



# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** Shire of Sandstone

**Licence:** L8829/2014/1

**Registered office:** 26 Hack Street  
SANDSTONE WA 6639

**ABN:** 34 049 933 669

**Premises address:** Sandstone Refuse Site – Bioremediation Facility  
Part Lot 302 on Plan 44609 Agnew – Sandstone Road  
within 727760.58E, 6902682.39S; 727758.52E, 6902652.39S; 727879.82E,  
6902644.70S; 727880.25E, 6902698.28S; 727797.00E, 6902696.00S; 727797.07E,  
6902675.14S (MGA50)  
SANDSTONE WA 6639  
As depicted in Schedule 1.

**Issue date:** Thursday, 16 October 2014

**Commencement date:** Monday, 20 October 2014

**Expiry date:** Saturday, 19 October 2019

**Prescribed premises category**  
Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved premises production or design capacity
61A	Solid waste facility – premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land.	1 000 tonnes or more per year	2 700 tonnes per annual period

### Conditions

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

Date signed: 11 February 2016

.....  
Steve Checker  
Manager Licensing (Waste Industries)  
Officer delegated under section 20  
of the *Environmental Protection Act 1986*



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## Introduction

This Introduction is not part of the Licence conditions.

### DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

### Licence requirements

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

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the Licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link: <http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

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

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

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

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

### Licence fees



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

### Ministerial conditions

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

### Premises description and Licence summary

The Sandstone Refuse Site – Bioremediation Facility (facility) is located in the Midwest region of Western Australia and is approximately 660 km north-east of Perth. The facility is located approximately 1.4 km north-east of the town of Sandstone (nearest sensitive premises) and is located on Lot 302 on Plan 44609, Sandstone.

The facility is located at the rear (north) of the refuse site just behind the main waste disposal area. Access to the facility is closed to the public.

The facility consists of a graded and compacted clean soil base which is then overlayed with an impermeable 400 micron thick plastic liner. Clean fill has then been placed over the liner and a 200 mm high earthen bund has been placed around the perimeter of the facility.

The current lined cell is approximately 120 m long by 20 m wide, with a slope graded at 2 percent towards a sump for catchment of run-off. The sump has a generator operated filtration system (MyCelx oily water treatment system) with all treated effluent water being re-used on the stockpile as part of the bioremediation process.

This Licence is the result of an amendment sought by the Licensee to increase the footprint of the bioremediation facility from approximately 2,750 m<sup>2</sup> to approximately 3,378 m<sup>2</sup>, constructed under amended works approval W5625/2014/1. This was achieved by extending the existing cell to the north with the approximate dimension of 90 m x 20 m; it is designed to have a 1% grade to the south of the extended cell and 0.2% fall to the west of the existing cell. These falls will ensure that any runoff from the cell will be directed to the existing sump and the oily water filtration system. The 200 mm high perimeter bunding was also extended to include the expanded area. The Licenced bioremediation treatment capacity of 2,700 tonnes per annum is to remain unchanged.

The main emissions from the facility are volatile organic vapours (odour), fugitive dust and contaminated stormwater.

As a result of this amendment, the Licence has been converted into DER'S new licence template. Administrative changes have also been incorporated in accordance with DER protocol.

The licences and works approvals issued for the Premises since 10/04/2014 are:

Instrument log		
Instrument	Issued	Description
W5625/2014/1	10/04/2014	Works Approval- New application
W5625/2014/1	13/08/2015	Amended Works Approval
L8829/2014/1	16/10/2014	Licence issue- New Application
L8829/2014/1	11/2/2016	Amendment to increase the footprint of the facility

### 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*;

**'annual period'** means the inclusive period from 20 October until 19 October in the following year;

**'AS 4482.2'** means the Australian Standard AS 4482.2-1999 *guide to the sampling and investigation of potentially contaminated soil - volatile substances*;

**'BTEX'** is the abbreviation used for four compounds found in petroleum products. The compounds are benzene, toluene, ethylbenzene, and xylenes;

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

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

**'clean fill'** has the meaning defined in the Landfill Definitions;

**'contaminated soil'** has the meaning defined in the Landfill Definitions;

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

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

**'Licence'** means this Licence numbered L8829/2014/1 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;

**'Schedule 1'** means Schedule 1 of this Licence unless otherwise stated;

**'Schedule 2'** means Schedule 2 of this Licence unless otherwise stated;

**'tilling'** means to mechanically turn-over or plough the soil;

**'TRH'** means Total Recoverable Hydrocarbons;



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

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the current version of the guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

## 1.2 General conditions

1.2.1 The Licensee shall immediately recover, or remove and dispose of spills of any waste (as listed in Table 1.3.1) outside an engineered containment system.

