



# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** Koorda Shire Council

**Licence:** L5689/1993/7

**Registered office:** PO Box 20  
 KOORDA WA 6475

**Premises address:** Koorda Sewage Treatment Plant  
 KOORDA WA 6475  
 Being Avon Location 28636 (Lot 28636 on Plan 183885), Crown Reserve 36712 as depicted in Schedule 1.

**Issue date:** Thursday, 3 March 2016

**Commencement date:** Sunday, 13 March 2016

**Expiry date:** Wednesday, 12 March 2026

**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
54	Sewage facility premises – (a) on which sewage is treated (excluding septic tanks); or (b) from which treated sewage is discharged onto land or into waters.	100 cubic metres or more per day	150 cubic metres per day

**Conditions**

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

Date signed: 3 March 2016

.....  
**Alan Kietzmann**  
 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 Shire of Koorda operates the Koorda Wastewater Treatment Plant located at Lot 28636 on Plan 183885, Avon Location 28636, Crown Reserve 36712, Koorda. The land is owned by Department of Lands, Department of Planning and Infrastructure and has a Management Order with the Shire of Koorda listed as a vested interest for a sewage treatment plant.

The closest residential premises are located approximately 450 metres east of the Premises at the Koorda township.

The wastewater treatment plant is designed to serve an estimated population of 750 people and has a design capacity of 150m<sup>3</sup>/day. Koorda town has a current population of around 250 residents and the WWTP is currently operating at approximately 68m<sup>3</sup>/day. The WWTP operates a gravity sewer reticulation with 188 connections. Treatment consists of one Imhoff tank, one treatment / stabilisation (oxidation) pond and one evaporation / overflow pond for any excess liquids. The overflow pond was originally intended to store treated wastewater for re-use, but changes in rainfall and population has meant that there isn't enough water retained that can be re-used. Settleable and floatable solids are removed from the Imhoff tank approximately twice per year, drained into a clay lined sludge drying bed before being taken off-site and disposed at the landfill.

The potential emissions of concern is considered to be gaseous and odour.

This Licence is the successor to licence L5689/1993/7.

The licences and works approvals issued for the Premises since 2002 Licence are:

<b>Instrument log</b>		
<b>Instrument</b>	<b>Issued</b>	<b>Description</b>
L5689/1993/2	14/01/2002	Licence re-issue
L5689/1993/3	27/01/2003	Licence re-issue
L5689/1993/4	09/02/2004	Licence re-issue
L5689/1993/5	14/03/2005	Licence re-issue
L5689/1993/6	05/03/2010	Licence re-issue
L5689/1993/7	03/03/2016	Licence re-issue

**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 1 July until 30 June;

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

**'CEO'** for the purpose of correspondence means;

Chief Executive Officer  
Department Administering the Environmental Protection Act 1986  
Locked Bag 33  
CLOISTERS SQUARE WA 6850  
Email: [info@der.wa.gov.au](mailto:info@der.wa.gov.au)

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

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

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

**'Licence'** means this Licence numbered L5689/1993/7 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;

**'Waste Code'** means the Waste Code assigned to a type of controlled waste for purposes of waste tracking and reporting as specified in the Department of Environment Regulation "Controlled Waste Category List" (July 2014), as amended from time to time; and

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

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



1.1.4 Any reference to a guideline or code of practice in the Licence means the 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 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 allow waste to be accepted 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 limit listed in Table 1.3.1; and  
 (c) it meets any specification listed in Table 1.3.1

<b>Table 1.3.1: Waste acceptance</b>			
<b>Waste</b>	<b>Waste Code</b>	<b>Quantity Limit</b>	<b>Specification<sup>1</sup></b>
Sewage	N/A	150 m <sup>3</sup> /day	Accepted through sewer inflow only

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

1.3.3 The Licensee shall ensure that the wastes accepted onto the Premises are only subjected to the processes set out in Table 1.3.2 and in accordance with any process requirements described in that table.

<b>Table 1.3.2: Waste processing</b>		
<b>Waste type</b>	<b>Process</b>	<b>Process requirements</b>
Sewage	Physical and biological treatment	<ul style="list-style-type: none"> <li>Ensure that all wastewater undergoes primary sedimentation within an imhoff tank, followed by secondary biological treatment in the waste stabilisation pond.</li> <li>Ensure that any treated wastewater shall be contained within an overflow pond for solar evaporation.</li> </ul>

1.3.4 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.3.

