Class I inert landfill site: premises on which waste (as determined by reference to the waste types set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by the CEO and as amended from time to time) is accepted for burial.	500 tonnes or more per year	250,000 tonnes per annual period

Conditions

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

Date signed: 27 October 2015

.....
Alan Kietzmann

A/Manager Licensing (Waste 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 Group Pty Ltd (Atlas) operates a solid waste depot and Class I inert landfill site in the locality of Mirrabooka within the Perth metropolitan region. The premises is adjacent to land zoned for residential use, where the nearest residential dwelling is 70 metres north of the premises. The premises accepts unsegregated municipal waste from the City of Stirling.

Landfill activities have been carried out at the site since 1977, and previously both putrescible and inert wastes were accepted for burial. In 1997 the premises was reclassified from a putrescible landfill to a Class 1 inert landfill only, due to the risk to groundwater from putrescibles being buried in unlined cells. The premises continues to accept putrescible wastes for sorting only.

Waste arrives at the premises and is inspected prior to entry to ensure no asbestos or asbestos containing material can be visually identified. If the load is accepted, it is weighed at the weigh bridge and directed to either the landfill or enclosed Secondary Waste Sorting Facility for offloading and sorting. Within the facility waste types are separated into organic material suitable for composting (which is transported off-site to the Atlas Calingiri Composting Facility), recyclables, inert wastes and putrescible waste to be transported off-site to a Class II or Class III landfill facility for disposal.

The main potential emissions from the premises are:

- odour from the putrescible wastes accepted on site for sorting;
- dust from the landfilling of inert material;
- landfill gas emissions from the historical putrescible landfill cells; and
- landfill leachate seepage to groundwater from the historical putrescible landfill cells.

The sorting facility on the premises is equipped with a spray deodoriser system to assist in mitigating odour emissions.

A landfill gas extraction system and associated power generation infrastructure has operated at the premises since 1996.

Atlas was served an Investigation Notice in October 2011, under the *Contaminated Sites Act 2003*. The groundwater investigation which was conducted as part of the Investigation Notice found that landfill leachate had impacted groundwater beneath the landfill site and approximately one kilometre off-site to the southwest into residential areas of Dianella and Mirrabooka. As a result additional offsite groundwater sampling locations and additional sampling and reporting parameters were included on the licence in 2014.

This licence is the result of an amendment sought by Atlas to include the acceptance of Inert Waste Type 2 for burial. The intent of this amendment is to allow for acceptance and burial of



tyres, rubber and plastics that may be comingled within loads of waste accepted at the premises. Atlas has not requested an increase to the quantity limit per annual period for category 63 activities.

The licences and works approvals issued for the Premises since 17/07/2000 are:

Instrument log		
Instrument	Issued	Description
L6764/1997/6	17/07/2000	Licence re-issue
L6764/1997/7	17/07/2001	Licence re-issue
L6764/1997/8	17/07/2002	Licence re-issue
L6764/1997/9	17/07/2003	Licence re-issue
L6764/1997/10	12/07/2004	Licence re-issue
L6764/1997/11	27/06/2005	Licence re-issue
L6764/1997/12	07/07/2006	Licence re-issue
L6764/1997/13	29/06/2009	Licence re-issue
L6764/1997/14	29/03/2012	Licence re-issue
	01/05/2014	Licence amendment to updated format
	04/12/2014	Licence amendment to groundwater monitoring regime including addition of off-site monitoring bores.
	22/10/2015	Licence amendment to include the acceptance of Inert Waste Type 2.

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:

'ACM' means asbestos containing material and has the meaning defined in the Guidelines for Assessment, Remediation and Management of Asbestos Contaminated Sites, Western Australia, (DOH, 2009);

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

'annual period' means the inclusive period from 1 January until 31 December in the same year;

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

'asbestos' means the asbestiform variety of mineral silicates belonging to the serpentine or amphibole groups of rock-forming minerals and includes actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite and any mixture containing 2 or more of those;

'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

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

'DER Asbestos Guidelines' means the current version of the Guidelines for managing asbestos at construction and demolition waste recycling facilities as published by the Department of Environment and Conservation, Government Western Australia;