## 1.3 Premises operation

1.3.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit in this section.

1.3.2 The Licensee shall only accept waste on to the Premises if:

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

**Table 1.3.1: Waste acceptance**

Waste type	Waste code	Quantity limit	Specification <sup>1</sup>
Contaminated soil	N120	2 700 tonnes per annual period	Contaminating substance shall only consist of petroleum type hydrocarbons

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*.

1.3.3 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.3.2 it is removed from the Premises by the delivery vehicle or, where that is not possible, the Licensee shall contact the CEO to agree a course of action in relation to the waste.

1.3.4 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
Contaminated soil	Receipt, handling and treatment	<ul style="list-style-type: none"><li>Contaminated soils are only to be unloaded within the bioremediation cell (as shown in Schedule 1)</li><li>Contaminated soil is to be tilled every 14 days</li><li>Wetting of contaminated soil to occur at least every third day</li><li>Contaminated soil windrows are to have a maximum height of 600 mm</li></ul>

1.3.5 The Licensee shall ensure that material is only stored within areas with the relevant infrastructure requirements and at the locations specified in Table 1.3.3 and identified in Schedule 1.



**Table 1.3.3: Containment infrastructure**

Containment point reference	Material	Infrastructure requirements
Bioremediation cell	Contaminated soil	<ul style="list-style-type: none"><li>Lined with material with a permeability of <math>10^{-9}</math> metres per second or less</li><li>Bunded and graded to a capture sump to prevent the discharge of contaminated stormwater or leachate to the environment.</li></ul>

## 2 Monitoring

### 2.1 Monitoring of inputs and outputs

2.1.1 The Licensee shall undertake the monitoring in Table 2.1.1 according to the specifications in that table.

**Table 2.1.1: Monitoring of inputs and outputs**

Input/Output	Parameter	Units	Averaging period	Frequency
Waste Inputs	Contaminated soil	m <sup>3</sup>	N/A	Each load arriving at the Premises
Waste Outputs	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the Premises

### 2.2 Process monitoring

2.2.1 The Licensee shall undertake process monitoring according to the specifications in Table 2.2.1.

Table 2.2.1 Monitoring point reference	Parameter	Units	Frequency	Method
Contaminated soil stockpiles contained within the bioremediation cell	BTEX and TRH	mg/Kg	Every six weeks	AS 4482.2

## 3 Information

### 3.1 Records

3.1.1 All information and records required by the Licence shall:

- be legible;
- if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- except for records listed in 3.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
- for those following records, be retained until the expiry of the Licence and any subsequent licence:
  - off-site environmental effects; or



(ii) matters which affect the condition of the land or waters.

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

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

### 3.2 Reporting

3.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 90 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 form <sup>1</sup>
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
2.1.1	Summary of inputs and outputs	None specified
2.2.1	Process monitoring results	None specified
3.1.2	Compliance	Annual Audit Compliance Report (AACR)
3.1.3	Complaints summary	None specified

Note 1: Forms are in Schedule 2

### 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 requirement <sup>1</sup>	Format or form <sup>2</sup>
1.3.3	Waste that does not meet the waste acceptance criteria set out in conditions 1.3.1	As soon as practicable but no later than 5pm of the next usual working day.	Email or phone
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution		

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.



