



Mr Peter Haas
Principal Environmental Health Officer/Building Surveyor
Shire of Boddington
39 Bannister Road
BODDINGTON WA 6390

Dear Mr Haas,

ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE

License: L8747/2013/1
Premises: Boddington Refuse Disposal Site

Further to my letter dated 8 May 2014, please find enclosed your amended *Environmental Protection Act 1986* licence. If you have any questions or objections relating to the licence, please do not hesitate to contact the enquiries officer above on (08) 9333 7486 for clarification or discussion of any grievances you have.

If you are concerned about, or object to any aspect of the amendment, you may lodge an appeal with the Minister for the Environment within 21 days from the date on which this licence is received. The Office of the Appeals Convenor can be contacted on 6467 5190 to find out the procedure and fee.

Members of the public may also appeal the amendments. The Appeals Registrar at the Office of the Appeals Convenor can be contacted after the closing date of appeals to check whether any appeals were received.

Yours sincerely

Ruth Dowd
Officer delegated under Section 20
of the *Environmental Protection Act 1986*

22 May 2014

enc: Amended Licence and Decision Document



Licence

Environmental Protection Act 1986, Part V

Licensee: Shire of Boddington

Licence: L8747/2013/1

Registered office: 39 Bannister Road
BODDINGTON WA 6390

Premises address: Boddington Refuse Disposal Site
Lot 71 on Plan 242990 Robins Road
BODDINGTON WA 6390
as depicted in Schedule 1.

Issue date: Thursday 4 July 2013

Commencement date: Monday 8 July 2013

Expiry date: Saturday 7 July 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
61	Liquid waste facility: premises on which liquid waste produced on other premises (other than sewerage waste) is stored, reprocessed, treated or irrigated	100 tonnes or more per year	2,000 tonnes per annual period
64	Class II 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	Approximately 4,200 tonnes per annual period

Conditions of Licence

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

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, take enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

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

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

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

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

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

- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

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

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

Licence Fees

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

Ministerial conditions

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

Premises description and Licence summary

The town of Boddington is approximately 130km south east of Perth and 45km ESE of Dwellingup, near the Albany Highway. The Landfill Facility site is located in a rural area with the nearest residential property (single farmhouse) located 2 km to the north of the site. Average winter rainfall is approximately 640 mm, falling between the months of June to August/September.

The Shire of Boddington (the Shire) constructed a liquid waste pond under Works Approval W5162/2012/1 where the pond was commissioned on 8 March 2013. A new licence was issued to include both a Category 61 Liquid waste facility and a Category 64 Class II landfill which will replace Registration R1622. The liquid waste ponds were assessed at an annual throughput of 2,000 tonnes and disposal currently includes septage and grease trap wastes from the Boddington Wandering areas.

The new pond is lined with 2mm HDPE liner overlaid by a thick geofabric cushion and a compacted 500 mm sacrificial layer of soil to allow desludging. The landfilling operations and the liquid waste ponds are located on an elevated area of the site where drilling in this area to a depth greater than 11 metres did not intercept any groundwater.

Other processes which occur on site include:

- a drumMUSTER station which is contained within a locked compound and drums are removed on a needs-be basis;
- recycling of waste oil occurs within a waste oil tank;
- storage of batteries prior to moving off site where the Shire is planning to place a concrete bund around the battery storage area;
- recycling of white goods/steel which are stored on site prior removal;
- greenwaste is brought to the landfill by residents but there are no facilities or ability to mulch, shred and windrow this waste. As a result, the Shire allows the pile to dry and it is then burnt once or twice per annum;
- there have not been any malicious fires at the landfill for several years, due to security measures which include fencing around the tipping area, a locked gate and signage which denotes opening times and the types of waste that can be accepted;

- asbestos is accepted at the landfill for burial but there is no designated pit. The asbestos must be wrapped in black plastic before it is accepted and it is disposed in the putrescible tipping area and covered;
- no used tyres are buried at the site as the landfill is located in a "Tyre Landfill Exclusion Zone";
- landfilling is carried out by trench method, where stormwater is diverted away from the active tipping face to a depression area near the Tip Hut and allowed to evaporate;
- the liquid waste ponds are on elevated ground, which prevents stormwater impacting on the integrity of the pond embankments; and
- waste brought to the site is not receipted and there is no weigh bridge. Staff estimate amounts based in m³, according to the size of the vehicle.

