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|------------------------------------|--|
| 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 | INS-0001760 |
| Duration | 31/08/2012 to 02/09/2031 |
| Date of issue | 31/08/2012 |
| Date of amendment | 25/03/2026 |
| Premises details | Pilgangoora Village Wastewater Treatment Plant Legal description - Part of Mining tenement L45/409. Approximately 100 kilometres south of Port Hedland. MARBLE BAR WA 6760 As depicted in Schedule 1. |

| Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>) | Assessed 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. | 240 cubic meters per day of treated effluent, (plus 140 m ³ /day of reverse osmosis reject brine in discharge) |

This licence is granted to the licence holder, subject to the attached conditions, on **25 March 2026**, by:

Alana Kidd

Manager, Green Energy

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

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. |
| 25/03/2026 | L8610/2011/1 | Increase of WWTP design capacity Increase of WWTP discharge |

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

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.

Table 1: Infrastructure and equipment requirements

| Site infrastructure and equipment | Operational requirement | Infrastructure location |
|--------------------------------------|--|-------------------------|
| Wastewater treatment plant | <ul style="list-style-type: none"> (a) WWTP to be free of leaks and/or defects; (b) Flow meters are maintained on the WWTP inlet and outlet to the irrigation area; (c) Sludge must be contained within sealed sludge tanks prior to removal by a licensed Controlled Waste Carrier for disposal to a premises authorised by the department to accept the waste; (d) All spills of wastewater or chemicals outside of a vessel / container must be cleaned up immediately; (e) Leak detection alarms, switches and shut-off valves to prevent leaks are to be maintained operational; and (f) All tanks must maintain a 400 mm operational freeboard | Figure 1 |
| Irrigation fields | <ul style="list-style-type: none"> (a) No more than 240 m³/day of treated effluent combined with a maximum of 140 m³/day of RO reject treated effluent, is to be applied to the designated irrigation areas; (b) Irrigation must be managed to prevent ponding and pooling of effluent on the surface of the irrigation spray field; (c) No treated effluent is permitted to be discharged outside of the irrigation area identified in Schedule 1; (d) A healthy and weed free vegetation cover is to be maintained over the wastewater irrigation areas; (e) Soil erosion is to be prevented from occurring; (f) Maintain suitable and signed fencing around the irrigation area that acts as an effective barrier to unauthorised persons, cattle, horses and other stock; (g) undertake regular inspections to fence and repair damage as soon as practicable; and (h) the irrigation sprayfield area maximum size is to be no more than 9.6 ha. | Figure 1 |
| Reverse Osmosis concentrate pipeline | <ul style="list-style-type: none"> (a) No more than 140 m³/day of RO Reject is to be supplied to the WWTP. (b) RO reject effluent is not to be discharged undiluted. | Figure 1 |

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

3. The Licence Holder must 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.

Emissions and discharges

4. The licence holder must ensure that the emissions specified in Table 2 are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 2: Authorised discharge points

| Emission | Discharge point | Discharge point location |
|---|--|---------------------------------------|
| Treated effluent including reverse osmosis reject water | Sprinklers within the irrigation field | Irrigation field as shown in Figure 1 |

5. The licence holder must ensure that where the emissions specified in Table 2 are required to be treated, the corresponding parameter does not exceed the limits specified in Table 3.

Table 3: Emission treatment criteria

| Emission | Parameter | Treatment criteria | Unit |
|---------------------------------|---------------------------------|--------------------|------------|
| Treated effluent from the WWTPs | Total suspended solids (TSS) | <30 | mg/L |
| | Total dissolved solids (TDS) | <4000 | |
| | Biochemical oxygen demand (BOD) | <10 | |
| | Residual free chlorine | ≥0.2 - ≤2.0 | |
| | Total nitrogen (TN) | <20 | |
| | Total phosphorus (TP) | <3.5 | |
| | <i>E.coli</i> | <1000 | Cfu/100 mL |
| | pH | ≥6.5 - ≤8.5 | pH units |

Monitoring

General monitoring

6. The licence holder shall ensure that:
 - (a) monthly monitoring is undertaken at least 15 days apart;
 - (b) quarterly monitoring is undertaken at least 45 days apart; and
 - (c) six monthly monitoring is undertaken at least five months apart.

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7. The licence holder must ensure that all monitoring equipment used on the premises to comply with the conditions of this licence is operated and maintained as per manufacturer instructions, and that all monitoring data are recorded and securely archived.
8. The licence holder must, 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.

Monitoring of WWTP effluent

9. The licence holder must monitor the treated effluent from the WWTPs for concentrations of the parameters listed in Table 4:
 - (a) at the corresponding monitoring location;
 - (b) in the corresponding unit;
 - (c) at no less than the corresponding frequency; and
 - (d) using the corresponding method,
 as set out in Table 4.

Table 4: Monitoring of treated effluent

| Monitoring location | Parameter | Unit | Averaging period | Frequency | Method |
|--|---------------------------------|----------------|------------------|--|----------------------------------|
| Treated effluent outlets for each WWTP (Figure 1) | Volume produced | m ³ | Cumulative daily | Continuous | None specified |
| | Volume discharged ¹ | | | | |
| | Total suspended solids (TSS) | mg/L | Spot sample | Quarterly Additional sampling event following any malfunction with the WWTP chlorination system | AS/NZS 5667.1 and AS/NZS 5667.10 |
| | Total dissolved solids (TDS) | | | | |
| | Biochemical oxygen demand (BOD) | | | | |
| | Residual free chlorine | | | | |
| | Total nitrogen (TN) | | | | |
| | Total phosphorus (TP) | | | | |
| | <i>E.coli</i> | | | | |
| pH | pH units | | | | |

10. The licence holder must record the results of all monitoring activity required by condition 9.
11. The licence holder must ensure that all non-continuous monitoring and analysis undertaken pursuant to condition 9 is undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis.

