FICIAL

Decision Report

Application for Works Approval

Part V Division 3 of the Environmental Protection Act 1986

Works Approval Number W6850/2023/1 Applicant Peel Resource Recovery Pty Ltd ACN 149 428 697 File number DER2023/000631 **Premises** Part of Lot 1131 on Deposited Plan 104973 Certificate of Title Volume 996 Folio 149 And Part of Lot 1464 on Deposited Plan 115189 Certificate of Title Volume 1003 Folio 766 As defined by the GPS points in Schedule 2 of the issued works approval With access on Lots 2035 and 12736 Spring Gully Road, Southampton Date of report 25 January 2024 Decision Works approval granted

MELISSA CHAMBERLAIN A/MANAGER. RESOURCE INDUSTRIES

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

Table of Contents

1.	Decision summary1					
2. Scope of assessment						
	2.1	Regulatory framework	1			
	2.2	Application summary and overview of premises	1			
3.	Risk a	assessment	1			
	3.1	Source-pathways and receptors	1			
		3.1.1 Emissions and controls	1			
		3.1.2 Receptors	7			
	3.2	Risk ratings	9			
4.	Cons	ultation	.14			
5.	Conc	lusion	.14			
Refe	erence	S	.15			
App	endix	1: Application validation summary	.16			

Table 1: Proposed applicant controls	2
Table 2: Sensitive human and environmental receptors and distance from prescribed activity	.7
Table 3: Risk assessment of potential emissions and discharges from the premises during construction, and time limited operations.	10
Table 4: Consultation	14

re 1: Distance to sensitive receptors8
--

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 W6850/2023/1 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 21 September 2023, Peel Resource Recovery Pty Ltd (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 relates to mobile crushing and screening equipment and associated machinery to be brought onto and used on Part of Lot 1131 on Deposited Plan 104973 and Part of Lot 1464 on Deposited Plan 115189 (the premise) for the proposed excavation and screening of gravel materials from the premise.

The boundary of the premises is depicted in Figure 1. The premises is located approximately 5 km west of Greenbushes and will be accessed via entry roads on Lots 2035 and 12736 Spring Gully Road, Southampton.

The premises relates to the category and assessed production capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in works approval W6850/2023/1. The 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 W6850/2023/1.

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 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.

Emission	Sources	Potential pathways	Proposed controls
Construction			
Dust Noise	Installation/mobilisation of mobile crushing equipment and screener	Air/windborne pathway causing impacts to health and amenity	No controls provided.
Operation			
Dust	 Topsoil stripping and stockpiling Rip and blade laterite to crusher site Crushing, screening and stockpiling of gravel Loading of trucks from stockpiles Transport of gravel from site Rehabilitation of completed stages 	Air/windborne pathway causing impacts to health and amenity.	 Topsoil stripping Stockpiles of topsoil will be created by pushing the soil to the edge of the excavation area where it will provide screening. Stockpiles will be in sheltered areas located low in the landscape, below natural surface, where lift-off from the prevailing wind is minimised. If necessary, stockpiles will be treated with sprays or polymer binders. Rip and blade laterite to crusher site Excavation will be undertaken as low in the pit as permitted by the quarry planning to provide maximum shelter for dust protection. Crushing, screening and stockpiling of gravel Raw material dampened prior to being placed in crusher. Face hoppers and drop points will be located on the pit floor below natural ground. A water cart will be located on site or will be available during periods when material is being moved or crushing is being conducted. If and when dust is caused to occur during these periods, the water cart will be

