



Licence number	L5400/1992/12
Licence holder	Water Corporation
ACN	634 169 841
Registered business address	John Tonkin Water Centre 629 Newcastle Street Leederville WA 6007
DWER file number	2010/006288-1
Duration	1/11/2015 to 31/10/2025
Date of amendment	31/07/2023
Premises details	Warooka Wastewater Treatment Plant 22 Drake Road WAROOKA WA 6215 Legal description - Lot 22 and Lot 305 on Plan 223194 As depicted in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 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	240 m ³ per day

This licence is granted to the licence holder, subject to the attached conditions, on 31 July 2023, by:

Grace Campbell
**A/Senior Environmental Officer, Industry Regulation
Regulatory Services**

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of change
01/10/2000	L5400/1992/4	Licence re-issue
01/20/2001	L5400/1992/5	Licence re-issue
23/10/2002	L5400/1992/6	Licence re-issue
06/10/2003	L5400/1992/7	Licence re-issue
27/05/2004	L5400/1992/8	Licence re-issue
1/11/2004	L5400/1992/9	Licence re-issue
17/10/2005	L5400/1992/10	Licence re-issue
28/10/2010	L5400/1992/11	Licence re-issue
5/06/2013	W5433/2013/1	Works approval for construction of discharge swale
15/10/2015	L5400/1992/12	Licence re-issue and update to new licence format
29/04/2016	L5400/1992/12	Notice of amendment of Licence expiry dates.
31/07/2023	L5400/1992/12	Licence amendment to the submission date for the Environmental Report and Annual Audit Compliance Report.

Interpretation

In this licence:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

Premises operations

1. The Licence holder must manage the wastewater treatment ponds in a manner such that:
 - (a) uncontaminated stormwater runoff must not enter the wastewater treatment pond(s);
 - (b) overtopping of the wastewater treatment ponds does not occur;
 - (c) there is no discernible seepage loss from the ponds;
 - (d) infrastructure is in place to prevent carry over of surface floating matter between ponds; and
 - (e) vegetation (emergent or otherwise) and floating debris must be prevented from encroaching onto the pond surfaces and inner pond embankments.
2. The Licence holder must dispose of sewage sludge and biosolids in accordance with the Biosolids guidelines.
3. Where sewage sludge is temporarily stored on-site, the Licence holder must direct sewage sludge to a hardstand area or hardstand drying bed which:
 - (a) is adequately bunded to prevent surface runoff of leachate or sludge from crossing the boundary of the premises; and
 - (b) returns sludge leachate from the storage area back to the treatment ponds.
4. The Licence holder must store environmentally hazardous chemicals, including alum and hypochlorite, where the total volume of each substance stored on the premises exceeds 250 litres, within bunded areas in accordance with AS 3780.
5. The Licence holder must ensure that perimeter valves on bunded areas mentioned in condition 4 are locked or otherwise secured in the closed position whilst the site is unattended.

Emissions

6. The Licence holder must ensure that where waste is emitted to surface water from the emission points in Table 1 it is done so in accordance with the conditions of this Licence.

Table 1: Emissions to surface water

Emission point reference	Description	Source including abatement
Boundary discharge point 1	Treated wastewater discharge from the woodlot to Drakesbrook Drain	Wastewater that has been treated through the wastewater treatment ponds and the woodlot
Boundary discharge point 2	Treated wastewater discharge from the clay lined swale to Drakesbrook Drain	Wastewater that has been treated through the wastewater treatment ponds and the clay lined swale

7. The Licence holder must not cause or allow point source emissions to surface water greater than the limits listed in Table 2.

Table 2: Emission limits to surface water

Emission point reference	Parameter	Limit (including units)	Application of limit
Boundary discharge point 1	Total Phosphorus	5 mg/L	Limit must be achieved in 3 out of every four consecutive spot samples
Boundary discharge point 2			

8. The Licence holder must ensure that where waste is emitted to land from the emission points in Table 3 it is done so in accordance with the conditions of this Licence.

