



Licence number	L6008/1992/15
Licence Holder	Water Corporation
ABN	28 003 434 917
Registered business address	629 Newcastle Street LEEDERVILLE WA 6007
DWER file number	2011/005015-1~3
Duration	01/11/2021 to 31/10/2041
Date of issue	27/10/2021
Premises details	Manjimup Water Resource Recovery Facility Lot 13196 on Plan 182966, Booth Road DINGUP WA 6258; and Pozzi Road Woodlot Lot 6 on Diagram 94611, Pozzi Road DINGUP WA 6258

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed design capacity
Category 54: Sewage Facility	1,200 cubic metres per day

This licence is granted to the Licence Holder, subject to the attached conditions, on 27 October 2021, by:

Jane Dalin
Senior Environmental Officer
INDUSTRY REGULATION
*Officer delegated under section 20
of the Environmental Protection Act 1986*

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:

Infrastructure and equipment

- The Licence Holder must ensure that the site infrastructure and equipment listed in Table 1 is maintained and operated in accordance with the corresponding operational requirements set out in Table 1.

Table 1: Infrastructure and equipment requirements

Location	Site infrastructure and equipment	Operational requirement
Manjimup Wastewater Treatment Plant	Sludge drying bed	The Licence Holder shall manage the wastewater storage pond such that: <ol style="list-style-type: none"> uncontaminated stormwater shall not enter the wastewater storage pond or cause the erosion of outer pond embankments; a minimum freeboard of 300mm is maintained; and there is no discernible seepage loss from the outer pond embankments.
	Aerated pond 0A	
	Primary pond 1A	
	Secondary pond 2A	
	Aerated primary pond 1B	
	Secondary pond 2B	
	Tertiary pond	
	Bore 6/00	The Licence Holder shall maintain monitoring bores designated 1/00, 2/00, 3/00, 5/00 and 6/00, at the locations depicted in Schedule 1, to allow representative water samples to be collected.
	Bore 5/00	
	Bore 3/00	
Bore 2/00		
Bore 1/00		
Pozzi Road Irrigation Woodlot	Storage Dam	The Licence Holder shall manage the wastewater storage pond such that: <ol style="list-style-type: none"> uncontaminated stormwater shall not enter the wastewater storage pond or cause the erosion of outer pond embankments; a minimum freeboard of 300mm is maintained; and there is no discernible seepage loss from the outer pond embankments.
	Pump Station	Maintain in working order
	Final Sampling Point S8002951	Maintain in working order
	Bore MB01	The Licence Holder shall maintain the Pozzi Road Woodlot monitoring bores designated MB01, MB02, MB05, MB06 and 06/18 at the locations depicted in
	Bore MB02	

Location	Site infrastructure and equipment	Operational requirement
	Bore MB05	Schedule 2, to allow representative water samples to be collected.
	Bore MB06	
	Bore 6/18	

2. The Licence Holder shall manage the wastewater treatment ponds such that:
 - (a) uncontaminated stormwater runoff resulting from roof and site drainage shall be prevented from entering the wastewater treatment ponds or causing erosion of outer pond embankments;
 - (b) overtopping of the ponds shall not occur except as a result of an extreme rainfall event [greater than a 1 in 10 year event of 72 hours duration];
 - (c) there is no discernible seepage loss from the treatment ponds;
 - (d) vegetation (emergent or otherwise) and debris shall be routinely removed from pond wastewaters or inner pond embankments; and
 - (e) trapped overflows shall be maintained on the discharge from all wastewater treatment ponds to prevent carry-over of surface floating matter to subsequent ponds.
3. The Licence Holder shall store environmentally hazardous chemicals including alum and hypochlorite (where the total volume of each substance stored on the premises exceeds 250 litres) in accordance with AS3780.
4. The Licence Holder shall ensure that perimeter valves on bunded areas are locked or otherwise secured in the closed position whilst the site is unattended.
5. The Licence Holder shall maintain metering devices capable of measuring the monthly cumulative volumes of treated wastewater discharged from the treatment plant to the storage dam at Pozzi Road and to the Manjimup Golf Course

Waste acceptance

6. The Licence Holder must only accept waste on to the premises if:
 - (a) it is of a type listed in Table 2;
 - (b) the quantity accepted is below any quantity limit listed in Table 2; and
 - (c) it meets any specification listed in Table 2.

