

Licence

Environmental Protection Act 1986, Part V

Licensee: Water Corporation

Licence: L8237/2008/2

Registered office: 629 Newcastle Street LEEDERVILLE WA 6007

Premises address:	Corrigin Wastewater Treatment Plant Reserve 27018 CORRIGIN WA 6375 Being Reserve 27018 as depicted in Schedule 1.
Issue date:	Thursday, 27 November 2014
Commencement date:	Wednesday, 10 December 2014
Expiry date:	Monday, 9 December 2019
Amendment date:	Thursday, 26 November 2015

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	290 cubic metres per day

Conditions

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

Date signed: 27 November 2015

Officer delegated under section 20 of the Environmental Protection Act 1986



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Introduction

This Introduction is not part of the Licence conditions.

DER's industry licensing role

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

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

Licence requirements

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

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

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

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

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

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



Other Guidelines which you should be aware of include:

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

Licence fees

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

Ministerial conditions

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

Premises description and Licence summary

Water Corporation operates Corrigin Wastewater Treatment Plant (WWTP) under the environmental protection licence L8237/2008/2. The Corrigin WWTP is located approximately 600m south west of Corrigin Township. It is separated from the township by Kunjn Street and a Railway Reserve. The town is located in the centre of Wheatbelt region on the Bruce Rock Corrigin Road 234 km north east of Perth. The township is surrounded by farmland and native bush areas. Corrigin Township has a population of about 800 residents.

The Corrigin WWTP is licensed to treat up to 290 m³ per day. The average daily outflow from the plant for the reporting period 2013/14 was 82.48 m³ per day. The Corrigin WWTP consists of two oxidation ponds.

The closest odour sensitive receptors are:

- Bowling club located approximately 350m to the north east of the site;
- Recreational facilities located approximately 650m north east of the site; and
- Industrial facility located adjacent to the site.

The site is not located within an environmentally sensitive area and not within a drinking water supply area. Depth to groundwater is in the range of 5-20 metres. The soil type is described as sandy soil. Groundwater is not suitable for potable water supply or irrigation purposes due to high salinity levels.

The plant does not directly discharge to land or water. All treated wastewater produced at the plant is used by the Shire of Corrigin to irrigate the sports oval, town parks and gardens.

This licence is an amendment at the request of the proponent to remove reference to Imhoff tanks that are no longer used in the processing of waste water.

The licences and works approvals issued for the Premises since 10/12/2009 prior to issue of this Licence are:

Instrument log		
Instrument	Issued	Description
L8237/2008/1	10/12/2009	Licence New application
L8237/2008/2	27/11/2014	Licence re-issue, REFIRE format
L8237/2008/2	26/11/2015	Licence amendment to remove reference to Imhoff tanks,
		minor changes and global changes

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 in the following year;

'AS/NZS 2031' means the Australian Standard AS/NZS 2031 Selection of containers and preservation of water samples for microbiological analysis;

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

AS/NZS 5667.10' means the Australian Standard AS/NZS 5667.10 Water Quality – Sampling – Guidance on sampling of waste waters;

'averaging period' means the time over which a limit or target is measured or a monitoring result is obtained;

'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;

'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;

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

'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;

'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 in Sections 2.2, 2.3, 2.4 and 2.5;



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

'Licence' means this Licence numbered L8237/2008/2 and issued under the Act;

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

'NATA' means the National Association of Testing Authorities, Australia;

'NATA accredited' means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

'**Premises'** means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

'process equipment' means any wastewater or sludge containment infrastructure or wastewater treatment vessel;

'quarterly' means the four inclusive periods from 1 April to 30 June, 1 July to 30 September, 1 October to 31 December and in the following year, 1 January to 31 March;

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

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

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

'wastewater treatment vessels' means any vessel or tank containment infrastructure associated with the treatment of wastewater and includes, but not limited to, oxidation ditches and clarifiers.

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

1.2 General conditions

- 1.2.1 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 shall ensure that environmentally hazardous substances 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.
- 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.

1.2.6 The Licensee shall maintain permanent markers along the boundary of the Premises so it can be identified on the ground.

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 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

Table 1.3.1: Waste acceptance				
Waste	Waste Code	Quantity Limit	Specification ¹	
Sewage	N/A	290 m ³ /day	Accepted through sewer inflow(s) only	
Septage wastes (Sewage) – domestic wastes from apparatus for the treatment of sewage	К130	N/A	Tankered into the premises and discharged into pond 1	

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 process(es) set out in Table 1.3.2 and in accordance with any process requirements described in that table.

