



## Application for Works Approval Amendment

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

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<b>Works Approval Number</b>	W6358/2020/1
<b>Works Approval Holder</b>	Wonmunna Iron Ore Pty Ltd
<b>ACN</b>	169 151 777
<b>File Number</b>	DER2019/000649
<b>Premises</b>	Wonmunna Iron Ore Project Mining Tenement M47/1424 As defined by the maps attached to the Revised Works Approval
<b>Date of Report</b>	21 October 2020
<b>Decision</b>	Revised works approval granted

**Alana Kidd**

**Manager, Resource Industries**

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

## Table of Contents

<b>1. Decision summary</b>	<b>1</b>
<b>2. Scope of assessment</b>	<b>1</b>
2.1 Regulatory framework	1
2.2 Amendment summary	1
<b>3. Risk assessment</b>	<b>2</b>
3.1 Source-pathways and receptors	2
3.1.1 Emissions and controls	2
3.1.2 Receptors	2
3.2 Risk ratings	2
<b>4. Consultation</b>	<b>5</b>
<b>5. Conclusion</b>	<b>5</b>
5.1 Summary of amendments	5
<b>References</b>	<b>5</b>
<b>Appendix 1: Application validation summary</b>	<b>6</b>

Table 1: Works Approval Holder controls	3
Table 2: Sensitive human and environmental receptors and distance from prescribed activity	3
Table 3: Risk assessment of potential emissions and discharges from the Premises during construction, commissioning and operation	4
Table 4: Consultation	5
Table 5: Summary of works approval amendments	5

## 1. Decision summary

Works Approval W6358/2020/1 is held by Wonmunna Iron Ore Pty Ltd (Works Approval Holder) for the Wonmunna Iron Ore Project (the Premises), located at Mining Tenement M47/1424.

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 Works Approval W6358/2020/1 has been granted.

## 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 7 October 2020, the Works Approval Holder submitted an application to the department to amend Works Approval W6358/2020/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Transfer the works approval from Australian Aboriginal Mining Corporation Pty Ltd to Wonmunna Iron Ore Pty Ltd (a wholly owned subsidiary of Mineral Resources Ltd) to reflect current ownership.
- Change the name of the project from the First Iron Project to the Wonmunna Iron Ore Project.
- Amendments to infrastructure and equipment detailed under Condition 1 – Table 1 of W6358/2020/1 to reflect changes to the proposed Ore Handling Plant (OHP). An alternative OHP is now to be used which will include a lump stacker, allowing for separate stockpiling of lump, in addition to the fines product.

This amendment is limited only to the changes listed above and no changes to the assessed production/design capacities in the Existing Works Approval are proposed.

### 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 *Guidance Statement: Risk Assessments* (DER 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 construction and operation which have been considered in this Amendment Report are detailed in Table 1.

Table 1 also details the proposed control measures the Works Approval Holder has proposed to assist in controlling these emissions, where necessary.

##### 3.1.2 Receptors

In accordance with the *Guidance Statement: Risk Assessment* (DER 2017), the Delegated Officer has excluded employees, visitors and contractors of the Works Approval 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 2 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 (*Guidance Statement: Environmental Siting* (DER 2016)).

#### 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guidance Statement: Risk Assessments* (DER 2017) 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 Works Approval 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 Works Approval Holder'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 Works Approval Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

The Revised Works Approval W6358/2020/1 that accompanies this Amendment Report authorises construction and time-limited operations. The conditions in the Revised Works Approval 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 i.e. OHP and Wastewater Treatment Plant (WWTP). A risk assessment for the operational phase has been included in this Amendment Report, however licence conditions will not be finalised until the department assesses the licence application.