A licence amendment was sought by the Shire of Boddington in 2014 to include the disposal of a wider range of liquid wastes (as outlined in Table 1.3.1) from the surrounding Shire for disposal into the liquid waste pond.

The licences and works approvals issued for the Premises since 27 April 2004 are:

Instrument log		
Instrument	Issued	Description
R1622/2007/1	27 April 2004	Category 89 Putrescible landfill site cancelled and replaced by L8747/2013/1
L7670/1994/4	Expired 29 April 2005	Category 61 liquid waste facility and Category 64 Class II putrescible landfill site
W5162/2012/1	28 June 2012	Works Approval to allow construction of the liquid waste ponds
L8747/2013/1	4 July 2013	New application
L8747/2013/1	23 June 2014	Licence Amendment to include disposal of industrial liquid wastes into lined liquid waste pond.

Severance

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

END OF INTRODUCTION

Licence conditions

1 General

1.1 Interpretation

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

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

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

'AgVet' means agricultural and veterinary chemicals and residues;

'annual period' means the inclusive period from 18 July until 17 July in the following year;

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

'CEO' for the purpose of correspondence means;

Licensing Manager (Greater Swan Region)
Department of Environment Regulation
Locked Bag 33
CLOISTERS SQUARE WA 6850
Telephone: (08) 9333 7510
Facsimile: (08) 9333 7550
Email: swanindustryreg@der.wa.gov.au;

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

'code of practice for the storage and handling of dangerous goods' means document titled "Storage and handling of dangerous goods: Code of Practice" published by the Department of Mines and Petroleum, as amended from time to time;

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

'dangerous goods' has the meaning defined in the *Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007*;

'drumMUSTER' is a National program for the collection and recycling of empty, cleaned, non returnable farm chemical containers.

'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 the Premises means a person who has such qualifications in fire fighting or fire control and is approved or appointed to that position by the Licensee;

'freeboard' means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point;

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

'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;

'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 L8747/2013/1 and issued under the Act;

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

'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;

'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; and

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

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

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

1.2.2 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.

1.2.3 The Licensee, except where storage is prescribed in section 1.3, shall ensure that environmentally hazardous materials are stored in accordance with the code of practice for the storage and handling of dangerous goods.

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

Stormwater control

1.2.5 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 for burial 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.

Table 1.3.1: Waste acceptance		
Waste	Quantity Limit	Specification¹
Clean Fill	Combined total of up to 4,200 tonnes per annual period	Must meet the acceptance criteria for Class II landfills.
Inert Waste Type 1		
Putrescible waste (including green waste)		
Special Waste Type 1		
Vehicle batteries		
Waste oil		
Scrap metal		
Other recyclables		
drumMUSTER products		
Animal effluent or residues		
Vegetable and food processing waste	Water and fish waste	
	Water and grain residues	
Waste chemical substances arising from research and development or teaching activities where substances are not identified or are new or the effects on human health or the environment are not known	Neutraliser pit water ²	
Sewage	None specified	
Waste from grease traps	None specified	

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

Note 2: Neutraliser pit water to be tested by contractor to determine if suitable for disposal.

1.3.2 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.3.1 of this Licence, it is removed from the Premises by the delivery vehicle

or, where that is not possible, the Licensee shall contact the CEO to agree a course of action in relation to the waste.