Table 1.3.2: Waste processing				
Waste type	Process	Process requirements		
	Physical, biological and chemical treatment			
Sewage		None specified		
Sewage sludge and waste activated sludge	Sludge treatment and storage			



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.

Table 1.3.3: Containment infrastructure				
Vessel or compound	Material	Requirements		
Pond 1 and pond 2	Wastewater	Lined with compacted in-situ soils		
Sludge storage area	Sludge	Temporary or permanent infrastructure to consist of a bunded hardstand or lined to achieve a permeability of less than 10 ⁻⁹ m/s capable of preventing surface run-off or leachate and sludge and which includes a leachate collection system		

- 1.3.5 The Licensee shall manage all wastewater treatment ponds such that:
 - (a) overtopping of the ponds does not occur;
 - (b) a freeboard equal to, or greater than, 300mm is maintained;
 - (c) the integrity of the containment infrastructure is maintained;
 - (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 growing or accumulating on to 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 Monitoring

2.1 General monitoring

- 2.1.1 The licensee shall ensure that:
 - (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - (b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
 - (c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured [unless indicated otherwise in the relevant table].

2.2 Monitoring of inputs and outputs

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

Table 2.2.1: Monitoring of inputs and outputs					
Input/Output	Monitoring point reference	Parameter	Units	Averaging period	Frequency
Treated wastewater discharged to Shire storage for irrigation	Treated WW Magflow meter	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous

2.3 Process monitoring

2.3.1 The Licensee shall undertake the monitoring in Table 2.3.1 according to the specifications in that table.



Table 2.3.1: Process monitoring						
Monitoring point reference and location	Process description	Parameter	Units	Averagi ng period	Frequency	Method
		Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous	None specified
	Biochemical Oxygen DemandDischarge from wastewater treatment plant to Shire storage dam/pondTotal NitrogenTotal Suspended solids (TSS)mg/L		ma/l			
		Total Nitrogen				
Pond 2		Total Phosphorus				
FUIU Z		Spot sample	Quarterly	None specified		
	dampona	Total Dissolved solids (TDS)				
		Escherichia Coli	cfu/100ml			
		pH ¹				

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

3 Information

3.1 Records

- 3.1.1 All information and records required by the Licence shall:
 - (a) be legible;
 - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) except for records listed in 3.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
 - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 3.1.2 The Licensee shall ensure that:
 - (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
 - (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.
- 3.1.3 The Licensee shall 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.
- 3.1.4 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.

3.2 Reporting

3.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by 1 September each year. The report shall contain the information listed in Table 3.2.1 in the format or form specified in that table.



Table 3.2.1: Annual	Environmental Report	
Condition or table (if relevant)	Parameter	Format or form ¹
-	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
Table 1.3.2	Summary of any treatment capacity target exceedances and any action taken.	None specified
1.3.5	Summary of any freeboard target exceedances and any action taken.	None specified
	Monitoring of inputs and outputs	None specified
Table 2.2.1	Methodology and calculations used to estimate the daily volumetric flow rate of treated wastewater pumped to evaporation basins and results of those calculations.	None specified
Table 2.3.1	Process monitoring	None specified
3.1.3	Compliance	Annual Audit Compliance Report (AACR)
3.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

- 3.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:
 - (a) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.
- 3.2.3 The Licensee shall submit the information in Table 3.2.3 to the CEO at the Contact Address according to the specifications in that table.

Table 3.2.3: Non-annual reporting requirements					
Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form	
-	Copies of original monitoring reports submitted to the Licensee by third parties	Not Applicable	Within 14 days of the CEOs request	As received by the Licensee from third parties	



3.3 Notification

3.3.1 The Licensee shall ensure that the parameters listed in Table 3.3.1 are notified to the CEO at the Contact Address and in accordance with the notification requirements of the table.

