

# Licence

# Environmental Protection Act 1986, Part V

Licensee: City of Kalgoorlie-Boulder

Licence: L5979/1993/11

Registered office: 577 Hannan Street

KALGOORLIE WA 6430

Premises address: Yarri Road Refuse Facility

Lot 251 on Plan 190202 KALGOORLIE WA 6430 as depicted in Schedule 1

**Issue date:** Thursday, 7 April 2016

Commencement date: Thursday, 14 April 2016

**Expiry date:** Sunday, 13 April 2036

#### 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
57	Used tyre storage (general): premises (other than premises within category 56) on which used tyres are stored.	100 tyres or more	2,500 tyres at any time
62	Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or re-use.	500 tonnes or more per year	10,000 tonnes per annual period
64	Class II or III 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 and as amended from time to time) is accepted for burial.	20 tonnes or more per year	150,000 tonnes per annual period

#### **Conditions**

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

Date signed: 7 April 2016

Steve Checker

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 works with the business owners, community, consultants, industry and other representatives 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: <a href="http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html">http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html</a>

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**

The Yarri Road Refuse Facility is a Class II Putrescible landfill, accepting up to 150,000 tonnes of waste per annum, including mixed municipal solid, commercial, industrial and construction waste. The site was opened in May 1993 and operation of the facility was handed to Grosvenor Lodge AFC via contract on 1 July 1999.

The site is located 7 kilometres north-east of Kalgoorlie-Boulder, with the closest neighbours being the Goldfields Aeromodellers Club Inc. approximately 200 metres south-west, and some rural properties at 900 metres south-east. The closest residential premises are located at Ninga Mia, being approximately 2.5 kilometres to the south-west. The site occupies approximately 64 hectares.

The landfill is clay lined.

During the 2016 reporting period the water table depth varied between 19.69 and 26.12 metres below ground level.

The following activities are carried out at the landfill:

- Receipt and disposal of household and commercial waste
- Receipt and disposal of Special Waste Type 1
- Receipt and disposal of Special waste type 2
- Receipt and disposal of Inert Waste Type 1
- Receipt and disposal of Inert Waste Type 2
- Receipt of unprocessed greenwaste
- Mulching of received greenwaste
- Stockpiling of scrap metal car bodies
- Stockpiling of tyres
- Stockpiling of daily cover material
- Stockpiling of white wares

The Licensee also has an agreement with Techcollect<sup>TM</sup>, entered under the National Television and Computer Recycling Scheme (NTCRS), that enables households and businesses to drop off their end-of-life electronic goods free-of-charge. All goods accepted under this agreement are stored in a 40 foot container at the entrance to the landfill (post-weighbridge) that will be removed by Techcollect<sup>TM</sup> when the container is full.

The main emissions generated from the premises are odour, dust and landfill gas. It is anticipated that these emissions can be adequately managed under the provisions of the Environmental Protection Act 1986 and mitigation measures put in place by the Licensee.

This Licence is the successor to licence L5979/1993/10 and includes changes as required to reflect current templates. The licences issued for the Premises since 2001 are:

Instrument log		
Instrument	Issued	Description
L5979/1993/5	14/04/2001	Licence reissue.
L5979/1993/6	14/04/2002	Licence reissue.
L5979/1993/7	03/06/2003	Licence reissue.



L5979/1993/8	14/04/2006	Licence reissue.
L5979/1993/9	14/04/2010	Licence reissue.
L5979/1993/10	14/04/2013	Licence reissue.
L5979/1993/11	07/04/2016	Licence reissue and converted into the latest DER format.

#### 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:
- 'Acceptance Criteria' has the meaning defined in the Landfill Definitions;
- **'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;
- 'AHD' means the Australian height datum;
- 'Annual Period' means the inclusive period from 14 March until 13 March in the following year;
- '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;
- 'Asbestos Fibres' has the meaning defined in the Guidelines for Assessment, Remediation and Management of Asbestos Contaminated Sites, Western Australia, (DOH, 2009);
- **'AS/NZS 5667.1'** means the Australian Standard AS/NZS 5667.1 *Water Quality Sampling Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;
- **'AS/NZS 5667.11'** means the Australian Standard AS/NZS 5667.11 *Water Quality Sampling Guidance on sampling of groundwaters*;
- '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 the Landfill Definitions;
- 'Cover Material' means subsoil or other approved inert waste used for covering of waste;
- 'Contaminated Solid Waste' means contaminated solid waste meeting the Acceptance Criteria for Class II landfills, as specified in the Landfill Definitions;
- 'Controlled waste' has the definition in Environmental Protection (Controlled Waste) Regulations 2004;
- 'Designated Burning Area' means an area of the premises that has been designated by the occupier of the premises as a designated burning area and which:
  - (a) is at least 25 metres from the boundary of the premises;