 Table 1: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
			 employed to damp down the areas of concern. Water sprays, mists and additives to crushing and screening cycles will be added with screen covers and misters at drop points as required. Processing and stockpiles will be located more than 900m from dwellings. Loading of trucks from stockpiles Handling of materials will be kept to a minimum If necessary, loads will be dampened prior to loading/unloading. Loading area surrounded by stockpiles and hardstand will be dampened to prevent dust lift-off. Transport of gravel from site Watering of the access road and Springdale road during transport operation. The access road will be treated as required with dust sealant, to reduce the water required for dust management. Internal roads will be surfaced with gravel. A 30km per hour speed limit will apply to trucks on these internal roads at all times. Internal road, traffic and loading areas will be dampened as required. All trucks will be covered for preventing dust generation in transit. All trucks will be surfaced with gravel. A 30km per hour speed limit will apply to trucks on these internal roads at all times. Internal road, traffic and loading areas will be dampened as required.
			 Education Employees and contractors working on site will be provided with information on how to minimise dust emissions.

Emission	Sources	Potential pathways	Proposed controls
			 Stockpiles If dust becomes an issue when unattended during summer months dust suppression will be maintained which could include the use of a water cart, sprinkler systems on stockpiles, windbreak materials, surface stabilisation sprays and other measures as required. General No burning of waste will occur. The hardstand is to be maintained in good condition (free of potholes, rills and product spillages). If dust can be seen to be carried outside the site, the source of dust will be identified, and measures implemented to prevent or minimise further dust emissions. If there are high winds and conditions are dusty, then operations will be stopped until such time as adequate wetting down has occurred or conditions have changed. A sign will be erected at the entrance to the pit with details and contacts of the operator who can be contacted if excess duct is generated. A complaints system will be put in place, and these will be recorded by the Operations Manager and acted on promptly. Detailed dust management is included in the environmental management plan which is attached to the Works Approval application.
Noise		Direct and reflective pathways causing impacts to health and amenity.	 Topsoil The first excavation will be pushing the pushing of topsoil and overburden to the east, to form an eastern perimeter bund to 2 metres high. Excavation (Rip and blade)
			The pit will operate behind the bund at an excavation depth 2-4

Emission	Sources	Potential pathways	Proposed controls
			 metres below the height of the top of the bund. Crusher/screener Once product stockpiles are available, the crushing and screening plant will be surrounded by the product stockpiles, thereby, attenuating noise from the plant. The crushing plant will be mobile plant located adjacent to the face and bund and landform to maximise noise mitigation and noise carry to the east. Quietest equipment available is used and maintained to Env Prot (Noise) Regs 1997 Standards. Late model equipment will be utilised with reduced noise level outputs. The crushing plant operates occasionally and will be located over the ridge from the two dwellings. The site complies with the EPA Generic Buffer distances of 500 metres. The closest dwellings are more than 900 metres to the north and west. The mobile crusher and screening plant will be located on the floor of the pit in a location to maximize landform screening when road base is being produced. The solid walls of the pit perimeter will provide significant noise attenuation to the closest dwellings. Loading area surrounded by stockpiles. Machine reverse alarms with lower frequency output units will be utilized.

Emission	Sources	Potential pathways	Proposed controls
Sediment laden		pathways Overland runoff	 Overburden overburden is to be pushed up to form a bund along the western and northern edges of extraction area to provide a separation to noise when this does not compromise future excavation. General Operations will be restricted to 7am to 5pm Monday to Saturday inclusive, excluding public holiday, for transport, processing and excavation. Employees and contractors working on site will be provided with information on how to minimise noise emissions. All plants will be maintained in good condition with efficient mufflers and noise shielding. A notice has been erected at the front gate that provides emergency contact details for the Operations Manager. A complaints system will be put in place and these will be recorded by the Operations Manager and acted on promptly. Detailed noise management is included in the environmental management plan which is attached to the Works Approval application. Excavation will be conducted in stages to ensure stormwater
stormwater		potentially causing ecosystem disturbance or impacting surface water quality.	 from precipitation is contained within the pit. The existing sump/dam in the southeastern corner captures any sediment from on site. Additional sumps/dams will be constructed as necessary up slope in combination with contour drains to provide additional water and sediment trapping retention.
Spills or leaks of hydrocarbons		Permeate the onsite soil.	No controls provided.

