



Application for Licence Amendment

Part V Division 3 of the *Environmental Protection Act 1986*

| | |
|-----------------------|---|
| Licence Number | L2904/2025/1 |
| Licence Holder | Pure Environmental WA Pty Ltd |
| ACN | 609 291 858 |
| File Number | App-0033098 |
| Premises | Karratha Liquid Waste Facility Lot 120 Pindan Road, GAP RIDGE WA 6714 Legal description – Lot 120 on Deposited Plan 414552 Certificate of Title Volume 4027 Folio 393 As defined by the premises map attached to the issued licence. |
| Date of Report | 5 March 2026 |
| Decision | Revised licence granted |

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1. Decision summary

Licence L2904/2025/1 (L2904) is held by Pure Environmental Pty Ltd (Licence Holder) for the Karratha Liquid Waste Facility (the Premises), located at Lot 120 Pindan Road, Gap Ridge.

This Amendment Report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the operation of the Premises. As a result of this assessment, Revised Licence L2904 has been granted.

The Revised Licence issued as a result of this amendment consolidates and supersedes the existing Licence previously granted in relation to the Premises. The Revised Licence has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

2.2 Application summary

On 22 December 2025, the Licence Holder submitted an application to the department to amend Licence L2904 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Construction and Operation of the ISO Container cleaning area (cleaning area) for the receipt and processing of 100 tonnes of Controlled Waste Code J180 Oil Sludge.
- Consolidation and storage of waste drums and Intermediate Bulk Containers (IBC).

The cleaning area will consist of a containerised modular system and will operate within a bunded area. The cleaning area will incorporate the following methodology:

1. Liquid is decanted from the ISO container to the mixing tank.
2. The liquid is then transferred into the Emulsion Buster (EB) module. The EB process breaks stable oil water solids emulsions without the use of heat and chemicals, allowing efficient phase separation of the sludge.
3. The water phase is processed through an Advanced Filter System to remove any contaminants present in the water phase.
4. The liquid is transferred to a final Break Tank to allow the phases to separate.
5. Each phase (water/liquid /solid) is collected:
 - (a) Water phase - collected via onsite vacuum truck and sent to L150 pond (Pond 4) onsite for evaporation.
 - (b) Oil phase – collected in ICBs and stored onsite before disposal via a licensed oil recycling facility.
 - (c) Solid phase – collected for disposal to landfill.

Figure 1 below provides an overview of the cleaning area.

