Amendment Report

Application for Works Approval Amendment

Part V Division 3 of the Environmental Protection Act 1986

Works Approval

Number

W6569/2021/1

Works Approval

Holder

IB Operations Pty Ltd

ACN 165 513 557

File Number DER2021/000390

Premises North Star Magnetite Project

Shay Gap

MARBLE BAR WA 6760

Part of L45/547

As defined by the coordinates in Schedule 1 of the works

approval

Date of Report 18 May 2022

Proposed Decision Intent to grant revised works approval

Melissa Chamberlain

A/MANAGER WASTE INDUSTRIES REGULATORY SERVICES

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

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1. Decision summary

Works Approval W6569/2021/1 is held by IB Operations Pty Ltd (Works Approval Holder) for the North Star Magnetite Project (the Premises), located at Part of L45/547.

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 works approval commissioning of the Premises. As a result of this assessment, Revised Works Approval W6569/2021/1 has been granted.

The Revised Works Approval issued as a result of this amendment consolidates and supersedes the existing Works Approval 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 Application summary

On 27 April 2022, the Works Approval Holder submitted an application to the department to amend Works Approval W6569/2021/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

 Extend the Commissioning timeframe from 60 days to 105 days under works approval condition 5.

This amendment is limited only to changes to Category 54 activities from the Existing Works Approval. No other changes to the aspects of the existing Works Approval relating to Category 54 have been requested by the Works Approval Holder.

2.3 Part IV of the EP Act

The applicant has a relevant Part IV Ministerial Statement that relates to the North Star Magnetite Project (Ministerial Statement MS 993).

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.

The decision report for the original works approval W6569/2021/1 included a detailed description of the key emissions, relevant nearby receptors, pathways and proposed applicant controls. As these have not changed in relation to this application they have not been reiterated in this amendment report. The decision report for the original works approval (A2061994) is available on DWER's website at https://www.der.wa.gov.au/our-work/licences-and-works-approvals/current-licences.

3.1 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020). Where linkages are in-complete they have not been considered further in the risk assessment.

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 1.

The Revised Works Approval W65469/2021/1 that accompanies this Amendment Report authorises commissioning only. 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 commissioning and time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the Premises i.e. Category 54 activities. 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. Risk assessment of potential emissions and discharges from the Premises during commissioning

Risk Event					Risk rating ¹	Works Approval		Justification for	
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Works Approval Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of works approval	additional regulatory controls	
Commissioning	commissioning								
	Dust	Air/windborne pathway causing impacts to health and amenity	Residences 30km north	Water cart. Speed restrictions.	C = Slight L = Unlikely Low Risk	Y	N/A	N/A	
	Noise			Sitting. Package plant so noise is limited.	C = Slight L = Unlikely Low Risk	Y	N/A	N/A	
Commissioning activities	Spills	Seepage to soil, vegetation and groundwater	Fauna, flora and groundwater	Storage of small volumes of WWTP associated chemicals will comply with Australian Standards. Bunded storage area. HDPE piping to SIF. Sludges will be removed from the WWTP and disposed off the premises. Inspections and maintenance.	C = Slight L = Unlikely Low Risk	Y	Condition 1	N/A	

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Risk Event					Risk rating ¹	Works Approval		Justification for	
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Works Approval Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of works approval	additional regulatory controls	
Commissioning activities	Odour	Air / windborne pathway causing impacts to health and amenity	Residences 30km north	WWTP employ tanks and containers which are contained (closed) and reduce odour. Properly treated wastewater should not produce significant odour at the SIF. Inspections and maintenance.	C = Slight L = Unlikely Low Risk	Y	N/A	N/A	
Commissioning activities	Treated sewage	Seepage to soil, vegetation and groundwater	Fauna, flora and groundwater	Discharge to SIF – 4.7ha in total. Sitting of SIF. Nutrient application criteria. Monitoring of effluent quality. Above ground sprinkler system. No pooling of treated wastewater on the ground. Low level ground maximum slope of 0.5% with limited permeability (permeability rate of 8m/d). Sparsely vegetated.	C = Moderate L = Possible Medium Risk	Y	Condition 1, 5, 7, 8, 11, 12, 13, 14, 15 and 16.	N/A	

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Risk Event				Risk rating ¹	Works Approval		Justification for	
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Works Approval Holder's controls	C = consequence L = likelihood	Works Approval Holder's controls sufficient?	Conditions ² of works approval	additional regulatory controls
				Groundwater more than 40 m below ground level.				
				Windrow on southwest boundary to contain runoff.				
				Fenced, locked and will display signage.				
				Inspections and maintenance.				
				Sludge will be removed from the tanks and disposed off-site.				