1.3.3 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: Waste processing		
Waste type	Process	Process Requirements
Inert Waste Type 1	Receipt, handling and disposal of waste by landfilling	<u>All waste types</u> <ul style="list-style-type: none"> No waste shall be temporarily stored or landfilled within 35 metres from the boundary of the premises. The separation distance between the base of the landfill and the highest groundwater level shall not be less than 3 m. A minimum horizontal distance of at least 100 metres shall be maintained between the tipping area and any surface water body. <u>Special Waste Type 1</u> <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.
Putrescible waste (excluding green waste)		
Special Waste Type 1		
Clean Fill		
Green waste	Receipt, handling and disposal by burning	<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; to take place in trenches or windrows; and to take place only when an adequate supply of water is available to effectively manage the burning process.
Vehicle batteries	To be stored in a concrete bunded area near waste oil	None specified
Waste oil	Stored in oil receptacle	None specified
Scrap metal and other recyclables	No permanent specific designated area. Location will change over time	None specified
DrumMUSTER products	Stored in compound specifically for DrumMUSTER products	Must be triple rinsed prior to being accepted at the site
Tannery wash water	Storage, biological treatment and evaporation	Tankered into the premises and discharged to the liquid waste pond
Animal effluent or residues		
Vegetable and food processing waste		
Waste chemical substances arising from research and development		

or teaching activities		
Sewage		
Waste from grease traps		

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

1.3.4 The Licensee shall manage the landfilling activities to ensure:

- (a) Waste is placed in a defined trench or within an area enclosed by earthen or other bunds;
- (b) Manage the tipping area such that at no time does land filling result in an exposed face exceeding two (2) metres in vertical height;
- (c) waste is levelled and compacted as soon as practicable after it is discharged;
- (d) waste is placed and compacted to ensure all faces are stable and capable of retaining rehabilitation material; and
- (e) rehabilitation of a cell or phase takes place after disposal in that cell or phase has been completed.

1.3.5 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	Cover requirements
Special Waste Type 1 (asbestos)	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.
Putrescible wastes	To be covered by the end of each working week with sufficient quantities of Type 1 inert waste or clean fill to prevent the spread of fire and harbouring of disease vectors.
All wastes	To be covered with a final soil cover of at least 1000mm depth within 3 months of achieving final waste contours.

Fencing and wind-blown wastes

1.3.6 The Licensee shall:

- (a) implement security measures at the site to prevent as far as is practical unauthorised access to the site;
- (b) undertake regular inspections of all security measures and repair damage as soon as practicable; and
- (c) ensure the entrance gates are closed and locked when the site is closed.

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

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

Burning of Waste

1.3.9 The Licensee shall ensure that no non-green waste is burnt on the Premises.

1.3.10 The Licensee shall ensure that there are appropriate procedures in place at the Premises so than any unauthorised fire is promptly extinguished.

- 1.3.11 The Licensee shall notify the CEO if a fire has not been extinguished within two (2) hours.
- 1.3.12 The Licensee shall provide to the CEO a report detailing but not limited to, the following information:
- (a) details of the date, time and location of the fire;
 - (b) the time the fire was declared safe by the Fire Control Officer for the Premises; and
 - (c) the cause, or suspected cause, of the fire.
- 1.3.13 The Licensee shall provide the report referred to in condition 1.3.12 of this licence within fourteen (14) days of the fire.

Signage

- 1.3.14 The Licensee shall maintain a sign at the entrance to the Premises which clearly displays the following information:
- (a) a contact telephone number for information and complaints or notification of fires;
 - (b) a list of materials that are accepted at the Premises;
 - (c) the type of waste that must not be deposited on the Premises and a contact telephone number for alternative disposal options; and
 - (d) a warning, indicting penalties for people lighting fires.

Protection of ground and surface waters

- 1.3.15 The Licensee shall manage all liquid waste ponds such that:
- (a) overtopping of the ponds does not occur; and
 - (b) a freeboard equal to, or greater than, 500mm is maintained;
 - (c) the integrity of the containment infrastructure is maintained; and
 - (d) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments.
- 1.3.16 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.4.

Table 1.3.4: Containment infrastructure

Vessel or compound	Material	Requirements
Liquid waste ponds	Liquid waste	Lined to achieve a permeability of $<10^{-9}$ m/s or equivalent

2. Emissions

2.1 General

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

2.2-2.4 Point source emissions to air, surface water and groundwater

There are no specified conditions relating to point source emissions to air, surface water or groundwater in these sections.

2.5 Emissions to land

There are no specified conditions relating to emissions to land in this section.