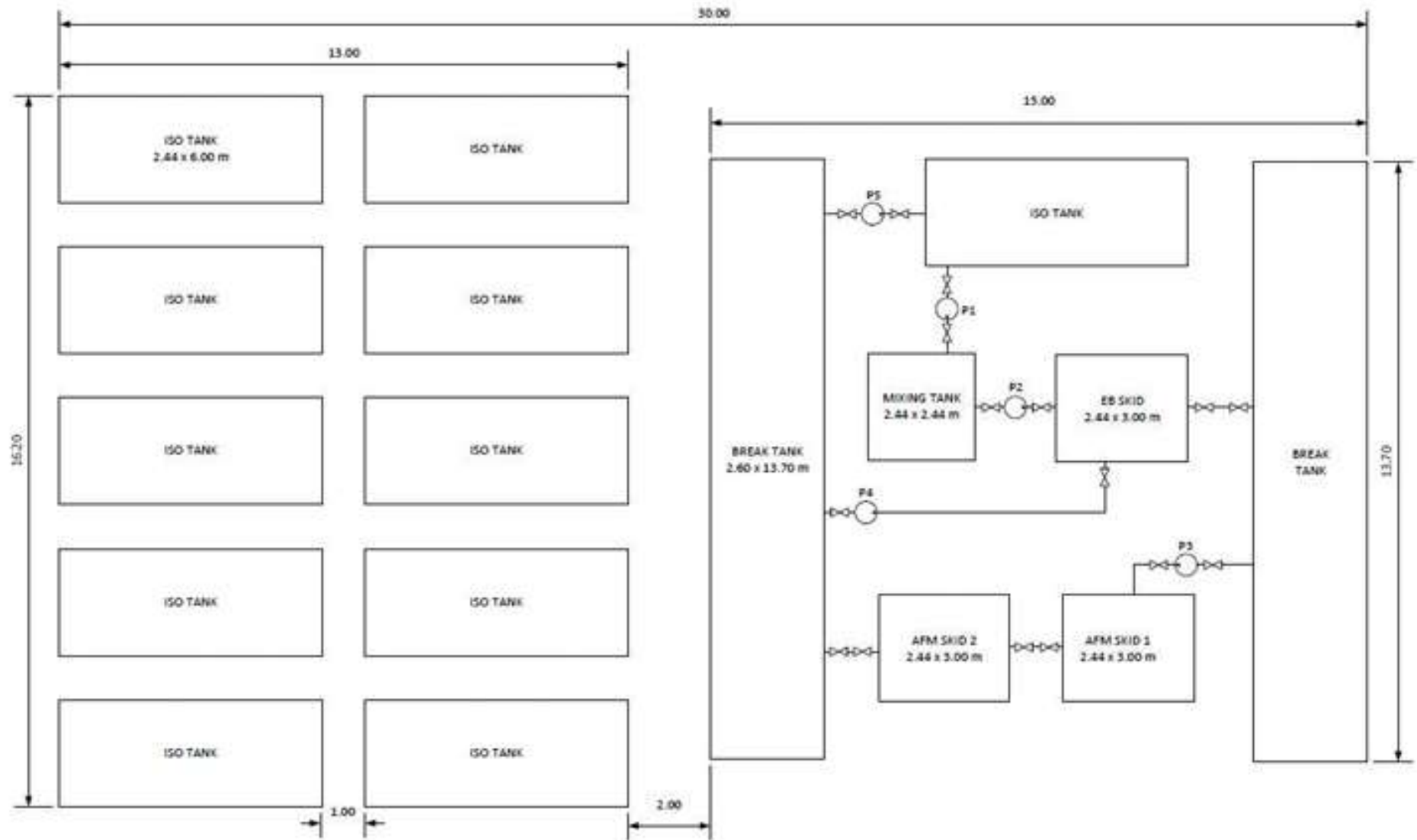


Figure 1: Cleaning area process layout

Licence: L2904/2025/1

Waste oil will be stored in either 205 L drums or IBCs. Hydrocarbon sludge will be stored in either ICBs or half height sea containers. The Licence Holder is requesting waste storage limits as follows:

- Oil waste: maximum of 100 tonnes (100 x IBCs); and
- Hydrocarbon sludge: 40 tonnes (2 x half height sea containers).

The proposed processing of the waste will only be for a single campaign of approximately 12 weeks. Accordingly, the licence amendment will allow construction of the cleaning area and Time-limited operations (180 days) will allow for operation of the cleaning area as this is sufficient time to process the expected volume of waste. The Licence Holder has advised a separate works approval will be submitted shortly for a new Drying Bed at the Premises, and once construction is complete all future operations, similar to this, will occur on the permanent impervious Drying Bed.

There are no changes to Category 61 and 61A activities proposed under this amendment from what is currently authorised under the Existing Licence.

3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2020).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

3.1 Source-pathways and receptors

3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises operation which have been considered in this Amendment Report are detailed in Table 1 below. Table 1 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

Table 1: Licence Holder controls

| Emission | Sources | Potential pathways | Proposed controls |
|----------|-------------------------|-----------------------|---|
| Dust | Operation of Drying Bed | Air/windborne pathway | Water carts. Restricted vehicle speed. |
| Noise | Machinery movements | | Compliance with the <i>Environmental Protection (Noise) Regulations 1997</i> (Noise Regulations). Size of premises restricts vehicle speeds. |
| Odour | Storage of Drilling mud | | Containerised modules are not odourous. Highly odourous waste is not accepted on site. Waste Acceptance procedure. |

| Emission | Sources | Potential pathways | Proposed controls |
|-------------------------|---------|--|---|
| Leachate | | Seepage to soils and groundwater | Cleaning area liner (HDPE) constructed to meet not less than 1×10^{-8} m/s permeability with bunds surrounding area. Depth to groundwater 6 – 10 mbgl. Groundwater monitoring. |
| Contaminated Stormwater | | Seepage to soils and overflow to surface water | Cleaning area is bunded which directs stormwater away from the area. |

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder’s from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 2 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020)).

