



Application for Works Approval

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

Works Approval Number W2965/2025/1

Applicant Darlot Mining Company Pty Ltd

ACN 165 235 245

File number APP-0028621

Premises Darlot Gold Mine
Darlot Road, Lake Darlot WA 6438
Mining tenements M37/155

Date of report 15 August 2025

Decision Works approval granted

Adam Green
A/MANAGER, WASTE INDUSTRIES
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 construction and operation of the premises. As a result of this assessment, works approval W2965/2025/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this decision report, the Department of Water and Environmental Regulation (the department; DWER) 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 17 April 2025, the applicant submitted an application for a works approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act).

The application is to undertake construction works relating to a putrescible landfill and an inert landfill within Mining Tenements M37/155. The premises is approximately 54 km east of town of Leinster. Darlot Mining Company Pty Ltd (the applicant) currently holds two active registrations from the department. Registration R2351/2013/1 is for Category 85 – sewage facility, located within Mining Tenements M37/155, M37/252, M37/608, M37/592, and M37/667. The other Registration R2352/2013/1 is for Category 89 – putrescible landfill site, located within Mining Tenement M37/252. Currently, the Darlot Project accepts approximately 1,500 tonnes of putrescible waste per year under R2352/2013/1.

The anticipated throughput for the new landfill facilities is estimated at 520 tonnes per annual period, comprising up to 500 tonnes of inert waste (including tyres) and up to 20 tonnes of putrescible waste from Darlot operations.

The proposed new putrescible landfill will be located within the Darlot Waste Rock Dump and is designed to accept up to 20 tonnes of biosolids per year. The total footprint of the excavated trench will be 0.016 hectares, with the cell measuring 20 m × 8 m × 4 m. The biosolids will be sourced from the registered sewage treatment facility (Registration R2351/2013/1) as well as onsite septic tanks. Cover will be applied to the biosolids after each disposal event.

The proposed inert landfill involves the expansion of the existing facility, which currently operates as a <20 tonne per annum site. It is situated within an exhausted mining pit void, therefore no additional earthworks or construction activities are required. Inert waste, including tyres, will be placed progressively along a windrowed tip head, with monthly coverage applied as the disposal area extends.

The premises relates to the category and assessed production / design capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in works approval W2965/2025/1. 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 2020) are outlined in works approval W2965/2025/1.

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 construction and operation which have been considered in this decision report are detailed in Table 1 below. Table 1 also details the control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 1: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Construction			
Dust	Construction of a putrescible landfill area within Mining Tenement M37/155	Air / windborne pathway	None proposed.
Noise			
Dust	Construction of an inert landfill area within Mining Tenement M37/155	Air / windborne pathway	The inert landfill will be located within an exhausted mining pit void.
Noise			
Operation			
Dust	Operation of putrescible landfill and inert landfill within Mining Tenement M 35/155	Air / windborne pathway	The proposed landfill facilities are designed to handle up to 520 tonnes of waste annually - 500 tonnes of inert and 20 tonnes of putrescible waste only.
Noise			
Odour		Air / windborne pathway	Putrescible waste will be covered after each disposal event, while inert waste including tyres will be covered monthly
Windblown waste		Air / windborne pathway	Putrescible waste will be covered after each disposal event, while inert waste including tyres will be covered monthly. A 3 m firebreak will be maintained around the boundary of the premises.
Leachate		Infiltration into soil and	Putrescible landfill area will be greater than or equal to 5 m from groundwater.

Emission	Sources	Potential pathways	Proposed controls
		groundwater	Groundwater levels in the vicinity of the proposed landfill areas are approximately 10 meters below ground level.
Firewater		Overland runoff into surface water Infiltration into soil and groundwater	Minimise surface water runoff entering the landfill cells with safety bunds around perimeter of each landfill area.
Contaminated stormwater			
Landfill gas		Air / windborne pathway	None proposed.
Fire		Air / windborne pathway	A 3 m firebreak will be maintained around the boundary of the premises. Putrescible waste will be covered after each disposal event, while inert waste including tyres will be covered monthly.
Pest and vermin		Air / windborne pathway	Putrescible waste will be covered after each disposal event, while inert waste including tyres will be covered monthly. Windrows to control fauna access.