2.6 Fugitive emissions

- 2.6.1 The Licensee shall use all reasonable and practical measures to prevent, and where that is not practicable, to minimise dust emissions from the Premises.
- 2.6.2 The Licensee shall ensure that no visible dust generated by the activities of the Premises crosses the boundary of the Premises.

2.7 Odour

- 2.7.1 The Licensee shall ensure that odour emitted from the Premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the Premises.

2.8 Noise

There are no specified conditions relating to noise in this section.

3. Monitoring

3.1 General monitoring

There are no specified conditions relating to monitoring in this section.

3.2-3.4 Monitoring of point source emissions to air, surface water and groundwater

There are no specified conditions relating to monitoring of point source emissions to air, surface water or groundwater in these sections.

3.5 Monitoring of emissions to land

There are no specified conditions relating to monitoring of emissions to land in this section.

3.6 Monitoring of inputs and outputs

- 3.6.1 The Licensee shall undertake the monitoring specified in Table 3.6.1.

Input/ Output	Parameter	Units	Aver- aging period	Frequency
Waste Inputs	Putrescible waste, green waste, Inert Waste Type 1, Clean Fill, batteries, waste oil, scrap metal and DrumMUSTER products, tannery wash water which does not contain chromium, animal effluent and residues, vegetable and food processing waste, waste chemical substances arising from research and development or teaching activities, sewage, waste from grease traps	Estimated in cubic metres	N/A	Each batch arriving at the premises
Waste Outputs	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the Premises

3.7 Process monitoring

There are no specified conditions relating to process monitoring in this section.

3.8-3.9 Ambient environmental quality monitoring and meteorological monitoring

There are no specified conditions relating to ambient environmental quality monitoring or meteorological monitoring in these sections.

4. Improvements

4.1 Improvement programme

There are no specified improvement conditions in this section.

5 Information

5.1 Records

5.1.1 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 5.1.1(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 groundwater.

5.1.2 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.

5.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.

5.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

5.2 Reporting

5.2.1 The Licensee shall submit to the CEO at the Contact Address an Annual Environmental Report within 28 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual environmental report		
Condition or table (if relevant)	Parameter	Format or form ¹
-	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
3.6.1	Summary of waste inputs and outputs	None specified
5.1.3	Compliance	Annual Audit Compliance Report (AACR)
5.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

- 5.2.2 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/or targets; and
 - (b) a list of any original monitoring reports submitted to the Licensee from third parties in the reporting period and make these reports available on request.

