



Government of **Western Australia**
Department of **Environment Regulation**

Your ref: L6748/1994/13
Our ref: 2011/003323-1
Enquiries: Lauren Fox
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Mr Gordon Groth
Manager Environmental Operations
Environmental and Aboriginal Affairs Branch
Water Corporation
PO Box 100
LEEDERVILLE WA 6902

Dear Mr Groth

ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE

Licence: L6748/1994/13

Premises: Caddadup Wastewater Treatment Plant

Further to my letter dated 26 February 2015, please find enclosed your amended *Environmental Protection Act 1986* licence.

If you have any questions or objections relating to the licence, please do not hesitate to contact the enquiries officer above on (08) 9333 7510 for clarification or discussion of any grievances you have.

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

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

Yours sincerely

Rebecca Kelly
Officer delegated under Section 20
of the *Environmental Protection Act 1986*

18 March 2015

enc: Amended licence L6748/1994/13
copy to: Local Government Authority: City of Mandurah



Licence

Environmental Protection Act 1986, Part V

Licensee: **Water Corporation**

Licence: **L6748/1994/13**

Registered office: 629 Newcastle Street
LEEDERVILLE WA 6007

Premises address: Caddadup Wastewater Treatment Plant
1000 Old Coast Road
DAWESVILLE WA 6211
Being Lot 1955 on Plan 192450 (Crown Reserve 44270) as depicted in Schedule 1.

Issue date: Thursday, 2 October 2014

Commencement date: Sunday, 12 October 2014

Expiry date: Friday, 11 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
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	Not more than 3,000 cubic metres per day

Conditions

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

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

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

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

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



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

Other Guidelines which you should be aware of include:

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

Licence fees

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

Ministerial conditions

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

Premises description and Licence summary

The Caddadup Wastewater Treatment Plant is located just off the Old Coast Road in Dawesville. The plant was established in 1994 and upgraded in 2008. The closest residential receptors are located 400m to the southwest and 500m to the southeast of the premises. The Dawesville Channel is located approximately 2km north of the plant and the Peel Harvey Inlet is located 800m east of the plant. Both are popular locations for fishing and boating activities.

The Caddadup Wastewater Treatment Plant is designed to treat up to 3,000 m³ per day to a secondary standard. The average daily inflow to the plant for the 2012/13 reporting period was 1,326.95 m³/day

The operations at the Caddadup Wastewater Treatment Plant include the treatment of sewage to a secondary standard and the on-site infiltration of treated wastewater. Plant infrastructure consists of:

- inlet works and preliminary treatment to remove coarse material from sewage;
- activated sludge process which includes one oxidation ditch;
- sludge handling facility;
- two secondary clarifiers;
- Dissolved Air Flotation Thickener tank;
- three infiltration ponds; and
- odour control facility.

The main potential emissions from the site are discharges of treated wastewater to land via infiltration into the infiltration ponds (and potentially to groundwater) and fugitive emissions in the form of odour. Discharges of treated wastewater to land are managed by treating wastewater to a defined water quality level and undertaking compliance monitoring prior to discharge.

Odour emissions are managed by extracting emissions from the initial inlet tank and the bioselector where emissions are passed through extraction fans and a bioscrubber to be discharged into the air via a stack which is approximately 10m high and ongoing maintenance of the facility. Given the buffer of 400m and 500m from sensitive receptors, odour emissions are considered low risk.

This licence was converted into the standardised REFIRE (Re-Engineering for Industry Regulation and the Environment) licence format during the re-issue in October 2014. This amendment has been requested by the proponent to make minor changes to:

- The definition of 'quarterly' to match with reporting period;
- The removal of Form ET1 (Schedule 2) as it is not referenced in the licence;
- Removing reference to groundwater monitoring bores MB 1/02 and MB 3/02 in condition 3.8.1 and removing the location of these bores from the groundwater bore location map in Schedule 1; and
- Removing reference to Form AGWQ1 in Table 5.2.1 and removing the form from Schedule 2 as agreed between DER and the Water Corporation.