'emergency situations' means plant break down and regular servicing of the sorting facility;

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

'odour control system' means the system on the premises consisting of misting spray nozzles which inject a fine aerosol or odour neutralising solution into the air of the enclosed waste receival area and waste sorting process area of the sorting facility;



'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 L6764/1997/14 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;

'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 Definitions;

'quarantined storage area 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;

'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;

'sorting facility' means the waste depot on the Premises comprising the enclosed waste receival area and waste sorting process area, and being the building so named in the Sorting facility map in Schedule 1; and

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

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 current version of the 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 only accept waste on to the Premises if:
- (a) it is of a type listed in Table 1.3.1; and
 - (b) the quantity accepted is below any quantity 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 type	Quantity limit tonnes/ year	Specification¹
Inert Waste Type 1	250 000 tonnes	Waste containing visible asbestos or ACM shall not be accepted.
Inert Waste Type 2		Used tyres, rubber waste and plastics only.
Putrescible waste	70 000 tonnes	None specified

Note 1: Additional requirements for the acceptance of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

- 1.3.2 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 quarantined storage area or container and removed to an appropriately authorised facility as soon as practicable.
- 1.3.3 The Licensee shall ensure that wastes accepted onto the Premises are only subjected to the process(es) 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(es)	Process limits¹
Inert Waste Type 1	Receipt, handling, associated storage and disposal of waste by landfilling	<ul style="list-style-type: none"> • Disposal of waste by landfilling shall only take place within the landfill area shown on the Landfill Area Map in Schedule 1. • The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2m. • Crushing and screening of Inert Waste Type 1 is not permitted.
Inert Waste Type 2		



Table 1.3.2: Waste processing		
Putrescible waste	Receipt, handling and storage prior to disposal	<ul style="list-style-type: none"> Putrescible waste shall only be unloaded and stored inside the enclosed waste receival area of the sorting facility. When putrescibles waste cannot be unloaded or stored inside the enclosed waste receival area of the sorting facility due to unforeseen circumstances, the truck load shall be covered and stored within an enclosed area of the premises. Putrescible waste shall be processed through the sorting facility within 24 hours of receival at the premises (excluding emergency situations and weekends). Major waste streams derived from the sorting process must be removed from the premises for disposal within 24 hours after the waste is processed. The Licensee may retain up to 10 tonnes of waste in the waste processing machinery of the sorting facility until the next operating day following the feeding of the waste into the waste processing machinery.

Note 1: Additional requirements for the acceptance and landfilling of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

1.3.4 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.

Table 1.3.3: Cover requirements			
Waste type	Material	Depth	Timescales
Inert Waste Type 2	Type 1 Inert Waste or clean fill	100 mm	<ul style="list-style-type: none"> By the end of the working day in which the waste was deposited Plastic with the potential to become windblown shall be covered as soon as practicable after deposit.

1.3.5 The Licensee shall manage the landfilling activities to ensure:

- waste is levelled and compacted as soon as practicable after it is discharged; and
- waste is placed and compacted to ensure all faces are stable and capable of retaining rehabilitation material; and
- rehabilitation of a cell or phase takes place within 6 months after disposal in that cell or phase has been completed.

1.3.6 The Licensee shall implement the following security measures at the site:

- erect and maintain suitable fencing to prevent unauthorised access to the site; and
- ensure that any entrance gates to the premises are securely locked when the premises are unattended; and
- undertake regular inspections of all security measures and repair damage as soon as practicable.

1.3.7 The Licensee shall take all reasonable and practical measures to ensure that no windblown waste escapes from the Premises and that windblown waste is collected on at least a weekly basis and returned to the tipping area or appropriately contained.

1.3.8 The Licensee shall implement control measures to prevent infestations of pests, flies and vermin at the Premises.



- 1.3.9 The Licensee shall operate the landfill gas extraction wells so as to collect and either flare or reuse landfill gas on a continuous basis.
- 1.3.10 The Licensee shall ensure that areas on the Premises where waste has previously been disposed to landfill are inspected daily for the release of gas.
- 1.3.11 The Licensee shall take immediate action to control the release of gas when identified.
- 1.3.12 The Licensee shall:
- (a) operate the odour control system whenever waste is processed through the sorting facility; and
 - (b) apply surface spray onto wastes in the receipt area as required in order to suppress odours from the sorting facility.
- 1.3.13 The Licensee shall undertake activities on the Premises and manage asbestos and ACM in accordance with the Atlas Group Asbestos Management Plan, September 2014, Atlas Group Pty Ltd, Lot 1 Alexander Drive Mirrabooka.