3.1.2 Receptors

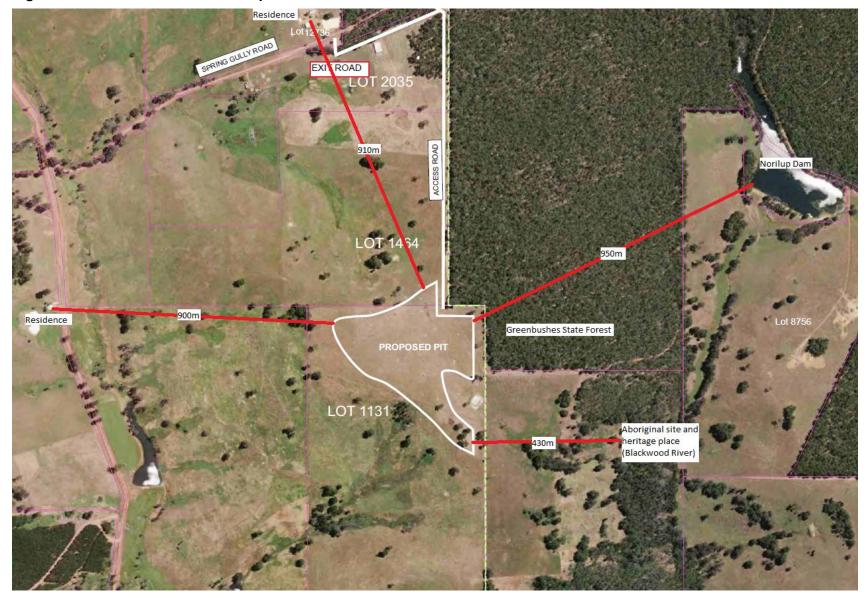
In accordance with the *Guideline: Risk Assessment* (DWER 2020), the Delegated Officer has excluded the applicant's employees, visitors, and contractors from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation. Table 2 and Figure 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
Residential Premises	900m west and 910m north of the proposed boundary of the premise
Aboriginal sites and heritage places Blackwood River (Mythological part of Place_ID 20434)	430m east of the proposed boundary of the premise
Recreational users of Norilup Dam (Rainbow Trout fishing)	930m north-east of the proposed boundary of the premise
Environmental receptors	Distance from prescribed activity
Blackwood River	430m east of the proposed boundary of the premise
Water body (Norilup Dam)	930m north-east of the proposed boundary of the premise
Registered Black Cockatoo roosting sites	3.7km ENE
	4.1 km NNW
	No registered breeding sites have been identified near the prescribed activity.
	Note: due to the distance from the prescribed activity this receptor has been screened from the risk assessment.
Groundwater	At approximately 20m below ground level
	Note: due to the distance to groundwater this receptor has been screened from the risk assessment.
Greenbushes State Forest	Approximately 30m east



Figure 1: Distance to sensitive receptors



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 W6850/2023/1 that accompanies this decision report authorises construction (mobilization of equipment) and time-limited operations. 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 following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the premises materials screening activities. 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 premis	es during co	onstruction,	and time limited op	erations.
	Risk rating ¹				

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/Installati	Construction/Installation									
	Dust				C = Slight L = Unlikely Low Risk			Installing the equipment in accordance with the corresponding design requirements is likely to reduce to risk of excess dust emissions. Installation is expected to occur over a short period		
Installation/ mobilisation of mobile crushing equipment and screener	Noise	Air / windborne pathway causing impacts to health and amenity	Residences 840m west and 900m north Aboriginal sites and heritage places 430m east Blackwood River 430m east Greenbushes State Forest adjacent to eastern boundary Norilup Dam 930m north-east (including recreational users)	No controls provided	C = Slight L = Unlikely Low Risk	N/A	Conditions 1, 2, 3	Installing the equipment in accordance with the corresponding design requirements is likely to limit the amount of noise produced during installation. Installation is expected to occur over a short period		