The licences issued for the Premises since 02/08/2005 prior to issue of this Licence are:

Instrument log		
Instrument	Issued	Description
L6748/1994/10	02/08/2005	Licence re-issue
L6748/1994/11	11/10/2007	Licence re-issue
L6748/1994/12	24/09/2009	Licence reissue
L6748/1994/13	02/10/2014	Licence re-issue to REFIRE format
L6748/1994/13	19/03/2015	Occupier initiated licence amendment

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*;

'AHD' means the Australian height datum;

'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*;

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

'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:

Manager Licensing – Waste Industries (South A)
Department of Environment Regulation
Locked Bag 33
CLOISTERS SQUARE WA 6850
Telephone: (08) 9333 7510
Facsimile: (08) 9333 7550
Email: industry.regulation@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;

'cfu' means colony forming unit;

'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;

'hardstand' means a surface with a permeability of 10^{-9} metres/second or less;

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

'Licence' means this Licence numbered L6748/1994/13 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 4 inclusive periods from 1 July to 30 September, 1 October to 31 December, and in the following year, 1 January to 31 March and 1 April to 30 June;

'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; and

'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.

1.3 Premises operation

- 1.3.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit, and/or target 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 target	Specification
Sewage	Not applicable	3,000 m ³ /day	Accepted through sewer inflow(s) only

- 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
Sewage	Screening and Physical and biological treatment	Preliminary treatment: screenings to be stored in a sealed bin within a bunded hardstand area or a hard stand area which is graded to a collection drain which returns sludge leachate to the start of the treatment process. Secondary treatment: separates waste activated sludge from wastewater Treatment of sewage waste shall be targeted at or below the treatment capacity of 3000m ³ /day based on annual average flow.
	Sewage sludge and waste activated sludge Sludge treatment and storage	None specified



- 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
Inlet works (Spiral Sieve screen, manual bypass screen and screenings bin)	Screenings	Stored in a sealed bin which is surrounded by a bunded hardstand area which returns sludge leachate to the start of the treatment process
Oxidation ditch 1, Bioselector tank	Wastewater	Impermeable receptacle or storage chamber
Two clarifiers	Wastewater	Impermeable receptacle or storage chamber
Three evaporation/ infiltration ponds and two old ponds	Treated wastewater	Unlined
Sludge treatment tanks (DAFT, DAFT sludge collection tank, Sludge storage tank)	Sewage sludge	Impermeable receptacle or storage chamber
Odour scrubber sump and odour scrubber	Wastewater	Impermeable receptacle or storage chamber
Sewage sludge compound (Thickened sludge)	Sewage sludge	Impermeable receptacle or storage chamber

- 1.3.5 The Licensee shall manage all wastewater treatment, storage and infiltration ponds such that:
- (a) overtopping of the ponds does not occur; and
 - (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) excessive vegetation and floating debris (emergent or otherwise) are prevented from growing or accumulating in the ponds and containment compounds.
- 1.3.6 The Licensee shall:
- (a) implement security measures at the site to prevent as far as is practical unauthorised access to the site;
 - (b) undertake regular inspections of all security measures and repair damage as soon as practicable; and
 - (c) ensure the entrance gates are locked when the site is closed or unmanned.



2 Emissions

2.1 General

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

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

There are no specified conditions relating to point source emissions to air, surface water and groundwater in this section.

2.5 Emissions to land

- 2.5.1 The Licensee shall ensure that where waste is emitted to land from the emission points in Table 2.5.1 it is done so in accordance with the conditions of this Licence.

Table 2.5.1: Emissions to land			
Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement
Infiltration ponds 1-3	As depicted in the premises map	Infiltration of treated wastewater	Treated wastewater pumped from clarifier 1 and clarifier 2

2.6 Fugitive emissions

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

2.7 Odour

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

2.8 Noise

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



3 Monitoring

3.1 General monitoring

3.1.1 The licensee shall ensure that:

- all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
- all groundwater sampling is conducted in accordance with AS/NZS 5667.11;
- all microbiological samples are collected and preserved in accordance with AS/NZS 2031; and
- 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].

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

There are no specified conditions relating to monitoring of point source emissions to air, surface water and groundwater in this section.