2 Monitoring

2.1 General monitoring

- 2.1.1 The licensee shall ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - (b) all groundwater sampling is conducted in accordance with AS/NZS 5667.11;
 - (c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured; and
 - (d) Laboratory analysis shall be in accordance with the latest updated version of the National Environmental Protection (Assessment of Site Contamination) Measure 1999.
- 2.1.2 The Licensee shall ensure that six monthly monitoring is undertaken at least 5 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 and the requirements of the Licence.
- 2.1.4 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 Director accompanied with a report comprising details of any modifications to the methods.

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 Wastes Type 1 and 2	m ³	N/A	Each load arriving at the Premises
	Putrescible waste	tonnes		
Waste Outputs	Waste type as defined in the Landfill Definitions	m ³		Each load leaving or rejected from the Premises

2.3 Ambient environmental quality monitoring

2.3.1 The Licensee shall undertake the monitoring in Table 2.3.1 according to the specifications in that table.

Table 2.3.1: Monitoring of ambient groundwater quality				
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
<u>"Onsite" monitoring bores</u> BH2D MW1-1, and MW1-5 BH2S, BH7, BH9, and BH12, <u>"Offsite" monitoring bores</u> MW1-2, MW1-3, MW1-7, MW1-8, MW1-9 MW1-10, and MW1-11	Standing water level (SWL) ¹	M(AHD) and M(BGL)	Spot sample	Six monthly
	pH	-		
	Total dissolved solids	mg/L		
	Arsenic			
	Cadmium			
	Chromium			
	Copper			
	Iron			
	Manganese			
	Nickel			
	Lead			
	Potassium			
	Zinc			
	Chloride			
	Nitrate			
	Ammonia			
	Total nitrogen			
	Total phosphorus			
	Total organic carbon			
	Total recoverable hydrocarbons			
Naphthalene				
<u>"Onsite" monitoring bores</u> BH2D MW1-1, and MW1-5 BH2S, BH7, BH9, and BH12.	Benzene	mg/L	Spot sample	Six monthly
	Toluene			
	Ethylbenzene			
	Xylenes			
	Organochlorine and Organophosphate Pesticides			
	Polycyclic Aromatic Hydrocarbons (PAHs)			
	Polychlorinated Biphenyls (PCBs)			

Note 1: SWL shall be determined prior to collection of water samples.



2.4 Meteorological monitoring

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

Monitoring station & location	Parameter	Units	Height	Method
Weather station on the premises	Wind speed	m/s	10 m	None specified
	Wind direction	Degrees	10 m	
	Air temperature	°C	10 m	

3 Information

3.1 Records

3.1.1 All information and records required by the Licence shall:

- be legible;
- if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- 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
- for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - off-site environmental effects; or
 - matters which affect the condition of the land or waters.

3.1.2 The Licensee shall ensure that:

- 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
- 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 within 60 calendar days after the end of the annual period. 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 2.2.1	Summary of inputs and outputs. These quantities must distinguish whether they are processed as part of either category 62 or 63 activities.	
Table 2.3.1	Monitoring of ambient groundwater quality	
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) an assessment of the information contained within the report against previous monitoring results and Licence limits; and
- (b) an assessment of the ground water monitoring results compared against:
 - the potassium chloride ratio 0.3 (greater than this ratio indicates potential presence of landfill leachate) ;
 - for “offsite” monitoring bores only, the site specific criteria of 2mg/L for TRH and 0.26mg/L for naphthalene;
 - nominal criteria of 300mg/L for ammonia and 10mg/L for iron to identify any decline in existing groundwater quality; and
 - non-potable use guidelines for arsenic (0.1mg/L) and manganese (5mg/L).

