



Application for Licence

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

Licence Number	L9452/2024/1
Applicant	Lynam Enterprises Pty Ltd
ACN	666 513 382
File Number	DER2024/000434
Premises	Glenlynn Quarry Lot 1400 Lynam Road, Glenlyn Legal description Lot 1400 on Plan 119617 As defined by the Premises map attached to the issued licence.
Date of Report	21 October 2024
Decision	Licence granted

**MANAGER, RESOURCE INDUSTRIES
INDUSTRY REGULATION (STATEWIDE DELIVERY)**
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

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1. Decision summary

This Decision Report documents the assessment of potential risks to the environment and public health from emissions and discharges during the operation of the Premises. As a result of this assessment, Licence L9452/2024/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Decision 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 and overview of premises

On 15 August 2024, Lynam Enterprises Pty Ltd (the Applicant) submitted an application for a licence to the department under section 57 of the *Environmental Protection Act 1986* (EP Act).

The application is to seek a licence relating to crushing and screening activities at the Glenlynn Quarry, located within Lot 1400 on Plan 119617 (the Premises). The Premises is approximately 3.5 km south of the Town of Bridgetown.

The Premises relates to Category 12 (i.e., screening etc. of material) and an assessed production capacity of 81,000 tonnes per annual period under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations), which are defined in Licence L9452/2024/1. Crushing and screening activities will be undertaken once a year for up to six weeks at a time with the screened product to be stockpiled and sold on an as-needed basis. The infrastructure and equipment relating to the premises category and any associated activities which the department has considered in line with *Guideline: Risk assessments* (DWER 2017) are outlined in Licence L9452/2024/1.

Crushing and screening activities were originally assessed at the premises under Works Approval W6157/2018/1 issued to B & J Catalano Pty Ltd on 24 May 2019. W6157/2018/1 was to establish a crushing and screening circuit within Lot 1400 for stages 1-4 of the planned works. Excavation and crushing and screening were undertaken over the next four years, where up to 330,000 tonnes was crushed and screened. No valid licence was issued for the operations at the premises under Part V Division 3 of the EP Act, and there were no provisions for time-limited operations within Works Approval W6157/2018/1. Works approval W6157/2018/1 expired on 6 July 2023.

A second Works Approval W6351/2020/1 was issued to B & J Catalano Pty Ltd on 15 July 2020 for the crushing and screening operations for Stages 5-8 within Lot 1400. Before W6351/2020/1 was completed, the landowner terminated the contract with B & J Catalano Pty Ltd. Works approval W6351/2020/1 expired on 12 July 2023.

Works Approval W6843/2023/1 was issued to the Applicant (Lynam Enterprises Pty Ltd) on 05 December 2023 for the establishment of a crushing and screening circuit for Stages 5-8 within Lot 1400. Construction under the works approval was completed on 1 March 2024, with an Environmental Compliance Report (ECR) submitted to the department on 19 March 2024. An assessment of the ECR found that the Applicant was compliant with conditions of the Works Approval. Time Limited Operations (TLO) commenced at the premises on 19 March 2024 and were completed on 5 April 2024, with report on TLO, as required by conditions 16 and 17 of W6843/2023/1, submitted to the department on 20 May 2024. An assessment of the TLO report found that the Applicant was compliant with conditions 16 and 17 of the Works Approval.

Crushing and screening operating hours are limited to 7am – 5.30pm Monday to Saturday. Plant

equipment used while choring and screening at the premises include the following:

- Cat D9/D10 bulldozer;
- Cat 980 front-end loader;
- Striker 1320 (jaw) crusher;
- Finlay screen 693;
- Striker 25 metre stacker;
- Water cart;
- Staff amenities including site office, crib room and self-contained transportable toilet; and
- Mobile refuelling vehicle.

2.3 Noise emissions

Modelling for predicted noise emissions at the premises was undertaken by Lloyd George Acoustics and showed that with the inclusion of several noise bunds, activities at the premises will comply with the *Environmental Protection (Noise) Regulations 1997* between the hours of 7.00 am and 7.00 pm Monday to Saturday, not including Public Holidays (Lloyd George Acoustics 2023). The locations of the noise bunds are shown below in Figure 1.

