



# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** **Crossland Resources Pty Ltd**

**Licence:** **L8125/2005/4**

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**Registered office** '480 Queen'  
Level 16, 480 Queen Street  
BRISBANE QLD 4000

**ACN:** 061 262 397

**Premises address:** Jack Hills Iron Ore Project  
M20/506, Beringarra-Cue Road  
MEEKATHARRA WA 6642

**Issue date:** Thursday, 29 October 2015

**Commencement date:** Monday, 2 November 2015

**Expiry date:** Thursday, 1 November 2035

### **Decision**

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue a licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by: Lindy Twycross  
Licensing Officer

Decision Document authorised by: Alana Kidd  
Delegated Officer



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## 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

## 2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	<b>Category number(s)</b>	<b>Assessed design capacity</b>
	5	50,000 tonnes per annual period
	64	500 tonnes per annual period
	85	Less than 100 cubic metres per day
Application verified	Date: NA	
Application fee paid	Date: NA	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>



Is the proposal subject to Ministerial Conditions?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: 886 EPA Report No: 1220
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Department of Water consulted Yes <input type="checkbox"/> No <input type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.		
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO <sub>2</sub> requirements of Kwinana EPP.		

### 3 Executive summary of proposal and assessment

The Jack Hills Iron Ore Project (Jack Hills) is located 400 kilometres (km) northeast of Geraldton and 150 km northwest of Meekatharra in the Jack Hill Ranges. The surrounding area is sparsely populated. The nearest sensitive land use is the Mileura Station located about 35 km to the south.

The closest watercourse is located 6 km to the northwest. Groundwater in the vicinity is deeper than 340 metres, which is below the level of the open pit. The Jack Hills area experiences low rainfall and high evaporation rates.

Jack Hills consists of open pit mining with capacity to process about about 2 million tonnes of iron ore per year, when in operation. The crushing circuit consists of a closed circuit jaw crusher, two mobile deck screens, a mobile secondary cone crusher and two product stackers. Sprinklers are located at various positions on the ore storage pad and the crushing circuit.

Hydrocarbons are stored in self-bunded or bunded areas. Facilities were constructed in accordance with AS1940-2004 (Storage and Handling of Flammable and Combustible Liquids). All hydrocarbon storage facilities, wash-down bays and workshops have been constructed to ensure uncontaminated stormwater is diverted away from the facilities. The vehicle wash-down bay directs all wash water to a sump which is then treated by an oily water separator. The separated water is used for reuse at the wash-down bay and waste oil is stored in a tank for removal offsite.

A Class II putrescible landfill is located within the waste rock dump. A small bioremediation facility is located at the top of the Waste Rock Dump and is used to treat contaminated soil from minor hydrocarbon spills. Sewage from the accommodation village is treated by a package treatment plant and then reticulated onto a fenced irrigation area. Crossland Resources Pty Ltd monitors the water quality of the effluent discharged.

The premises was placed in care and maintenance status in February 2012 and with reissue of the Licence in 2015, the approved premises production or design capacity for Category 5: Processing or beneficiation of metallic or non-metallic ore was reduced to 50,000 tonnes per annual period.

This amendment was by application from the Licensee for notice of a change to the Occupier's registered address. The amendment includes an extension of the Licence duration. Where changes have been made to the previous licence, these changes have been justified in Section 4.



## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

<b>DECISION TABLE</b>			
<b>Works Approval / Licence section</b>	<b>Condition number W = Works Approval L = Licence</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
<b>Interpretation</b>	N/A	Previous condition L1.1.5 has been removed as it is an explanatory statement, not a condition.	<i>Guidance Statement: Setting Conditions</i> , Department of Environment Regulation, October 2015.
<b>General conditions</b>	N/A	<p>Previous condition L1.2.1 has been removed as it is unclear given the equipment is not specified.</p> <p>L1.2.2 to recover and remove environmentally hazardous materials is removed as it is not sufficiently clear or certain and is considered not enforceable.</p> <p>Previous condition L1.2.3 for stormwater management is removed as it is not sufficiently clear or certain and is considered not enforceable.</p> <p>The general provisions of the <i>Environmental Protection Act 1986</i> with respect to the causing of pollution and environmental harm apply, as well as subsidiary legislation including the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p>	<i>Guidance Statement: Setting Conditions</i> , Department of Environment Regulation, October 2015.
<b>Premises operation</b>	L1.3.7	L1.3.7 is added to limit production of Category 5: Processing or beneficiation of metallic or non-metallic ore to the approved amount.	NA



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<b>Information</b>	L4.2.1	Previous condition L4.1.2 has been removed because it is considered not enforceable as the requirements for compliance are not clear. L4.2.1 includes an updated AACR form and includes consent to the AACR being published on the DER website. L4.3.1 includes requirement for notification of any limit specified in the Licence.	<i>Guidance Statement: Publication of Annual Audit Compliance Reports</i> , Department of Environment Regulation, May 2016.
<b>Licence Duration</b>	NA	The premises has been assessed as Low risk. The licence expiry date has been extended in accordance with <i>Guidance Statement: Licence Duration</i> , Revised May 2015. The Licence will expire on Thursday, 1 November 2035.	<i>Guidance Statement: Licence Duration</i> , Department of Environment Regulation, Revised May 2015.



## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
16/06/2016	Proponent sent a copy of draft instrument	No changes requested	Not applicable

## 6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

**Table 1: Emissions Risk Matrix**

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High