3.2.3 The Licensee shall submit the information in Table 3.2.2 to the CEO according to the specifications in that table.

Table 3.2.2: Non-annual reporting requirements				
Condition or table (if relevant)	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 CEOs request	As received by the Licensee from third parties

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. Part B: As soon as practicable	N1
2.1.4	Calibration report	As soon as practicable.	None specified
2.3.1	Any monitoring bores are de-commissioned or rendered unusable	Within 7 days of being made aware	

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

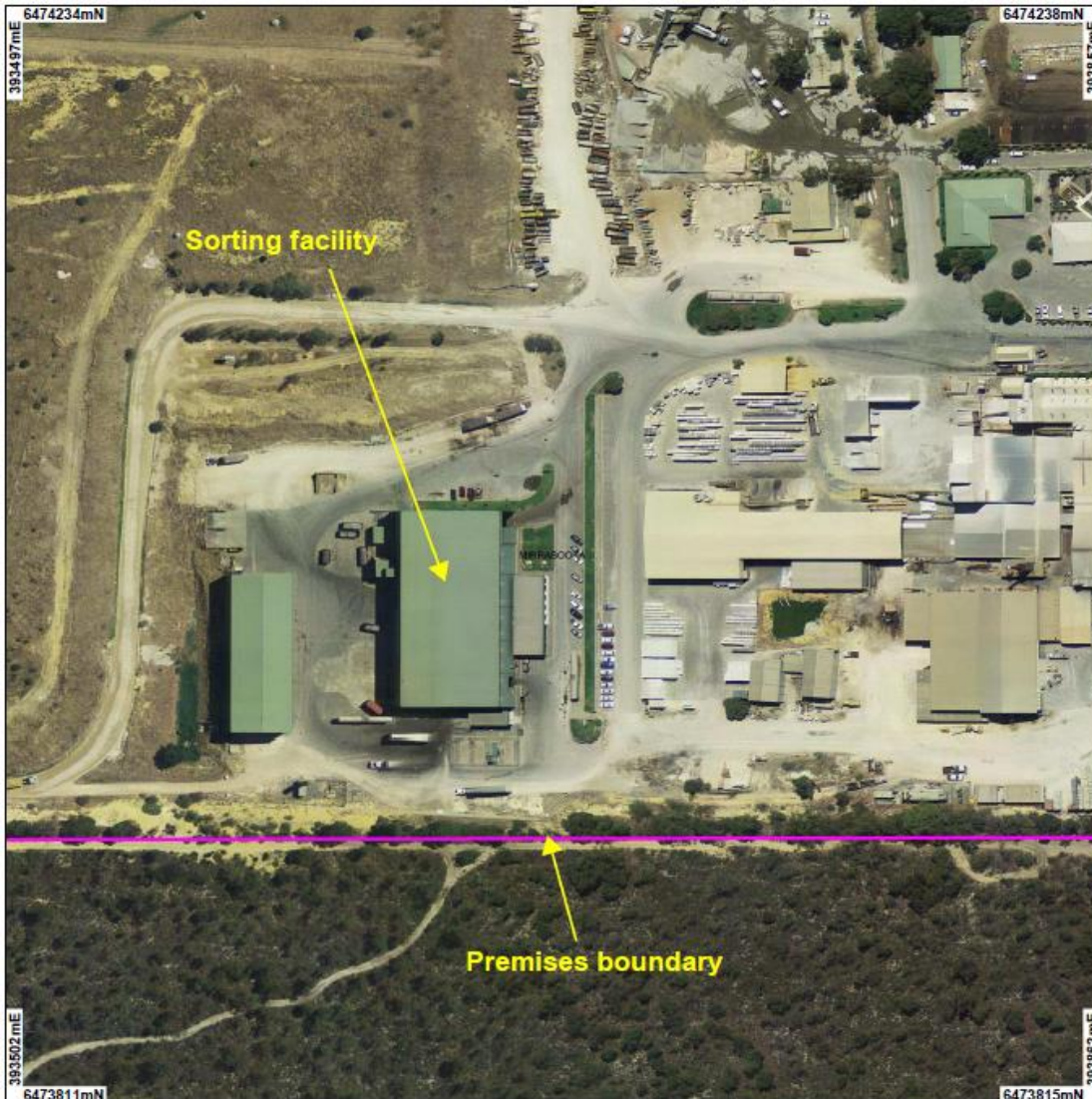
The Premises is shown in the map below. The pink line depicts the Premises boundary.





