



Licence

Environmental Protection Act 1986, Part V

Licensee: Shire of Coolgardie
Licence: L7970/1997/6

Registered office: Shire of Coolgardie
 Irish Mulga Drive
 Kambalda WA 6442

Premises Address: Kambalda Landfill Facility
 KAMBALDA WA 6442
 Being Ngalbain location 42, Crown Reserve 31717 and
 Ngalbain location 301, Crown Reserve 31717
 as depicted in Schedule 1

Issue date: Thursday, 21 November 2013

Commencement date: Friday, 22 November 2013

Expiry date: Friday, 21 November 2018

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
64	Class II putrescible 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.	20 tonnes or more per year	Not more than 9 000 tonnes per annual period Approval is given for the additional disposal of no more than 30,000 tonnes of asbestos-contaminated soil between the period 21 September 2015 – 21 March 2016

Conditions of licence

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

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 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 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.

Other Guidelines which you should be aware of include:

- *Western Australian Guidelines for Biosolids Management*, Department of Environment and Conservation, December 2012 (as amended from time to time).

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 Kambalda Refuse Facility is a Class II putrescible landfill with an approved premises production or design capacity of 9 000 tonnes per year. The facility accepts mixed municipal green, solid, commercial, industrial and construction waste. The landfill was unmanned until around 1997.

The site is located between East and West Kambalda on the fringe of a salt pan and is approximately 2km to the nearest residential accommodation, known as the Mac Kambalda Village.

The site occupies approximately 32.2 hectares. The landfill is clay lined with a water table depth between 19 and 28 meters. The main emissions generated from the premises are dust and odour. 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.

The Licence amendment relates to an application to increase the site's licensed capacity to accommodate a one-off disposal of approximately 24,000 tonnes of asbestos-contaminated soil. The Kambalda Landfill Facility is located on two land parcels with a total combined area of 557,330 m². Landfilling to date covers approximately 375,000 square metres (m²) leaving approximately 182,330 m² of unused land. This equates to approximately 1,114,660 cubic metres (m³) of landfill space available for future use. This calculation is based on 375,000 m² or 750,000 m³ as very little landfill is above natural ground level and there is a further 364,660 m³ of unused land space available. Available space indicates that the landfill has the capacity to accept 50,000 tonnes (33,333 m³) per year over approximately 33 years.

This amendment also involves removal of former condition 1(c) (i) (concerning the wrapping of asbestos wastes) which is now regulated under regulation 44 of the *Environmental Protection (Controlled Waste) Regulations 2004*.

As a result of this amendment this Licence has been converted into the latest DER template format. DER has not re-assessed the acceptability or impacts of emissions and discharges from the Premises or revisited any existing emission control levels with the exception of condition 1.3.5 relating to disposal of asbestos in the Premises operation section. The Licence duration will not be extended as a result of this amendment. The licence and work approvals issued for the premises are

Instrument Log

Instrument	Issued	Description
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L7970/1997/1	06/09/2004	Licence re-issue.
L7970/1997/2	21/11/2005	Licence re-issue.
L7970/1997/2	26/07/2006	Licence amendment – in dealing with biomedical and asbestos waste.
L7970/1997/3	22/11/2007	Licence re-issue – short term licence.
L7970/1997/4	2/01/2008	Licence re-issue.
L7970/1997/5	19/11/2010	Licence re-issue.
L7970/1997/6	15/11/2013	Licence re-issue
L7970/1997/6	TBA	Licence amended and converted into the latest DER format and to remove condition 1 (C) (i) and to increase the production design capacity information.