3.1.2 Receptors

In accordance with the *Guideline: Risk Assessment* (DWER 2020), the Delegated Officer has excluded the applicant's employees, visitors, and contractors 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 and Figure 1 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
None nearby	
Environmental receptors	Distance from prescribed activity
Surface water lines	Few minor water lines flowing across the proposed premises area
Proclaimed <i>Right in Water and Irrigation Act 1914</i> area	Premises located within proclaimed Goldfield Groundwater area
Groundwater	The depth to groundwater is approximately 10 m below ground level. Groundwater licence (Instrument Number: 179191) within the proposed prescribed premises area
Cultural receptors	Distance from activity / prescribed premises
Aboriginal heritage site	HORSEMAN'S GULLY - ACH-00000510 – approximately 400 m south of the premises

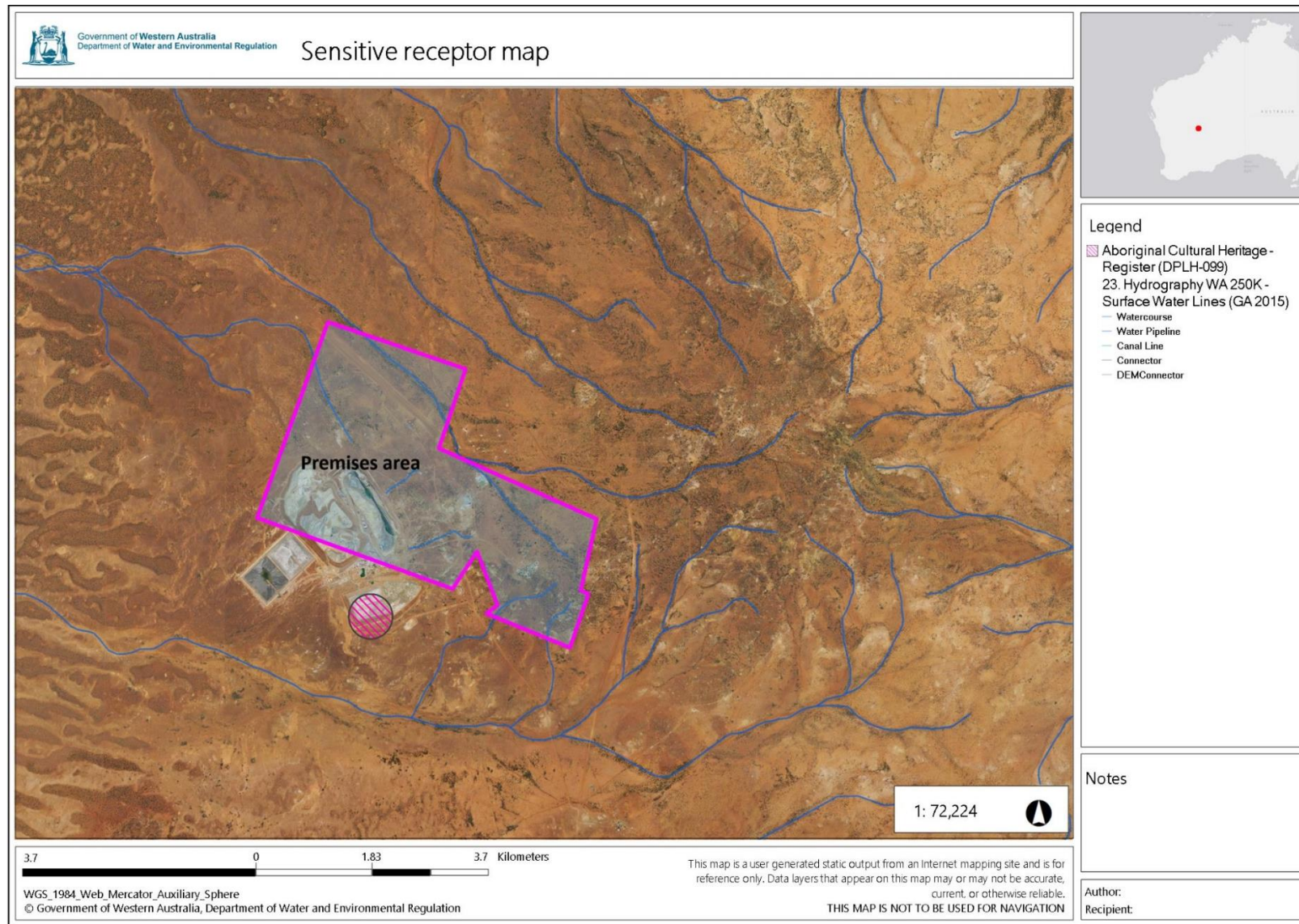


Figure 1: Distance to sensitive receptors

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IR-T13 Decision report template (short) v3.0 (May 2021)

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) 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 works approval 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 3.