Sorting facility map

The sorting facility is shown in the map below.



LEGEND

Localities
Perth Metropolitan Central
15cm Orthomosaic - Landgate
2011

Scale 1:2117
(Approximate when reproduced at Letter)
Geocentric Datum Australia 1994
Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.
Prepared by: tessas
Prepared for:
Date: 8/20/2013 2:45:09 PM

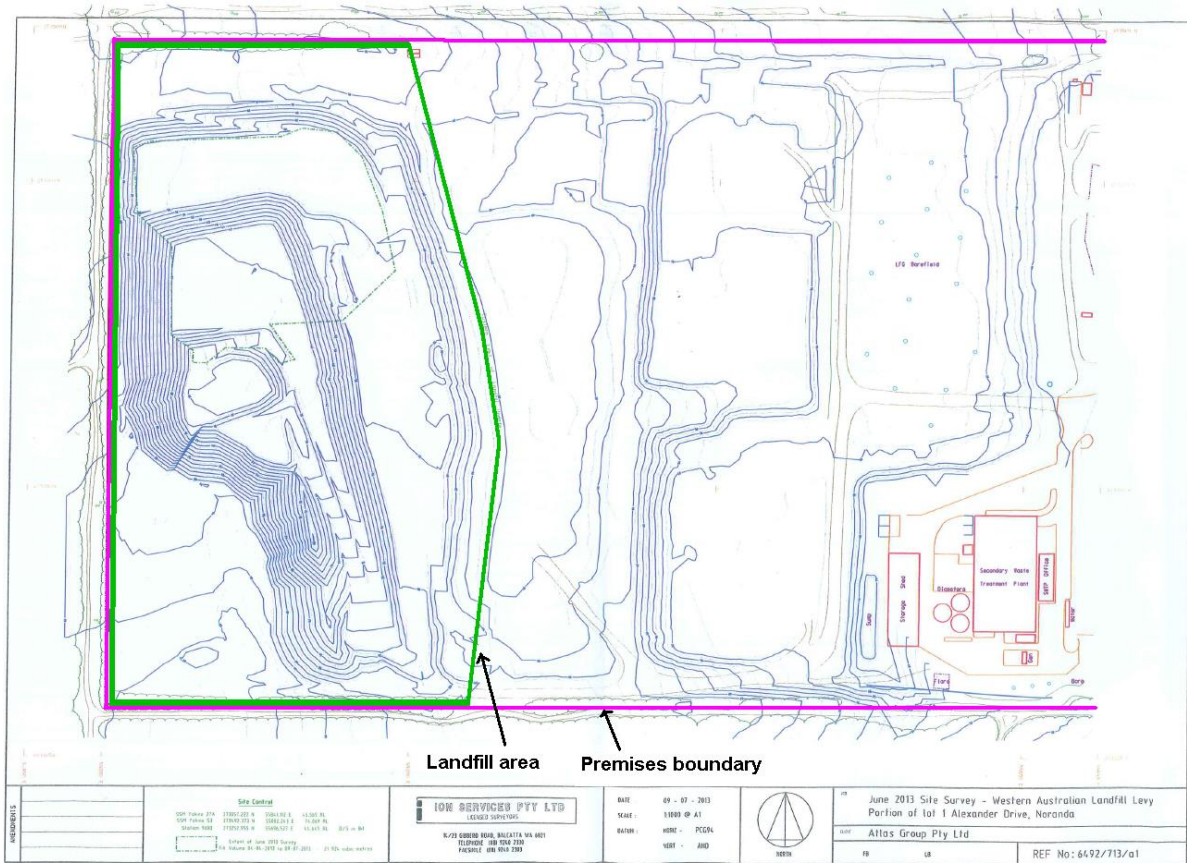
Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.

Government of Western Australia
Department of Environment Regulation
WA Crown Copyright 2002



Landfill Area Map

The area in which the disposal of waste by landfilling may take place is show in the map below.