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 In the licence, unless the contrary intention appears:

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

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

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

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

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

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

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

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

'Cover material' means subsoil or other approved inert waste used for covering of waste;

'DER Asbestos Guidelines' means the document titled 'Guidelines for managing asbestos at construction and demolition waste recycling facilities' published by the Department of Environment Conservation (December 2012);

'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 50 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 50 metres;
- (c) 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;

'environmentally hazardous material' means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous



materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum;

'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;

'fugitive emissions' means all emissions not arising from point sources;

'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;

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

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

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

'leachate' means liquid released by or water that has percolated through waste and which contains some of its constituents;

'Licence' means this licence numbered L7970/1997/6 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;

'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;

'quarterly' means the four 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;

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

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

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

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

'surface water body' means a water course or wetland (as those terms are defined in the *Right in Water and Irrigation Act 1914*) and any other surface water, whether artificial or natural;

'SWL' means standing water level; and



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

- 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 guidelines or code of practice made during the term of this Licence.

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;
 - (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
 - (d) 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	Quantity limit tonnes/ year	Specification¹
Clean fill	Combined total of 9,000 tonnes per year	None specified
Inert Waste Type 1		None specified
Inert Waste Type 2		None specified
Putrescible waste (including green waste)		None specified
Special Waste Type 2 (biomedical waste)		None specified
Waste oil		None specified
Vehicle batteries		None specified
Scrap metal		None specified
Other recyclables		None specified
Drum muster products		Must be triple rinsed prior to being accepted at the site
Special Waste Type 1 (asbestos waste)	Approval is given for the disposal of no more than	None specified



	30,000 tonnes of asbestos-contaminated soil between the period 21 September 2015 – 21 March 2016. No other quantity limit specified	
Used tyres	Less than 100 car tyre equivalents at any one time	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 segregated 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	Process limits
All	Receipt, handling and associated storage prior to the disposal of waste by landfilling	<ul style="list-style-type: none"> No waste shall be temporarily stored or landfilled within 10 metres from the boundary of the premises. The tipping area shall not exceed a maximum linear length of 75 metres. The separation distance between the base of the landfill and the highest groundwater level shall not be less than 3 metres. A minimum distance of at least 100 metres between the waste disposal site and any superficial water body shall be maintained.
Clean fill	Receipt, handling and associated storage prior to the disposal of waste by landfilling	None specified
Inert Waste Type 1		None specified
Inert Waste Type 2		None specified
Putrescible waste (including greenwaste)	Receipt, handling and associated storage prior to the disposal of waste by landfilling	Place waste within a defined trench or within an area enclosed by earthen or other bunds
	Disposal by Burning	<u>Burning of Green Waste Only</u> <ul style="list-style-type: none"> to be dried and seasoned for at least 2 months before burning; to take place in a designated burning area at least 25m from the boundary of any active disposal areas;



		<ul style="list-style-type: none"> 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; and ensure burning does not commence before 0800 hours and the Fire Control Officer for the premises declares the area safe by 1700 hours on the same day;
Special Waste Type 1 (asbestos waste)	Receipt, handling and associated storage prior to the disposal of waste by landfilling	<ul style="list-style-type: none"> Not to 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.
Special Waste Type 2 (biomedical waste)		<ul style="list-style-type: none"> Not to be deposited within 2m of the final tipping surface of the landfill; immediately unload and cover the waste to a minimum depth of one metre of soil or solid waste; and No works shall be carried out on the landfill that could lead to biomedical wastes being excavated or uncovered.
Waste oil		Stored in oil receptacle within a concrete bunded area.
Vehicle batteries		Stored in concrete bunded area near waste oil.
Scrap metal		Stored in an area delineated by heaped gravel windrows.
Other recyclables		Stored in compound specifically for Drum Muster products.
Drum muster products		
Contaminated soils suitable for bioremediation	Bioremediation	<p>The licensee shall only dispose of hydrocarbon contaminated soils at the onsite bioremediation facility in such a manner that ensures bioremediation of the material is maximised through:</p> <ul style="list-style-type: none"> maintaining soil thickness at a depth of no more than 20 centimetres (cm); carrying out monthly soil aeration; and an appropriate moisture content and nutrient level is maintained within the soil which sustains biological activity.
Used tyres	Receipt, handling, storage prior to re-use or disposal by landfilling	When tyres only are 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

1.3.4 The Licensee shall ensure that waste is only disposed of in landfill cells or phases provided with the infrastructure detailed in Table 1.3.3 for that Class of landfill cell or phase:

Table 1.3.3: Landfill infrastructure

Cell or Phase	Class of Cell	Infrastructure requirements
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Number(s)	or Phase	
1 & 3	Class II (Putrescible)	<ul style="list-style-type: none"> Clay Lined to achieve a permeability of at least $<1 \times 10^{-9}$ m/s or equivalent

- 1.3.5 The licensee shall, where the licensee is notified or is aware, ensure the following procedures are in place for managing asbestos wastes (Type 1 special waste) at the premises:
- the disposal area(s) for any more than one cubic metre of asbestos material is defined by grid references on the site plan; and
 - a representative of the licensee is available to witness the burial of the asbestos waste under at least one metre of fill or putrescible waste as soon as practicable after placement in the landfill and sign a bound, numbered register within two hours of the burial to attest that it has been buried in accordance with these procedures.
- 1.3.6 The licensee shall take the following measures when managing biomedical wastes (Type 2 special waste) at the premises:
- the licensee, or its representative, shall note, in writing, any discrepancies between waste declared and waste received; and
 - restrict access to the area where the waste is buried to authorised personnel only.
- 1.3.7 The Licensee shall manage the landfilling activities to ensure:
- the size of the tipping face is kept to a minimum and not larger than 2m in vertical height;
 - waste is levelled and compacted to ensure all faces are stable and capable of retaining rehabilitation material
 - waste is covered as soon as possible after it is discharged and not later than by the end of the working day; and
 - rehabilitation of a cell or phase takes place within 6 months after disposal in that cell or phase has been completed.
- 1.3.8 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 ¹

Waste Type	Cover requirements
Inert Waste Type 1	No cover required
Inert Waste Type 2	To be covered by the end of the working day in which the waste was deposited with sufficient quantities of Type 1 inert waste, clean fill or other appropriate cover material to prevent the spread of fire and harbouring of disease vectors.
Putrescible wastes	
Special Waste Type 1	To be covered as soon as practicable after deposit and before being compacted to prevent the release of asbestos fibres as a result of compaction and other landfilling activities.
Used Tyres	A minimum depth of 100mm of soil cover is maintained over the buried tyres following disposal

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

- 1.3.9 The licensee shall implement control measures to prevent infestations of pests, flies and vermin at the premises.
- 1.3.10 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.



- 1.3.11 The licensee shall implement the following security measures at the site:
- ensure the premises is manned at all times whilst open to public;
 - maintain suitable fencing to prevent unauthorised access to the site;
 - 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 any damage to the fencing or gate(s) as soon as practicable.
- 1.3.12 The licensee shall not burn or allow the burning of non-greenwaste on the premises.
- 1.3.13 The licensee shall extinguish any unauthorised fire that may occur within the non-green waste area at the landfill site within eight hours of being notified of the fire.
- 1.3.14 The licensee shall ensure that there are appropriate procedures in place at the premises so that any unauthorised fire is promptly extinguished.
- 1.3.15 The licensee shall ensure the bioremediation facility is suitably bunded in such a manner that uncontaminated stormwater is diverted away from the facility.
- 1.3.16 The licensee shall retain any contaminated stormwater within the bioremediation facility in such a manner that it can be reticulated back over the bioremediation area.
- 1.3.17 The licensee shall install and maintain a sign at the entrance to the premises which clearly displays the following:
- hours of operation (if applicable);
 - contact telephone number for information and complaints or notification of fires;
 - where applicable, a list of materials acceptable for recycling and the location of where they can be deposited on the premises;
 - the types of waste that must not be deposited on the premises and a contact telephone number for alternative disposal options; and
 - a warning, indicating penalties for people lighting fires.

2 Monitoring

2.1 General monitoring

- 2.1.1 The licensee shall ensure that:
- all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
 - all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured unless indicated otherwise in relevant table.
- 2.1.2 The licensee shall ensure that quarterly monitoring is undertaken at least 45 days apart.
- 2.1.3 The licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this licence is calibrated in accordance with the manufacturer's specifications.
- 2.1.4 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 specified in Table 2.2.1.