While a technical review of the noise modelling found that the proposed activities would be able to comply with the *Environmental Protection (Noise) Regulations 1997* by more than 5 dB at any of the identified sensitive receptors, the department identified a number of minor components within the noise model that may comprise the robustness of the model's predictions. Nevertheless, noise emissions and the associated risk of potential impacts were considered to be low.

Consequently, W6843/2023/1 required the Applicant to undertake monitoring of noise emissions from the crushing and screening during time-limited operations. Monitoring of noise emissions from normal operational conditions was undertaken at the site on 19 March 2024 (as shown in F and a report was submitted to the department on 6 May 2024 (Lloyd George Acoustics 2024). The results of this report showed that during crushing and screening operations at the premises, noise emissions at the boundary to the closest sensitive receptor (directly west of the crushing and screening machinery; as shown in Figure 2) would comply with the relevant assigned noise levels during daytime hours, based on the crushing and screening machinery being located behind the product stockpile (noise bund)(Table 1).

Table 1: Noise level measurements at site boundary

Operational status	Duration	L _{A10} noise level (dB)	L _{Aeq} noise level (dB)	Comments
On	12:20 to 14:00	42	40	Operations audible when wind speeds decreased.
Off	14:00 to 14:15	40	37	No noise audible from site.

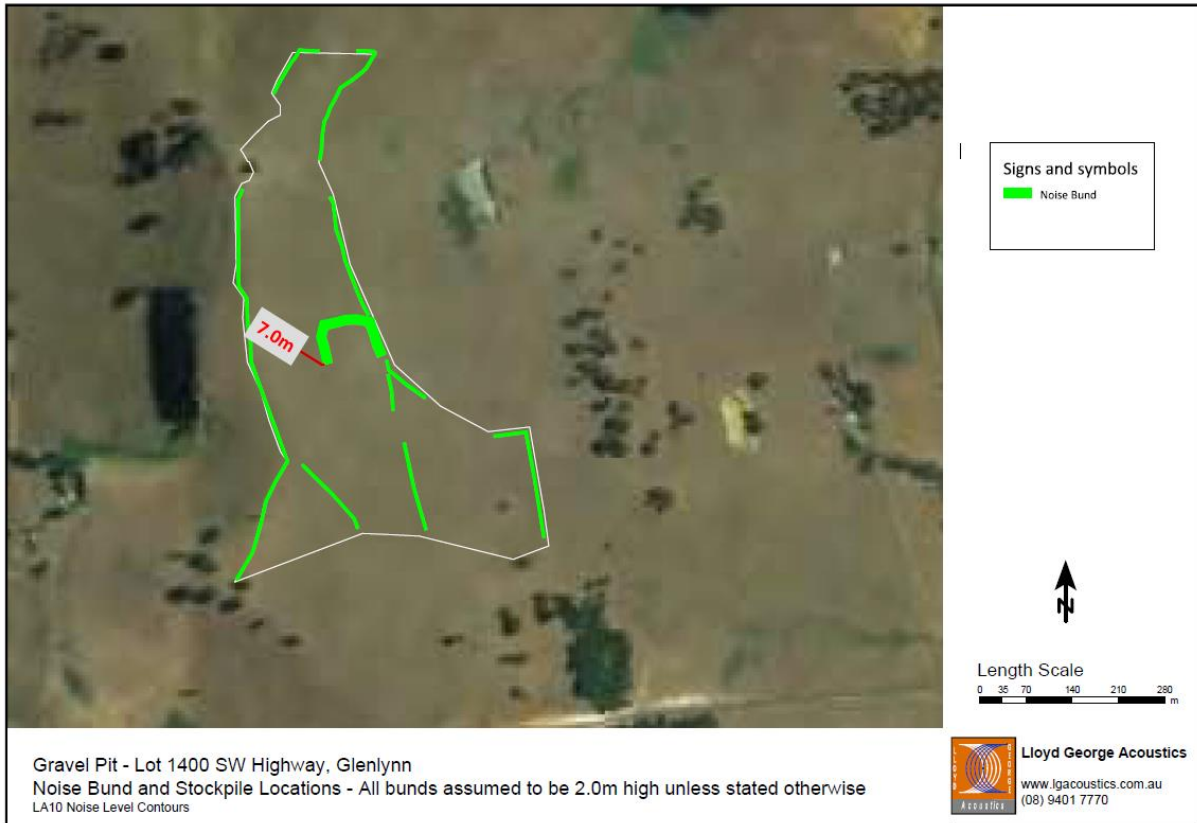


Figure 1: Noise bund locations



Figure 2: Noise monitoring locations

2.4 Development approval

Development approval (DA) P121/2018, issued by the Shire of Bridgetown-Greenbushes, is held by Lynam Enterprises Pty Ltd. The DA expires on 1 September 2026 and contains conditions regulating:

- **Hours of operation** – The operation is limited to Monday to Saturday, 7.30am to 5.30pm only, with no activity or haulage on Sundays and Public Holidays.
- **Noise management** – noise bunds required around crushing plant location to ensure compliance with the *Environmental Protection (Noise) Regulations 1997 (WA)*.
- **Dust management** – The operator is required to manage dust using the measures proposed in the Environmental Management Plan predominantly including, use of water carts, operational changes based on wind conditions, use of polymer-based soil stabilizers, gravel surfaced internal roads, covering truck loads, educating employees and contractors.