3.5 Monitoring of emissions to land

3.5.1 The Licensee shall undertake the monitoring in Table 3.5.1 according to the specifications in that table.

Table 3.5.1: Monitoring of emissions to land

Emission point reference	Monitoring point reference and location	Parameter	Units	Averaging Period	Frequency
Clarifier1 and clarifier 2	None specified	Volumetric flow rate (cumulative)	L/s m ³ /day	Monthly	Continuous
	Sampling point S3 depicted on the schematic of the WWTP	pH ¹		Spot Sample or composite sample	Quarterly
		Biochemical Oxygen Demand	mg/L		
		Total Dissolved Solids			
		Total Suspended Solids			
		Oxidised nitrogen (nitrate and nitrite nitrogen)			
		Ammonium-nitrogen			
		Total Nitrogen			
		Total Phosphorus			
		Escherichia coli			

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

Note 2: Actual units are to be reported except where the result is greater than the highest detectable level of 24,000 cfu/100mL. In this case the reporting of the highest detectable level is permitted.



3.6 Monitoring of inputs and outputs

3.6.1 The Licensee shall undertake the monitoring in Table 3.6.1 according to the specifications in that table.

Table 3.6.1: Monitoring of inputs and outputs					
Input/Output	Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
Sewage - Inlet Flow	Inflow meter (M1)	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous
Treated wastewater discharged to on-site infiltration ponds		Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous

Note1: Monthly monitoring is undertaken at least 15 days apart

3.7 Process monitoring

There are no specified conditions relating to process monitoring.

3.8 Ambient environmental quality monitoring

3.8.1 The Licensee shall undertake the monitoring in Table 3.8.1 according to the specifications in that table.

Table 3.8.1: Monitoring of ambient groundwater quality				
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
Monitoring bores as shown on the Map in Schedule 1: MB1, MB1a, MB2, MB2a, MB3, MB3a, MB4, MB4a, MB2/02 and MB4/02	Standing Water Level (SWL)	m (AHD) mBGL	Spot or composite sample	Quarterly
	pH ¹			
	Total Dissolved Solids	mg/L		
	Total Nitrogen			
	Total phosphorus			

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

3.9 Meteorological monitoring

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

4 Improvements

There are no specified improvement conditions in this section.



5 Information

5.1 Records

- 5.1.1 All information and records required by the Licence shall:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) except for records listed in 5.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
 - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 5.1.2 The Licensee shall ensure that:
- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
 - (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.
- 5.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.
- 5.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

5.2 Reporting

- 5.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 62 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual Environmental Report

Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment 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 or limit exceedances and any action taken.	None specified
1.3.5	Summary of any freeboard target exceedances and any action taken.	None specified
Table 3.5.1	Monitoring of emissions to land	None specified
	Methodology and calculations used to estimate the daily volumetric flow rate of treated wastewater pumped to evaporation basins and results of those calculations.	
Table 3.6.1	Monitoring of inputs and outputs	None specified
	Methodology and calculations used to estimate the daily volumetric flow rate of treated wastewater pumped to evaporation basins and results of those calculations.	
Table 3.8.1	Monitoring of ambient groundwater quality	None specified
5.1.3	Compliance	Annual Audit Compliance Report (AACR)
5.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2



- 5.2.2 The Licensee shall ensure that the Annual Environmental Report also contains an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.
- 5.2.3 The Licensee shall submit the information in Table 5.2.2 to the CEO at the Contact Address according to the specifications in that table.

Table 5.2.2: Non-annual reporting requirements

Condition or table (if relevant)	Parameter	Reporting period	Reporting date	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

5.3 Notification

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

Table 5.3.1: Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
-	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
-	Removal of sewage sludge from a treatment pond, wastewater treatment vessel, sewage sludge storage pond	No less than 14 days in advance of works	
Table 1.3.1	Breach of any target specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next working day Part B: As soon as practicable	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution		