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, special waste 2, clean fill, putrescible waste, waste that complies with Class II criteria in the document titled "Landfill Waste Classification and Waste Definitions" 1996.	tonnes (where a weighbridge is present on the site)	N/A	Each load arriving at the premises
Waste outputs	Waste type as defined in the Landfill Waste Classification and Waste Definitions 1996	m ³ (where no weighbridge is present)		Each load leaving or rejected from the premises

2.3 Ambient environmental quality monitoring

2.3.1 The licensee shall undertake the groundwater 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	Parameter	Units	Averaging period	Frequency
Monitoring bores: KBF1 KBF1A KBF2 KBF4S KBF4D and KBF7 As depicted in schedule 1	Standing water level(SWL) ¹	m(AHD)	Spot sample	Quarterly
	pH ²	-		
	Electrical conductivity	µS/cm		
	Ammonia- nitrogen	mg/L		
	Total Nitrogen	mg/L		
	Total Phosphorus	mg/L		
	Chloride	mg/L		
	Total soluble solids	mg/L		
	Lead	mg/L		
	Manganese	mg/L		
	Copper	mg/L		
	Chromium	mg/L		
	Nickel	mg/L		
	Zinc	mg/L		
Cadmium	mg/L			

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

Note 2: pH to be determined during field analysis.

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 six 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 or any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect condition of the land or waters.

3.1.2 The licensee shall ensure that:

- (a) any person left in charge of the premises is aware of the conditions of the licence and has access at all times to the licence or copies thereof; and
- (b) any person who performs tasks on the premises is informed of all of the conditions of the licence that relate to the tasks which that person is performing.

3.1.3 The licensee shall 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 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.

3.1.5 The Licensee shall maintain a register of Special Waste Type 1 (Asbestos waste) and Special Waste Type 2 (Biomedical and clinical waste) disposed of at the Premises which shall include a plan showing the position of Special Waste Type 1 (Asbestos waste) and Special Waste Type 2 (Biomedical and clinical waste) disposed of at the Premises.

3.2 Reporting

3.2.1 The licensee shall submit to the CEO an Annual Environmental Report within 28 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 or any environmental incidents that have occurred during the annual period and any action taken	None specified
-	The number and severity of any fires on site	
-	The measures taken to suppress dust	
-	The measures taken to control windblown waste	
2.2.1	The volume of waste received at the site during the reporting period	Tabular
2.3.1	Ambient groundwater quality monitoring	None specified
3.1.4	Compliance	AACR
3.1.3	Complaints summary	None specified

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



- (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.

Table 3.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form²
1.3.13	Unauthorised fire	Within fourteen (14) days of an unauthorised fire as per condition 1.3.13 of this licence	None specified

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

Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

The premises is shown in the map below. The red line depicts the premises boundary.



LEGEND

- Lake Lerroy a/c/a near 2011
- Mosala
- Lake Lefroy 50cm
- Orthomosaik - Limgate 2005

Scale 1:8005
 (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: AdreshC
 Prepared for:
 Date: 05/02/15 11:08:48 AM