Table 2: Waste acceptance

Waste type	Waste Code	Quantity Limit	Specification
Sewage	N/A	Up to 1200 m ³ per day	Accepted through sewer inflows via the inlet works.

7. The Licence Holder shall dispose of all treated wastewaters by irrigation such that;
 - (a) wastewater is evenly distributed over the irrigation area;
 - (b) soil erosion or ponding of wastewaters is minimised;
 - (c) a healthy vegetation cover is maintained over the irrigation areas;

- (d) no runoff or surface discharge occurs beyond the boundaries of the irrigation area;
 - (e) irrigation shall not occur within 50 metres of any defined watercourse or drain; and
 - (f) irrigation shall be minimised during periods of rainfall or onto flooded areas.
8. The Licence Holder shall not exceed the following nutrient application rates at the Pozzi Road irrigation woodlot:
- (a) 150 kilograms per irrigated hectare per annum of nitrogen; and
 - (b) 15 kilograms per irrigated hectare per annum of phosphorus.

Waste minimisation

9. The Licence Holder shall dispose of collected vegetation and floating debris from the treatment ponds to a licensed or registered landfill.
10. The Licence Holder shall:
- (a) inform the CEO prior to taking a treatment pond offline for maintenance works;
 - (b) inform the CEO no less than 14 days prior to the removal of sewage sludge from a treatment pond;
 - (c) where sewage sludge is temporarily stored on-site, direct sewage sludge to a hard-stand area or approved drying bed which;
 - (i) is adequately bunded to prevent surface runoff of leachate or sludge from crossing the boundary of the premises; and
 - (ii) where possible, return sludge leachate from the storage area back to the treatment ponds.
11. The Licence Holder shall dispose of sludge and biosolids in accordance with the document *Western Australian Guidelines for biosolids management*.

Emissions and discharges

12. The Licence Holder shall not discharge any treated or untreated wastewater:
- (a) to the Manjimup Brook; or
 - (b) from the Tertiary Pond spillway.
13. The Licence Holder shall dispose of all treated wastewaters by irrigation at the Pozzi Road irrigation woodlot such that;
- (a) wastewater is evenly distributed over the irrigation area;
 - (b) soil erosion or ponding of wastewaters is minimised;
 - (c) a healthy vegetation cover is maintained over the irrigation areas;
 - (d) no runoff or surface discharge occurs beyond the boundaries of the irrigation area;
 - (e) irrigation shall not occur within 50 metres of any defined watercourse or drain; and
 - (f) irrigation shall be minimised during periods of rainfall or onto flooded areas.
14. The Licence Holder shall not exceed the following nutrient application rates at the Pozzi Road irrigation woodlot:

- (a) 150 kilograms per irrigated hectare per annum of nitrogen; and
- (b) 15 kilograms per irrigated hectare per annum of phosphorus.

Monitoring

15. The Licence Holder must monitor emissions:
- (a) at the corresponding monitoring location;
 - (b) for the corresponding parameter;
 - (c) in the corresponding unit; and
 - (d) at the corresponding frequency as set out in Table 3.

Table 3: Emissions and discharges monitoring program

Monitoring location	Parameter	Units	Sampling frequency
Discharge from the final treatment pond.	pH	pH units	Monthly
	Total Suspended Solids Total Dissolved Solids (calculated from conductivity) 5-day Biochemical Oxygen Demand Total Nitrogen Ammonium-nitrogen Nitrate plus nitrite-nitrogen Total Phosphorus	mg/L	
	<i>E. coli</i>	cfu/100mL	
Groundwater monitoring bore MB01, MB02 MB05, MB06 & 06/18 (Schedule 2)	pH	pH units	Quarterly
	Total Dissolved Solids (calculated from conductivity) Total Nitrogen Ammonium-nitrogen Nitrate plus nitrite-nitrogen Total Phosphorus	mg/L	
	Standing water level	Metres AHD	
Groundwater monitoring bore 1/00, 2/00, 3/00, 5/00 and 6/00 (Schedule 1).	pH	pH units	Six-monthly
	Total Dissolved Solids (calculated from conductivity) Total Nitrogen Ammonium-nitrogen Nitrate plus nitrite-nitrogen Total Phosphorus	mg/L	
	Standing water level	Metres AHD	

16. The Licence Holder shall collect all water samples in accordance with the relevant parts of AS/NZS 5667.
17. The Licence Holder shall submit all water samples to a laboratory with current NATA accreditation for the analyses specified and analysed in accordance with the current "Standard Methods for Examination of Water and Wastewater-APHA-AWWA-WEF".