Table 2: Sensitive human and environmental receptors and distance from prescribed activity

| Human receptors | Distance from prescribed activity |
|---|---|
| Commercial Premises | Adjacent to the Premises |
| Stayover Kingfisher Village | 1.4 km southeast of the Premises |
| Cievo Karratha Village | 2.2 km northeast of the Premises |
| Residential Properties | 3 km northeast of the Premises |
| Environmental receptors | Distance from prescribed activity |
| Pilbara Groundwater Area (RIWI Act 1914) <ul style="list-style-type: none"> Groundwater typically 6-10 m below existing ground level Hyper saline brackish | Premises mapped within this designated area |
| Pilbara Surface Water Area (RIWI Act 1914) | Premises mapped within this designated area |
| Threatened ecological communities. Roebourne Plains gilgai grasslands | Premises mapped within this area |
| Surface water lines <ul style="list-style-type: none"> Seven Mile Creek Minor non perennial water course | 500 m east of Premises |

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the Licence Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Licence Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the Licence Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

The Revised Licence L2904 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises.

The conditions in the Revised Licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

Table 3: Risk assessment of potential emissions and discharges from the Premises during Construction and operation (TLO)

| Risk Event | | | | | Risk rating ¹ C = consequence L = likelihood | Licence Holder's controls sufficient? | Conditions ² of licence | Justification for additional regulatory controls |
|---|-------------------------|--|---|---------------------------|---|---------------------------------------|---|--|
| Source / Activities | Potential emission | Potential pathways and impact | Receptors | Licence Holder's controls | | | | |
| Receival and Operation of the Liquid waste facility | Dust | Air/windborne pathway causing impacts to health and amenity | Adjacent commercial premises | Refer to Section 3.1 | C = Slight L = Unlikely Low Risk | Y | Condition 9 | N/A |
| | Noise | | Stayover Kingfisher Village 1.4 km southeast of Premises Civeo Karratha Village 2.2 km northeast of Premises | Refer to Section 3.1 | C = Slight L = Unlikely Low Risk | Y | N/A <i>Environmental Protection (Noise) Regulations 1997</i> | N/A |
| | Odour | | Residential property 3 km northeast of Premises | Refer to Section 3.1 | C = Moderate L = Unlikely Medium Risk | Y | Condition 10 and 23 | N/A |
| Vehicle movements | Leachate | Liquid waste infiltration to groundwater through the base of the Drying bed | Groundwater 6-10mbgl | Refer to Section 3.1 | C = Moderate L = Unlikely Medium Risk | Y | Conditions 23, 24, 25, 26, 27, 28, 29, 30, 32 and 33. | N/A |
| | Contaminated stormwater | Overland runoff potentially causing ecosystem disturbance or impacting surface water quality | Threatened ecological community. Seven Mile Creek 500 m east of Premises. | Refer to Section 3.1 | C = Minor L = Unlikely Low Risk | Y | Condition 23, 24, 25, 26, 27, 28, 29 and 30 | N/A |

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

Note 2: Proposed Licence Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

4. Consultation

Table 5 provides a summary of the consultation undertaken by the department.

Table 5: Consultation

| Consultation method | Comments received | Department response |
|---|--|---------------------|
| Local Government Authority advised of proposal 29 January 2026. | Comment due 12 February 2026. The City of Karratha did not respond | Noted. |
| Licence Holder was provided with draft amendment on 18 February 2026. | The Applicant responded on 4 March 2026 requesting to waive the consultation period and amend the licence. | Noted. |

5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

5.1 Summary of amendments

Table 6 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Licence as part of the amendment process.

Table 6: Summary of licence amendments

| Condition no. | Proposed amendments |
|--------------------------|--|
| Condition 23 Table 8 | Construction conditions to construct the ISO Container modular system |
| Condition 24 | Environmental Compliance Report submission. |
| Condition 25 | Environmental Compliance Report Requirements. |
| Condition 26 | Time limited operations commencement and duration. |
| Condition 27 | Time limited operations commencement and duration. Time limited operations of 180 days should allow sufficient time to process the oil sludge waste. |
| Condition 28 Table 9 | Time limited operation requirements and limits. |
| Condition 29 Table 10 | Time limited operations waste acceptance limits. |
| Condition 30 | Waste processing for oil sludge. |

| | |
|--------------------------|---|
| Table 11 | |
| Condition 31 Table 12 | Monitoring of inputs and outputs from the oil sludge waste processing. |
| Condition 32 | Compliance Report for Time-limited operations. |
| Condition 33 | Compliance reporting requirements for Time limited operations. |
| Definitions | Table re-numbered. Inclusion of ISO Container Modular System and IBC definition. |
| Schedule 1: Maps | New Map for location of ISO Container System Cleaning Area and ISO Container Modular System Layout Map. These maps identify the layout of the ISO Container System and the location of the ISO Container System Cleaning Area. |

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.