Table 3: Emissions to land

Emission point reference	Description	Source including abatement
Woodlot	Treated wastewater discharged to the woodlot, authorised only as a contingency measure and/or if the clay lined swale is temporarily offline for maintenance or repair work	Wastewater that has been treated through the wastewater treatment ponds and is discharged to the woodlot via the pond discharge point, where: <ul style="list-style-type: none"> (a) the channel to the woodlot is graded to maximise the even distribution of treated wastewater along the disposal area; (b) vegetation located within the woodlot is maintained to facilitate the uptake of nutrients and water; and (c) the channel to the woodlot is clear of excessive sludge build-up.

Monitoring

9. The Licence holder must 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 surface water sampling is conducted in accordance with AS/NZS 5667.4, AS/NZS 5667.6 or AS/NZS 5667.9 as relevant;
 - (d) all microbiological samples are collected and preserved in accordance with AS/NZS 2031;
 - (e) 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.
10. The Licence holder must ensure that monthly monitoring is undertaken at least 15 days apart.
11. The Licence holder must ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.

12. The Licence holder must undertake the monitoring in Table 4 according to the specifications in that table.

Table 4: Monitoring of emissions to surface water

Emission point reference	Parameter	Units	Averaging period	Frequency
Boundary discharge point 1	Total Phosphorus	mg/L and kg/day	Spot sample	Monthly, when discharge to woodlot is occurring
Pond discharge point	Total volume discharged to clay lined swale	m ³	Monthly and cumulative	Continuous
Boundary discharge point 2	pH ¹	pH units	Spot sample	Monthly, when discharge to Drakesbrook Drain is occurring
	Total suspended solids	mg/L and kg/day		
	Total dissolved solids			
	Biochemical oxygen demand			
	Total Phosphorus			
	Total Nitrogen			
	Oxidised nitrogen (nitrate + nitrite-nitrogen)			
	Ammonium-nitrogen			
	Total aluminium			
	<i>E.coli</i>			

Note 1: In-field non NATA analysis permitted

13. The Licence holder must undertake the monitoring in Table 5 according to the specifications in that table.

Table 5: Monitoring of emissions to land

Emission point reference	Parameter	Units	Averaging period	Frequency
Pond discharge point	Total volume discharged to woodlot	m ³	Monthly and cumulative	Continuous
	pH ¹	pH units	Spot sample	Monthly, when discharge to woodlot is occurring
	Total suspended solids	mg/L and kg/day		
	Total dissolved solids			
	Biochemical oxygen demand			
	Total Phosphorus			
	Total Nitrogen			
	Oxidised nitrogen (nitrate + nitrite-nitrogen)			
	Ammonium-nitrogen			
	Total aluminium			
	<i>E.coli</i>			

Note 1: In-field non NATA analysis permitted

14. The Licence holder must undertake the monitoring in Table 6 according to the specifications in that table.

Table 6: Monitoring of inputs and outputs

Input/Output	Parameter	Units	Averaging period	Frequency
Raw wastewater inflows	Volume	m ³ /day	Monthly	Continuous

Records and reporting

15. All information and records required by the Licence must:
- be legible;
 - if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - except for records listed in condition 15(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
 - for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - off-site environmental effects; or

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

- 16.** The Licence holder must:
- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
 - (b) prepare and submit to the CEO an Annual Audit Compliance Report in the approved form by 1 October each year.
- 17.** The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:
- (a) the name and contact details of the complainant, (if provided);
 - (b) the time and date of the complaint;
 - (c) the complete details of the complaint and any other concerns or other issues raised; and
 - (d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.
- 18.** The licence holder must:
- (a) prepare an environmental report that provides information in accordance with Table 7 for the preceding annual period, and
 - (b) submit the environmental report to the CEO by 1 October each year.