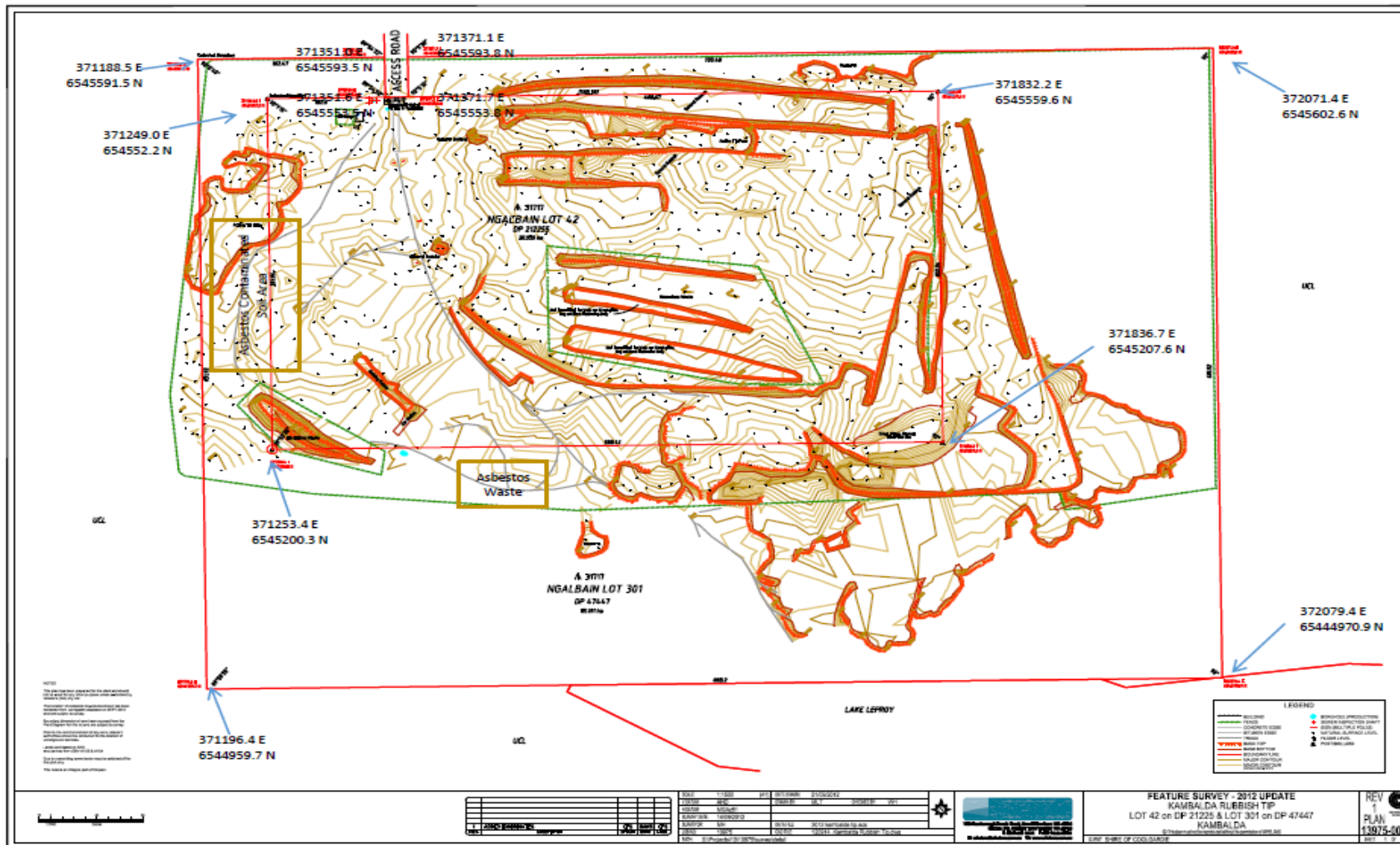
Information derived from this map should be confirmed with the data custodian acknowledged by the Agency acronym in the legend.

 Government of Western Australia
 Department of Environment Regulation
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* Project Data: This data has not been quality assured. Please contact map author for details.