GPS Point 1: Easting 727760.58 m E, Northing 6902682.39 m S

GPS Point 2: Easting 727758.52 m E, Northing 6902652.39 m S

GPS Point 3: Easting 727879.82 m E, Northing 6902644.70 m S

GPS Point 4: Easting 727880.25 m E, Northing 6902698.28 m S

GPS Point 5: Easting 727797.00 m E, Northing 6902696.00 m S

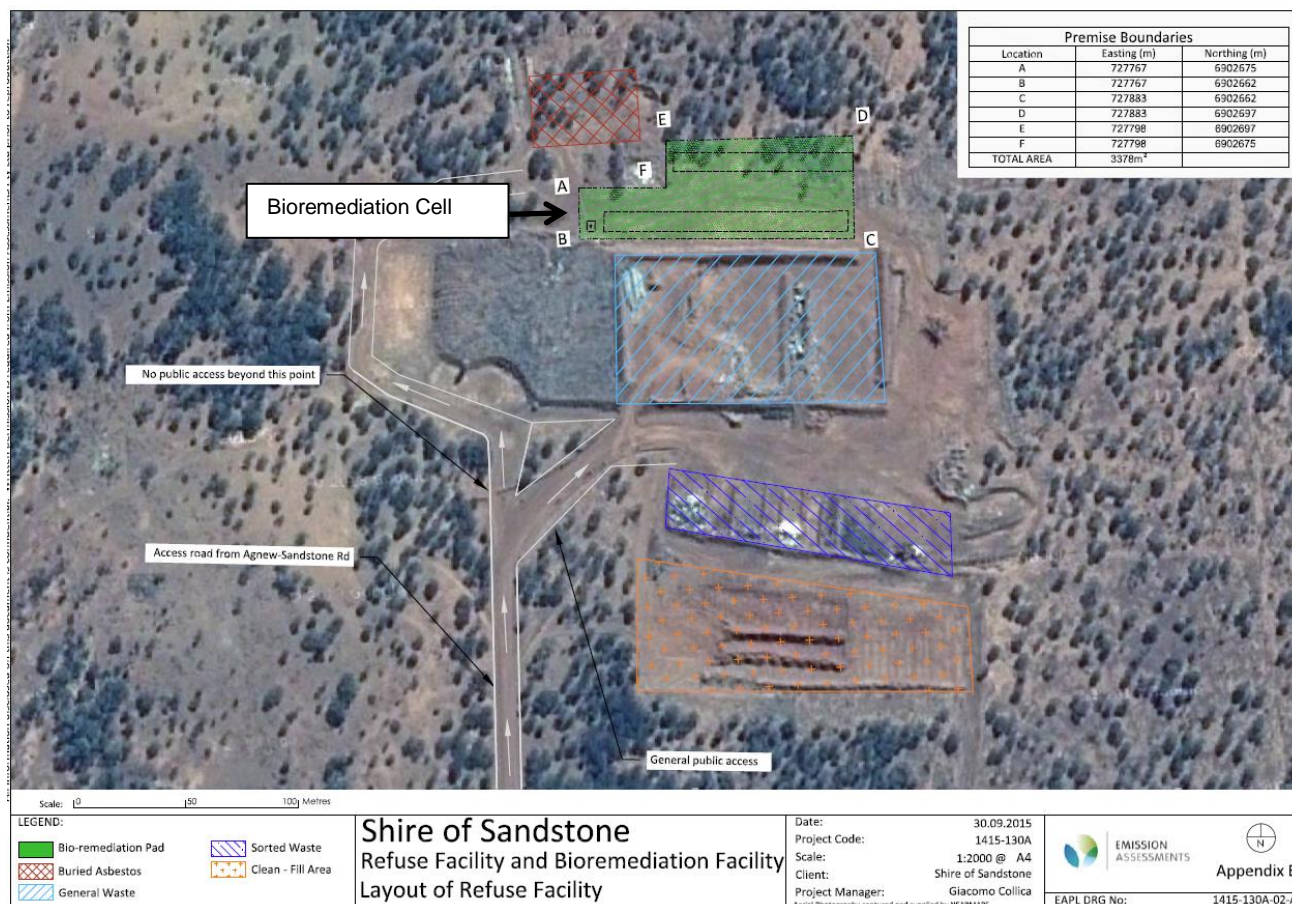
GPS Point 6: Easting 727797.07 m E, Northing 6902675.14 m S





## Location of bioremediation cell

The location of the containment infrastructure defined in Table 1.3.3 is shown below. The green shaded area depicts the Premises.





## 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.

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### ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

#### SECTION A LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name: Shire of Sandstone	ABN: 34 049 933 669
Trading as: Sandstone Refuse Site – Bioremediation Facility	
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 Date _____	<input type="checkbox"/> No
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 initialised by the person(s) who signs Section C of this AACR

Initial:



## SECTION C

### SIGNATURE AND CERTIFICATION

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

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

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

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

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

SIGNATURE: \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

SEAL (if signing under seal)

SIGNATURE: \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_



Licence: L8829/2014/1  
Form: N1

Licensee: Shire of Sandstone  
Date of breach:

**Notification of detection of the breach of a limit.**

These pages outline the information that the operator must provide.