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

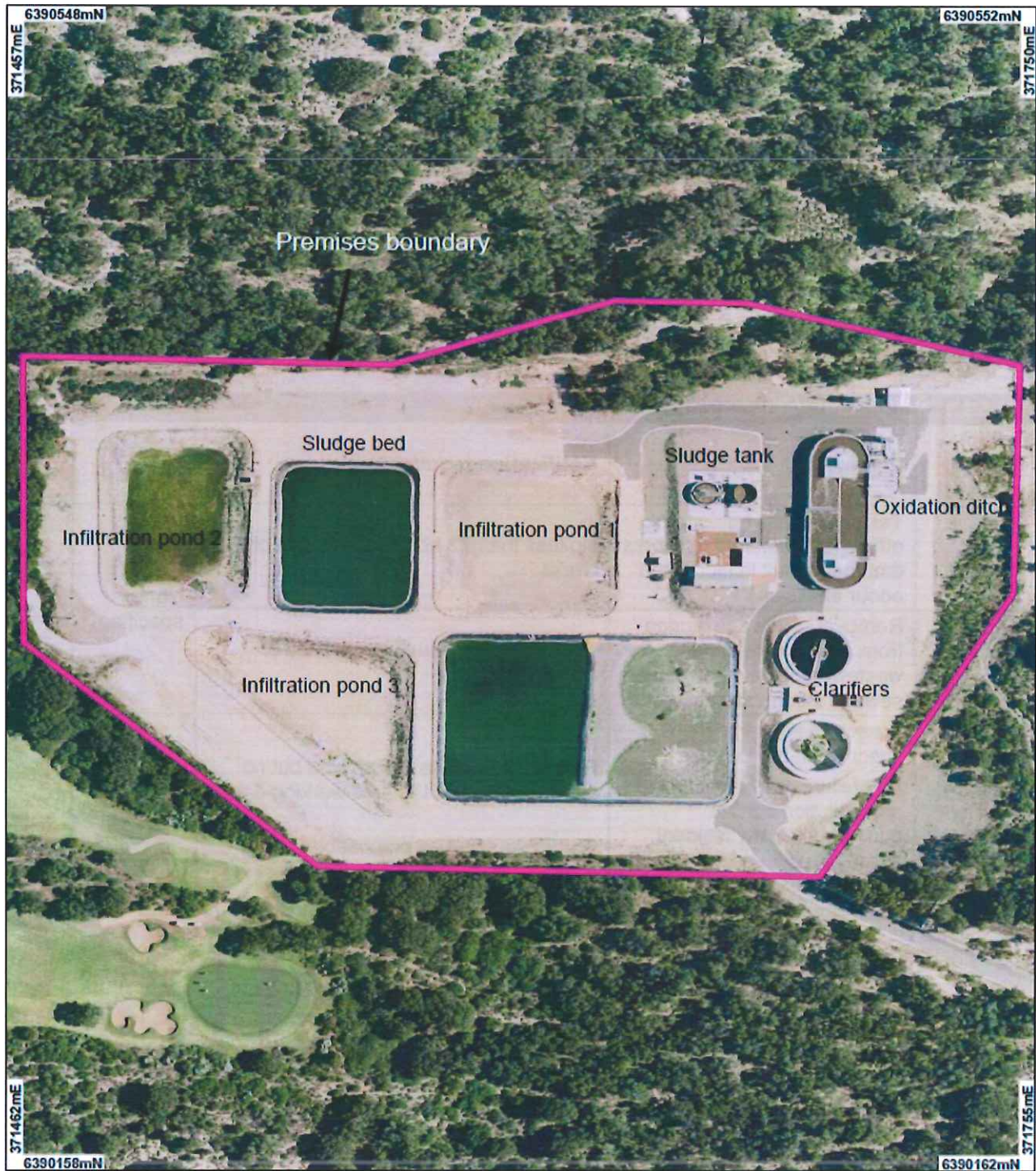
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