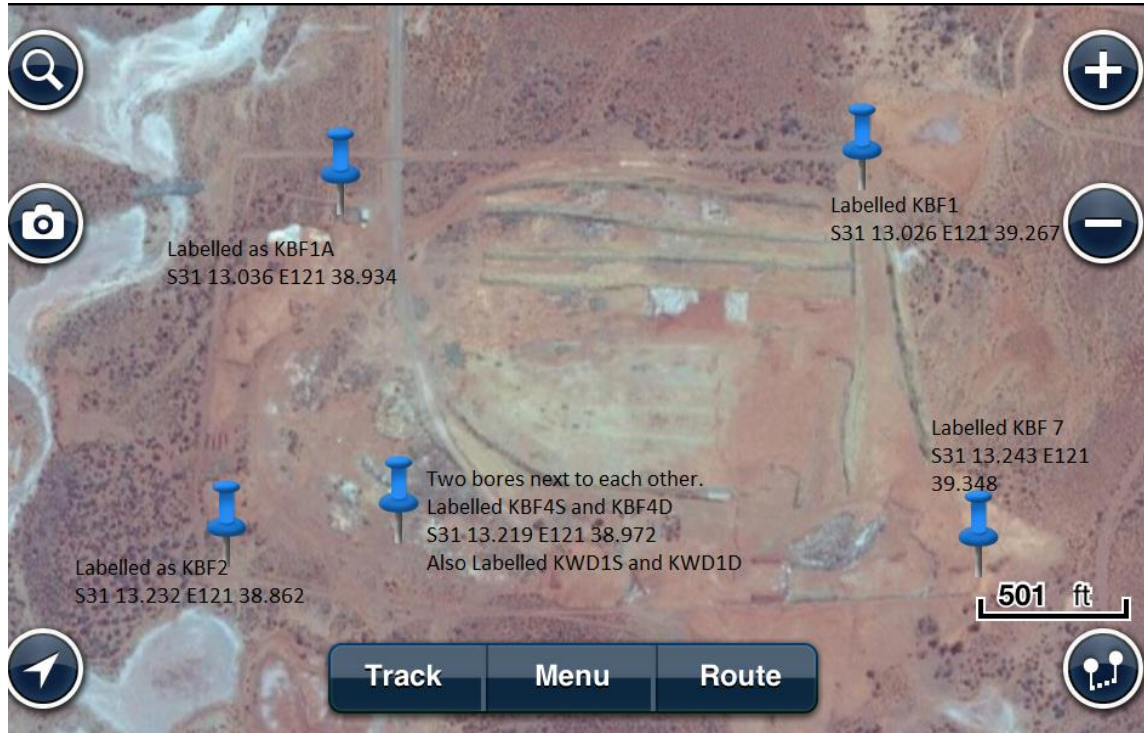
Site plan





Map of monitoring bores

The locations of the monitoring points defined in Tables 3.8.1 are shown below.





Schedule 2: Reporting & notification forms

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

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A LICENCE DETAILS

Licence Number: L7970/1997/6	Licence File Number:
Company Name: Shire of Coolgardie Trading as: Kambalda Refuse Facility	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) and time(s) the non-compliance occurred, if applicable?	
c) Was this non-compliance reported to DER?	
<input type="checkbox"/> Yes, and <input type="checkbox"/> Reported to DER verbally Date <input type="checkbox"/> Reported to DER in writing Date	<input type="checkbox"/> No
d) Has DER taken, or finalised any action in relation to the non-compliance?	
e) Summary of particulars of 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	

Please use a separate page for each licence condition that was not complied with. Each page must be initialled by the person(s) who signs Section C of this AACR.

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This AACR may only be signed by a person(s) with legal authority to sign it as defined below. Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

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

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

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

Signature:

Name: (printed)

Position:

Date: _____ / _____ / _____

Seal (if signing under seal)

Signature:

Name: (printed)

Position:

Date: _____ / _____ / _____



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Shire of Coolgardie

Licence: L7970/1997/6

Registered office: Shire of Coolgardie
Irish Mulga Drive
Kambalda WA 6442

Premises address: Kambalda Landfill Facility
KAMBALDA WA 6442
Being Ngalbain location 42, Crown Reserve 31717 and
Ngalbain location 301, Crown Reserve 31717

Issue date: Thursday, 21 November 2013

Commencement date: Friday, 22 November 2013

Expiry date: Friday, 21 November 2018

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: Abnesh Chetty
Licensing Officer