Table 7: Environmental Reporting requirements

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
12	Monitoring of emissions to surface water for the annual period	
13	Monitoring of emissions to land for the annual period	
14	Monitoring of inputs and outputs for the annual period	
16	Compliance	Annual Audit Compliance Report (AACR)
17	Complaints	None specified

Note 1: Forms are on the Department's website

- 19.** The Licence holder must ensure that the Environmental Report also contains an assessment of the information contained within the report against previous monitoring results and Licence limits.

20. The Licence holder must ensure that the parameters listed in Table 8 are notified to the CEO in accordance with the notification requirements of the table.

Table 8 Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
6	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
9	Treated wastewater being discharged to the woodlot (authorised only as a contingency measure and/or if the clay lined swale is temporarily offline for maintenance or repair work)	No less than 14 days prior	Proposed date, duration and reason for discharge
N/A	Taking any equipment offline for maintenance works that may result in an increase in odour emissions from the premises	No less than 24 hours prior	Proposed date, duration and details of works
	Taking any treatment pond offline for maintenance works		
N/A	The removal of sewage sludge from any on-site treatment pond	No less than 14 days prior	Proposed date, duration and details of works, including fate of sludge

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

Note 2: Forms are available on the Department's website. N1 form is in Schedule 2.

Definitions

In this licence, the terms in Table 9 have the meanings defined.

Table 9: Definitions

Term	Definition
ACN	Australian Company Number
AHD	means the Australian height datum
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
approved form	means the Annual Audit Compliance Report (AACR) form template approved by the CEO for use and available via DWER's external website.
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
AS/NZS 2031	means the Australian Standard AS/NZS 2031 Selection of containers and preservation of water samples for microbiological analysis;
AS 3780	means the Australian Standard AS 3780-2008 The storage and handling of corrosive substances;
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 Wafer Quality — Sampling — Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples;
AS/NZS 5667.4	means the Australian Standard AS/NZS 5667.4 Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made;
AS/NZS 5667.6	means the Australian Standard AS/NZS 5667.6 Water Quality – Sampling – Guidance on sampling of rivers and streams;
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
books	has the same meaning given to that term under the EP Act.
Biosolids guidelines	means the document Western Australian Guidelines for Biosolids Management, Department of Environment and Conservation, December 2012 (as amended from time to time)
boundary discharge point 1	means the point where surface water leaves the Premises from the woodlot, as labelled 'Boundary discharge point 1' on the Premises Map in Schedule 1

Term	Definition
boundary discharge point 2	means the point where surface water leaves the Premises from the clay lined swale, as labelled 'Boundary discharge point 2' on the Premises Map in Schedule 1
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the Environmental Protection Act 1986 Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
Department	means the department established under section 35 of the Public Sector Management Act 1994 (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
EP Act	Environmental Protection Act 1986 (WA)
EP Regulations	Environmental Protection Regulations 1987 (WA)
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	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
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;
pond discharge point	means the point where treated wastewater is discharged from the final wastewater treatment pond to the clay lined swale or the woodlot, as labelled 'pond discharge point' on the Premises Map in Schedule 1;
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1)

Term	Definition
	in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
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;
usual working day	means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.
wastewater treatment ponds	means the three ponds utilised to treat wastewater on the Premises, as labelled 'Wastewater treatment ponds' on the Premises Map in Schedule 1;
woodlot	means the area of planted Eucalyptus globulus on the Premises, as labelled 'Woodlot' on the Premises Map in Schedule 1, which is utilised to discharge treated wastewater as a contingency measure and/or if the clay lined swale is temporarily offline for maintenance or repair work; and