- (b) has no flammable material on it, other than the green waste and live trees, for a radius of 25 metres;
- is positioned in the area of the site where waste (other than the green waste to be burnt) has not been deposited; and
- (d) is at least 500 metres from any person's residence or place of employment (other than the landfill site) or an educational institution, hospital or other public place.
- 'DFES' means the Department of Fire and Emergency Services of Western Australia;
- 'Fire Control Officer', in relation to this landfill site, means a person who has such qualifications in fire fighting or fire control as are approved, appointed to that position by the licensee of the landfill site;
- 'Green Waste' means waste that originates from flora and which does not contain or has not been treated or coated with, preserving agents, biocides, fire retardants, paint, adhesives or binders;
- **'Leachate'** means a liquid containing contaminants leached from the waste mass produced as water percolates through a landfill;
- 'Inert Waste Type 1' has the meaning defined in the Landfill Definitions;
- 'Inert Waste Type 2' has the meaning defined in the Landfill Definitions;
- **'Landfill Definitions'** means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Environment as amended from time to time;
- 'Licence' means this Licence numbered L5979/1993/11 and issued under the Act;
- 'Licensee' means the person or organisation named as Licensee on page 1 of the Licence;
- 'mm' means millimetre;
- 'mg/L' means milligrams per litre;
- 'Municipal Waste' means waste collected at the kerbside by the local authority collection vehicle or its contractor;
- 'NATA' means the National Association of Testing Authorities, Australia;
- **'NATA Accredited'** means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;
- 'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;
- 'Putrescible Waste' has the meaning defined in the Landfill Definitions;
- '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;
- '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;

**'Security Mesh Fence'** means a fence 'cyclone' style of fence with a minimum height of 1.8 metres and be topped with three strands of barbed wire;

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

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

**'Usual Working Day'** means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

'Waste' has the meaning defined in the Environmental Protection Act 1986;

- 1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.
- 1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

#### 1.2 General conditions

1.2.1 The Licensee shall operate and maintain a surface water management system that prevents stormwater run-off from becoming contaminated by waste on the Premises.

### 1.3 Premises operation

- 1.3.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit in this section.
- 1.3.2 The Licensee shall 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; and
  - in the case of Contaminated Solid Waste, is supported by documentation that demonstrates compliance with the Acceptance Criteria for Class II landfills.

Table 1.3.1: Waste acceptance					
Waste type	Quantity limit tonnes/ year	Specification <sup>1</sup>			
Clean Fill					
Inert Waste Type 1	150 000 tannas				
Putrescible Waste	150,000 tonnes (combined total,	None specified			
Special Waste Type 1	excluding Clean Fill				
Special Waste Type 2	and recyclables)				
Contaminated Solid Waste	and recyclables)	Must meet the acceptance criteria for Class II landfills.			
Inert Waste Type 2	2,500 tyres at any time	Tyres for shredding and disposal to the landfill			
	une	Tyres for storing			

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

1.3.3 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.3.2 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.