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

**Part A**

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

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





## Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Shire of Sandstone	
Date	



# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** Shire of Sandstone

**Licence:** L8829/2014/1

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**Registered office:** 26 Hack Street  
SANDSTONE WA 6639

**Premises address:** Sandstone Refuse Site – Bioremediation Facility  
Lot 302 on Plan 44609 Agnew – Sandstone Road  
SANDSTONE WA 6639

**Issue date:** Thursday, 16 October 2014

**Commencement date:** Monday, 20 October 2014

**Expiry date:** Saturday, 19 October 2019

### **Decision**

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

Decision Document prepared by:

Abnesh Chetty  
Licensing Officer

Decision Document authorised by:

Steve Checker  
Delegated Officer



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## 1 Purpose of the Decision 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.



## 2 Administrative summary

Administrative Details		
Application Type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence Amendment <input checked="" type="checkbox"/> Works Approval Amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category Number(s) 61A	Design Capacity 2,700 tonnes per annual period
Application Verified	Date: N/A	
Application Fee Paid	Date: N/A	
Works Approval has been complied with Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> 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	Not applicable	
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral Decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial Statement No: EPA Report No:
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.		
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO <sub>2</sub> requirements of Kwinana EPP.		



### 3 Executive summary of proposal

A P4 Form application was submitted to the Department of Environment Regulation (DER) on 1 December 2015 requesting the amendment of Licence L8829/2014/1 to extend the footprint of the current bioremediation facility.

The Sandstone Refuse Site – Bioremediation Facility (facility) is located in the Midwest region of Western Australia and is approximately 660 km north-east of Perth. The facility is located approximately 1.4 km north-east of the town of Sandstone (nearest sensitive premises) and is located on Lot 302 on Plan 44609, Sandstone.

The facility is located at the rear (north) of the refuse site just behind the main waste disposal area. Access to the facility is closed to the public.

The facility consists of a graded and compacted clean soil base which is then overlayed with an impermeable 400 micron thick plastic liner. Clean fill has then been placed over the liner and a 200 mm high earthen bund has been placed around the perimeter of the facility.

The current lined cell is approximately 120 m long by 20 m wide, with a slope graded at 2 percent towards a sump for catchment of run-off. The sump has a generator operated filtration system (MyCelx oily water treatment system) with all treated effluent water being re-used on the stockpile as part of the bioremediation process.

This Licence is the result of an amendment sought by the Licensee to increase the footprint of the bioremediation facility from approximately 2,750 m<sup>2</sup> to approximately 3,378 m<sup>2</sup> as constructed under amended works approval W5625/2014/1. This was achieved by extending the existing cell to the north with the approximate dimension of 90 m x 20 m; it is designed to have a 1% grade to the south of the extended cell and 0.2% fall to the west of the existing cell. These falls will ensure that any runoff from the cell will be directed to the existing sump and the oily water filtration system. The 200 mm high perimeter bunding was also extended to include the expanded area. The Licenced bioremediation treatment capacity of 2,700 tonnes per annum is to remain unchanged.

The main emissions from the facility are volatile organic vapours (odour), fugitive dust and contaminated stormwater. 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.

Licence L8829/2014/1 has been amended to include the extended area. Administrative changes have also been included within the amendment process to convert the licence to the latest format and to reflect DER's current licensing practices.



## 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.

This decision table relates to licensing conditions that were added, removed or amended in the licence that relate to the proposed amendment or the DER's current licensing practises. Risks associated with existing licence conditions or operations on the premises that do not relate to these were not re-assessed.

DECISION TABLE			
Licence Section	Condition Number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference Documents
Interpretation	L1.1.1	Administrative changes have been included within the Licence amendment process to reflect the definitions used in conditions within this Licence.  Definitions that reference Dangerous Goods legislation, code of practice for the storage and handling of dangerous goods, environmentally hazardous material and fugitive emissions were removed in accordance with DER protocol.	DER Licence template v2.9
General conditions	L1.2.1 L1.2.2 L1.2.3 L1.2.5	Licence conditions have been removed in accordance with version 2.9 of the DER's Licence template.  Condition 1.2.1, relating to authorisation of emissions, has been identified as redundant and removed as it was a statement of advice rather than an enforceable condition. Condition 1.2.2, relating to maintaining all pollution control and monitoring equipment, has been removed as it was unclear as to the specific equipment and internal management systems referenced. Condition 1.2.3, relating to storage of environmentally hazardous material has been removed as it references a code of practice not administered by DER. The storage of dangerous goods is regulated by the Department of Mines and Petroleum.	DER Licence template v2.9
Premises operation	L1.3.1 L1.3.2	Licence condition 1.3.1 relating to investigating the exceedance of limits has been added to the Licence.	DER Licence template v2.9