5.3 Notification

- 5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable	N1

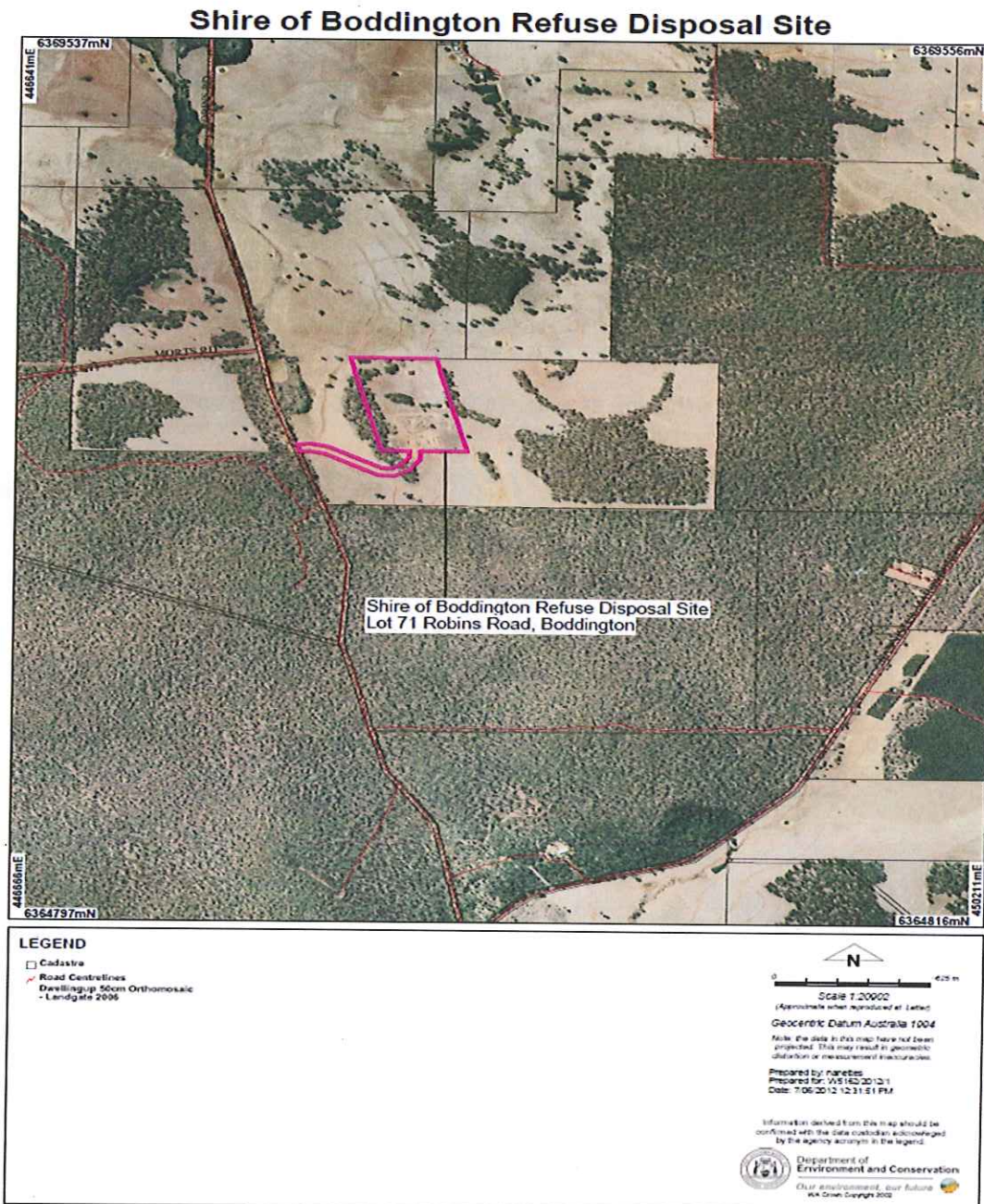
Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2

Schedule 1: Maps

Premises map

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



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.

Copies of the original monitoring reports must also be submitted.

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 WITH LICENCE CONDITIONS

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

Yes Please proceed to Section C

No Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this annual audit compliance report (AACR).

Initial:

SECTION B

DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

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

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

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

Initial:

SECTION C

SIGNATURE AND CERTIFICATION

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

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

If the licence holder is	The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> by the individual licence holder, or <input type="checkbox"/> 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"/> by the principal executive officer of the licensee; or <input type="checkbox"/> 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"/> by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or <input type="checkbox"/> by two directors of the licensee; or <input type="checkbox"/> by a director and a company secretary of the licensee, or <input type="checkbox"/> if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or <input type="checkbox"/> by the principal executive officer of the licensee; or <input type="checkbox"/> 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"/> by the principal executive officer of the licensee; or <input type="checkbox"/> 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"/> by the chief executive officer of the licensee; or <input type="checkbox"/> by affixing the seal of the local government.

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

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

SIGNATURE: _____

SIGNATURE: _____

NAME:
(printed) _____

NAME:
(printed) _____

POSITION: _____

POSITION: _____

DATE: ____/____/____

DATE: ____/____/____

SEAL (if signing under seal)

Licence: **L8747/2013/1**
Form: N1

Licensee: **Shire of Boddington**
Date of breach:

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

These pages outline the information that the operator must provide.

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

Part A

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

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

Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution	
Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident	

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 Shire of Boddington	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Shire of Boddington

Licence: L8747/2013/1

Registered office: 39 Bannister Road
Boddington WA 6390

Premises address: Boddington Refuse Disposal Site
Lot 71 on Plan 242990 Robins Road
BODDINGTON WA 6390

Issue date: Thursday 4 July 2013

Commencement date: Monday 8 July 2013

Expiry date: Saturday 7 July 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 and that the Licence and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by: Nanette Schapel
Licensing Officer

Decision Document authorised by: Cristina Angel
Manager Licensing, Greater Swan Region



Contents

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1 Purpose of this Document

This decision document explains how DER has assessed and determined the application for a works approval or licence, 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.

Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions are justified in Section 4 of this document.

Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



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>Category 61: Liquid waste facility</td> <td>2,000 tonnes per year</td> </tr> <tr> <td>Category 64: Class II putrescible landfill site:</td> <td>4,200 tonnes per annum</td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	Category 61: Liquid waste facility	2,000 tonnes per year	Category 64: Class II putrescible landfill site:	4,200 tonnes per annum
	Category number(s)	Assessed design capacity					
	Category 61: Liquid waste facility	2,000 tonnes per year					
Category 64: Class II putrescible landfill site:	4,200 tonnes per annum						
Application verified	Date: 1 May 2013						
Application fee paid	Date: 21 May 2013						
Works Approval has been complied with	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>						
Compliance Certificate received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input 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>)?	<table border="1"> <tr> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> </tr> </table>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
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

The town of Boddington is approximately 130km south east of Perth and 45km ESE of Dwellingup, near the Albany Highway. The landfill site is located 2km from the nearest farmhouse. Average winter rainfall is approximately 640mm, falling between the months of June to August/September.

The Shire of Boddington (the Shire) completed construction of the first pond in a series of up to four new liquid waste evaporation ponds planned for the Shire's Landfill Facility. Construction was assessed under Works Approval W5162/2012/1. The Shire intends to construct a second pond on the same footprint as the current liquid waste ponds which will need to be de-sludged and de-commissioned.

The liquid waste ponds accept septage and grease trap wastes from the Boddington Wandering areas and currently, no industrial liquid wastes are accepted. The annual solid waste throughput is between 4,200 and 5,000 tonnes per annum and the liquid waste annual throughput was estimated at 2,000 m³ but quantities have decreased considerably since the nearby Newmont Boddington Gold Mine made alternative plans to dispose of their solid and liquid wastes.

The new pond is lined with 2mm HDPE liner to prevent seepage from the base of the pond to the underlying groundwater. The HDPE liner is the primary environmental barrier and is overlaid by a thick geofabric cushion protection layer and a compacted 500mm sacrificial layer of soil to allow desludging. The naturally occurring soil on site has a high clay content and the landfill cells and liquid waste ponds are located on elevated ground where the groundwater is at least 11 metres below natural ground level. The pond is constructed to a depth of 1.0m plus a freeboard of 500mm to allow for an extreme rainfall event (1 in 100 year storm event of 72-hours duration). The design of the pond complies with the Water Quality Protection Note # 26 *Liners for containing Pollutants, using synthetic membranes*, Department of Water – dated February 2009.

Current Licence Amendment;

On 13 January 2014, DER received an application to amend the licence to allow the acceptance of the following:

Liquid Waste	Quantity
Animal liquid waste water ¹	15kL/month
Water and fish waste	5 to 10kL/month
Water and grain residues	1,000kL/annum
Neutraliser pit water ²	30kL/annum

Note¹ The animal liquid waste water is tannery liquid waste which does not contain any chemicals other than salt used for tanning the hides.

Note² The neutraliser pit water includes liquid wastes from neutraliser pits where the Department of Finance (Building Management and Works) has contracted Great Southern Liquid Waste to maintain/dispose of the wastes. The pits are associated with organisations such as local schools. An analysis of the waste will be carried out to determine if suitable for disposal at the Shire's liquid waste pond or, if not compliant, the liquid waste is transported to Perth for disposal at a premises licensed to accept such wastes.

All the waste will be disposed of into the current pond where the liquid fraction is allowed to evaporate. Another lined pond will need to be constructed to allow desludging of the current pond, where the solid fraction will be allowed to dry out *in situ* and the waste disposed to the landfill. Due to the decrease in septage wastes from the nearby Boddington Gold Mine, there is sufficient capacity to receive the above wastes in the current liquid waste pond. The potential for seepage will be managed by using a combination of HDPE, geofabric and clay layers for the ponds, combined with the location of the ponds in an area rich in naturally occurring clay soils.