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				
Time limited operati	ons							
Topsoil stripping Screening, crushing, unloading, loading and storage of material. Vehicle movements	Dust	Air / windborne pathway causing impacts to health and amenity	Residences 840m west and 900m north of the proposed boundary of the premise Aboriginal sites and heritage places 430m east Blackwood River 430m east Norilup Dam 930m north-east Greenbushes State Forest adjacent to eastern boundary of the premise	Refer to Section 3.1	C = Moderate L = Possible Medium Risk	Y	Condition 8, 9	The Delegated Officer considers the applicant's proposed controls to be sufficient at mitigating dust risk. Condition 8 has been placed on the works approval to prohibit visible dust leaving the boundary which is expected to be achieved through the applicant's implementation of proposed controls. Condition 9 has been placed on the works approval to require visual monitoring of dust levels and efficacy of dust suppression measures. This information will be used in a future licence application to inform the suitability of the current dust controls. In the event that significant dust emissions occur during time limited operations and/or complaints are received the department will review the need for more stringent controls within a licence application for the ongoing operation of the premises.

Risk events	Risk events					Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
	Noise	Direct and reflective pathways causing impacts to health and amenity	Residences 900m west and 910m northwest of the proposed boundary of the premise Aboriginal sites and heritage places 430m east Recreational users of Norilup Dam 930m north-east	Refer to Section 3.1	C = Moderate L = Possible Medium Risk	Y	Conditions 7, 13-16	The Delegated Officer considers that the applicant's proposed controls are likely to ensure that the Noise Regulations will be met, however noise verification monitoring during time limited operations will be required to confirm this. In the event that noise monitoring indicates that the Noise Regulations are unlikely to be met, the works approval holder will be required to propose measures to be implemented to mitigate noise Regulations.
	Sediment laden stormwater	Overland runoff potentially causing ecosystem disturbanc e or impacting surface water quality	Aboriginal sites and heritage places 430m east Blackwood River 430m east	Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Condition 11	N/A

Risk events					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Sources / activities	Sources / activitiesPotential emissionPotential pathways and impactReceptorsApplicant controls							
	Spills or leaks of hydrocarbons	Permeate the onsite soil	Soil	No controls provided	C = Slight L = Unlikely Low Risk	Ν	Condition 10	N/A

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 13 November 2023	None received	N/A
Application advertised in The West Australian newspaper on 13 November 2023	None received	N/A
Shire of Donnybrook Balingup (LGA) advised of proposal on 15 November 2023.	The LGA has no objections to the issuing of a works approval.	Noted
Department of Planning, Lands and Heritage advised of proposal on 15 November 2023	None received	N/A
South West Aboriginal Land and Sea Council advised of proposal on 15 November 2023	None received	N/A
Nearby residents advised of proposal on 15 November 2023	None received	N/A
Applicant was provided with draft documents on 6 December 2023	Incorrect annual throughput listed on cover page	Corrected

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: Application validation summary

ż

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)							
Application type	Application type						
Works approval	\boxtimes	W6850/2023/1					
Date application received		21 September 2023					
Applicant and premises details							
Applicant name/s (full legal name/s)		Stuart Cross (Director of Peel Resource Recovery Pty Ltd)					
Premises name		Peel Resource Recovery Pty Ltd					
Premises location		Lot 1131 and 1464 Spring Gully Road, Southampton - Owned by City World Pty Ltd (MJ Crombie and PA Crombie)					
Local Government Authority		Shire of Donnybrook-Balingup					
Application documents							
HPCM file reference number:		DER2023/000631					
Key application documents (additional to application form):		Excavation and Rehabilitation Management Plan (included as attachment 6A of the WA application)					
Scope of application/assessment							