Records and reporting

- 18.** 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.
- 19.** 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 no later than 1 October, an Annual Audit Compliance Report in the approved form.
- 20.** The Licence Holder must submit to the CEO an Annual Environmental Report by no later than 1 October each year. The report shall contain the information listed in Table 4 in the format or form specified in that table.
- 21.** The Licence Holder shall determine the monthly load of each contaminant in the treated wastewater discharged from the final pond (except pH and Escherichia coli) using flow-weighted data. The loads shall be based on the treated wastewater discharge rates and the concentrations as measured in accordance with condition 5 and 15 and Table 3. Monthly and annual average loads of the contaminants shall be reported in the annual monitoring report in kilograms per day.

Table 4: Annual Environmental Report

Parameter	Format or form
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
Monitoring of inputs and outputs	Tabular
Treated wastewater discharge monitoring results	Tabular and trend graphs
Calculation of monthly contaminant loads.	Tabular
A summary of the number and type of complaints received	None specified
Compliance	AACR
Any changes to site boundaries, location of groundwater monitoring bores, surface drainage channels and on-site or off-site impacts or pollution.	None specified
The quantity of sewage sludge removed from the premises	
monthly flow results	Tabular

- 22.** The Licence Holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:

- (a) the calculation of fees payable in respect of this licence;
- (b) any maintenance of infrastructure that is performed in the course of complying with conditions 1 of this licence;
- (c) monitoring programmes undertaken in accordance with conditions 15, 16, and 17 of this licence; and
- (d) complaints received under condition 18 of this licence.

23. The books specified under condition 22 must:

- (a) be legible;
- (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
- (c) be retained by the Licence Holder for the duration of the licence; and
- (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this licence, the terms in Table 5 have the meanings defined.

Table 5: Definitions

Term	Definition
AS3780	means Australian Standard 3780-1994: <i>The storage and handling of corrosive substances.</i>
AS/NZS 5667	means the most recent version and relevant parts of the Australian and New Zealand series of guidance standards AS/NZS 5667 on Water Quality Sampling, being: <ul style="list-style-type: none"> i) 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> ii) Australian Standard AS/NZS 5667.10 <i>Water Quality – Sampling – Guidance on sampling of waste waters;</i> and iii) Australian Standard AS/NZS 5667.11 <i>Water Quality – Sampling – Guidance on sampling of groundwaters;</i>
CEO	Means Chief Executive Officer Director General Department administering the Environmental Protection Act 1986 Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
Licence	means this Licence numbered L6008/1992/15 and issued under the <i>Environmental Protection Act 1986</i> ;
Licence Holder	Means the person or organization named as Licence Holder on page 1 of the Licence
NATA	means National Association of Testing Authorities, Australia
Premises	means the area defined in the Premises Map in Attachment 4 Schedule 1 and listed as the Premises address on page 1 of the Licence
Tertiary Pond	means the area defined in the Premises Map in Schedule 1 and labeled Tertiary Pond
<i>Western Australian Guidelines for biosolids management</i>	means the document <i>Western Australian Guidelines for biosolids management</i> published by Department of Environment and Conservation, December 2012.

END OF CONDITIONS

Schedule 1: Maps

Premises map – Manjimup Wastewater Treatment Plant



LEGEND

- Prescribed Premises Boundary
- Groundwater Monitoring Bore



1:3,500 at A4
 0 50 100
 Metres
 Coordinate System: GCS GOA 1994
 Vertical Datum: AHD
 AUTHOR: EVEAD DATE: 21/07/2021
 BRANCH: INFORMATION & TECHNOLOGY

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Manjimup WRRF
 L6008

Map of Pozzi Road irrigation woodlot prescribed premises