4 Decision table

All applications are assessed under the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and the risk matrix attached to this Decision Document in Section 6. Where other references have been used in making the decision they are detailed in the decision table.

DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.5, L1.3.1 – L1.3.16	OSC, NSC	<p>Operation</p> <p>L1.2.5 has been included as stormwater has the potential to become contaminated due to contact with the putrescible landfilling area. It is also necessary to divert stormwater from the liquid waste pond area to safeguard the integrity of the pond embankments. Stormwater is to be directed away from areas where it can become contaminated</p> <p>OSC L1.3.1 and Table 1.3.1 defines what wastes can be accepted. Liquid wastes are listed using the waste terms in Schedule 1 of the <i>Environmental Protection (Controlled Waste) Regulations</i>, as the controlled waste tracking categories are no longer to be referred to in Licences.</p> <p>OSC L1.3.2 non conforming wastes to be removed from premises.</p> <p>OSC L1.3.3 and Table 1.3.2 ensures that wastes accepted on the premises are stored/buried/burned appropriately.</p> <p>OSC L1.3.4 requires wastes to be covered and cover material stockpiled on site</p> <p>OSC L1.3.5 and Table 1.3.3 ensures waste is covered appropriately</p> <p>OSC L1.3.6 to L1.3.8 requires security measures to be maintained at the site and the Licensee to control vermin and windblown wastes and to collect any windblown wastes on a weekly basis.</p> <p>NSC L1.3.9 – L1.3.13 requires the Licensee to ensure non-green waste is not burnt on the premises and DER to be notified in the event of any unauthorised fires</p> <p>OSC L1.3.14 requires signage at the entrance to the Premises noting the type of wastes that can be accepted</p>	Application supporting documentation



DECISION TABLE

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
			<p>OSC 1.3.15 has been added to the Licence requiring that the liquid waste pond is managed appropriately to prevent overtopping, leakage and the presence of vegetation or floating debris on the pond surface. 500mm has been included as the required freeboard in line with the pond design.</p> <p>OSC 1.3.16 has been added to the Licence to specify the containment requirement for the liquid waste pond.</p> <p>Conditions L 1.3.15 and 1.3.16 in the previous version of L8747/2013/1 have been moved to Table 1.3.2 for consistency with the REFIRE structure.</p>	
Emissions general	L2.1.1	OSC	<p>Operation OSC 2.1.1 has been included requiring that any exceedance of a numerical or descriptive limit is recorded and investigated. This is included as condition 2.6.2 is considered a descriptive limit.</p>	N/A
Point source emissions to air including monitoring	N/A	N/A	<p>Operation There are no point source emissions to air occurring during the operation of the landfill and liquid waste ponds</p>	N/A
Point source emissions to surface water including monitoring	N/A	N/A	<p>Operation There will be no point source emissions to water during the operation of the landfill and there are no nearby surface water bodies.</p>	N/A
Point source emissions to groundwater including monitoring	N/A	N/A	<p>Operation There will be no point source emissions to groundwater. The Liquid waste ponds are lined hence leachate is not expected to impact on the groundwater which is greater than 11 metres below the surface</p>	N/A



DECISION TABLE

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Emissions to land including monitoring	N/A	N/A	There are no specified conditions for emissions to land and therefore no monitoring is required.	N/A
Fugitive emissions	L2.6.1 and L2.6.2	OSC	Operation Due to the amount of clean fill stockpiles, truck movement on site and the active tipping face, there is the potential for dust emissions. Conditions 2.6.1 and 2.6.2 require the Licensee to take measures to prevent or manage dust emissions and, in the situation that emissions are generated, no visible emissions cross the premises boundary.	Application supporting documentation
Odour	L2.7.1	OSC	Operation Landfills have the potential to emit odour emissions if not managed appropriately. Condition 2.7.1 requires the Licensee to ensure that odour does not unreasonably interfere with any person not on the Premises.	Application supporting documentation
Noise	N/A	N/A	Operation Due to the isolated location of the landfill and distance to nearest noise sensitive premises (2km), landfilling activities are expected to comply with the Environmental Protection (Noise) Regulations 1997	Application supporting documentation
Monitoring general	N/A	N/A	No monitoring is required. Groundwater is greater than 11 metres below the surface where liquid waste ponds and landfilling activities occur	N/A
Monitoring of inputs and outputs	L3.6.1	OSC	Operation The Licensee is required to monitor the amount of wastes buried or temporarily stored at the landfill prior to final disposal or disposed of to the liquid waste pond. OSC L3.6.1 is a requirement to monitor waste outputs for wastes leaving or rejected from the Premises. As there is no electricity at the site, the Shire does not have a weigh bridge and amounts are estimated, in cubic metres, based on the size of the delivery vehicle.	Application supporting documentation



