



Licence number	L8610/2011/1
Licence holder	Pilgangoora Operations Pty Ltd
ACN	616 560 395
Registered business address	Level 2, 146 Colin Street WEST PERTH 6005
DWER file number	2011/009664
Duration	31/08/2012 to 02/09/2031
Date of issue	31/08/2012
Premises details	Pilgangoora Village Wastewater Treatment Plant Legal description - Approximately 100 kilometres south of Port Hedland within the area bounded by 677460E, 7662967S; 677642E, 7662838S; 677748E, 7662672S; 678000E, 7662672S; 678001E, 7662152S; 677499E, 7662156S; 677497E, 7662674S; 677450E, 7662758S; 677370E, 7662817S (GDA 2020 Zone 50) MARBLE BAR WA 6760 As depicted 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.	175.7 cubic metres per day

This licence is granted to the licence holder, subject to the attached conditions, on 2 August 2022, by:

Abbie Crawford
A/MANAGER, WASTE INDUSTRIES

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

[L8610/2011/1](#)

Licence History

Date	Reference number	Summary of changes
14/7/2011	W4834/2010/1	New application
5/7/2012	L8610/2011/1	New application
18/4/2013	L8610/2011/1	Amendment to include category 89
17/10/2013	L8610/2011/1	Amendment to allow the discharge of brine from the Reverse Osmosis Plant to the irrigation field.
10/09/2015	L8610/2011/1	Amendment to allow a change in discharge concentration of TDS in brine from the Reverse Osmosis Plant to the irrigation field.
08/02/2017	L8610/2011/1	Amendment Notice 1 - to remove category 89 from the licence.
21/02/2017	L8610/2011/1	Transfer of Occupier from Roy Hill Infrastructure Pty Ltd to Altura Lithium Operations Pty Ltd and administrative changes
04/05/2017	L8610/2011/1	Amendment Notice 2 - to update licence expiry date and business address
29/03/2019	L8610/2011/1	Amendment Notice 3 – To update premise name to Pilgangoora Village Wastewater Treatment Plant
16/05/2022	L8610/2011/1	Notice of amendment of licence reporting requirements section 59(2), section 59(1)(a) and 59(1)(b) <i>Environmental Protection Act 1986</i> Licensed Prescribed Premise
02/08/2022	L8610/2011/1	Transfer of Occupier from Altura Lithium Operations Pty Ltd to Pilgangoora Operations Pty Ltd. During the transfer process the licence was updated to the current format and incorporated all amendment notices.

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

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 In the Licence, unless the contrary intention appears:

‘Act’ means the *Environmental Protection Act 1986*

‘AHD’ means the Australian height datum;

‘annual period’ means the period from 1 January until 31 December in that 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 1940’ means the current version of Australian Standard AS 1940 *The storage and handling of flammable and combustible liquids*;

‘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 Water and Environmental Regulation;

‘CEO’ for the purpose of correspondence or notification 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;

‘Licence’ means this Licence numbered L8610/2011/1 and issued under the *Environmental Protection Act 1986*;

‘Licence Holder’ means the person or organisation named as Licence Holder 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;

‘practicable’ is as defined in the *Environmental Protection Act 1986*;

‘Premises’ means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of this Licence;

‘quarterly period’ means the 4 inclusive periods from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September and 1 October to 31 December in that year;

‘Schedule 1’ means Schedule 1 of this Licence unless otherwise stated;

‘Schedule 2’ means Schedule 2 of this Licence unless otherwise stated;

‘sewage’ means waste containing faecal matter or urine and conveyed in sewers;

‘spot sample’ means a discrete sample representative at the time and place at which the sample is taken; and

‘usual working day’ means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

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 version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this licence.

1.2 General Conditions

1.2.1 The Licence Holder shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.2 The Licence Holder shall manage stormwater on the site to ensure that:

- (a) it is diverted away from those portions of the premises which are or have been used for waste deposition; and
- (b) stormwater that is or has been in contact with waste is diverted into a sump on the site or otherwise retained on the site.

1.3 Premises operations

1.3.1 The Licence Holder shall only accept waste on to the Premises if:

- (a) it is of a type listed in Table 1.3.1;
- (b) the quantity accepted is below any quantity 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 type	Quantity limit	Specification ¹
Sewage	175.7 m ³ /day	Accepted through sewer inflow(s) only

Note 1: Additional requirements for the acceptance of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

- 1.3.2 The Licence Holder shall ensure that 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 limits described in that Table.