Map of monitoring locations

The locations of the monitoring points defined in Table 2.3.1 shown below.



LEGEND

Perth Metropolitan Area
Central 15cm Orthomosaic -
Landgate 2012
Mundaring 1m Orthomosaic -
Landgate 2000



Scale 1:13964
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

Prepared by: LindyT
Prepared for:
Date: 15/08/2014 12:37:52 PM

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



Government of Western Australia
Department of Environment Regulation
WA Crown Copyright 2002

* Project Data. This data has not been quality assured. Please contact map author for details.



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.

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 B DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____	<input type="checkbox"/> No
<input type="checkbox"/> Reported to DER in writing Date _____	
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) may 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 Corporations Act 2001; 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: ____/____/____



Licence: L6764/1997/14
Form: N1

Licensee: Atlas Group Pty Ltd
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 Atlas Group Pty Ltd	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Atlas Group Pty Ltd

Licence: L6764/1997/14

Registered office: 501 Alexander Drive
MALAGA WA 6061

ACN: 009 061 063

Premises address: Atlas Group Pty Ltd
501 Alexander Drive
MIRRABOOKA WA 6061
Being Lot 1 on Diagram 36381 as depicted in Schedule 1.

Issue date: Thursday, 29 March 2012

Commencement date: Tuesday, 10 July 2012

Expiry date: Sunday, 9 July 2017

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: Melissa Chamberlain
Licensing Officer

Decision Document authorised by: Alan Kietzmann
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	Category number(s)	Assessed design capacity
	62	70,000 tonnes per annual period
	63	250,000 tonnes per annual period
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 type="checkbox"/>	No <input checked="" 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"/>
Is the proposal subject to Ministerial Conditions?	Referral decision No:	
	Managed under Part V <input type="checkbox"/>	
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>)?	Assessed under Part IV <input type="checkbox"/>	
	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area Environmental Protection Swan Coastal Plain Lakes Policy 1992	Department of Water consulted Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>



3 Executive summary of proposal and assessment

Atlas Group Pty Ltd (Atlas) operates a solid waste depot and Class I inert landfill site in the locality of Mirrabooka within the Perth metropolitan region. The premises is adjacent to land zoned for residential use, where the nearest residential dwelling is 70 metres north of the premises. The premises accepts unsegregated municipal waste from the City of Stirling.

Landfill activities have been carried out at the site since 1977, and previously both putrescible and inert wastes were accepted for burial. In 1997 the premises was reclassified from a putrescible landfill to a Class 1 inert landfill only due to the risk to groundwater from putrescibles being buried in unlined cells. The premises continues to accept putrescible wastes for sorting only.

Waste arrives at the premises and is inspected prior to entry to ensure no asbestos or asbestos containing material can be visually identified. If the load is accepted, it is weighed at the weigh bridge and directed to either the landfill or enclosed Secondary Waste Sorting Facility for offloading and sorting. Within the facility waste types are separated into organic material suitable for composting (which is transported off-site to the Atlas Calingiri Composting Facility), recyclables, inert wastes and putrescible waste to be transported off-site to a Class II or Class III landfill facility for disposal.

The main potential emissions from the premises are:

- odour from the putrescible wastes accepted on site for sorting;
- dust from the landfilling of inert material;
- landfill gas emissions from the historical putrescible landfill cells; and
- landfill leachate seepage to groundwater from the historical putrescible landfill cells.

The sorting facility on the premises is equipped with a spray deodoriser system to assist in mitigating odour emissions.

A landfill gas extraction system and associated power generation infrastructure has operated at the premises since 1996.

Atlas was served an Investigation Notice in October 2011, under the *Contaminated Sites Act 2003*. The groundwater investigation which was conducted as part of the Investigation Notice found that landfill leachate had impacted groundwater beneath the landfill site and approximately one kilometre off-site to the southwest into residential areas of Dianella and Mirrabooka. As a result additional offsite groundwater sampling locations and additional sampling and reporting parameters were included on the licence in 2014.

This licence is the result of an amendment sought by Atlas to include the acceptance of Inert Waste Type 2 for burial. The intent of this amendment is to allow for acceptance and burial of tyres, rubber and plastics that may be comingled within loads of waste accepted at the premises. Atlas has not requested an increase to the quantity limit per annual period for category 64 activities.



