



Licence number	L5950/1991/11
Licence holder	Water Corporation
ACN	634 169 841
Registered business address	John Tonkin Water Centre 629 Newcastle Street LEEDERVILLE WA 6007
DWER file number	DER2017/001506-1
Duration	01/11/2015 to 31/10/2032
Date of issue	22/10/2015
Date of amendment	26/06/2023
Premises details	Gordon Road (Mandurah No. 1) Water Resource Recovery Facility 2 Corsican Place 500 Gordon Road PARKLANDS WA 6180 Legal description - Being Lot 109 on Deposited Plan 73737 and Lot 500 on Plan 44788 As defined by the premises map in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design 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.	12,000 m ³ per day

This licence is granted to the licence holder, subject to the attached conditions, on 26 June 2023, by:

Sarah Cross

A/SENIOR ENVIRONMENTAL OFFICER

INDUSTRY REGULATION

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

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Licence history

Date	Reference number	Summary of changes
11/10/2000	L5950/1991/4	Licence re-issue
14/10/2001	L5950/1991/5	Licence re-issue
23/10/2002	L5950/1991/6	Licence re-issue
15/10/2003	L5950/1991/7	Licence re-issue
01/10/2005	L5950/1991/8	Licence re-issue
01/11/2005	L5950/1991/9	Licence re-issue
01/11/2010	L5950/1991/10	Licence re-issue
01/11/2015	L5950/1991/11	Licence re-issue and update to latest format
29/04/2016	L5950/1991/11	Notice of Amendment of Licence expiry dates. Licence expiry date amended to 31/10/2032.
26/06/2023	L5950/1991/11	Licence amendment to alter the reporting date for the Annual Audit Compliance Report (AACR) and the Environmental Report to 1 October annually, and to alter the premises name.

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 operation

1. The licence holder must ensure that:
 - (a) overtopping of the sludge drying beds, wastewater treatment vessels or infiltration ponds does not occur;
 - (b) there is no seepage loss from the wastewater treatment vessels or sludge holding ponds; and
 - (c) vegetation is prevented from encroaching onto the surfaces and inner embankments of the sludge drying beds.
2. The licence holder must dispose of sewage sludge and biosolids in accordance with the WA biosolids guidelines.
3. Where sewage sludge is temporarily stored on the premises, the licence holder must direct it to a hardstand area or sludge drying bed which:
 - (a) is adequately bunded to prevent surface runoff of leachate or sludge from leaving the premises; and
 - (b) returns sludge leachate from the storage area back to the wastewater treatment vessels.

Emissions and discharges

Emissions to land

4. The licence holder must ensure that where waste is emitted to land from the emission points in Table 1 it is done so in accordance with the conditions of this licence.

Table 1: Emissions to land

Emission point reference	Description
Infiltration ponds	Treated wastewater discharge to the infiltration ponds

5. The licence holder must not cause or allow emissions to land greater than the limits listed in Table 2.

Table 2: Emission limits to land

Emission point reference	Parameter	Limit (including units)	Averaging period
Infiltration ponds	Total nitrogen	10 mg/L	Spot sample

Monitoring

General monitoring

6. 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 groundwater sampling is conducted in accordance with AS/NZS 5667.11;
 - (d) all microbiological samples are collected and preserved in accordance with AS/NZS 2031; and
 - (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.
7. The licence holder must ensure that:
 - (a) monthly monitoring is undertaken at least 15 days apart; and
 - (b) quarterly monitoring is undertaken at least 45 days apart.
8. The licence holder must operate, maintain and calibrate inflow and outflow meters, pH meters and groundwater monitoring bores 1/88, 3/88, 4/88, 1/97, 2/97, 3/97, 4/97, 1/98, 2/98, 3/98, 1/01, and the Production Bore (Schedule 1) to the manufacturer's or installation specifications.

Monitoring of emissions to land

9. The licence holder must undertake the monitoring in Table 3 according to the specifications in that table.

Table 3: Monitoring of emissions to land

Emission point reference	Parameter	Units	Averaging period	Frequency
Discharge to infiltration ponds	pH ¹	pH units	Spot sample	Monthly
	Total suspended solids	mg/L and kg/day ²		
	Total dissolved solids			
	Biochemical oxygen demand			
	Total Phosphorus			
	Total Nitrogen			
	Nitrate + nitrite-nitrogen			
	Ammonium-nitrogen			
	<i>E. coli</i>	cfu/100mL		

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

Note 2: Inflow data is permitted to be used in the calculation of loading data.

Monitoring of inputs and outputs

10. The licence holder must undertake the monitoring in Table 4 according to the specifications in that table.

Table 4: Monitoring of inputs and outputs

Input / output	Parameter	Units	Averaging period	Frequency
Raw wastewater inflows	Volume	m ³ /day	Monthly weighted average	Continuous
		m ³	Monthly and cumulative	Continuous
Treated wastewater to infiltration ponds ¹	Volume	m ³	Monthly and cumulative	Continuous

Note 1: Calculation using inflow data is permitted.