Table 1.3.2: Waste processing		
Waste type	Process(es)	Process limits ¹
Sewage	Biological, physical and chemical treatment.	175.7 m ³ /day

Note 1: Additional requirements for the acceptance and landfilling of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

- 1.3.3 The Licence Holder shall:
- (a) erect and maintain suitable fencing around the irrigation area that acts as an effective barrier to unauthorised persons, cattle, horses and other stock; and
 - (b) undertake regular inspections of all security measures and repair damage as soon as practicable.
- 1.3.4 The Licence Holder shall ensure that the irrigation of treated wastewater meets the following:
- (a) no irrigation generated run-off, spray drift or discharge occurs beyond the boundary of the irrigation area;
 - (b) wastewater is evenly distributed over the irrigation area;
 - (c) soil erosion is prevented from occurring; and
 - (d) a healthy vegetation cover is maintained over the wastewater irrigation areas.

2 Emissions

2.1 Emissions to land

- 2.1.1 The Licence Holder is permitted, subject to conditions in the licence, to emit waste to land through the emissions points listed in Table 2.1.1 and depicted in the map in Schedule 1.

Table 2.1.1: Emission points to land		
Emission point reference (and location on Map of emission points)	Description	Source
L1	Discharge to on-site irrigation area	Combined treated wastewater and reverse osmosis reject water

3 Monitoring

3.1 General monitoring

- 3.1.1 The Licence Holder shall ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1[unless indicated otherwise in the relevant table];
 - (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; and

- (d) all samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured [unless indicated otherwise in the relevant table].

- 3.1.2 The Licence Holder shall ensure that quarterly monitoring is undertaken at least 45 days apart.
- 3.1.3 The Licence Holder shall have all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications, the requirements of the Licence and any relevant Australian standard.
- 3.1.4 The Licence Holder shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

3.2 Emissions to land

- 3.2.1 The Licence Holder shall undertake the monitoring in Table 3.2.1 according to the specifications in that table.

Table 3.2.1: Monitoring of emissions to land				
Emission point reference	Parameter	Units	Reference period	Frequency
L1 (Prior to discharge to the irrigation area)	Cumulative Volume	m ³	Monthly	Monthly
	Biochemical Oxygen Demand	mg/L	Spot sample	Quarterly
	Total Suspended Solids	mg/L		
	pH ¹			
	Total Nitrogen	mg/L		
	Total Phosphorus	mg/L		
	E.coli	mg/L		
	Total Dissolved Solids	mg/L		

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

4 Information

4.1 Records

4.1.1 All information and records required by this 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 4.1.1(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 or any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect condition of the land or waters.

4.1.2 The Licence Holder must:

- (a) undertake an audit of their compliance with the conditions of their licence during the preceding annual period; and
- (b) prepare and submit to the CEO by 31/03/2023 and annually thereafter an Annual Audit Compliance Report in the approved form.

4.1.3 The Licence Holder 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.

4.2 Reporting

4.2.1 The licence holder must submit to the CEO by 31/03/2024 and biennially thereafter, an Environmental Report for the preceding two annual periods for the conditions listed in Table 4.2.1, and which provides information in accordance with the corresponding requirement set out in Table 4.2.1.

Table 4.2.1: Environmental Report		
Condition or Table (if relevant)	Parameter	Format or Form ¹
-	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the annual period and any action taken	None specified
4.1.2	Compliance	Approved form
4.1.3	Complaints summary	None specified
Table 3.2.1	Cumulative Volume	None specified
Table 3.2.1	Biochemical Oxygen Demand, Total Suspended Solids, pH, Total Nitrogen, Total Phosphorus, E.coli, Total Dissolved Solids	WR1