1.3.4 The Licensee shall ensure that 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: Wa	iste processing	
Waste type(s)	Process	Process limits 1,2
All	Disposal of waste by landfilling	<ul> <li>Shall only take place within the landfill area shown on the Landfill Area Map in Schedule 1;</li> <li>No waste shall be temporarily stored or landfilled within 20 metres from the boundary of the premises;</li> <li>Place waste within a defined trench or within an area enclosed by earthen or other bunds;</li> <li>Restrict the tipping area to a maximum linear length of 75 metres;</li> <li>Maintain an undisturbed separation distance of at least three (3) metres between the base of the landfill disposal area to the highest level of groundwater;</li> <li>Maintain a minimum horizontal distance of at least one-hundred (100) metres between the previously filled areas of the premises or the tipping area and any surface water body; and</li> <li>Shall manage the active landfill area such that at no time does landfilling result in an exposed face exceeding two</li> </ul>
Clean Fill	Receipt,	(2) metres in vertical height.  None specified.
Contaminated Solid Waste	handling and disposal by landfilling	
Inert Waste Type 1	Receipt, handing, storage prior to disposal	Crushing and screening of Inert Waste Type 1 is not permitted
Inert Waste Type 2	Receipt, handing, storage prior to disposal	<ul> <li>Tyres to be stored in piles of up to 100 units stored as far apart as practicable;</li> <li>Tyres are shredded to a maximum size of 1000cm² prior to burial;</li> <li>When tyres are only being disposed of to landfill, they are to be covered at regular intervals such that no more than 100 tyres are left exposed at any time; and</li> <li>When tyres are disposed of in combination with domestic waste or general waste, they are not permitted to be disposed of as a proportion greater than one (1) tyre per ten (10m³) cubic metres of waste or one (1%) percent by volume.</li> </ul>
Putrescible Waste and/or Green Waste	Receipt, handing, storage prior to disposal	<ul> <li>Only to be stored and sorted on a hard standing area bunded to prevent run-off;</li> <li>Shall not be stored on the site for longer than 24 hours;</li> <li>No greater than 5000m³ of green waste shall be stored in any single pile;</li> <li>All mulched greenwaste shall be stored in windrows;</li> <li>All green waste storage areas shall be on an impermeable surface; and</li> <li>A five (5) metre wide buffer shall be maintained around green waste storage areas and each windrow.</li> </ul>
	Disposal by burning	<ul> <li>Burning of Green Waste only:</li> <li>to be dried and seasoned for at least 2 months before burning;</li> <li>to take place in a designated burning area</li> </ul>



		at least 25m from the boundary of any active disposal
		areas:
		to take place in trenches or windrows;
		to take place only when an adequate supply of water is
		available to effectively manage the burning process;
		to be burnt in a manner to minimise smoke generation;
		<ul> <li>ensure burning does not commence before 0800 hours</li> </ul>
		and the Fire Control Officer for the premises declares the
		area safe by 1700 hours on the same day; and
		Advise DFES at least 24 hours prior to burning
		commencing.
Special Waste	Receipt,	Asbestos Waste is only to be disposed of within a
Type 1	handling and	designated asbestos waste disposal area within the
(Asbestos	disposal by	landfill;
Waste)	landfilling under	Grid coordinates for all designated asbestos waste
	the supervision	disposal areas are to be recorded on a plan. The plan is to
	of the Licensee,	be stored within the premises boundary;
	or person	The Licensee is to maintain a register of all Asbestos
	nominated by	Waste buried on the premises as a permanent record;
	the Licensee	Asbestos waste must not be deposited within 2m of the
		final tipping surface of the landfill; and
		No works shall be carried out on the landfill that could lead
		to a release of asbestos fibres.
	Disposal of	Only to be disposed of into a designated clinical waste
	waste by	disposal area within the landfill;
	landfilling under	Grid coordinates for the designated disposal area are to
	the supervision	be recorded on a plan stored within the premises
	of the Licensee,	boundary;
Special Waste	or person	Keep a record of the waste received for at least 3 years;
Type 2	nominated by	Not to be deposited within 2m of the final tipping surface
	the Licensee	of the landfill;
		No works shall be carried out on the landfill that could lead
		to clinical wastes being excavated or uncovered.
		Restrict access to the landfill site where the waste is
		buried to authorised personnel only.

Note 1: Requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations1987*.

Note 2: 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*.

- 1.3.5 The Licensee shall manage the landfilling activities to ensure:
  - (a) waste is levelled and compacted as soon as practicable after it is discharged; and
  - (b) waste is placed and compacted to ensure all faces are stable and capable of retaining rehabilitation material.
- 1.3.6 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		
Special Waste Type 1	Type 1 Inert waste or 300 mm		As soon as practicable after deposit and prior to compaction.		
	soil	1 000 mm	By the end of the working day in which the asbestos waste was deposited.		
Special Waste Type 2	Type 1 Inert waste or soil	1 000 mm	Immediately after deposition.		

Inert Waste Type 2	Type 1 Inert waste or soil	100 mm	<ul> <li>By the end of the working day in which the waste was deposited.</li> <li>Plastic with the potential to become windblown shall be covered as soon as practicable after deposit.</li> </ul>
		600 mm	Final cover
Putrescible Waste	Type 1 Inert waste or soil	100 mm	By the end of the working day in which the waste was deposited.
		600 mm	Final cover
Inert Waste Type 1 No cover required			