	Works approval
	Construction will be the installation/mobilisation of the crushing and screening plant.
	Future application for a licence – operational activities will include
	 Topsoil and overburden to be removed and stockpiled in 1-2m high piles adjacent to the excavation area for future rehabilitation use Laterite duricrust and gravel will be extracted from a 9Ha area over 1 to 5 years Excavation proposed within 4 cells
Summary of proposed activities or changes to existing operations.	 Excavation proposed within 4 cells Excavation proposed within 4 cells Sale of the second second
	depending on the depth.The volume of excavated soil is expected to be 50-70,000
	tonnes per yearAll laterite gravel is to be used by Talison Lithium Pty Ltd

SECTION 1: APPLICATION SUMMARY (as	s updated from validation checklist)
	 Annual throughput may be up to 100,000 tonnes per year Operation of a mobile crushing plant Operation of a screening plant Screened and sorted crushed product will then be transported off site by semi-trailer trucks or similar.
	Contra and and and and and and and and and an
	Prescribed Premises Boundary Stages of extraction Detention Ponds (From EMP) Contours 1mAHD (from EMP) Water Movement Contour Bunds (Indicative)
	Diversion Bund Cadastre Access Road
	Water management within the pit will provide for retention of the 10% Annual Exceedance Probability (AEP) for a 2-hour rainfall event. The detention ponds are designed to allow the retention of 805m3 within a 2.5ha stage

SECTION 1: APPLICATION SUMMAR	RY (as	updated	d from validation of	checklist)
Category number/s (activities that caus	e the	premises	to become prescri	bed premises)
Table 1: Prescribed premises categorie	es			
Prescribed premises category and descriptionProposed production or design capacity				
		ected to b	f excavated soil is e 50-70,000 tonne:	5
Legislative context and other approv	/als			
Has the applicant referred, or do they intend to refer, their proposal to the Ef under Part IV of the EP Act as a significant proposal?	PA	Yes 🗆	No 🗵	Referral decision No: Managed under Part V □ Assessed under Part IV □
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?		Yes □	No 🛛	Ministerial statement No: EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?		Yes □	No 🗵	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?		Yes ⊠	No 🗆	Certificate of title General lease Expiry: Mining lease / tenement Expiry: Other evidence Permission granted by site owners for the applicant to access and extract gravel from the premise (Attachment 1C of the WA application CM ref A2204942) Expiry: No expiry provided
Has the applicant obtained all relevant planning approvals?	t	Yes 🗆	No 🛛 N/A 🗆	Approval: Shire of Donnybrook- Balingup Development Approval P22059 Expiry date: 9 August 2028 Extractive Industry (Gravel) licence was issued on 22 nd September 2023.

SECTION 1: APPLICATION SUMMARY (as	s updated from validation of	checklist)
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes 🗆 No 🛛	CPS No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes 🗆 No 🛛	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes 🗆 No 🛛	Application reference No: Licence/permit No: Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes □ No ⊠	Name: N/A Type: Proclaimed Groundwater Area/Surface Water Area Has Regulatory Services (Water) been consulted? Yes No N/A Regional office: Swan Avon / Mid- West Gascoyne / Kwinana Peel / North West / South West / Goldfields / South Coast
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes □ No ⊠	Name: N/A Priority: N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to <u>WQPN 25</u>)? Yes □ No □ N/A ⊠
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous</i> <i>Goods Safety Act 2004, Environmental</i> <i>Protection (Controlled Waste) Regulations</i> <i>2004, State Agreement Act xxxx</i>)	Yes ⊠ No □	Dangerous Goods Safety Act 2004Fuel is required and blasting under the Dangerous Goods Safety (Explosives) Regulations 2007.Mines Safety and Inspection Act 1994The applicant has stated site will be registered under the SRS and a Project Management Plan, Risk Assessment and Emergency plans approved. The registration and risk management will be completed by the operator. The Project Management Plan will address all aspects of mining and ongoing occupational Health and Safety.

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)						
Yes 🗆 No 🛛	N/A					
Yes 🗆 No 🛛	No nearby wetlands					
Yes □ No ⊠	Classification: N/A Date of classification: N/A					
	Yes □ No ⊠ Yes □ No ⊠					