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 2017).

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 Decision Report are detailed in Table 2 below. Table 2 also details the proposed control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 2: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Operation			
Dust	Crushing of material, vehicle movements, lift-off from stockpiles and/or stored product, earthworks etc.	Air/windborne pathway	<p>Water tanker (15 kL) to be deployed for dust suppression on roads when required.</p> <p>During crushing, a spray-bar will be employed at all times</p> <p>Sprinklers to be used on stockpiles when required.</p> <p>Speed limit will be maintained on site to reduce the level of dust generated from vehicle movement.</p> <p>Employees trained in dust minimisation.</p> <p>A polymer-based spray-on soil stabiliser will be applied to topsoil and overburden stockpiles and noise bunds if they do not stabilise by</p>

Emission	Sources	Potential pathways	Proposed controls
			<p>crusting and grass regrowth.</p> <p>A complaints system will be established and managed by the Quarry Manager.</p> <p>Internal roads are surfaced with gravel to minimise dust lift-off.</p>
Noise	Crushing and screening of material	Air/windborne pathway	<p>Earthen bunds to be maintained throughout Lot 1400 (location shown in Figure 1).</p> <p>Operating hours are limited to 7.30 am to 5.30 pm Monday to Saturday.</p>
Contaminated stormwater	Sedimentation from exposed soils, stormwater runoff, uncontained spillage of hydrocarbons.	Surface water runoff	<p>Surface waters are managed in accordance with the DWER's Water Quality Protection Note 15: <i>Basic Raw Materials Extraction</i> (DWER, 2019) which considers runoff both from within the extraction area and from external catchments.</p> <p>5 sediment basins have been constructed to capture surface water runoff leaving the site. The basins are engineered to contain the total runoff from a 10% AEP (10-year ARI), 2-hour storm and from critical storms (those that produce the highest peak runoff) up to 100-year ARI.</p> <p>Boundary noise bunds act as diversion bunds to direct running surface water into the sedimentation basins.</p> <p>Machinery will be serviced off-site and refueled via a mobile refueling vehicle.</p>

3.1.2 Receptors

In accordance with the *Guideline: Risk assessment* (DWER 2017), the Delegated Officer has excluded employees, visitors and contractors of the applicant'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 3 and Figure 3 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 2016)).