Table 3.3.1: N	Table 3.3.1: Notification requirements					
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²			
-	Taking process equipment offline for maintenance works that may result in increased odour emissions	No less than 72 hours in advance of works	None specified			
1.3.1 and 2.1.1	Breach of any limit specified in the Licence	Part A: As soon as practicable but no				
	Any failure or malfunction of any pollution control	later than 5pm of the next working day	N1			
-	equipment or any incident, which has caused, is causing or may cause pollution	Part B: As soon as practicable				

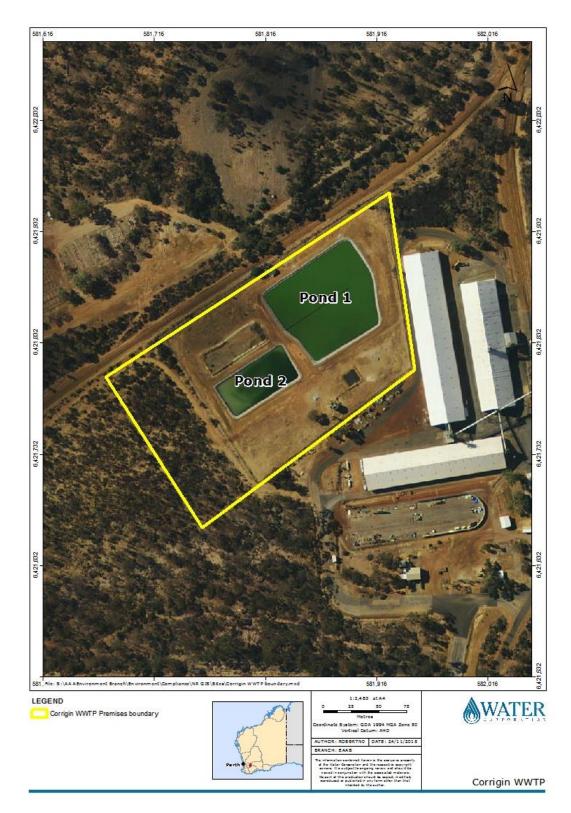
Note 1: No notification requirement in the Licence shall negate the requirement to comply with s72 of the Act. Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The yellow 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)

 $Yes \square$ Please proceed to Section C

No D 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?:	
Yes Reported to DER verbally Date Reported to DER in writing Date	□ No
d) Has DER taken, or finalised any action in relation to the non cor	npliance?:
e) Summary of particulars of the non compliance, and what was th	e environmental impact:
f) If relevant, the precise location where the non compliance occur	red (attach map or diagram):
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects	s of the non compliance:
i) Action taken or that will be taken to prevent recurrence of the nor	n 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:		
		by the individual licence holder, or		
An individual		by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.		
A firm or other		by the principal executive officer of the licensee; or		
unincorporated company		by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.		
		by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or		
		by two directors of the licensee; or		
		by a director and a company secretary of the licensee, or		
A corporation		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.		
		by the principal executive officer of the licensee; or		
A public authority (other than a local government)		by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.		
a local government		by the chief executive officer of the licensee; or		
a local government		by affixing the seal of the local government.		

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

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

SIGNATURE:	SIGNATURE:
NAME: (printed)	NAME: (printed)
POSITION:	POSITION:
DATE:///	DATE://
SEAL (if signing under seal)	



Licence: Form: L8237/2008/2 N1 Licensee: Water Corporation 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	Water Corporation
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	
Signature on behalf of Water Corporation	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Licence:	Water Corporation L8237/2008/2	
Registered office:	629 Newcastle Street LEEDERVILLE WA 6007	

Premises address:	Corrigin Wastewater Treatment Plant Reserve 27018 CORRIGIN WA 6375 Being Reserve 27018 as depicted in Schedule 1.
Issue date:	Thursday, 27 November 2014

- Commencement date: Wednesday, 10 December 2014
- Expiry date: Monday, 9 December 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 and legal requirements and that the Licence and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by:

Dr Bhabesh Das Senior Licensing Officer

Decision Document authorised by:

Caron Goodbourn A/Manager Licensing



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1 Purpose of this Document

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



2 Administrative summary

Administrative details			
Application type	Works ApprovalImage: Constraint of the second s		
Activities that cause the premises to become prescribed premises	Category number(s)		Assessed design capacity
	54		290 m ³ /day
Application verified	Date: N/A		
Application fee paid	Date: N/A		
Works Approval has been complied with	Yes No	N/ <i>I</i>	$A \boxtimes$
Compliance Certificate received	Yes No	N/A	$A \boxtimes$
Commercial-in-confidence claim	Yes No		
Commercial-in-confidence claim outcome			
Is the proposal a Major Resource Project?	Yes□ No⊠		
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes No	Mana	rral decision No: aged under Part V essed under Part IV □
Is the proposal subject to Ministerial Conditions?	Yes No		sterial statement No: 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 No⊠ Department of Wat	er cons	sulted Yes 🗌 No 🛛
Is the Premises within an Environmental Protection If Yes include details of which EPP(s) here.	n Policy (EPP) Area	Yes	No⊠
Is the Premises subject to any EPP requirements?	Yes□ No⊠		