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- 12.** The licence holder must record, investigate, take corrective action and report to the CEO within 14 calendar days, in the event of a parameter sampled in accordance with the requirements of condition 9 exceeding the corresponding treatment criteria outlined in Table 3.
- 13.** The licence holder must include the following information in the report referred to in condition 12 in relation to any exceedances of any limit identified in that condition:
 - (a) the nature, volume and characteristics of the exceedance;
 - (b) the time and date when the exceedance occurred;
 - (c) the time and date when the discharge to each authorised discharge point outlined in Table 2 ceased;
 - (d) the volume of effluent discharged to each authorised discharge point outlined in Table 2 between when the exceedance occurring and when discharge ceased;
 - (e) whether any environmental impact occurred as a result of the exceedance and, if so, what that impact was and where the impact occurred;
 - (f) the details of the management action(s) taken pursuant to condition 12 in response to the exceedance;
 - (g) the details and result of any investigation undertaken into the cause of the exceedance; and
 - (h) what action has been taken, or will be taken, to prevent the exceedance occurring again and for the purpose of minimising the likelihood of pollution or environmental harm.

Records and reporting

Records

- 14.** 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.
- 15.** 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 condition 1 of this licence;
 - (c) monitoring programmes undertaken in accordance with condition 9 of this licence; and
 - (d) complaints received under condition 14 of this licence.

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16. The books specified under condition 15 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.

Reporting

17. 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 31/03/2023 and annually thereafter.
18. The licence holder must:
- (a) prepare an Environmental Report that provides information in accordance with Table 5 for the preceding two annual periods, and
 - (b) submit that Environmental Report to the CEO by 31/03/2024 and biennially thereafter.

Table 5: Environmental reporting requirements

| Condition | Requirement | Format or form |
|-------------|---|---|
| 9 - Table 4 | <ul style="list-style-type: none"> a. volume (in m³ or kL) of treated wastewater applied daily to each irrigation area, and monthly cumulative volumes presented in table format b. volume (in m³ or kL) of RO brine processed and discharged to each irrigation area, and monthly cumulative volumes presented in table format b. treated wastewater monitoring data in tabulated and graphical form including the sampling date c. tabulated quarterly and annual loadings of nitrogen, phosphorus and BOD applied to each irrigation area, including an explanation of the basis for determining loading rates d. monthly cumulative volume (m³) of raw sewage received at the WWTP, present in table format e. monthly cumulative volume (m³) of RO brine blend discharged from the WWTP, present in table format f. monthly cumulative volume (m³) of treated wastewater and RO brine blend discharged from the WWTP, present in table format g. an assessment and interpretation of the data, including comparison to historical trends and loading limits h. copies of laboratory sample analysis reports. | Raw data files included as an attachment or in appendix as Excel, CSV, or equivalent editable format. |
| 1 | Summary of any design capacity and corrective actions taken | None specified |
| 5 | Any investigations and corrective action taken in response to a parameter exceeding any treatment criteria outlined in Table 3. | None specified |

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| Condition | Requirement | Format or form |
|-----------|---|---------------------------------------|
| 14 | Summary of complaints received and any actions taken to investigate or respond. | |
| 17 | Record of compliance with licence conditions. | Annual Audit Compliance Report (AACR) |

Definitions

In this licence, the terms in Table 6 have the meanings defined.

Table 6: 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 are available on the Department's website). |
| annual period | a 12 month period commencing from 1 January until 31 December 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 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 |
| biennially | means every two years. |
| books | has the same meaning given to that term under the EP Act. |
| 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 |
| Cfu | Colony Forming Units |
| department; DWER | means the department established under section 35 of the <i>Public Sector Management Act 1994 (WA)</i> 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 (WA)</i> |

| Term | Definition |
|---------------------|--|
| EP Regulations | <i>Environmental Protection Regulations 1987 (WA)</i> |
| 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. |
| m ³ | cubic metres |
| mg/L | milligrams per litre |
| NATA | 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. |
| 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. |
| 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 |
| RO | Reverse Osmosis |
| sewage | means waste containing faecal matter or urine and conveyed in sewers |
| waste | has the same meaning given to that term under the EP Act. |
| WWTP | wastewater treatment plant |

END OF CONDITIONS

Schedule 1: Maps

Premises map

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



Figure 1: Map of the boundary of the prescribed premises

Schedule 2: Premises boundary

The corners of the premises boundary are the coordinates listed in Table 7.

Table 7: Premises boundary coordinates (GDA2020)

| | Easting | Northing | Zone |
|----|----------------|-----------------|------------------|
| 1. | 677337 | 7662749 | GDA 2020 Zone 50 |
| 2. | 677464 | 7662962 | GDA 2020 Zone 50 |
| 3. | 677641 | 7662837 | GDA 2020 Zone 50 |
| 4. | 677747 | 7662671 | GDA 2020 Zone 50 |
| 5. | 678150 | 7662672 | GDA 2020 Zone 50 |
| 6. | 678146 | 7662158 | GDA 2020 Zone 50 |
| 7. | 677308 | 7662164 | GDA 2020 Zone 50 |
| 8. | 677189 | 7662720 | GDA 2020 Zone 50 |
| 9. | 677337 | 7662749 | GDA 2020 Zone 50 |