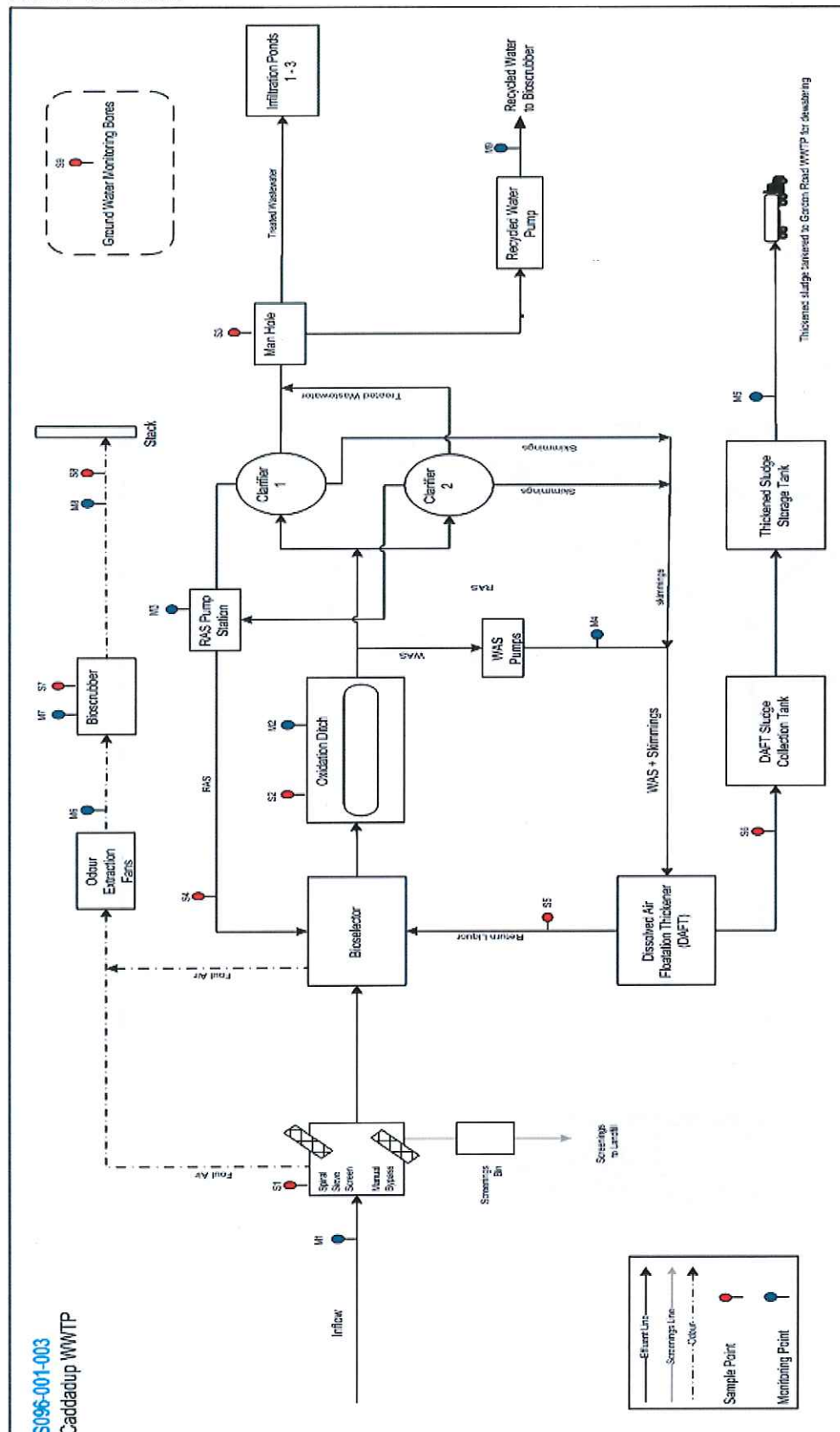
The Premises is shown in the map below. The pink line depicts the Premises boundary.