- 1.3.7 The Licensee shall implement the following security measures at the site:
  - (a) erect and maintain a Security Mesh Fence to prevent unauthorised access to the site;
  - (b) ensure only one point of public access
  - (c) ensure that any entrance gates to the premises are securely locked when the premises are unattended; and
  - (d) undertake regular inspections of all security measures and repair damage within 2 working days after its discovery.
- 1.3.8 The Licensee shall take all reasonable and practical measures to ensure that no windblown waste escapes from the Premises and that wind-blown waste is collected on at least a monthly basis and returned to the tipping area.
- 1.3.9 The Licensee shall ensure wind-blown waste is contained within the boundaries of the active landfill area by installing and maintaining litter screens on three sides around and within 2 metres of the tipping area trench.
- 1.3.10 The Licensee shall install and maintain a sign at the entrance to the Premises which clearly displays the following information;
  - (a) hours of operation;
  - (b) contact telephone number;
  - (c) warning indicating penalties for people lighting fires; and
  - (d) list of materials accepted for recycling and the location of where they can be deposited on the premises.
- 1.3.11 The Licensee shall implement control measures to prevent infestations of pests, flies and vermin at the Premises.
- 1.3.12 The Licensee shall extinguish any unauthorised fire that may occur within the non-greenwaste area at the landfill site within eight hours of being notified of the fire.
- 1.3.13 The Licensee shall ensure that there are appropriate procedures in place at the Premises so that any unauthorised fire is promptly extinguished.
- 1.3.14 The Licensee shall not burn or allow the burning of non-greenwaste on the Premises.
- 1.3.15 The Licensee shall maintain the tyres in a tyre storage catchment area free of any accumulated storm water at all times.
- 1.3.16 The licensee shall without and undue delay following the extinguishing of a fire, ensure that fire water is removed from the Premises by a carrier licensed under the *Environmental Protection (Controlled Waste) Regulations 2004.*



## 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; 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.
- 2.1.2 The Licensee shall ensure that:
  - (a) quarterly monitoring is undertaken at least 45 days apart; and
  - (b) annual monitoring is undertaken at least 9 months apart.
- 2.1.3 The Licensee shall ensure that all monitoring equipment used on the Premises is to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.
- 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 CEO 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 1, Inert 2, Special Waste 1, Clean Fill, Contaminated Solid Waste, Putrescible Waste	tonnes	N/A	Each load arriving at the Premises		
Waste Outputs	Waste type as defined in the Landfill Definitions		IV/A	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: Mo	nitoring of ambient groundwater quality			
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
	Standing water level <sup>1</sup>	m(AHD)		
	pH <sup>1</sup>	N/A		
	Electrical conductivity <sup>1</sup>	μS/cm		
	Nitrate-nitrogen			
	Ammonia-nitrogen	]		
	Total Nitrogen			
	Total Phosphorus			
YR1,YR2,YR3,	Chloride		Spot	Quarterly
YR4 and YR5	Total Soluble solids		sample	Quarterry
	Lead	mg/L		
	Manganese			
	Copper			
	Chromium			
	Nickel			
	Zinc			
	Cadmium			

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

## 3 Information

#### 3.1 Records

- 3.1.1 All information and records required by the Licence shall:
  - (a) be legible;
  - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
  - (c) except for records listed in 3.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
  - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
    - (i) off-site environmental effects; or
    - (ii) matters which affect the condition of the land or waters.
- 3.1.2 The Licensee shall 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.
- 3.1.3 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.
- 3.1.4 The Licensee shall maintain accurate and up-to-date records of all Contaminated Solid Waste and Special Waste Type 1 and 2 disposed at the Premises, which includes the following:
  - (a) time and date of acceptance;
  - (b) type and nature of the waste;
  - (c) details of the delivery vehicle; and
  - (d) Map showing the position of Special Waste Type 1 and 2 disposed at the premises.
- 3.1.5 The Licensee shall implement and maintain a system which ensures that a record is made of rejected loads including details of the waste producer, waste carrier, registration number of the vehicle and the date and reason for rejection.



### 3.2 Reporting

3.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by 01 May in each year. The report shall contain the information listed in Table 3.2.1 in the format or form specified in that table.

Table 3.2.1: Annual Environmental Report					
Condition or table (if relevant)	Parameter	Format or form <sup>1</sup>			
-	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				
1.3.9	Measures taken to control pests, flies and vermin	None specified			
Table 2.2.1	A summary of waste input and outputs				
1.3.3 and 3.1.5	A summary of records of waste rejected during the Annual Period				
Table 2.3.1	Monitoring of ambient groundwater quality				
3.1.2	Compliance	Annual Audit Compliance Report (AACR)			
3.1.3	Complaints summary	None specified			
3.1.4 A summary of all Contaminated Solid Waste and Special Waste Type 1 and 2 received during the Annual Period		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) a list of any original monitoring reports submitted to the Licensee from third parties for the annual period and make these reports available on request.

### 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.

<b>Table 3.3.1: N</b>	Table 3.3.1: Notification requirements				
Condition or table	Parameter	Notification requirement <sup>1</sup>	Format or form <sup>2</sup>		
1.3.12	Unauthorised fire <sup>3</sup>	Notify the CEO if the fire is not extinguished within eight (8) hours.	Email or telephone call		
1.3.2; 1.3.4; 1.3.6	Breach of any limit specified in the Licence	the As soon as practicable but no later than 5 pm of the next working day.			
1.3.12	The date, time, cause and location of any unauthorised fire on the premises	Within fourteen (14) days of a fire.	Not specified		



1.3.4	Burning of green waste during prohibited and restricted burning times.	24 hours prior to burning commencing	Email or facsimile
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Note 1: No notification requirement in the Licence shall negate the requirement to comply with s72 of the Act.

Note 2: Forms are in Schedule 2. Note 3: Includes any landfill fire.



# Schedule 1: Maps

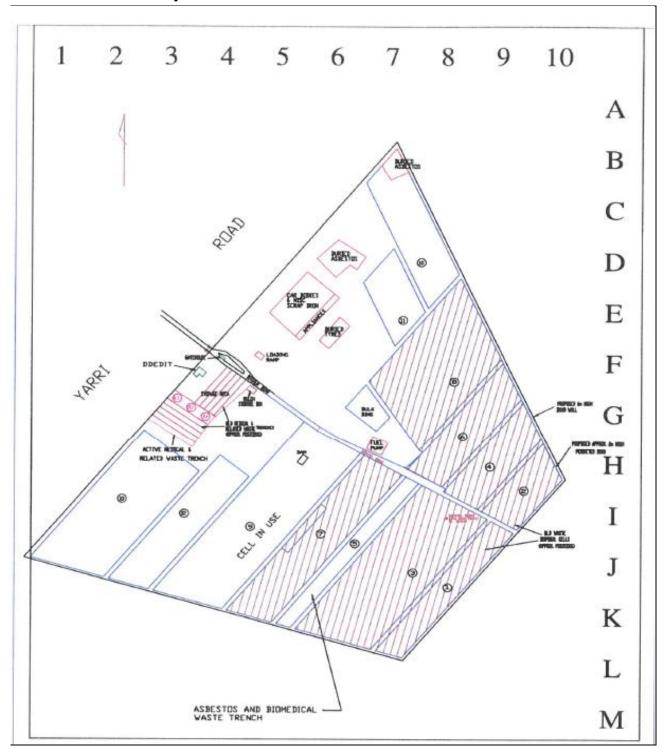
## Premises map

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





# Landfill area map





## Schedule 2: Reporting & notification forms

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

## ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

## **SECTION A**

LICENCE DETAILS		
Licence Number:		Licence File Number:
Company Name:		ABN:
Trading as:		
Reporting period:		
	to	
STATEMENT OF COMPLIANCE W	TH LICENCE CONDITIONS	
		eporting period? (please tick the appropriate
		Yes  Please proceed to Section
		No ☐ Please proceed to Section
Each page must be initialled by the AACR).	erson(s) who signs Section	C of this Annual Audit Compliance Report
nitial:		



## **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?:			
Yes Reported to DER verbally  Date	□ No		
Reported to DER in writing  Date			
d) Has DER taken, or finalised any action in relation to the non cor	mpliance?:		
e) Summary of particulars of the non compliance, and what was the	ne environmental impact:		
f) If relevant, the precise location where the non compliance occur	red (attach map or diagram):		
g) Cause of non compliance:			
h) Action taken, or that will be taken to mitigate any adverse effect	s of the non compliance:		
i) Action taken or that will be taken to prevent recurrence of the no	n compliance:		
Each page must be initialled by the person(s) who signs Section C	of this AACR		

Environmental Protection Act 1986 Licence: L5979/1993/11 File Number: 2012/006907

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:
	by the individual licence holder, or
An individual	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	by the principal executive officer of the licensee; or
unincorporated company	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.
	by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or
A corporation	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 outbority	by the principal executive officer of the licensee; or
A public authority (other than a local government)	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	by the chief executive officer of the licensee; or
a local government	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	

Environmental Protection Act 1986 Licence: L5979/1993/11

File Number: 2012/006907

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Licence: L5979/1993/11 Licensee: City of Kalgoorlie Boulder

Form: N1 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	
City of Kalgoorlie Boulder	
Date	



# **Decision Document**

## Environmental Protection Act 1986, Part V

**Proponent:** City of Kalgoorlie-Boulder

Licence: L5979/1993/11

Registered office: 577 Hannan Street

KALGOORLIE WA 6430

Premises address: Yarri Road Refuse Facility

Lot 251 on Plan 190202 KALGOORLIE WA 6430

**Issue date:** Thursday, 7 April 2016

Commencement date: Thursday, 14 April 2016

**Expiry date:** Sunday, 13 April 2036

### **Decision**

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

Decision Document prepared by: Jim Cupitt

Licensing Officer

Abnesh Chetty Licensing Officer

Decision Document authorised by: Steve Checker

**Delegated Officer** 

Environmental Protection Act 1986 Decision Document: L5979/1993/11 File Number: 2012/006907



## **Contents**

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2	Administrative summary	3
3	Executive summary of proposal and assessment	4
4	Decision table	5
5	Advertisement and consultation table	12
6	Risk Assessment	13

## 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 App New Licence Licence am Works App	ce nendmen		□ ⊠ □ ent □
Activities that cause the premises to become	Category r	number(:	s)	Assessed design capacity
prescribed premises	57			2,500 tyres at any time
	62			10,000 tonnes per year
	64			150,000 tonnes per year
Application verified	Date: 02/02	2/2016		
Application fee paid	Date: 26/02	2/2016		
Works Approval has been complied with	Yes□	No	N/A	A⊠
Compliance Certificate received	Yes□	No□	N/A	$\square$
Commercial-in-confidence claim	Yes	No⊠		
Commercial-in-confidence claim outcome	N/A			
Is the proposal a Major Resource Project?	Yes□	No⊠		
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the Environmental Protection Act 1986?	Yes□	No⊠	Man	rral decision No: aged under Part V
Is the proposal subject to Ministerial Conditions?	Yes□	No⊠		sterial statement 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 Departmen	No⊠ nt of Wate	er cons	sulted Yes ☐ No ⊠
Is the Premises within an Environmental Protection If Yes include details of which EPP(s) here.	Policy (EPP	P) Area	Yes□	No⊠
Is the Premises subject to any EPP requirements? If Yes, include details here, eg Site is subject to SC		No⊠ nts of Kw	rinana	EPP.

Environmental Protection Act 1986 Decision Document: L5979/1993/11 File Number: 2012/006907



## 3 Executive summary of proposal and assessment

The Yarri Road Refuse Facility is a Class II Putrescible landfill, accepting up to 150,000 tonnes of waste per annum, including mixed municipal solid, commercial, industrial and construction waste. The site was opened in May 1993 and operation of the facility was handed to Grosvenor Lodge AFC via contract on 1 July 1999.

The site is located 7 kilometres north-east of Kalgoorlie-Boulder, with the closest neighbours being the Goldfields Aeromodellers Club Inc. approximately 200 metres south-west, and some rural properties at 900 metres south-east. The closest residential premises are located at Ninga Mia, being approximately 2.5 kilometres to the south-west. The site occupies approximately 64 hectares.

The landfill is clay lined.

During the 2016 reporting period the water table depth varied between 19.69 and 26.12 metres below ground level.

The following activities are carried out at the landfill:

- Receipt and disposal of household and commercial waste
- Receipt and disposal of Special Waste Type 1
- Receipt and disposal of Special waste type 2
- Receipt and disposal of Inert Waste Type 1
- Receipt and disposal of Inert Waste Type 2
- · Receipt of unprocessed greenwaste
- · Mulching of received greenwaste
- Stockpiling of scrap metal car bodies
- Stockpiling of tyres
- Stockpiling of daily cover material
- Stockpiling of white wares

The Licensee also has an agreement with Techcollect<sup>TM</sup>, entered under the National Television and Computer Recycling Scheme (NTCRS), that enables households and businesses to drop off their end-of-life electronic goods free-of-charge. All goods accepted under this agreement are stored in a 40 foot container at the entrance to the landfill (post-weighbridge) that will be removed by Techcollect<sup>TM</sup> when the container is full.

The main emissions generated from the premises are odour, dust and landfill gas. It is anticipated that these emissions can be adequately managed under the provisions of the *Environmental Protection Act 1986* and mitigation measures put in place by the Licensee.

This Licence is the successor to licence L6297/1993/10 and includes changes to conditions in accordance with DER's latest licensing template and licensing processes.

Environmental Protection Act 1986 Decision Document: L5979/1993/11 File Number: 2012/006907



## 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.

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	Emission Description Emission: Stormwater contaminated from onsite operations. Impact: Contamination of surrounding land and surface water drainage systems. Controls: Stormwater drains have been constructed to capture stormwater that falls onto the roadways and the site in general.  Risk Assessment Consequence: Minor Likelihood: Possible Risk Rating: Moderate  Regulatory Controls Previous Licence conditions W1-W3 which required the management of uncontaminated and contaminated stormwater has been converted to Condition 1.2.1 requiring the Licensee to maintain a surface water management system that prevents stormwater run-off from becoming contaminated by waste on the Premises.  Residual Risk Consequence: Minor Likelihood: Unlikely Risk Rating: Moderate	Application supporting documentation



DECISION TAE	BLE		
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	1.3.1 - 1.1.13	Licence condition 1.3.1 has been added to the Licence which requires the investigation of any waste acceptance, processing or cover limit exceedances.	Application supporting documentation
		Licence condition 1.3.2 which replaces previous Licence condition G2A outlines the waste types and maximum amount for acceptance at the site.	
		Licence condition 1.3.3 has been added to the Licence to ensure that where waste does not meet the acceptance criteria it is stored in an appropriate area of the premises and removed to an authorised facility to reduce the potential for a discharge or an emission to the environment.	
		Licence condition 1.3.4 which replaces previous Licence conditions G3 has been added to the Licence to ensure that all wastes at the premises is subjected to certain processes.	
		Licence condition 1.3.5 has been added to the Licence which requires the Licensee to manage all landfilling activities.	
		Licence condition 1.3.6 has been added to the Licence which requires the Licensee to apply and maintain sufficient cover for landfill wastes.	
		Licence condition 1.3.7 has been added to the Licence to ensure there is adequate security measures in place to prevent authorised access at the site which in turn will be reduce the potential for public health risks and the potential for unauthorised discharges from the site. This condition was based on previous Licence conditions G4(a), G4(b) and G4(c)	
		Licence condition 1.3.8 and 1.3.9 which replaces previous Licence conditions G5(a)-G5(c) requires the Licensee to take all reasonable and practical measures to ensure that no wind-blown waste escapes from the Premises and that wind-blown waste is	



DECISION TAE	BLE		
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		collected on at least a monthly basis and returned to the tipping area.	
		Licence condition 1.3.10 which replaces previous Licence condition G6 requires the Licensee to install and maintain a sign at the entrance of the Premises which clearly displays the hours of operation, contact telephone number, warning indicating penalties for people lighting fires and list of materials accepted for recycling and the location of where they can be deposited on the premises.	
		Licence condition 1.3.11 has been added to the Licence to ensure the Licensee implements control measures to prevent infestations of pests, flies and vermin at the Premises.	
		Licence condition 1.3.12 which replaces previous Licence condition A4 requires the Licensee to extinguish any unauthorised fire that may occur within the non-greenwaste area at the landfill site within eight hours of being notified of the fire.	
		Licence condition 1.3.13 which replaces previous Licence condition A5 requires the Licensee to ensure that there are appropriate procedures in place at the Premises so that any unauthorised fire is promptly extinguished.	
		Licence condition 1.3.14 which replaces previous Licence condition A2 prevents the burning of non-green waste on the premises.	
		Previous Licence condition G15 and G16 requires the Licensee to make available to any person, tyres for recycling, reuse for any other purpose approved of by the CEO (which are surplus to the Licensees own requirements), prior to disposal. This condition is no longer consistent with DER Licensing processes and was removed.	
		While there are no air or water emissions expected during normal operations for category 57 activities, however in the event of fire, significant amounts of wastewater (fire water) and smoke would be generated. Licence conditions 1.3.15 and 1.3.16 were	



Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		added to manage any fire water generated.	
		Emission Description Emission: Smoke emission in the event of fire. Impact: Potential impact on surrounding flora and fauna and nearby sensitive receptors from smoke inhalation. Potential irritation to eyes from smoke and other pollutants released when the tyres are burnt. Controls: The License renewal application did not contain any information on controls relating to tyre fire.	
		Risk Assessment Consequence: Minor Likelihood: Possible Risk Rating: Moderate  Regulatory Controls	
		Tables 1.3.2 and 1.3.3 specify how tyres must be stored or buried to reduce both risk of fire beginning, and to assist in efficiently extinguishing a fire.  Licence condition 1.3.7 which replaces previous Licence conditions G4 (a) – G4 (c) requires a security fence to be maintained around the premises and regular inspections undertaken to ensure no unauthorised access to prevent unauthorised fires or vandalism of firefighting controls.	
		Residual Risk Consequence: Minor Likelihood: Unlikely Risk Rating: Moderate	