Works approval W2965/2025/1 that accompanies this decision report authorises construction only. The conditions in the issued works approval, as outlined in Table 3 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence is required to authorise emissions associated with the ongoing operation of the premises. A risk assessment for the operational phase has been included in this decision report, however licence conditions will not be finalised until the department assesses the licence application.

Table 3: Risk assessment of potential emissions and discharges from the premises during construction and operation

Risk events					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Construction								
Construction of putrescible landfill and inert landfill within Mining Tenement M 35/155	Dust	Air / windborne pathway causing impacts to health and amenity	Aboriginal heritage place ~ 400 m south of the premises boundary Minor surface line within the premises	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	Condition 4	Emission to be regulated under the general provisions of the EP Act
	Noise		no nearby receptors	Refer to Section 3.1	n/a	n/a	n/a	Emission to be regulated under the general provisions of the EP Act
Operation								
Operation of putrescible landfill and inert landfill within Mining Tenement M 35/155	Dust	Air / windborne pathway causing impacts to health and amenity	Aboriginal heritage place ~ 400 m south of the premises boundary Minor surface line within the premises	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	Conditions 1 and 4	Emission to be regulated under the general provisions of the EP Act
	Noise	Air / windborne pathway causing impacts to health and amenity	no nearby receptors	Refer to Section 3.1	n/a	n/a	n/a	Emission to be regulated under the general provisions of the EP Act

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Risk events					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
	Windblown waste	Air / windborne pathway causing impacts to health and amenity	Aboriginal heritage place ~ 400 m south of the premises boundary Minor surface line within the premises	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	Conditions 1 and 4	The Delegated Officer considers that the Applicant's proposed controls are likely to be sufficient at mitigating risk of windblown waste
	Odour	Air / windborne pathway causing impacts to health and amenity	no nearby receptors	Refer to Section 3.1	N/A	Y	n/a	n/a
	Leachate	Infiltration into soil and groundwater	Proclaimed Goldfield Groundwater area Minor surface line within the premises	Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Condition 4	The Delegated Officer considers that the Applicant's proposed controls are likely to be sufficient at mitigating emissions of leachate, firewater and contaminated stormwater.
	Firewater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality		Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Conditions 1 and 4	
	Contaminated stormwater	Infiltration into soil and groundwater		Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Conditions 1 and 4	

Risk events					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
	Landfill gas	Air / windborne pathway causing impacts to health and amenity	Aboriginal heritage place ~ 400 m south of the premises boundary Minor surface line within the premises	Refer to Section 3.1	C = Major L = Unlikely Medium Risk	Y	Condition 4	Due to the relatively low annual throughput of waste, the delegated officer determined that any landfill gas generated within the cells will passively vent.
	Fire	Air / windborne pathway causing impacts to health and amenity		Refer to Section 3.1	C = Major L = Unlikely Medium Risk	Y	Conditions 1 and 4	The Delegated Officer considers that the Applicant's proposed controls are likely to be sufficient at mitigating fire related emissions
	Pest and vermin	Air / windborne pathway causing impacts to health and amenity		Refer to Section 3.1	C = Minor L = Possible Medium Risk	Y	Conditions 1 and 4	The Delegated Officer considers that the Applicant's proposed controls are likely to be sufficient at mitigating risk of pest and vermin.

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

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

4. Consultation

Table 4 provides a summary of the consultation undertaken by the department.

Table 4: Consultation

Consultation method	Comments received	Department response
Application advertised on the department's website on 9 June 2025	None received	N/A
Local Government Authority advised of proposal on 14 July 2025	None received	N/A
Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) advised of proposal 16 June 2025	DMIRS replied on 16 June 2025, stating that the proposed works appear to align with existing approvals and that it does not have any formal comments to provide.	Noted.
Applicant was provided with draft documents on 17 July 2026	Refer to Appendix 1	Refer to Appendix 1

5. Conclusion

Based on the assessment in this decision report, the delegated officer has determined that a works approval 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) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.

Appendix 1: Summary of applicant's comments on risk assessment and draft conditions

Condition	Summary of applicant's comment	Department's response
Condition 3	The applicant has requested to amend Condition 3, specifically to simplify the condition by removing the requirement for certification by a suitably qualified civil or structural engineer. This request is based on the fact that the proposed putrescible landfill cell and inert landfill cell are located within the Darlot waste rock dump and an existing mining void, respectively. As such, there are no major construction activities associated with this infrastructure	The Delegated Officer has agreed to amend Condition 3 by removing the requirement for certification by a suitably qualified civil or structural engineer, as well as the requirement to submit an as-constructed plan.