3 Executive summary of proposal and assessment

Water Corporation operates Corrigin Wastewater Treatment Plant (WWTP) under licence L8237/2008/2. The Corrigin WWTP is located approximately 600m south west of Corrigin Township. It is separated from the township by Kunjin Street and a Railway Reserve. The town is located in the centre of Wheatbelt region on the Bruce Rock Corrigin Road 234 km north east of Perth. The township is surrounded by farmland and native bush areas. Corrigin Township has a population of about 800 residents.

The Corrigin WWTP is licensed to treat up to 290 m³ per day. The average daily outflow from the plant for the reporting period 2013/14 was 82.48 m³ per day. The Corrigin WWTP consisted of two oxidation ponds and an Imhoff tank. On 10 March 2015, the Imhoff tank was taken offline permanently because it was not effective in removing Biological Oxygen Demand (BOD) and suspended solids (SS) due to its aged design and the ongoing issue of corrosion of its inlet pipes. For this reason WC submitted an amendment application to have the decommissioned Imhoff tank removed from the Licence.

With the removal of the Imhoff Tank sewage will instead be discharged directly to the secondary oxidation pond 1 by sewage pump station through a pipe bypassing the Imhoff tank.

The function of the Imhoff tank was to typically remove 20% BOD and 30% SS through the settlement of sludges when operating effectively. With the removal of the Imhoff tank, the WWTP will receive extra suspended solids , however these are not expected to exit the plant in the final effluent due to the low flow rate (154kL/day) and high detention time. The suspended solids will be retained in the treatment pond and be biologically treated and subsequently removed during desludging. It is likely that more frequent desludging of pond 1 will be required as a result.

Most of the solids will be settled out in pond 1 as the pond 1 has a baffle in the centre. Both ponds can be desludged depending on assessment of sludge levels. Desludging will be online either by geobag method or a drain and dry method. The pond is not required to be taken offline for desludging by this method. The main potential emissions from desludging operations is leachate and odour.

The closest odour sensitive receptors are:

- Bowling club located approximately 350m to the north east of the site;
- Recreational facilities located approximately 650m north east of the site; and
- Industrial facility located adjacent to the site.

The site is not located within an environmentally sensitive area and not within a drinking water supply area.

Depth to groundwater is in the range of 5-20 metres. The soil type is described as sandy clay. Groundwater is not suitable for potable water supply or irrigation purposes due to high salinity levels.

The plant does not directly discharge to land or water. All treated wastewater produced at the plant is delivered offsite to the Shire Dam which is part of the Shire of Corrigin's reuse scheme based on an irrigation area of 5.2 hectares. This reuse scheme is under the Shire of Corrigin's control and does not form part of this License.

Water Corporation submitted P4 Application Form on 16 December 2014 for the amendment to its licence conditions for the Corrigin WWTP. This partial decision document has been prepared for an amendment to the licence. Table 4 provides details and justification for the amendments. The changes identified by Water Corporation relate to minor corrections to the wording relating to the unit of inflow monitoring, the receipt of tankered waste to better reflect what is currently occurring onsite, removal of Imhoff tank, a revised premises map and global changes.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987*, DEC's Policy Statement - Limits and targets for prescribed premises (2006), 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 TAE	BLE		
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	L1.3.3, L1.3.4	 Condition 1.3.3, Table 1.3.2 has been amended to remove Separation of solids by passing the Imhoff tank. The Imhoff tank is not functioning effectively and is causing blockages resulting in overtopping. The Imhoff tank has been bypassed in the treatment process since February 2015. Water Corporation has advised that the Imhoff tank usually removes in the order of 20% Biological Oxygen Demand (BOD) from an incoming BOD of 300 mg/L and suspended solids through the settlement of sludges. With the removal of the Imhoff tank, the WWTP will receive extra suspended solids, but these are not expected to exit the plant in the final effluent due to the low flow rate (154kL/day) and high detention time. The suspended solids will be retained in the treatment pond and be biologically treated and subsequently removed during desludging. Monitoring data received in the AER identifies that the BOD levels in the treated wastewater have not increased since the Imhoff tank has been bypassed. Desludging will be carried out either by geobag method or a drain method on a purpose built temporary drying bed that is capable of capturing and returning all leachate back into the treatment ponds. The pond is not required to be taken offline for desludging by this method. <u>Emission Description</u> <u>Emission: Leachate from desludging activities.</u> Impact: Contamination of surrounding land and surface water drainage systems. Potential impacts on ecology of surface water from the addition of nutrients and heavy metals. 	Application supporting documentation