Table 3: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
Town of Bridgetown	Approximately 3 km North of the premises.
Closest residential receptors	<p>Resident approximately 285 metres south-west of the western property boundary.</p> <p>Resident approximately 320 metres north-west of the northern property boundary.</p>

	<p>Resident approximately 420 metres east of the south-eastern property boundary (caretaker resident).</p> <p>Resident approximately 700 metres north-east of the northern property boundary.</p> <p>Resident approximately 800 metres east of the eastern property boundary.</p> <p>As shown in Figure 3.</p>
Environmental receptors	Distance from prescribed activity
Groundwater	Elevated profile of the site means localised groundwater is greater than 10 meters from the surface.
Surface water	Approximately 375 m west of the premises is a minor tributary to the Blackwood River, which is located about 2.5 km to the north.
Parks and Wildlife Managed Lands and Waters	<p>The Yornup State Forest is located approximately 600 metres west of the premises.</p> <p>Timber Reserve 164 is located approximately 740 metres east of the premises.</p>
Threatened Ecological Communities, Priority Ecological Communities, conservation significant flora or fauna	<p>No native vegetation is present within the proposed premises boundary. No clearing is proposed as a part of this proposed activities. The proposed project area is located within existing cleared agricultural land.</p> <p>Based on the DWER's Geographical Information system, no conservation significant flora or fauna is recorded within the proposed premises boundary.</p>

