

# Licence

Licence number	L7717/1993/10
Licence holder ACN	Water Corporation 634 169 841
Registered business address	John Tonkin Water Centre 629 Newcastle Street LEEDERVILLE WA 6007
DWER file number	DER2014/001684-1
Duration	01/11/2023 to 31/10/2033
Date of issue	27/10/23
Date of amendment	03/04/2024
Premises details	Pemberton Water Resource Recovery Facility
	Lot 13459 on Plan 192273
	Crown Reserve 44628
	Vasse Highway
	PEMBERTON WA 6260
	As depicted in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i> )		Assessed production / design capacity
Categ	ory 54: Sewage facility premises –	Not more than 300 m <sup>3</sup> per day
(a)	on which sewage is treated (excluding septic tanks); or	
(b)	from which treated sewage is discharged onto land or into waters.	

This licence is granted to the licence holder, subject to the attached conditions, on 03 April 2024, by:

## **GRACE HEYDON**

### A/MANAGER WASTE INDUSTRIES – REGULATORY SERVICES

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

## Licence history

Date	Reference number	Summary of changes
17/12/2001	L7717/1993/1	Licence granted.
23/11/2002	L7717/1993/2	Licence reissued.
23/11/2003	L7717/1993/3	Licence reissued.
01/10/2004	L7717/1993/4	Licence reissued.
01/11/2005	L7717/1993/5	Licence reissued.
01/11/2006	L7717/1993/6	Licence reissued.
01/11/2008	L7717/1993/7	Licence reissued.
01/11/2011	L7717/1993/8	Licence reissued.
01/11/2014	L7717/1993/9	Licence reissued.
29/04/2016	L7717/1993/9	This notice was given in accordance with section 59B(9) of the <i>Environmental Protection Act 1986</i> to the new expiry date of the licence. Expiry date extended to 31 October 2023.
22/09/2017	L7717/1993/9	Amendment Notice 1 - Licence amendment to change treated sewage discharge limit for total nitrogen to <7 mg/L.
20/072023	L7717/1993/9	Licence amendment to amend the reporting date for the Annual Audit Compliance Report (AACR) and the Environmental Report to 1 October annually, and to alter the premises name.
27/10/2023	L7717/1993/10	Licence reissued.
03/04/2024	L7717/1993/10	DWER initiated licence amendment to correct typographical error

## 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:

1. The licence holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 1.

Site infrastructure and equipment		Operational requirement	Infrastructure location
Wa	ter Resource Recovery Facility (WRR	F)	
1	Wastewater treatment system incorporating oxidation ditch technology designed to treat a maximum volume of 300 m <sup>3</sup> per day consisting of: Inlet works Bioselector Chemical Dosing System Oxidation Ditch Clarifiers RAS System WAS System Oxidation Filter System Denitrification Filtration System Service Water Tank Emergency Storage Pond 1 Emergency Storage Pond 2 WAS Thickening Tank Polymer System Screw Press Sludge Hopper	<pre>WRRF must be capable to treat sewage to the following discharge limits: • TSS ≤ 30 mg/L • BOD ≤ 20 mg/L • TN ≤ 7 mg/L • TP ≤ 2 mg/L • E. coli &lt;150 cfu/100mL; and Must meet Nitrogen and Phosphorous limits required in condition 7.</pre>	As labelled in Figure 1 and Figure 2 Schedule 1
Sol	ids management	(a) Solid wooto concreted from	As loballed in
2	Hardstand area.	the process must be stored within the sludge drying hardstand area.	Figure 3 Schedule 1 as Sludge drying bed

#### Table 1: Infrastructure and equipment requirements

#### L7717/1993/10 (Amended 03/04/2024)

## **General conditions**

- 2. The licence holder must manage the water resource recovery facility such that:
  - uncontaminated stormwater runoff resulting from roof and site drainage shall be prevented from entering the wastewater treatment tanks and sludge drying beds;
  - (b) uncontrolled loss of wastewater from the wastewater treatment tanks, sludge drying beds or holding basins 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 water resource recovery facility, sludge drying beds or holding basins;
  - (d) vegetation (emergent or otherwise) and debris shall be routinely removed from sludge drying beds or holding basins; and
  - (e) treated wastewater is available for re-use.
- **3.** The licence holder must only discharge treated wastewater to Lefroy Brook during periods when wastewater is surplus to third party re-use requirements.
- 4. The licence holder must maintain metering devices for measuring monthly cumulative volumes of wastewater treated by the water resource recovery facility, discharged to Lefroy Brook and re-used by third parties. The monthly flow results must be presented in the next annual monitoring report in a tabular format in m<sup>3</sup>/day.
- 5. The licence holder must ensure that perimeter valves on bunded areas are locked or otherwise secured in the closed position whilst the site is unattended.
- **6.** The licence holder must target treated wastewater to meet the process parameter treatment levels specified in table 2.

Location reference	Process description	Parameter Limit (including units)		Averaging period	
W1 (as depicted in Schedule 1) Discharge 300 kL st tank to Le Brook.		Escherichia coli	<150 cfu/ 100mL	Spot	
	Discharge from 300 kL storage tank to Lefroy Brook.	Biochemical oxygen demand	≤20 mg/L		
		Total Nitrogen	≤7 mg/L	sample	
		Total phosphorus	≤2 mg/L		
		Total suspended solids	≤30 mg/L		

 Table 2: Treated wastewater limits – discharge to Lefroy Brook

- 7. The licence holder must manage third party re-use schemes such that the nutrient loading rate does not exceed:
  - (a) Nitrogen: 250 kilograms per hectare per year; and
  - (b) Phosphorus: 50 kilograms per hectare per year.