Map of emission points

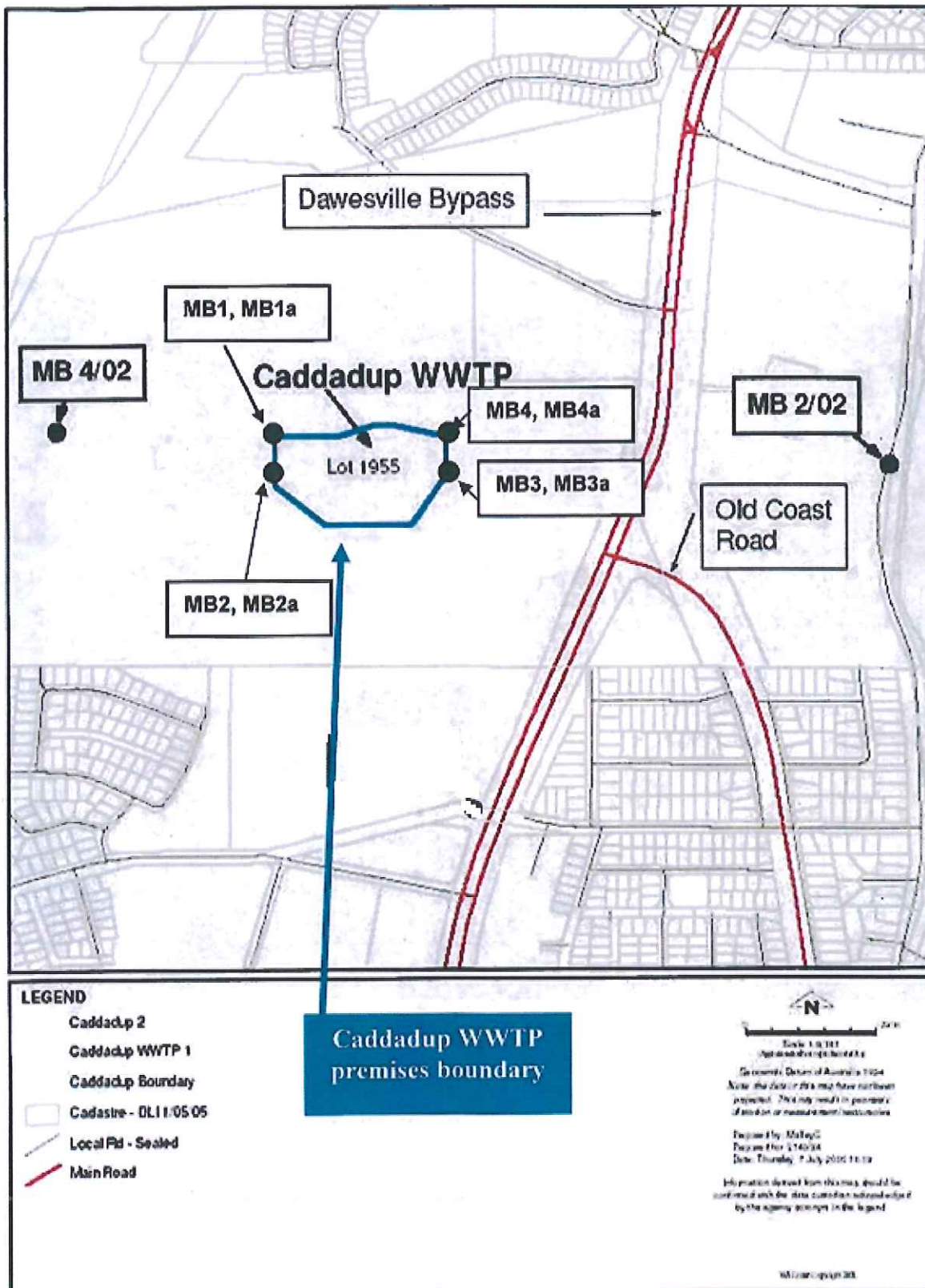
The locations of the emission point defined in Table 3.5.1 are shown on the schematic of the Caddadup WWTP as below:





Map of monitoring locations

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





Schedule 2: Reporting & notification forms

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

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A

LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

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

Yes ☐ Please proceed to Section C

No ☐ Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



SECTION B

DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

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

a) Licence condition not complied with:	
b) Date(s) when the non-compliance occurred, if applicable:	
c) Was this non-compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____ <input type="checkbox"/> Reported to DER in writing 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 initialled by the person(s) who signs Section C of this AACR

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

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

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

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <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: _____

NAME:
(printed) _____

POSITION: _____

DATE: ____/____/____

SEAL (if signing under seal)

SIGNATURE: _____

NAME:
(printed) _____

POSITION: _____

DATE: ____/____/____



Licence: L6748/1994/13
Form: 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	
Location of Premises	
Time and date of the detection	

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

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



Part B

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

Name	
Post	
Signature on behalf of Water Corporation	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Water Corporation

Licence: L6748/1994/13

Registered office: 629 Newcastle Street
LEEDERVILLE WA 6007

Premises address: Caddadup Wastewater Treatment Plant
1000 Old Coast Road
DAWESVILLE WA 6211
Being Lot 1955 on Plan 192450 (Crown Reserve 44270) as depicted in
Schedule 1.

Issue date: Thursday, 2 October 2014

Commencement date: Sunday, 12 October 2014

Expiry date: Friday, 11 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:

Lauren Fox
Licensing Officer

Decision Document authorised by:

Rebecca Kelly
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.

Works approval and licence conditions

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

Standard conditions (SC)

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

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

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

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

Optional standard conditions (OSC)

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

Non-standard conditions (NSC)

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



2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	54	Not more than 3,000 cubic metres per day
Application verified	Date: N/A	
Application fee paid	Date: N/A	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome	N/A	
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	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, e.g. Site is subject to SO ₂ requirements of Kwinana EPP.		