DECISION TAE	BLE		
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		Emission Description	
		Emission: Fire wastewater generated in the event of fire.	
		<i>Impact:</i> Contamination of surrounding land. Potential impacts on surrounding flora and	
		fauna.  Controls: The License renewal application does not specify any wastewater controls	
		relating to tyre fire.	
		Risk Assessment	
		Consequence: Moderate	
		Likelihood: Possible	
		Risk Rating: Moderate	
		Regulatory Controls Condition 1.3.15 has been added to the Licence to prevent the accumulation of any stormwater within the tyre storage catchment area.	
		Condition 1.3.16 has been added to the Licence to ensure that firewater is removed from the Premises by a carrier Licensed under the <i>Environmental Protection</i> (Controlled Waste) Regulations 2004.	
		Residual Risk	
		Consequence: Moderate	
		Likelihood: Unlikely	
		Risk Rating: Moderate	
		Previous Licence condition G2 (C) (i) specified that any asbestos material must be	
		wrapped in heavy duty plastic prior to acceptance at the landfill. However in order to	
		avoid any duplication relating to the transportation of asbestos containing materials (since legislative requirements are now stipulated under Regulation 44 of the	
		Environmental Protection (Controlled Waste) Regulations 2004). This requirement has	



DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents	
		been removed from the Licence.		
		Previous Licence conditions relating to Liquid chemical storage and Bioremediation of hydrocarbon contaminated soils are redundant now and will not be transferred to the new Licence.		
Dust	N/A	Fugitive emissions of dust can be sufficiently regulated under section 49 of the Environmental Protection Act 1986. In accordance with DER's licensing process, no specified conditions for fugitive emissions have been included on this licence.	Environmental Protection Act 1986.S49	
Odour	N/A	Odour can be sufficiently regulated under section 49 of the <i>Environmental Protection</i> Act 1986. In accordance with DER's licensing process, no specified conditions for fugitive emissions have been included on this licence.	Environmental Protection Act 1986.S49	
Noise	N/A	Noise is not expected to be an issue at the premises. Premises is situated in an industrial area. The provisions of the Environmental <i>Protection (Noise) Regulations</i> 1997 will apply.	Environmental Protection Act 1986.S49	
Monitoring	L2.2.1	Licence condition 2.2.1 has been added to the Licence which requires the Licensee to record waste types coming into the Facility and waste types leaving or rejected from the Facility.	N/A	
	L2.3.1	Previous Licence condition W6 (a) relating to groundwater monitoring has been converted to condition 2.3.1.		
Improvements	N/A	Consistent with DER's licensing protocol, this section was deleted because it did not contain any conditions.	N/A	
Information	L3.1.1 – L3.1.5 L3.2.1 – L3.2.2	Licence condition 3.1.1 has been added to the Licence to ensure all records required by the Licence are retained and be made available.	N/A	
		Licence condition 3.1.2 has been added to the Licence, which replaces condition G11 of the previous Licence, requires the submission of the Annual Audit Compliance Report which is to outline the extent to which the conditions of the Licence has been complied with during the annual period.		



DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents	
		Licence condition 3.1.3 has been added to the Licence which requires the licensee to manage and maintain a complaints registry.		
		Licence condition 3.1.4 has been added to the Licence to ensure the Licensee maintain records of all waste types received and dispatched onsite. These records will be required to be submitted to DER upon the CEO's request.		
		Licence condition 3.1.5 has been added to the Licence to ensure that records are made of rejected loads including details of the waste producer, waste carrier, registration number of the vehicle and the date and reason for rejection.		
		Licence condition 3.2.1 has been added to the Licence which replaces previous Licence condition G7 outlines the requirement to submit to DER an annual environmental report.		
		Licence condition 3.2.2 has been added to the Licence to ensure non annual reporting requirements are also submitted to DER.		
Licence Duration	N/A	The licence has been issued for 20 years in accordance with DER's Guidance Statement: Licence Duration, November 2014.	DER Guidance statement: Licence duration.	



## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into
			consideration
7/03/2016	Application advertised in West Australian (or other relevant newspaper)	No comments received	N/A
31/03/2016	Draft sent to proponent	Minor comments/wording suggestions received.	Comments incorporated into documents
		600 mm waste cover is locked in with facility operators under contract.	Relevant cover requirements changed to 600 mm.



## 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