DECISION TABLE

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Process monitoring	N/A	N/A	There are no specific conditions requiring process monitoring	N/A
Ambient quality monitoring	N/A	N/A	There are no specific conditions requiring ambient air monitoring as dust emissions are managed on site, there are no nearby industries and the nearest neighbour is approximately 2 kms distance	N/A
Meteorological monitoring	N/A	N/A	As there are no point source air emissions, the Licensee is not required to undertake meteorological monitoring at the site	N/A
Improvements	N/A	N/A	There are no specific conditions requiring improvements on site as the last inspection, undertaken in May 2012 when the landfill was registered, showed the landfill site to be compliant with the Environmental Protection (Rural) Landfill Regulations 2004	N/A
Information	L5.1.1-5.3.1	SC	Standard conditions relating to records management, a complaints management system, the requirement to submit an annual environmental report and notification requirements have been included in the licence.	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
17/06/2013	Application advertised in West Australian (or other relevant newspaper)	No Comments or submissions received	N/A
12/06/2013	Proponent sent a copy of draft instrument	Comments received by email on 13 June 2013	Comments incorporated into new licence to ensure that conditions accurately reflect on-site operations
14/03/2014	Proponent sent a copy of draft instrument	Response received on 17 March 2014 noting that Draft licence approved by Shire	NA
26/05/2014	Amended licence advertised in West Australian	Waiver received from Licensee on 19 May 2014	Licence amendment finalised



6 Emissions and discharges risk assessment framework

Note: These matrix are taken from the DEC Officer's Guide to Emissions and Discharges Risk Assessment (2006).

Table 3: Measures of Significance of Emissions

Emissions as a percentage of the relevant emission or ambient standard		Worst Case Operating Conditions (95 th Percentile)			
		>100%	50 – 100%	20 – 50%	<20%*
Normal Operating Conditions (50 th Percentile)	>100%	5	N/A	N/A	N/A
	50 – 100%	4	3	N/A	N/A
	20 – 50%	4	3	2	N/A
	<20%*	3	3	2	1

*For reliable technology, this figure could increase to 30%

Table 4: Socio-Political Context of Each Regulated Emission

		Relative proximity of the interested party with regards to the emission				
		Immediately Adjacent	Adjacent	Nearby	Distant	Isolated
Level of Community Interest or Concern*	5	High	High	Medium High	Medium	Low
	4	High	High	Medium High	Medium	Low
	3	Medium High	Medium High	Medium	Low	No
	2	Low	Low	Low	Low	No
	1	No	No	No	No	No

Note: These examples are not exclusive and professional judgement is needed to evaluate each specific case

*This is determined by DER using the *Officer's Guide to Emissions and Discharges Risk Assessment* (2006).

Table 5: Emissions Risk Reduction Matrix

		Significance of Emissions				
		5	4	3	2	1
Socio-Political Context	High	A	A	B	C	D
	Medium High	A	A	B	C	D
	Medium	A	B	B	D	E
	Low	A	B	C	D	E
	No	B	C	D	E	E

PRIORITY MATRIX ACTION DESCRIPTORS

A = Do not allow (fix)

B = licence condition (setting limits + EMPs - short timeframes)(setting targets optional)

C = licence condition (setting targets + EMPs - longer timeframes)

D= EIPs, other management mechanisms/licence conditions (monitoring/reporting)/other regulatory tools

E = No regulation, other management mechanisms