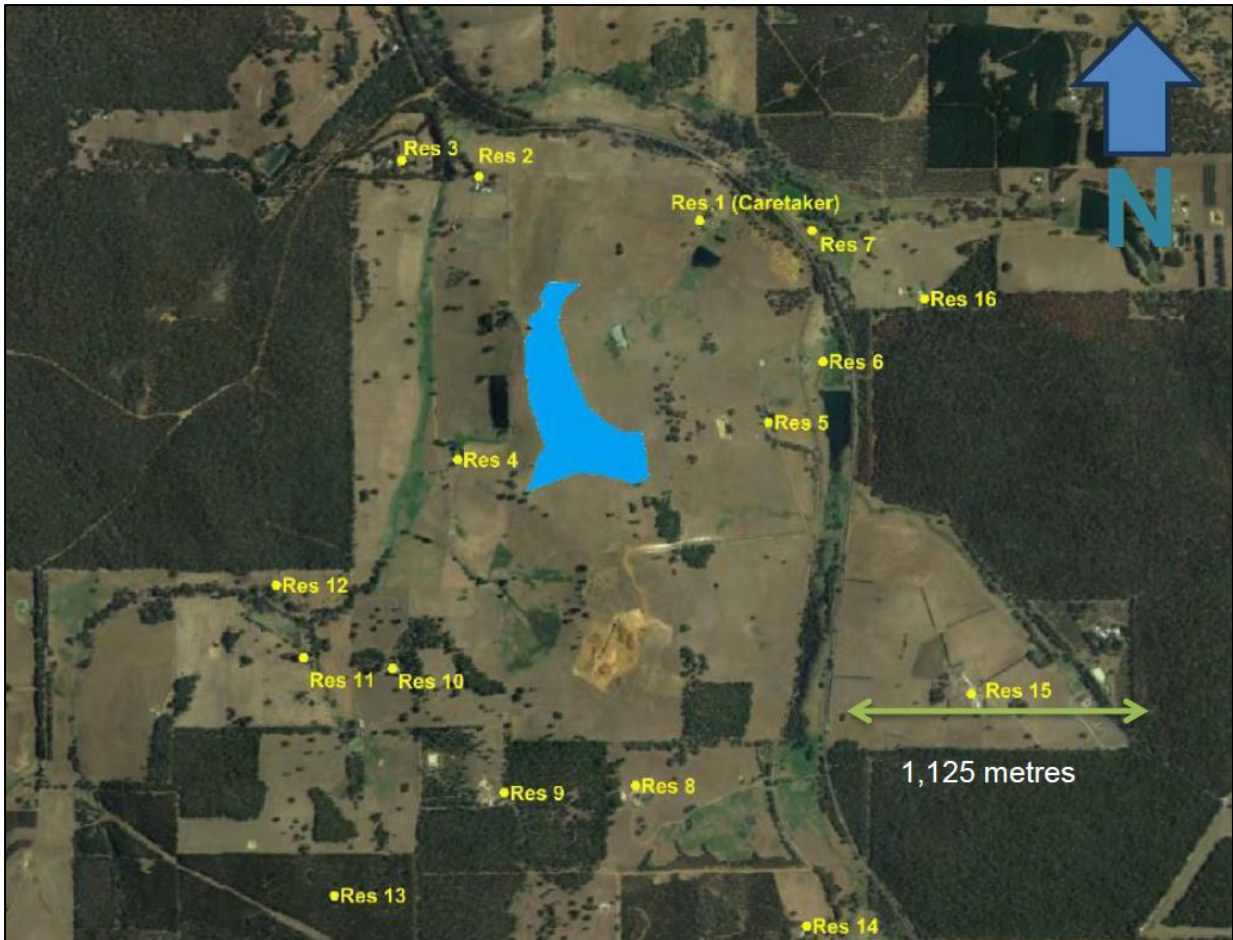


Figure 3: Distance to sensitive receptors

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk assessments* (DWER 2017) for each identified emission source and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the applicant 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 applicant'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 applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 4.

Licence L9452/2024/1 that accompanies this Decision Report authorises emissions associated with the operation of the Premises i.e. crushing and screening activities.

The conditions in the issued Licence, as outlined in Table 4 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

Table 4: Risk assessment of potential emissions and discharges from the Premises during operation

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Operation								
Screening, crushing, unloading, loading and storage of material Vehicle movements	Dust	Air/windborne pathway causing impacts to health and amenity	Surrounding residents (refer to Table 2)	Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Condition 1 – equipment water sprayers and dedicated water truck. Condition 2 – visible dust control. Condition 3 – dust prevention.	Water sprayers on the crushing unit are to be used during all crushing activities and a water tanker is to be used on roads and stockpiles to minimise dust lift-off. No visible dust generated from crushing and screening activities is to cross the premises boundary. Roads and other exposed areas are to be wet during use to avoid dust lift-off and on days of high winds, operation is to cease. The general provisions of the EP Act also apply.
	Noise	Air/windborne pathway causing impacts to health and amenity	Surrounding residents (refer to Table 2)	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Y	Condition 1 – maintaining earthen noise bunds.	Earthen bunds are to be maintained at the correct location and be 7 metres high to ensure noise emissions from operations on site meet the standards set in the <i>Environmental Protection (Noise) Regulations 1997</i> . The general provisions of the EP Act and the <i>Environmental Protection (Noise) Regulations 1997</i> also apply.
	Sediment laden stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality	Unnamed creek 375 m west of the premises.	Refer to Section 3.1	C = Minor L = Rare Low Risk	Y	Condition 1 - Maintain sediment basins. Condition 4 – stormwater	5 sediment basins are to be maintained to achieve a containment of at least the total runoff from a 10% AEP (10-year ARI). Contaminated stormwater is to

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Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
							management. Condition 5 – capturing contaminated stormwater. Condition 6 – spill recovery management. Condition 7 – contaminated solids and liquid storage and disposal.	be captured and retained onsite. Environmentally hazardous material including fuel, oil or other hydrocarbons are to immediately be recovered. Recovered environmentally hazardous material to be stored in impermeable containers prior to disposal off-site. The general provisions of the EP Act and the <i>Environmental Protection (Unauthorised discharge) Regulations 2004</i> also apply.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2017).

Note 2: Proposed applicant 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
Application advertised on the department's website on 12 September 2024.	None received.	N/A
Application advertised on The West Australian on 16 September 2024.	None received.	N/A
Shire of Bridgetown-Greenbushes advised of proposal on 17 September 2024.	None received.	N/A
Surrounding residents at Lot 1, Lot 101, Lot 102, Lot 810 and Lot 963 advised of proposal on 17 September 2024.	None received.	N/A
Applicant was provided with draft documents on 18 October 2024	No comments. Applicant waived the remainder of the consultation period.	Noted.

5. Conclusion

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

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2016, *Guideline: Environmental siting*, Joondalup, Western Australia.
3. DWER 2017, *Guideline: Risk assessments*, Joondalup, Western Australia.
4. Lloyd George Acoustics, 2023, *Environmental Noise Assessment – Gravel Extraction Pit, Lot 1400 South West Hwy, Glenlynn*, Hillarys, WA.
5. Lloyd George Acoustics, 2024, *Environmental Noise Assessment – Lot 1400 South West Hwy, Glenlynn*, Hillarys, WA.