DECISION TABLE			
Licence Section	Condition Number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference Documents
		Previous Licence condition 1.3.1 relating to the types and quantity of waste to be accepted on site now becomes 1.3.2. The relevant controlled waste code for the waste accepted onsite has also been added (N120 – contaminated soil).	
Emissions general	L2.1 – 2.5	All sections with no specified conditions have been removed in accordance with DER licensing protocol.	
Fugitive emissions	L2.6	<p><u>Emission Description</u>  <i>Emission:</i> Dust from transportation of stockpile to the bioremediation facility.  <i>Impact:</i> Dust nuisance to sensitive receptors outside of the premises. Impacts are expected to be limited since the site is 1.4 km away from the nearest receptors. DER is not aware of any dust complaints from the operation of the current bioremediation facility.  <i>Controls:</i> Use of water for dust suppression.</p> <p><u>Risk Assessment</u>  Consequence: Minor  Likelihood: Rare  Risk Rating: Low</p> <p><u>Regulatory Controls</u>  The previous Licence contained condition 2.6.1 for dust management. However the risk of emissions is considered low. Fugitive emissions of dust can be sufficiently regulated under section 49 of the <i>Environmental Protection Act 1986</i>. In accordance with DER's licensing process, no specified conditions for fugitive emissions have been included on this licence.</p> <p><u>Residual Risk</u>  Consequence: Minor  Likelihood: Rare  Risk Rating: Low</p>	DER Licence template v2.9

DECISION TABLE			
Licence Section	Condition Number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference Documents
Odour	L2.7	<p><u>Emission Description</u>  <i>Emission:</i> Odour from the bioremediation facility.  <i>Impact:</i> Nuisance odour impacts are expected to be limited since the site is 1.4 km away from the nearest receptors. DER is not aware of any odour complaints from the operation of the current bioremediation facility.  <i>Controls:</i> The initial two week period of remediation is considered the most significant, in terms of potential odour impact. During this initial period, the Shire of Sandstone shall ensure that any complaints are appropriately lodged and if required, activities ceased. Also since diesel fuel will be the primary source of odour emissions from the stockpile, the Licensee will manage the issue by using deodorising product used throughout industry to mitigate odours arising from sulphurous compounds.</p> <p><u>Risk Assessment</u>  Consequence: Minor  Likelihood: Rare  Risk Rating: Low</p> <p><u>Regulatory Controls</u>  The previous Licence contained condition 2.7 for odour management. However the risk of emissions is considered low. Odour emissions therefore can be sufficiently regulated under section 49 of the <i>Environmental Protection Act 1986</i>. In accordance with DER's licensing process, no specified conditions for fugitive emissions have been included on this licence.</p> <p><u>Residual Risk</u>  Consequence: Minor  Likelihood: Rare  Risk Rating: Low</p>	DER Licence template v2.9
Noise	L2.8	Consistent with DER's licensing protocol, this section was deleted because it did not contain any conditions.	DER Licence template v2.9

DECISION TABLE			
Licence Section	Condition Number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference Documents
Monitoring	L3.1 – 3.5 L3.8 & 3.9	Sections 3.1-3.5, 3.8 and 3.9 were removed because they did not contain conditions in accordance with DER protocol.	DER Licence template v2.9
	L3.6 & L3.7	Previous Licence condition 3.6 relating to monitoring of inputs and outputs the types and quantity of waste to be accepted on site now becomes 2.1.  Previous Licence condition 3.7 relating to process monitoring now becomes 2.2.	
Improvements	L4	Consistent with DER's licensing protocol, this section was deleted because it did not contain any conditions.	
Information	L5.1 L5.1.1 L5.1.2 L5.1.3 L5.1.4	Consistent with DER's licensing protocol, conditions 5.1.2 were removed. Licence condition 5.1 now becomes 3.1 Licence condition 5.1.1 now becomes 3.1.1 Licence condition 5.1.3 now becomes 3.1.2 Licence condition 5.1.4 now becomes 3.1.3	DER Licence template v2.9
Licence Duration	N/A	The Licence duration has not been reassessed through this amendment process. The Licence expires on 6 April 2020.	N/A

## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
15 January 2016	Proponent sent a copy of draft instrument	Confirmation and acceptance of the draft amended instrument was provided on 2 February 2016.	Finalisation of instrument





## 6 Emissions and discharges risk assessment matrix

*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