DECISION TABLE					
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents		
		<i>Controls:</i> Sludge will be stored within a bunded and HDPE lined bed constructed at the time of desludging and any leachate generated within the containment will be pumped back to the treatment ponds.			
		Risk Assessment Consequence: Minor Likelihood: Possible Risk Rating: Moderate			
		<u>Regulatory Controls</u> Condition 1.3.4, Table 1.3.3 Containment infrastructure requires the licensee to construct a temporary hardstand with liner to achieve permeability 10 ⁻⁹ m/s and that all captured leachate is directed back into pond 1.			
		Residual Risk Consequence [:] Minor Likelihood: Unlikely Risk Rating: Moderate			
Process monitoring	L3.3.1	Condition 3.3.1 has been amended to remove "L/s" and retain m ³ /day.			
Odour	N/A	Emission description Emission: Pond desludging has the potential to cause odour emission from the premises. Impact: Corrigin Township is approximately 600m away from the WWTP. Desludging activities are infrequent and no odour complaints have been received from these premises previous desludging activities. Controls: There are no specific controls to control odour during desludging and sludge storage.	General provisions of the <i>Environmental</i> <i>Protection Act</i> 1986		



DECISION TABLE					
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents		
		Risk Assessment Consequence: Minor Likelihood: Unlikely Risk Rating: Moderate Regulatory Controls Any odour emissions are expected to be localised and not expected to have a detrimental impact on odour sensitive receptors. DER considers that odour emissions can be sufficiently regulated under section 49 of the Environmental Protection Act 1986. No conditions are therefore included in the licence in relation to odour. Residual Risk Consequence Minor Likelihood: Unlikely Risk Rating: Moderate			
Reporting	L4.2.1	Condition 4.2.1 has been amended by removing reference to "evaporation basins" and replacing that with the offsite "Shire dam" consistent with the monitoring of inputs and outputs Table 3.2.1 which requires treated wastewater to be discharged to the Shire dam for evaporation and irrigation. The previous reference to "Evaporation basins" was as a result of an incorrect terminology on the Licence which is now being corrected.			
Licence Duration	N/A	The duration of the Licence has not been changed as a result of this amendment.			



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
6/112015	Proponent sent a copy of draft instrument	 Comments received on 25 November 2015 are the following: Waste code K210 should be changed to K130 as plant should only accept tankered Waste from Water Corporation sewerage infrastructure. No septage from other non Water Corporation organisations should be received at this plant as it should go to the Shire Facility. Change the Requirements for the Sludge Storage Area to say: Temporary or permanent infrastructure to consist of a bunded hardstand or lined area (lined to achieve a permeability of less than 10⁻⁹ m/s or equivalent) capable of preventing surface run-off or leachate and sludge and which includes a leachate collection system. This will be consistent with what is in the Quairading WWTP Licence. Remove reference to pump station receivable 	 Replaced waste code K210 in Table 1.3.1 with waste code K130 on the basis that premises does not accept septage from other non- Water Corporation organisations. K130 is the appropriate waste code. Table 1.3.3 has been amended as commented. It satisfies DER requirements.
		 Proposed wording "Tankered into the premise and discharged into pond 1". Table 2.3.1currently has units of <i>E.coli</i> set as 100CFU/100mL in units. Assume that this should be CFU/100mL and is not a limit set at 100CFU/100mL. Updated premise map was provided to DER 	 Considered and amended Table 1.3.1 as requested. It was incorrectly printed. Amended Table 2.3.1. Updated premises map is included in
		13/4/2015 as requested. Updated premise map is attached.	the licence.



6 Risk Assessment

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

Table 1	1:	Emissions	Risk	Matrix
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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