Decision Document authorised by: Steve Checker
Delegated Officer



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1 Purpose of this Document

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



2 Administrative summary

Administrative details					
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>				
Activities that cause the premises to become prescribed premises	<table border="1"> <thead> <tr> <th>Category number(s)</th> <th>Assessed design capacity</th> </tr> </thead> <tbody> <tr> <td>64 – Class II putrescible landfill site</td> <td>Not more than 9,000 tonnes per year</td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	64 – Class II putrescible landfill site	Not more than 9,000 tonnes per year
	Category number(s)	Assessed design capacity			
64 – Class II putrescible landfill site	Not more than 9,000 tonnes per year				
Application verified	Date: N/A				
Application fee paid	Date: N/A				
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>				
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>				
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Commercial-in-confidence claim outcome	N/A				
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> ?	<table border="1"> <tr> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td> Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/> </td> </tr> </table>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>				
Is the proposal subject to Ministerial Conditions?	<table border="1"> <tr> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td> Ministerial statement No: EPA Report No: </td> </tr> </table>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:				
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.				
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.				



3 Executive summary of proposal and assessment

The Kambalda Refuse Facility is a Class II putrescible landfill with an approved premises production or design capacity of 9 000 tonnes per year. The facility accepts mixed municipal green, solid, commercial, industrial and construction waste. The landfill was unmanned until around 1997.

The site is located between East and West Kambalda on the fringe of a salt pan and is approximately 2km to the nearest residential accommodation, known as the Mac Kambalda Village.

The site occupies approximately 32.2 hectares. The landfill is clay lined with a water table depth between 19 and 28 meters. The main emissions generated from the premises are dust and odour. 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.

The Licence amendment relates to an application to increase the site's licensed capacity to accommodate a one-off disposal of approximately 24,000 tonnes of asbestos-contaminated soil. The Kambalda Landfill Facility is located on two land parcels with a total combined area of 557,330 m². Landfilling to date covers approximately 375,000 square metres (m²) leaving approximately 182,330 m² of unused land. This equates to approximately 1,114,660 cubic metres (m³) of landfill space available for future use. This calculation is based on 375,000 m² or 750,000 m³ as very little landfill is above natural ground level and there is a further 364,660 m³ of unused land space available. Available space indicates that the landfill has the capacity to accept 50,000 tonnes (33,333 m³) per year over approximately 33 years.

This amendment also involves removal of former condition 1(c)(i) (concerning the wrapping of asbestos wastes) which is now regulated under regulation 44 of the *Environmental Protection (Controlled Waste) Regulations 2004*.

As a result of this amendment this Licence has been converted into the latest DER template format. DER has not re-assessed the acceptability or impacts of emissions and discharges from the Premises or revisited any existing emission control levels with the exception of condition 1.3.5 relating to disposal of asbestos in the Premises operation section. The Licence duration will not be extended as a result of this amendment.



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
Premises operation	N/A	The Licence amendment relates to an application to increase the site's licensed capacity to accommodate a one-off disposal of approximately 24,000 tonnes of asbestos-contaminated soil. The Kambalda Landfill Facility is located on two land parcels with a total combined area of 557,330 m ² . Landfilling to date covers approximately 375,000 square metres (m ²) leaving approximately 182,330 m ² of unused land. This equates to approximately 1,114,660 cubic metres (m ³) of landfill space available for future use. This calculation is based on 375,000 m ² or 750,000 m ³ as very little landfill is above natural ground level and there is a further 364,660 m ³ of unused land space available. Available space indicates that the landfill has the capacity to accept 50,000 tonnes (33,333 m ³) per year over approximately 33 years.	
Premises operation	L1.3.5	Licence (L7970/1997/6) condition 1 (c) (i) currently requires that any asbestos material is wrapped in heavy duty plastic before entry to the landfill site. 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 <i>Environmental Protection (Controlled Waste) Regulations 2004</i> this condition will be removed from the amended Licence.	Application supporting documentation General provisions of the <i>Environmental Protection Act 1986</i> and



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
			<i>Environmental Protection (Controlled Waste) Regulations 2004</i>
Licence Duration	N/A	The Licence duration has not been assessed or extended as a result of this amendment.	



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
10 September 2015	Proponent sent a copy of draft instrument	No comments received	NA



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