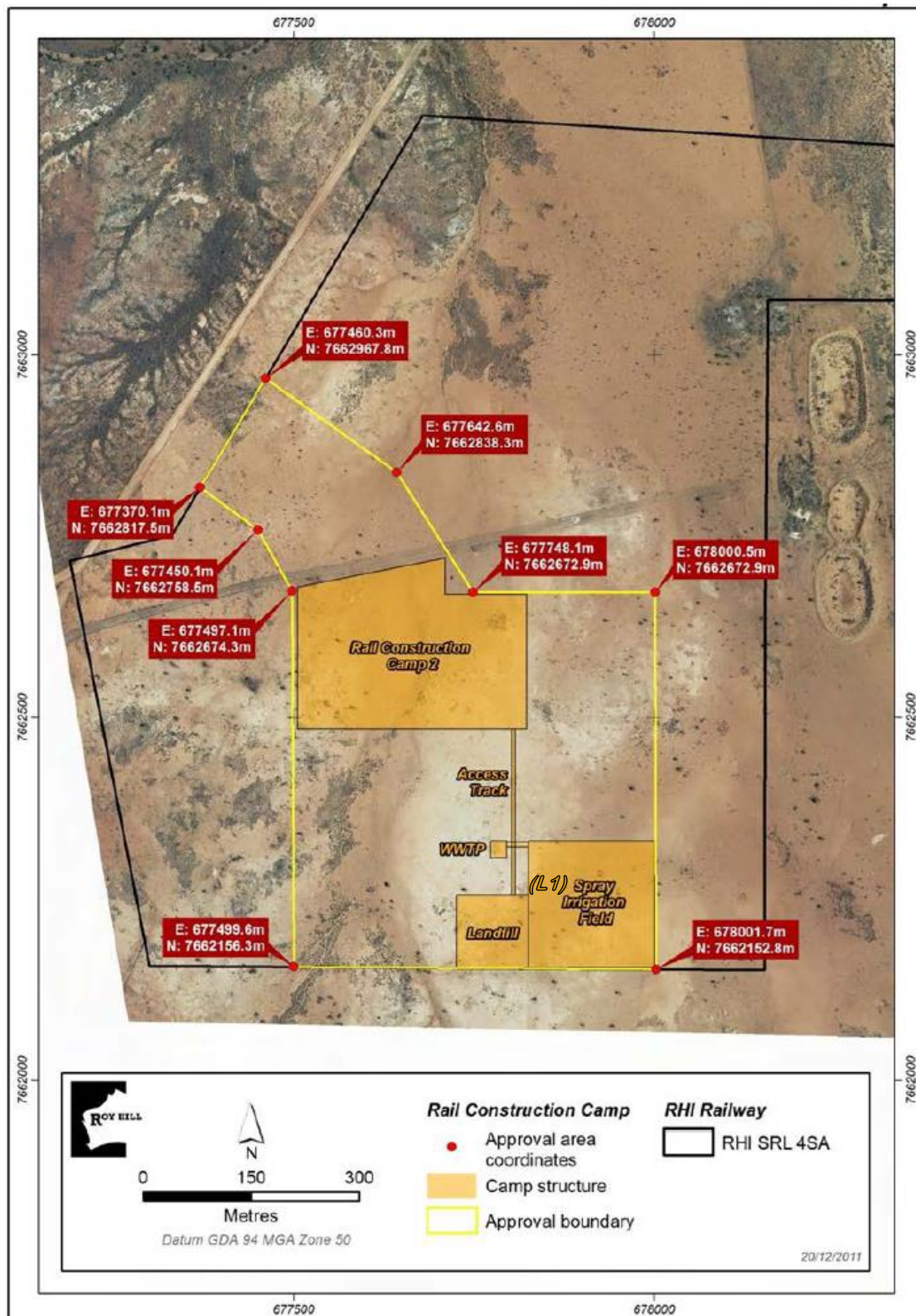
Note 1: Forms are in Schedule 2

- 4.2.2 The Licence Holder shall ensure that the Environmental Report also contains an assessment of the information contained within the report against previous monitoring results and Licence limits.

Schedule 1: Maps

Figure 1: Premises Map

The Premises is shown in the map below. The yellow line depicts the Premises boundary. The area in which the disposal of waste by landfilling may take place is also shown in the map 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.

Licence: L8610/2011/1

Licence Holder: Pilgangoora Operations Pty Ltd

Form: WR1

Period:

Name: Monitoring of point source emissions to land

Form WR1: Monitoring of point source emissions to land					
Emission point	Parameter	Result	Averaging Period	Method	Sample date & Times
L1	Biochemical Oxygen Demand		Spot Sample		
	Total Suspended Solids				
	pH				
	Total Nitrogen				
	Phosphorus				
	<i>E. Coli</i>				
	Total Dissolved Solids				

Signed on behalf of Pilgangoora Operations Pty Ltd Date: