

FFICIAL

Application for Licence Amendment

Part V Division 3 of the Environmental Protection Act 1986

Licence Number	L9154/2018/1
Licence Holder	Drilline Pty Ltd
ACN	065 688 164
File Number	DER2018/000988-1
Premises	Warrawanda Creek Sand Project Mining tenements M52/1063, G52/294, L52/195 and L52/157 NEWMAN WA As defined by the Premises maps attached to the Revised Licence in Schedule 1
Date of Report	23/02/2024
Decision	Revised licence granted

A/MANAGER, RESOURCE INDUSTRIES REGULATORY SERVICES an officer delegated under section 20 of the *Environmental Protection Act 1986 (WA)*

Table of Contents

1.	Decision summary1						
2.	Scop	be of assessment1					
	2.1	Regulatory framework1					
	2.2	Amendment summary1					
3.	Risk	assessment2					
	3.1	Source-pathways and receptors					
		3.1.1 Emissions and controls					
		3.1.2 Receptors					
	3.2	Risk ratings6					
4.	Cons	sultation9					
5.	clusion10						
	5.1	Summary of amendments10					
Refe	erence	es11					
Арр	endix	1: Application validation summary12					
Tabl	e 1: Co	onsultation9					
Tabl	e 2: Su	Immary of licence amendments10					
Figu	re 1: Si	ite layout for L52/195 and G52/2942					
Figu	re 2 [.] S	and drving plant layout 2					

Figure 2: Sand drying plant layout2
Figure 3: Djakatina Hill public boundary and sensitive receptors surrounding the additional
tenements5

1. Decision summary

Licence L9154/2018/1 is held by Drilline Pty Ltd (Licence Holder) for the Warrawanda Creek Sand Project (the Premises), located at mining tenements M52/1063, G52/294, L52/195 and L52/157.

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 construction and operation of the Premises. As a result of this assessment, Revised Licence L9154/2018/1 has been granted.

The Revised Licence issued as a result of this amendment supersedes the existing Licence previously granted in relation to the Premises.

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 Amendment summary

On 5 September 2023, the Licence Holder submitted an application to the department to amend Licence L9154/2018/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The amendment request was initiated due the access track to M52/1063 (the Premises) being impassable following significant rainfall events. This amendment to Licence L9154/2018/1 will allow the Licence Holder to operate during all weather conditions. The following amendments are being sought:

- Addition of tenements to the Licence to allow category 12 screening activities on the newly acquired tenements (G52/294, L52/195 and L52/157);
- Relocation and operation of the existing Terex 683 mobile screening plant from tenement M52/1063 to G52/294;
- Relocation of the existing sand drying plant from tenement M52/1063 to L52/195; and
- Construction and operation of a second Striker SC185 mobile screening plant at G52/294.

The site layout for the additional tenements L52/195 and G52/294 is presented in Figure 1 which also details placement of the new infrastructure including the sand drying plant.

The sand drying plant uses solar drying and is stated that from a Licence Holder representative on 20 November 2023 that no noise emissions are associated from the sand drying plant. It is noted and confirmed from the Licence Holder representative that three conveyors will be used along with a cyclone dust extractor for the sand drying plant (Figure 2).



Figure 1: Site layout for L52/195 and G52/294



Figure 2: Sand drying plant layout

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 Amendment Report are detailed in Table below. Table 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	 Vehicle and mobile plant movement on site; and Screening infrastructure 	Transported by air or wind	 Barriers including dust covers and skirts will be fitted to all processing equipment (as practical); Water truck cannon used on stockpiles; Water truck spray will used on roads, hardstands and processing areas; Vehicle speed limits to reduce the generation of dust; and Haul truck loads will be fully covered during road transport. 	
Noise	 Vehicle and mobile plant movement on site; and Screening infrastructure including generators 		 Modern machinery will be used with mufflers and bafflers and will be maintained to meet manufacturer and Australian Standards; and Site works to occur between the hours of 6:00 and 18:00. 	
Sediment laden stormwater	 Stockpiles on site; and Working area 	Rainfall runoff	 f Windrow installed surrounding working area; and Spoon drains at low points 	

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 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)). Identified sensitive receptors are presented in Figure 3

Human receptors	Distance from prescribed activity
Capricorn Roadhouse (residential)	Approximately 250 m north of the proposed prescribed premises and 690 m north of the proposed location of the screening plants.
Great Northern Highway (users)	Approximately 220 m west of the proposed sand drying plant location and 500 m west of the proposed new location of the mobile screening plant.
Environmental receptors	Distance from prescribed activity
Native Vegetation	Native vegetation is located immediately adjacent to all boundaries of the new proposed tenements.
Heritage receptors	Distance from prescribed activity
Djakatitina Hill Type: Ceremonial, repository / cache camp or other	The new proposed tenements and operational areas are located within an Aboriginal site/heritage place listed on the departments internal database. DPLH have confirmed that the premises boundary does not intersect the <i>actual</i> heritage place boundary.
Jingudarrdi (Round Hill) Type: Ceremonial, Mythological.	Located approximately 0.5 km south of the proposed prescribed premises.

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

OFFICIAL



Figure 3: Djakatina Hill public boundary and sensitive receptors surrounding the additional tenements

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 in-complete 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 .

The Revised Licence L9154/2018/1 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. screening activities.

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

Risk Event	Risk Event			Risk rating ¹	Licence Holder's			
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls / comments
Construction	·			•	•			•
		Pathways Emissions being transported or assisted by	Great Northern Highway (220 m)		C = Minor L = Unlikely Medium Risk	Y	Condition 1 – Water truck available on site for dust control.	N/A
Placement of screens and associated equipment (sand drying plant) including vehicle movements (reversing beepers). Construction of stormwater channels and stormwater spoon drains.	Dust	air or wind offsite to receptors.	Djakatina Hill and Jingudarrdi (500 m)	Refer to Section 3.1.1	C = Minor L = Rare Low Risk	Y	Condition 1 – Water truck available on site for dust control.	N/A
	Dust and Noise	Causing impacts to health, reduced amenity or visual impairment to receptors.	Capricorn Roadhouse (250 m)		C = Minor L = Possible Medium Risk	Y	Condition 1 – Water truck available on site for dust control.	N/A
Operation					-		-	
	Dust	Pathways Emissions being	Great Northern Highway (220 m)	Refer to Section 3.1.1	C = Minor L = Unlikely Medium Risk	Y	Condition 1 – requirement for dust covers and skirts to be fitted. Condition 4 – Dust covers and skirts fitted and maintained.	N/A
			Djakatina Hill and Jingudarrdi (500 m)		C = Minor L = Unlikely Medium Risk	Y	Condition 1 – requirement for dust covers and skirts to be fitted. Condition 4 – Dust covers and skirts fitted and maintained.	N/A
Screening, unloading, loading and storage of material. Vehicle movements.	Dust and Noise	transported or assisted by air or wind offsite to receptors. Impact Causing impacts to health, reduced amenity or visual impairment to receptors.	Capricorn Roadhouse (690 m)		C = Minor L = Unlikely Medium Risk	Ν	Condition 4 – Dust covers and skirts fitted and maintained. Condition 4 – Water tuck to be used for dust suppression activities. Condition 5 – Operation times limited from 7:00 to 19:00.	It is understood that the Capricorn Village is a stopover place for travelers and accommodation for workers near Newman and is attached to the Capricorn Roadhouse which is an active service station. The Environmental Protection Authority (EPA) Guidance Note No. 3 (EPA 2005) provides for a 500 m buffer for 'screening works'. The location of the nearest mobile screening infrastructure is approximately 690 m from the nearest receptor, and therefore it is unlikely for noise impacts to occur. However, to reduce the potential for impacts on amenity from noise on the nearest receptor at night time, a condition restricting the operation of the screening infrastructure to 'day

Licence: L9154/2018/1

Risk Event					Risk rating ¹ Licenc	Licence Holder's		Justification for additional regulatory
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	controls sufficient?	Conditions ² of licence	controls / comments
								time hours' (as defined under the Environmental Protection (Noise) Regulations 1997 (Noise Regulations)) - between 7am and 7 pm Monday to Saturday has been placed on the licence.
								The Licence Holder is also required to comply with the assigned noise levels within the Noise Regulations at all times.
								A condition already exists on the current licence which requires all complaints to be recorded (including actions taken).
	Sediment laden stormwater	Pathways Emissions being transported via rainfall/stormwater offsite. Impact Causing impacts to health, reduced amenity or visual impairment to receptors.	Native Vegetation		C = Minor L = Unlikely Medium Risk	Y	Condition 1 – Requires contours, earthen bunding and spoon drains. Condition 7 – Stormwater to be managed so that it is captured and not released into the environment.	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 provides a summary of the consultation undertaken by the department.

Table 4: Consultation

Consultation method	Comments received	Department response
Shire of East Pilbara advised of proposal on 16 November 2023	None received	N/A
Department of Planning Lands and Heritage (DPLH) advised of proposal on 16 November 2023	DPLH provided confirmation that the new proposed prescribed premises boundary intersects the public boundary for aboriginal site ID 11237 (Djakatitina Hill) but not the actuality boundary as administer by DPLH.	Noted. The site ID 11237 (Djakatitina Hill) has been included in this assessment as a sensitive receptor.
	Therefore, based on the current information held by DPLH, no approvals under the <i>Aboriginal</i> <i>Heritage Act 1972</i> (AHA) are required in this instance. Please note that limited Aboriginal heritage surveys, as held by DPLH, have been completed over the subject land, as such it is unknown if there is Aboriginal heritage present.	
	Therefore, Drilline needs to be made aware of their obligations under the AHA.	
	If Drilline have any further questions regarding the AHA, they may submit their enquiry via the ACHknowledge portal. DPLH also advises Drilline regularly checks the Aboriginal Cultural Heritage Inquiry System (ACHIS) should new Aboriginal Cultural Heritage be reported within the subject area.	
Karlka Nyiyaparli (representative of Nyiyaparli People) advised of proposal on 16 November 2023	None received	N/A
Capricorn Bar and Grill and Capricorn Village advised of proposal on 7 December 2023 and phone calls were made on 6 December 2023, 5 January 2024 and a voicemail was left to seek a response	None received	N/A

Licence Holder was provided with draft amendment on 23 February 2024	bonded with no 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 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.

Condition no.	Proposed amendments			
Front Page	Amended correct File Number.			
	Added additional tenements to the premises details.			
Definitions	Typographical error in definition for Annual period. Proposed reporting period changed to 31 October to 30 October of the immediately following year.			
Condition 1	Removed the following infrastructure from the condition: Terex M1700 mobile screening plant, Turkeys nest dam, Striker SC185 mobile screening plant, Containment area and water truck. – as infrastructure has been constructed and construction compliance demonstrated in an Environmental Compliance Report submitted to the Department on 6 June 2021.			
	Added bunding and water truck requirements to the sand drying plant to assist with stormwater management and dust control.			
	Added Terex 683 mobile screening plant and striker SC185 mobile screening plant (Unit 2) and control requirements to the condition.			
Condition 4	Added operational requirements to mobile screening plant and sand drying plant.			
	Added turkeys nest dam and operating requirements (copied over from condition 1)			
Condition 5	Added condition for Licence Holder to take all reasonable containment area and bunding to condition 4 and its operations requirements as construction requirements of the infrastructure have been removed in condition 1 as the infrastructure has been constructed.			
Condition 6	Added condition to limit operating hours from 7:00 to 19:00.			
Schedule 1	Updated figures to represent amendments made to the Licence.			

Table 5: Summary of licence amendments

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.
- 4. Environmental Protection Authority (EPA) 2005, Separation Distance between Industrial and Sensitive Land Uses No. 3.

Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY						
Application type						
Works approval						
		Relevant works approval number:		None		
		Has the works approving with?	oval been complied	Yes 🗆	No 🗆	
Licence		Has time limited ope works approval dem acceptable operatio	onstrated	Yes 🗆	No 🗆 N/A 🗆	
		Environmental Com Critical Containmen Report submitted?		Yes 🗆	No 🗆	
		Date Report receive	ed:			
Renewal		Current licence number:				
Amendment to works approval		Current works approval number:				
Amendment to licence	\boxtimes	Current licence number:	L9154/2018/1	.9154/2018/1		
		Relevant works approval number:		N/A	\boxtimes	
Registration		Current works approval number:		None		
Date application received		05/09/2023				
Applicant and Premises details						
Applicant name/s (full legal name/s)		Drilline Pty Ltd				
Premises name		Drilline Pty Ltd				
Premises location	Currently consists of M52/1063 Amending to include G52/294 and L52/195					
Local Government Authority	Shire of East Pilbara Council					
Application documents						
HPCM file reference number:		DER2018/000988-1				
Key application documents (addition application form):	Dust Management Plan for M52/1063 & L52/195					
Scope of application/assessment						

	Liconco amondmont			
	Licence amendment Relocation and operation of crushing and screening plant within new tenements.			
Summary of proposed activities or changes to existing operations.	 Drilline Pty Ltd (the Licence Holder) requesting an amendment to enable them to conduct Category 12 activities on two tenements newly acquired tenements (L52/195 and G52/294) located approximately 7.5 kms northwest of their current operating Prescribed Premises located on M52/1063. The amendment request was initiated due the access track to M52/1063 (the Prescribed Premises) is impassable following significant rainfall events this amendment will allow the Licence Holder access during all weather conditions. 			
	Current Equipment / Infrastructure under L9154/2018/1Equipment / Infrastructure to mobilise to 			
	Terex 683 mobileTerex 683 mobilescreening plantscreening plant			
	Terex M1700 mobile screening plantTerex M1700 mobile screening plant			
	Striker SC185 mobile screening plantStriker SC185 mobile screening plant			
	Turkeys nest Turkeys nest dam dam			
	Sand drying Sand drying plant plant			
	(new) Striker SC185 mobile screening plant			
Category number/s (activities that ca	ise the premises to become prescribed premises)			
Table 1: Prescribed premises catego	es			
Prescribed premises category and description	Assessed production or design capacityProposed changes to the production or design capacity			

Prescribed premises category and description	Assessed production or design capacity	Proposed changes to the production or design capacity			
Category 12: Screening etc. of material	100,000 tonnes per annum	No change			
Legislative context and other approvals					
Has the applicant referred, or do they intend to refer, their proposal to the E under Part IV of the EP Act as a	PA Yes 🗆 No 🖂	Referral decision No: N/A Managed under Part V ⊠			

Licence: L9154/2018/1

significant proposal?		Assessed under Part IV
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes 🗆 No 🖂	Ministerial statement No: N/A EPA Report No: N/A
Has the proposal been referred and/or assessed under the EPBC Act?	Yes □ No ⊠	Reference No: N/A Clearing 10-hectare exemption for a mining tenement.
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes ⊠ No □	Certificate of title General lease Mining lease / tenement Expiry: Other evidence Expiry:
Has the applicant obtained all relevant planning approvals?	Yes □ No □ N/A ⊠	Approval: Expiry date: If N/A explain why? Works are occurring on a mining tenement occupied by the Licence Holder
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes 🗆 No 🛛	CPS No: N/A Clearing 10-hectare exemption for a mining tenement.
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 Clearing 10-hectare exemption for a mining tenement.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes ⊠ No □	Application reference No: N/A Licence/permit No: GWL205178(1) 1,500kL per annum, from L582/195
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: N/A Has Regulatory Services (Water) been consulted? Yes □ No □ N/A ⊠ Regional office: N/A

Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes □ No ⊠	Name: N/A Priority: P1 / P2 / P3 / N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to WQPN 25)? Yes □ No □ N/A ⊠ Note: Newman Water Reserve is located approximately 5.3 km north from the new proposed operation tenement.
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 □	Environment Protection Act 1996 Environmental Protection Regulations 1987 Occupational Safety and Health Regulation 1996 Mines Safety and Inspection Act 1994 Mines Safety and Inspection Regulations 1995
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes □ No ⊠	N/A
Is the Premises subject to any EPP requirements?	Yes □ No ⊠	N/A
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes □ No ⊠	Classification: N/A Date of classification: N/A