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
Interpretation	L1.1.2	Definitions under condition 1.1.2 have been amended in line with DER's current licensing process.	N/A
	L1.2.1	Previous condition 1.2.1 has been moved to condition 1.1.5	N/A
General conditions	L1.2.1	Previous condition 1.2.3 has been removed in line with DER's current licensing process. Hazardous materials are appropriately controlled by the Department of Mine and Petroleum's Code of Practice for the storage and handling of dangerous goods.	Code of Practice: Storage and handling of dangerous goods, Department of Mines and Petroleum, 2010.
	N/A	Conditions under section 1.2 have been renumbered.	N/A
Premises operation	L1.3.1	Table 1.3.1 has been amended to include the additional waste type that can be accepted at the premises as part of this amendment and limits this waste type to used tyres, rubber waste and plastics only. The control measures proposed in the application documentation has been assessed by DER as being suitable for controlling potential emissions from that waste.	Application supporting documentation
	L1.3.3	Table 1.3.3 has been amended to include Inert Waste Type 2. The supporting documentation indicates that Inert Waste Type 2 will be subject to the same processes as Inert Waste Type 1 and so the table imposes the same process limits on both waste types.	
	L1.3.3	Condition 1.3.4 and Table 1.3.3 specify the cover requirements for the Inert Waste Type 2. Inert Waste Type 2 poses a risk of windblown waste and fire. The licensee has proposed to mitigate these risks by applying a daily cover, and immediate cover following the identification of plastics in the waste. This condition is included	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
		to require the licence to adhere to these control measures.	
Emissions	L2.1.1	Previous condition 2.1.1 requiring the licensee to record and investigate the exceedance of any descriptive or numerical limit or target specified in any part of section 2 has been removed as all conditions in this section have been removed in line with DER's current licensing processes.	N/A
	L2.6.1 – 2.6.2	Previous conditions 2.6.1 and 2.6.2 relating to fugitive emissions have been removed from the licence as part of DER's current licensing processes. Fugitive emission are adequately regulated by the general provisions of the <i>Environmental Protection Act 1986</i> .	General provisions of the <i>Environmental Protection Act 1986</i>
	L2.7.1	Previous condition 2.7.1 relating to odour has been removed from the licence in line with DER's current licensing processes. Odour is adequately controlled under the general provisions of the <i>Environmental Protection Act 1986</i> .	General provisions of the <i>Environmental Protection Act 1986</i>
	N/A	All wording relating to 'no specified conditions' and related headings has been removed in line with DER's current licensing processes.	N/A
Monitoring	N/A	The monitoring section and conditions have been re-numbered	N/A
	N/A	All wording relating to 'no specified conditions' and related headings has been removed in line with DER's current licensing processes.	N/A
	L2.1.2	Parameters in Table 2.1.1 have been amended to require monitoring of Inert Wastes Type 1 and 2. This condition is required to monitor compliance with condition 1.3.1	N/A
Improvements	N/A	The previous Improvements section has been removed as there are no improvement conditions	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
Information	N/A	The Information section has been renumbered	N/A
	L3.2.1	The summary of inputs and outputs is to distinguish whether the waste quantities processed as either part of the solid waste depot or landfilling activities in order to clarify throughput capacity against approved capacity.	
	L3.2.2	Condition 3.2.2 (a) has been amended to remove reference to targets in line with DER's current licensing processes.	N/A
	L3.3.1	Table 3.3.1 has been amended to remove the requirement to report any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution, as this requirement is adequately covered by section 72 of the environmental protection act. This notification parameter is to be removed in line with DER's current licensing processes.	<i>Environmental Protection Act 1986</i>
Licence Duration		This licence amendment has not reassessed the licence duration.	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
16/10/2015	Proponent sent a copy of draft instrument	Request for minor amendment to premises description and licence summary wording. Identification of incorrect numbering within conditions.	Premises description and licence summary changed slightly and numbering corrected.
21/10/2015	Proponent sent a copy of draft instrument	No comments. Waiver form submitted	Amendment issued as soon as possible.



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