<b>Table 1.3.3: Containment infrastructure</b>		
<b>Vessel or compound</b>	<b>Material</b>	<b>Requirements</b>
Imhoff Tank	Wastewater	concrete
Stabilisation pond	Wastewater	In-situ clays
Overflow / evaporation pond	Treated wastewater	In-situ clays
Sludge drying bed	Sewage sludge from Imhoff Tank	In-situ clays

1.3.5 The Licensee shall manage all wastewater treatment evaporation 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) trapped overflows are maintained on the outlet of ponds to prevent carry-over of surface floating matter; and
- (e) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments

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; and
- (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 or unmanned.

## 2 Information

### 2.1 Records

2.1.1 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 waters.

2.1.2 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.

2.1.3 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.

### 2.2 Reporting

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

<b>Table 5.2.1: Annual Environmental Report</b>		
<b>Condition or table (if relevant)</b>	<b>Parameter</b>	<b>Format or form<sup>1</sup></b>
-	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
2.1.2	Compliance	Annual Audit Compliance Report (AACR)
2.1.3	Complaints summary	None specified

Note 1: Forms are in Schedule 2



## 2.3 Notification

2.3.2 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.

<b>Table 5.3.1: Notification requirements</b>			
<b>Condition or table (if relevant)</b>	<b>Parameter</b>	<b>Notification requirement<sup>1</sup></b>	<b>Format or form<sup>2</sup></b>
2.1.1	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day.  Part B: As soon as practicable	N1
-	Removal of sewage sludge from a treatment pond, wastewater treatment vessel, sewage sludge storage pond or Geobag	No less than 14 days in advance of works	-

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.

### 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 C

### SIGNATURE AND CERTIFICATION

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

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

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <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: \_\_\_\_\_

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

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

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

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

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

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

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

SEAL (if signing under seal)



Licence: L5689/1993/7  
 Form: N1

Licensee: Shire of Koorda  
 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	

<b>Notification requirements for the breach of a limit</b>	
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 Koorda	
Date	



# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** Shire of Koorda

**Licence:** L5689/1993/7

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**Registered office:** PO Box 20  
KOORDA WA 6475

**Premises address:** Koorda Sewage Treatment Plant  
Lot 28636 on Plan 18385, Crown Reserve 36712  
KOORDA WA 6475

**Issue date:** Thursday, 3 March 2016

**Commencement date:** Sunday, 13 March 2016

**Expiry date:** Wednesday, 12 March 2026

### **Decision**

Based on the assessment detailed in this document the Department of Environment Regulation (DER) CEO delegated officer, has decided to issue a licence. The Delegated officer considers that in reaching this decision, he 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: Josephine Tuohy  
Licensing Officer

Decision Document authorised by: Alan Kietzmann  
Delegated Officer





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### 1 Purpose of this Document

This decision document explains how DER CEO delegated officer has assessed and determined the application and provides a record of the decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to the delegated officer'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 checked="" type="checkbox"/> Licence amendment <input type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	<b>Category number(s)</b>	<b>Assessed design capacity</b>
	54	150 m <sup>3</sup> /day
Application verified	Date: 10/02/2016	
Application fee paid	Date: 11/02/2016	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	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"/>	
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



### **3 Executive summary of proposal and assessment**

The Shire of Koorda operates the Koorda Wastewater Treatment Plant located at Lot 28636 on Plan 183885, Avon Location 28636, Crown Reserve 36712, Koorda. The land is owned by Department of Lands, Department of Planning and Infrastructure and has a Management Order with the Shire of Koorda listed as a vested interest for a sewage treatment plant.

The closest residential premises are located approximately 450 metres east of the Premises at the Koorda township.

The area surrounding the treatment facility consists of a top layer mixture of gravel and loam, below that is indurated saprolite over deeper saprolite clay material. It appears from investigations undertaken by Department of Agriculture for the Koorda Groundwater Study (document date unknown), that the town sits on a perched aquifer. The groundwater around the treatment plant is recorded as 5-6 meters deep in the year 2000. However, in 2008 a Rural Towns Bore Monitoring Program showed the bore in that vicinity was dry. Anecdotal reports indicate groundwater levels across the area appear to be dropping due to the drying climate. Groundwater's in the area are considered to be saline with low pH; there are no watercourses or wetlands mapped within the Premises boundary, the closest drainage line is a minor non-perennial watercourse approximately 1.6 kilometres north of the premises. The closest Geomorphic Wetlands Wheatbelt are located approximately 1.5 kilometres south of the premises. Annual mean rainfall for Koorda is below 300 mm while the pan evaporation rate exceeds 2 100mm per annum (Department of Agriculture weather station Koorda 1).