Ambient environmental quality monitoring

11. The licence holder must undertake the monitoring in Table 5 according to the specifications in that table and record and investigate results that do not meet any limit specified.

Table 5: Monitoring of ambient groundwater quality

Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
Groundwater monitoring bores 1/88, 3/88, 4/88, 1/97, 2/97, 3/97, 4/97, 1/98 , 2/98 , 3/98, 1/01, and the Production Bore as shown on the Map of monitoring bores in Schedule 1	Standing water level	m(AHD) and m(BGL)	Spot sample	Quarterly
	pH ¹	pH units		
	<i>E. coli</i>	Colony forming units per 100mL		
	Total dissolved solids	mg/L		
	Total nitrogen			
	Nitrate + nitrite-nitrogen			
	Ammonium-nitrogen			
	Total Phosphorous			

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

Records and reporting

12. All information and records required by the licence must:
 - (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 12(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.
13. 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.
14. The licence holder must 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.
15. The licence holder must:
 - (a) prepare an environmental report that provides information in accordance with Table 6 for the preceding annual period, and
 - (b) submit the environmental report to the CEO by 1 October each year.

Table 6: Environmental reporting requirements

Condition (if relevant)	Requirement 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
-	Volumes of groundwater abstracted by the City of Mandurah for reuse
Condition 9	Monitoring of emissions to land for the annual period
Condition 10	Monitoring of inputs and outputs for the annual period
Condition 11	Ambient environmental quality monitoring for the annual period
Condition 14	Compliance
Condition 15	Complaints summary

Note 1: Forms are available on the Department's website.

16. The licence holder must ensure that the Environmental Report also contains an assessment of the information contained within the report against all previous monitoring results and licence limits.
17. The licence holder must ensure that the parameters listed in Table 7 are notified to the CEO in accordance with the notification requirements of the table.

Table 7: Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
Table 1	Breach of any limit specified in the licence	Part A: As soon as practicable but no later than 5pm of the next usual working day Part B: As soon as practicable	N1
N/A	Taking any equipment or treatment pond 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.	None specified

Note 1: Notification requirements in the licence must not negate the requirement to comply with s72 of the Act.

Note 2: Forms are in Schedule 2.

Definitions

In this licence, the terms in Table 8 have the meanings defined.

Table 8: Definitions

Term	Definition
AHD	means the Australian height datum.
ACN	Australian Company Number
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).
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
approved form	means the Annual Audit Compliance Report (AACR) form template approved by the CEO for use and available via DWER's external website.
AS/NZS 2031	means the Australian Standard AS/NZS 2031 <i>Selection of containers and preservation of water samples for microbiological analysis</i> .
AS 3780	means the Australian Standard AS 3780-2008 <i>The storage and handling of corrosive substances</i> .
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples</i> .
AS/NZS 5667.4	means the Australian Standard AS/NZS 5667.4 <i>Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made</i> .
AS/NZS 5667.6	means the Australian Standard AS/NZS 5667.6 <i>Water Quality – Sampling – Guidance on sampling of rivers and streams</i> .
AS/NZS 5667.10	means the Australian Standard AS/NZS 5667.10 <i>Water Quality – Sampling – Guidance on sampling of waste waters</i> .
averaging period	means the time over which a limit is measured or a monitoring result is obtained.
BGL	means below ground level.

Term	Definition
CEO	means Chief Executive Officer of the Department. “submit to / notify the CEO” (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
condition	a condition to which the licence is subject under section 62 of the <i>Environmental Protection Act 1986</i>
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (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	<i>Environmental Protection Act 1986</i> (WA).
hardstand	means a surface with a permeability of 10^{-9} metres/second or less.
infiltration ponds	means the ponds on the premises designated for the disposal of treated wastewater by infiltration into the ground, as labelled ‘Infiltration ponds’ on the premises map in Schedule 1.
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.
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) in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.

Term	Definition
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.
sludge drying beds	means the lined beds on the premises designated for the storage and dewatering of sewage sludge (if required), as labelled 'Sludge drying beds' on the premises map in Schedule 1.
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.
WA biosolids guidelines	means the document <i>Western Australian Guidelines for Biosolids Management</i> , Department of Environment and Conservation, December 2012 (as amended from time to time).
waste	has the same meaning given to that term under the EP Act.
wastewater treatment vessels	means the vessels on the premises which hold and treat wastewater, including (but not limited to) the clarifiers and oxidation ditches as shown on the premises map in Schedule 1, and any associated pipe work.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The premises is shown in the map below (Figure 1). The pink line depicts the premises boundary.



Figure 1: Map of the prescribed premises boundary

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IR-T06 Licence template (v8.0) (September 2022)

Map of monitoring bores

The locations of the monitoring bores defined in Table 5 are shown below (Figure 2).



Figure 2: Monitoring bore locations

Schedule 2: N1 Form

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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	