## **Monitoring conditions**

**8.** The licence holder must undertake the monitoring in Table 3 according to the specifications in Table 3.

 Table 3: Sampling locations, parameters, frequencies and methods

Sampling location	Sampling location description	Parameters to be analysed <sup>1</sup>	Units	Sampling frequency	Method
		pH <sup>1</sup>	pH units		
		Ammonium (NH4)	mg/L		
		Escherichia coli	cfu/100mL		AS/NZS
	Outlet Pipe from the	Nitrate + nitrite – nitrogen	mg/L		2031;
None applicable	plant to the treated	Biochemical oxygen demand	mg/L		AS/NZS 5667.1; and
	tank	Total dissolved solids	mg/L		AS/NZS
		Total nitrogen	mg/L		5667.10
		Total phosphorus	mg/L		
		Total suspended solids	mg/L	Monthly (when flowing	
W1 (as depicted in Schedule 1)	Outlet pipe from treated wastewater tank to Lefroy Brook	pH <sup>1</sup>	pH units		
		Ammonium (NH4)	mg/L	reusing or discharging)	
		Escherichia coli	cfu/100mL		
		Nitrate + nitrite – nitrogen	mg/L		AS/NZS 2031;
		Total and filtered aluminium	mg/L		AS/NZS
		Biochemical oxygen demand	mg/L		AS/N7S
		Total dissolved solids	mg/L		5667.10
		Total nitrogen	mg/L		
		Total phosphorus	mg/L		
		Total suspended solids	mg/L		

Sampling location	Sampling location description	Parameters to be analysed <sup>1</sup>	Units	Sampling frequency	Method
		pH <sup>1</sup>	pH units		
		Ammonium (NH4)	mg/L		
		Escherichia coli	cfu/100mL		
		Nitrate + nitrite – nitrogen	mg/L		AS/NZS 2031;
SW1 and SW2 (as depicted	Lefroy Brook upstream and	Total and filtered aluminium	mg/L		AS/NZS
in Schedule 1)	downstream	Biochemical oxygen demand	mg/L		AS/N7S
		Total dissolved solids	mg/L		5667.6
		Total nitrogen	mg/L		
		Total phosphorus	mg/L		
		Total suspended solids	mg/L		
	Reuse scheme take- off point	pH <sup>1</sup>	pH units		
		Ammonium (NH4)	mg/L		
		Escherichia coli	cfu/100mL		AS/NZS
L1 (as depicted in Schedule 1)		Nitrate + nitrite – nitrogen	mg/L		2031;
		Biochemical oxygen demand	mg/L		AS/NZS 5667.1; and
		Total dissolved solids	mg/L		AS/NZS
		Total nitrogen	mg/L		5667.10
		Total phosphorus	mg/L		
		Total suspended solids	mg/L		

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

**9.** The licence holder must ensure that all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in Table 3.

## **Records and reporting**

- **10.** The licence holder must:
  - (a) inform the CEO prior to taking a treatment tank offline for maintenance works;
  - (b) where sewage sludge is temporarily stored on-site, direct sewage sludge to a hard-stand area, holding basin 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, returns sludge leachate from the hard-stand area, or approved drying bed back to the treatment plant.
- **11.** The licence holder must determine the monthly load of each contaminant in the treated wastewater discharged from the outlet pipe from the treated wastewater tank to Lefroy Brook (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 4 and 8. Monthly and annual average loads of the contaminants shall be reported in the Annual Environmental Report in kilograms per day.
- **12.** The licence holder must:
  - (a) prepare an environmental report that provides information in accordance with Table 4 for the preceding annual period, and
  - (b) submit the environmental report to the CEO by 1 October each year.

#### Table 4: Environmental reporting requirements

Condition	Requirement
-	monitoring data or other collected data required by any condition of this licence;
-	an assessment of the data against any limits set or other environmental guidelines, targets or policies referred to in this licence and data from previous years' monitoring;
-	a summary of any data exceeding those limits, guidelines, targets or policies including information on why the exceedance occurred (if known) and action taken by the licence holder to prevent recurrence of such exceedances;
-	a summary of the number and type of complaints received;
-	any changes to site boundaries, location of groundwater monitoring bores, surface drainage channels and on-site or off-site impacts or pollution; and
-	a list of any monitoring methods used to collect and analyse data required by any condition of this licence to demonstrate they comply with the methods specified in this licence.

**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.

## **Definitions**

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

### Table 5: Definitions

Term	Definition
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 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 5667.6	means the Australian Standard AS/NZS 5667.6 Water Quality – Sampling – Guidance on sampling of rivers and streams.
AS/NZS5667.10	means the Australian Standard AS/NZS 5667.10 Water Quality – Sampling – Guidance on sampling of waste waters.
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	Environmental Protection Act 1986 (WA)
licence	refers to this document, which evidences the grant of a licence by the CEO

#### L7717/1993/10 (Amended 03/04/2024)

Term	Definition
	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.
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises maps (Figure 1 and Figure 2) 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.
waste	has the same meaning given to that term under the EP Act.

### **END OF CONDITIONS**

## Schedule 1: Maps

## **Premises map**

The boundary of the prescribed premises is shown in the map below (Figure 1).







BRANCH: INFORMATION & TECHNOLOGY

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Figure 1: Map of the boundary of the prescribed premises.

L7717/1993/9 (Amended 03/04/2024)

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



### The prescribed premises boundary, monitoring locations and infrastructure is shown in the map below (Figure 2).



Figure 2: Pemberton Water Resource Recovery Facility premises details

L7717/1993/9 (Amended 03/04/2024)

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

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### Pemberton Water Resource Recovery Facility Schematics is shown below (Figure 3).



Figure 3: Pemberton Water Resource Recovery Facility premises detail