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

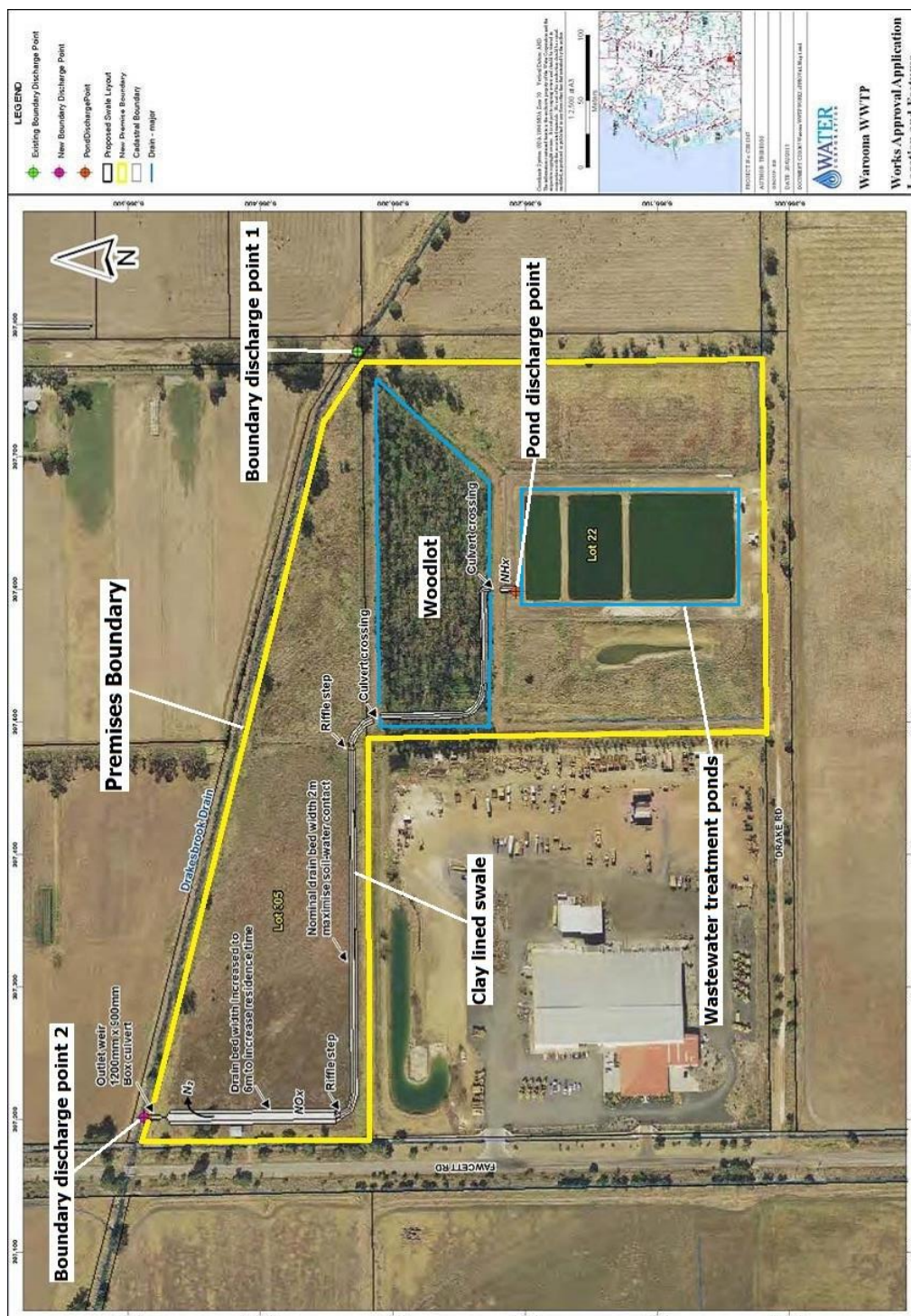


Figure 1: Premises overview

Schedule 2: Forms

Licence: L5400/1992/12 Licence holder: Water Coporation

Form: N1 Date of breach:

Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.

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

Part A

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

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

Part B

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

Name	
Post	
Signature of behalf of Water Corporation	
Date	