**Table 1: Works Approval Holder controls**

Emission	Sources	Potential pathways	Proposed controls
Dust	Crushing of material, vehicle movements, lift-off from stockpiles and/or stored product, earthworks etc.	Air/ windborne pathway	<ul style="list-style-type: none"> <li>Siting – the OHP is to be located approximately 480 m (or greater) to the west of Weeli Wolli Creek.</li> <li>Manage vehicle speed limits.</li> <li>Monitoring of operational and weather (wind) conditions to support dust management.</li> <li>Water trucks will be used to manage dust emissions from cleared areas and roads, and at the ore stockpile area, hardstand areas and bare areas.</li> <li>OHP design includes components to manage dust including - sprinklers on crushers and screens and shields/covers on conveyors and transfer points.</li> <li>Incident reporting system.</li> </ul>
Noise	Crushing and screening of material	Air/ windborne pathway	<ul style="list-style-type: none"> <li>Noise emissions to be managed in accordance with the Environmental Protection (Noise) Regulations 1997.</li> <li>Noise attenuating equipment will be used, where practicable, to minimise noise during operation.</li> <li>Regular servicing/maintenance of equipment.</li> </ul>

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

Human receptors	Distance from prescribed activity
Nil	-
Environmental receptors	Distance from prescribed activity
Underlying groundwater	The water table is estimated to occur at a depth of 20 mbgl or greater. Not considered a receptor.
Native fauna	<p>Conservation significant fauna within the premises boundary:</p> <ul style="list-style-type: none"> <li><i>Dasyurus hallucatus</i> (Northern Quoll) – Endangered</li> <li><i>Pseudomys chapmani</i> (Western Pebble Mound Mouse) – Priority 4</li> <li><i>Leggadina lakedownensis</i> (Northern short tailed mouse) – Priority 4</li> <li><i>Underwoodisaurus seorsus</i> (Pilbara barking gecko) – Priority 2</li> </ul> <p><b>Potential receptor for noise emissions.</b></p>
Native vegetation	<p>CPS 6216/1 applies in the area for clearing. Native vegetation present in the area.</p> <p><b>Potential receptor for dust emissions.</b></p>

**Table 3. Risk assessment of potential emissions and discharges from the Premises during construction, commissioning and operation**

Risk Event					Risk rating <sup>1</sup>	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	Justification for regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C = consequence L = likelihood			
<b>Construction</b>								
<b>Category 5:</b> Construction of OHP and pad	Noise	Air/windborne pathway to conservation significant and other fauna in the vicinity of the OHP resulting in localised displacement of fauna	Conservation significant and other fauna	Refer to Section 3.1	C = Slight L = Possible <b>Low Risk</b>	Y	No new conditions proposed	Changes to infrastructure proposed are minor in nature and do not introduce any new key emission sources or significantly increase any existing sources. The Applicant will manage dust and noise impacts in the same manner as identified in the original works approval decision report. No additional conditions considered necessary.
	Dust	Air/windborne pathway to native vegetation / fauna habitat in areas surrounding the OHP footprint resulting in the degradation of vegetation condition and fauna habitat over time	Native vegetation / fauna habitat in areas surrounding the OHP footprint	Refer to Section 3.1	C = Slight L = Rare <b>Low Risk</b>	Y	No new conditions proposed	
<b>Commissioning and operation</b>								
<b>Category 5</b> Commissioning and operation of OHP, i.e. <ul style="list-style-type: none"><li>Crushing and screening of ore</li><li>Stockpiling of ore</li></ul>	Noise	Air/windborne pathway to conservation significant and other fauna in the vicinity of the OHP resulting in localised displacement of fauna	Conservation significant and other fauna	Refer to Section 3.1	C = Slight L = Possible <b>Low Risk</b>	Y	No new conditions proposed	Changes to infrastructure proposed are minor in nature and do not introduce any new key emission sources or significantly increase any existing sources. The Applicant will manage dust and noise impacts in the same manner as identified in the original works approval decision report. No additional conditions considered necessary.
	Dust	Air/windborne pathway to native vegetation / fauna habitat in areas surrounding the OHP footprint resulting in the degradation of vegetation condition and fauna habitat over time	Native vegetation / fauna habitat in areas surrounding the OHP footprint	Refer to Section 3.1	C = Moderate L = Unlikely <b>Medium Risk</b>	Y	No new conditions proposed	

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guidance Statement: Risk Assessments* (DER 2017).

Note 2: Proposed Works Approval Holder's controls are depicted by standard text. **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
Works Approval Holder was provided with draft amendment on (16/10/2020)	N/A	N/A

## 5. Conclusion

The Delegated Officer determined that the transfer of the Works Approval does not alter the risk profile of the premises. Wonmunna Iron Ore Pty Ltd was registered via Australian Securities & Investments Commission (ASIC) on 17 April 2014 and has been deemed to be a fit and competent operator.

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

### 5.1 Summary of amendments

Table 5 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Works Approval as part of the amendment process.

**Table 5: Summary of works approval amendments**

Condition no.	Proposed amendments
Cover page	Update of the works approval holder, the company ACN and the registered business address.
Condition 1, Table 1	Add: <ul style="list-style-type: none"><li>'rock breaker'</li><li>'four pan feeders (secondary screening, secondary crushing)'</li></ul> Modify: <ul style="list-style-type: none"><li>replace 'primary screen – double deck banana screen' with 'primary screen – two triple deck elliptical screens'</li><li>replace 'secondary crusher' with 'two secondary crushers'</li><li>replace '37 m radial stacker' to 'two radial stackers (fines and lump)'</li></ul> Remove: <ul style="list-style-type: none"><li>tertiary crusher.</li></ul>

## References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. DER 2016, *Guidance Statement: Environmental Siting*, Perth, Western Australia.
3. DER 2017, *Guidance Statement: Risk Assessments*, Perth, Western Australia.

## Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY				
<b>Application type</b>				
Works approval	<input type="checkbox"/>			
Licence	<input type="checkbox"/>	Relevant works approval number:		None <input type="checkbox"/>
		Has the works approval been complied with?		Yes <input type="checkbox"/> No <input type="checkbox"/>
		Has time limited operations under the works approval demonstrated acceptable operations?		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?		Yes <input type="checkbox"/> No <input type="checkbox"/>
		Date Report received:		
Renewal	<input type="checkbox"/>	Current licence number:		
Amendment to works approval	<input checked="" type="checkbox"/>	Current works approval number:	W6358/2020/1	
Amendment to licence	<input type="checkbox"/>	Current licence number:		
		Relevant works approval number:	N/A	<input type="checkbox"/>
Registration	<input type="checkbox"/>	Current works approval number:		None <input type="checkbox"/>
Date application received		7/10/2020		
<b>Applicant and Premises details</b>				
Applicant name/s (full legal name/s)		Wonmunna Iron Ore Pty Ltd		
Premises name		Wonmunna Iron Ore Project		
Premises location		M47/1424 (exp. 30/04/2033)		
Local Government Authority		East Pilbara		
<b>Application documents</b>				
HPCM file reference number:		DER2019/000649		
Key application documents (additional to application form):		Supplementary info		

Scope of application/assessment		
Summary of proposed activities or changes to existing operations.	<p><i>Works approval amendment</i></p> <p>Transfer the works approval holder to Wonmunna Iron Ore Pty Ltd (a wholly-owned subsidiary of MRL);</p> <p>Update the Premises details from First Iron Project to the Wonmunna Iron Ore Project; and</p> <p>Make minor amendments to infrastructure and equipment detailed under Condition 1 – Table 1 of W6358/2020/1:</p> <ul style="list-style-type: none"> <li>• Add: rock breaker and pan feeders (secondary screening, secondary crushing)</li> <li>• Modify: primary screen – double deck banana screen to a triple deck elliptical screen, secondary crusher to secondary crushers, 37 m radial stacker to two radial stackers (fines and lump)</li> <li>• Remove tertiary crusher</li> </ul>	
<b>Category number/s (activities that cause the premises to become prescribed premises)</b>		
<b>Table 1: Prescribed premises categories</b>		
Prescribed premises category and description	Assessed production or design capacity	Proposed changes to the production or design cap
Category 5: Processing or beneficiation of metallic or non-metallic ore	5, 000,000 tonnes per year	No change
Category 85: Sewage facility	30.0 m <sup>3</sup> /day	No change
Legislative context and other approvals		
Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Mining lease / tenement <input checked="" type="checkbox"/> Expiry: 30/04/2033
Has the applicant obtained all relevant planning approvals?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>	On a mining tenement
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CPS No: CPS 6216/1 No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No clearing is proposed.

Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Licence/permit No: GWL204222(1)
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004</i> , <i>Environmental Protection (Controlled Waste) Regulations 2004</i> , <i>State Agreement Act xxxx</i> )	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	