The wastewater treatment plant is designed to treat wastewater to a secondary standard and serve an estimated population of 750 people and has a design capacity of 150m<sup>3</sup>/day. Koorda town has a current population of circa 250 residents and the WWTP is currently operating at approximately 68m<sup>3</sup>/day. The WWTP operates a gravity sewer reticulation with 188 connections. Treatment consists of one Imhoff tank, one treatment / stabilisation (oxidation) pond and one evaporation / overflow pond for any excess liquids. The overflow pond was originally intended to store treated wastewater for re-use, but changes in rainfall and population has meant that there isn't enough water retained that can be re-used; it is evaporated. Settleable and floatable solids are removed from the Imhoff tank approximately twice per year, drained into a clay lined sludge drying bed before being taken off-site and disposed at the landfill.

The Environmental Protection Authority's Guidance Statement No 3, *Separation Distances between Industrial and Sensitive Land Uses*, recommends a separation distance to be determined by case by case assessment for a premises that sewage treatment, with the main emissions of concern being gaseous and odour.

All potential emissions and discharges have been discussed and addressed in the Decision Table. The Koorda WWTP has been assessed as moderate risk and therefore the Licence is recommended to be issued to Shire of Koorda for a period of 10 years.



## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	L1.3.1 – L1.3.7	<p><u>Emission Description</u>  <i>Emission:</i> Treated wastewater effluent seeping through the lining of the ponds to land and groundwater. The ponds are lined with in-situ clay soils.  <i>Impact:</i> Contamination of surrounding land, surface water and groundwater. Although the permeability of the pond lining is undetermined, it is expected to be low. Groundwater has previously been identified at 5-6 meters below ground level within the area and anecdotal information suggests that some of these bores have dried up due to the drying climate. The town of Koorda appears to be above a perched aquifer but there is little information on the use of this groundwater. The area surrounding the treatment facility consists of a top layer mixture of gravel and loam, below that is indurated saprolite over deeper saprolite clay material. Local soils, high evaporation rates and low rainfall mitigate infiltration through the ponds.  <i>Controls:</i> No additional controls proposed given the geology and climate experienced in the area.</p> <p><u>Risk Assessment</u>  <i>Consequence:</i> Minor  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u>            Condition 1.3.1 has been included in this licence to ensure that any exceedance of</p>	<p>Application supporting documentation</p> <p><i>Environmental Protection (Unauthorised Discharge) Regulations 2004</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>limits is investigated.</p> <p>Condition 1.3.2 has been included in this licence to specify the waste types and quantity limits that may be accepted at the premises as those that have been assessed under the licence application as suitable given the infrastructure and controls measures in place at the premises.</p> <p>Condition 1.3.3 replaces condition W1(a) and W1(b) of the previous licence that specifies how sewage waste is to be processed on site, given the infrastructure and control measures at the premises and relevant to the licence categories applied for.</p> <p>Condition 1.3.4 has been included in the licence for the purpose of specifying the containment infrastructure on the Premises.</p> <p>Condition 1.3.5 replaces condition W2 of the previous licence that specifies how wastewater treatment ponds are managed to provide adequate protection to the environment.</p> <p>Condition 1.3.6 has been included to ensure that the wastewater treatment plant has sufficient security to prevent unauthorised access or waste disposal.</p> <p><u>Residual Risk</u>  <i>Consequence:</i> Minor  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Moderate</p> <p>Condition W1(c) has not been included in this licence as any discharges to the environment can be adequately managed under the <i>Environmental Protection (Unauthorised) Discharge Regulations 2004</i>.</p>	



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Emissions general	N/A	There are no point source emissions and as such no specified conditions relating to emissions general are required on the Licence.	N/A
Point source emissions to surface water including monitoring	N/A	There are no point source emissions to surface water and as such no specified conditions are required on the Licence.	N/A
Point source emissions to groundwater including monitoring	N/A	There are no point source emissions to groundwater and as such no specified conditions are required on the Licence.	N/A
Emissions to land including monitoring	N/A	There are no emissions to land and as such no specified conditions are required on the licence. All treated wastewater is evaporated and sludges are disposed of to landfill.	N/A
Fugitive emissions	N/A	There are no fugitive dust emissions and as such no specified conditions are required on the Licence.	N/A
Odour	N/A	<p><u>Emission Description</u></p> <p><i>Emission:</i> Odour from wastewater acceptance point, treatment and storage of wastewater.</p> <p><i>Impact:</i> Reduced local air quality and nuisance for persons not on site. The nearest sensitive receptor is located approximately 400 metres east of the premises.</p> <p><i>Controls:</i> Sewage waste is accepted on site through approximately 4.6 kilometres of reticulated sewer, which is then treated through the enclosed imhoff tank, treated wastewater is then directed to the stabilisation/evaporation pond. Sludge is removed from the imhoff tank approximately twice yearly, and dried on a clay lined sludge drying bed. Solid waste is then taken to Shire's landfill for burial. The Shire estimates approximately 1 tonne of solid is removed from site per year. This site has been licensed since 1997 and DER has not received any complaints relating to odour and the Shire has also not received any complaints..</p>	<i>Environmental Protection Act 1986</i>





DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><u>Risk Assessment</u>  <i>Consequence:</i> Insignificant  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u>            In accordance with DER's licensing process and assessment of risk, no specified condition for fugitive emission has been included in this licence. Odour can be sufficiently regulated under Section 49 of the <i>Environmental Protection Act 1986</i>.</p> <p><u>Residual Risk</u>  <i>Consequence:</i> Insignificant  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Low</p>	
Noise	N/A	<p><u>Emission Description</u>  <i>Emission:</i> Low levels of noise generated from the operation of the equipment associated with the WWTP. The WWTP is primarily run via gravity flow; however there are two petrol powered pumps at the entrance to the plant that can be used to pump the sewage if necessary.  <i>Impact:</i> Noise can be a nuisance to persons not on the Premises.  <i>Controls:</i> The Licensee has not proposed any specific controls relating to noise as the pumps are only operated as required.</p> <p><u>Risk Assessment</u>  <i>Consequence:</i> Insignificant  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Low</p>	<i>Environmental Protection (Noise) Regulations 1997</i>



<b>DECISION TABLE</b>			
<b>Works Approval / Licence section</b>	<b>Condition number W = Works Approval L= Licence</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
		<u>Regulatory Controls</u> Based on the assessed low risk, no conditions relating to noise are proposed for the licence. Noise emissions can be adequately managed under the <i>Environmental Protection (Noise) Regulations 1997</i> .  <u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low	
<b>Monitoring of inputs and outputs</b>	N/A	No specified conditions relating to monitoring of inputs and outputs are required to be added to the Licence.	N/A
<b>Process monitoring</b>	N/A	No specified conditions relating to process monitoring are required to be added to the Licence.	N/A
<b>Ambient quality monitoring</b>	N/A	No specified conditions relating to ambient quality monitoring are required to be added to the Licence.	N/A
<b>Meteorological monitoring</b>	N/A	No specified conditions relating to meteorological monitoring are required to be added to the Licence.	General provisions of the <i>Environmental Protection Act 1986</i> .
<b>Improvements</b>	N/A	There are no improvements required on this licence.	N/A
<b>Information</b>	L2.1.1 – 2.3.2	Condition 2.1.2 replaces condition G1 of the previous licence. Standard conditions	N/A



<b>DECISION TABLE</b>			
<b>Works Approval / Licence section</b>	<b>Condition number W = Works Approval L= Licence</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
		regarding records, reporting and notifications have also been included on the Licence.	
<b>Licence Duration</b>	N/A	The Koorda WWTP has been assessed as moderate risk on the basis that the lining of the ponds are not known and uses of the perched aquifer beneath the town is undetermined. There are no planning restrictions associated with the activity on the location. The Licence is recommended to be issued to Shire of Koorda for a period of 10 years.	N/A



## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
15/02/2016	Application advertised in West Australian (or other relevant newspaper)	No comments received	N/A
22/02/2016	Proponent sent a copy of draft instrument	No comments received	N/A



## 6 Risk Assessment

*Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management*

**Table 1: Emissions Risk Matrix**

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High