3 Executive summary of proposal and assessment

Water Corporation has operated the Caddadup Wastewater Treatment Plant (WWTP) under the *Environmental Protection Act 1986* Licence L6748/1994/12. The WWTP is located just off the Old Coast Road in Dawesville. The plant was established in 1994 and upgraded in 2008. The closest residential receptors are located 400m to the southwest and 500m to the southeast of the premises. It is worth noting that the Dawesville Channel is located approximately 2km north of the plant and the Peel Harvey Inlet is located 800m east of the plant. Both are popular locations for fishing and boating activities.

The Caddadup WWTP is designed to treat up to 3000 m³ per day. The average daily inflow to the plant for the 2012/13 reporting period was 1,326.95 m³/day.

The operations at the Caddadup Wastewater Treatment Plant include the treatment of sewage to a secondary standard and the on-site infiltration of treated wastewater via infiltration ponds. Plant infrastructure consists of:

- inlet works and preliminary treatment to remove coarse material from sewage;
- activated sludge process which includes one oxidation ditch;
- sludge handling facility;
- two secondary clarifiers;
- DAFT tank;
- three infiltration ponds;
- two old wastewater ponds; and
- odour control facility.

The main potential emissions from the site are discharges of treated wastewater via infiltration to land (and potentially to groundwater) and fugitive emissions in the form of odour. Depth to groundwater at this site varies from 2.0m to 15.6m. Beneath the site is the superficial Swan Aquifer which is underlain by the Leederville Aquifer which is in turn underlain by the Yarragadee Aquifer.

Discharges of treated wastewater to land are managed by treating wastewater to a defined water quality level and undertaking compliance monitoring prior to discharge.

Odour emissions are managed by the odour control facility and ongoing maintenance of the facility. Given the buffer of 400m and 500m from sensitive receptors, odour emissions are considered low risk.

This licence was converted into the standardised REFIRE (Re-Engineering for Industry Regulation and the Environment) licence format during the re-issue in October 2014. This amendment has been requested by the proponent to make minor changes to:

- The definition of 'quarterly' to match with reporting period;
- The removal of Form ET1 (Schedule 2) as it is not referenced in the licence;
- Removing reference to groundwater monitoring bores MB 1/02 and MB 3/02 in condition 3.8.1 and removing the location of these bores from the groundwater bore location map in Schedule 1; and
- Removing reference to Form AGWQ1 in Table 5.2.1 and removing the form from Schedule 2 as agreed between DER and the Water Corporation.

DER has not reassessed the acceptability or impacts of emissions and discharges from the premises or re-visited any existing emission control levels during this amendment.



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 TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Ambient quality monitoring	L3.8.1	OSC	The proponent has requested that Table 3.8.1 of OSC 3.8.1 is amended to remove reference to monitoring bores MB 1/02 and MB 3/02. Bore 1/02 is currently buried and not operational. Bore 3/02 is on private property which restricts access. These bores have not been used for many years and were removed from the previous licence (L6748/1994/12) in 2011. During the REFIRE conversion process, a map was provided which included an out-dated reference to the location of these bores which were thought to be inclusive of the current sampling regime. The occupier identified that these had been incorrectly included on the licence and requested the amendment to remove these. There are 11 active bores which are used for groundwater sampling. Given the location and number of bores around the premises, these are sufficient at monitoring groundwater at and surrounding the premises. References to these bores have been removed from the licence.	Application supporting documentation
Information	L5.2.1	SC	OSC 5.2.1 has been amended to change the due date of the report from 60 calendar days to 62 calendar days. The majority of Water Corporation licences are due on 1 September so this due date has been amended as requested by the occupier for consistency with other licences. Table 5.2.1 of this condition has been amended to remove reference to Form AGWQ1. This form has been removed from schedule 2 of the licence. The proponent provides DER with all the information required under this form but have their own tabular format for providing this data. As agreed between DER and the Water Corporation, the proponent can continue to provide data under their own reporting format and are not required to submit data in Form AGWQ1. Reference to form ET1 has been removed from Schedule 2 as it is not referenced in the licence.	Application supporting documentation



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
26/02/2015	Proponent sent a copy of draft instrument through 21 day package	The occupier requested that condition 5.2.1 be amended so that the annual report is due within 62 calendar days (instead of 60 as previously stated) to be consistent with other licence due dates of 1 September.	Condition 5.2.1 amended to 62 calendar days.



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