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

Note 2: Proposed Works Approval Holder's controls are depicted by standard text. Bold and underline text depicts additional regulatory controls imposed by department.

4. Consultation

Table 2 provides a summary of the consultation undertaken by the department.

Table 2: Consultation

Consultation method	Comments received	Department response
Works Approval Holder was provided with draft amendment on 12 May 2022. A response was provided 13 May 2022.	No comment – requested to waive comment period and amend as soon as possible.	Noted

5. Conclusion

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 3 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 3: Summary of works approval amendments

Condition no.	Proposed amendments
5 Table 2	Amend a period not exceeding 60 days to 105 days

References

- 1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
- 2. Department of Environment and Conservation (NSW) 2004, *Environmental Guidelines,* Use of Effluent by Irrigation.
- 3. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
- 4. DWER 2020, Guideline: Risk Assessments, Perth, Western Australia.
- 5. Department of Health (DOH) 2011. *Guidelines for the Non-potable Uses of Recycled Water in Western Australia*. Perth, Western Australia.
- 6. Department of Water (DOW) 2008. Water Quality Protection Note 22 (WQPN22): Irrigation with nutrient rich wastewater. Perth, Western Australia.
- 7. Department of Health (DoH) 2021, Site and soil evaluation for onsite wastewater management, Perth, Western Australia.
- 8. Department of Planning, Lands and Heritage 2019, *Government Sewerage Policy*, Perth, Western Australia.

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)						
Application type						
Works approval						
		Relevant works approval number:		None		
		Has the works approvith?	oval been complied	Yes □ No □		
Licence		works approval dem	Has time limited operations under the works approval demonstrated acceptable operations?		Yes □ No □ N/A □	
		Environmental Com Critical Containmen Report submitted?		Yes □ No □		
		Date Report receive	ed:			
Renewal		Current licence number:				
Amendment to works approval	\boxtimes	Current works approval number:	W656	69/2021/1		
A many day out to live upon		Current licence number:				
Amendment to licence		Relevant works approval number:		N/A		
Registration		Current works approval number:		None		
Date application received		27/4/2022				
Applicant and Premises details						
Applicant name/s (full legal name/s)		IB Operations Pty L	td			
Premises name		North Star Magnetite Project				
Premises location		L45/547 Shay Gap				
Local Government Authority		Shire of East Pilbara				
Application documents						
HPCM file reference number:		DER2021/000390				
Key application documents (addition application form):	al to	Application Form and Attachments				
Scope of application/assessment						
		Works approval amendment				
Summary of proposed activities or		Construction of WWTP.				
changes to existing operations.		Extend commissioning from 60 days to 105 days.				

Category number/s (activities that cause the premises to become prescribed premises) Table 1: Prescribed premises categories Prescribed premises category and Assessed production or design Proposed changes to the description production or design capacity capacity (amendments only) Category 54: sewage facility 101m³/day No changes Legislative context and other approvals Referral decision No: Has the applicant referred, or do they intend to refer, their proposal to the EPA Managed under Part V □ Yes ⊠ No □ under Part IV of the EP Act as a significant proposal? Assessed under Part IV □ Does the applicant hold any existing Part Ministerial statement No: MS993 IV Ministerial Statements relevant to the Yes ⊠ No □ EPA Report No: application? Reference No: EPBC 2021/6689 Has the proposal been referred and/or Yes ⊠ No □ assessed under the EPBC Act? Certificate of title □ General lease □ Expiry: Has the applicant demonstrated Yes ⊠ No □ occupancy (proof of occupier status)? Mining lease / tenement □ Expiry: Other evidence ☐ Expiry: Has the applicant obtained all relevant Approval: planning approvals? Yes ⊠ No □ N/A □ Expiry date: If N/A explain why? Has the applicant applied for, or have an CPS No: MS993 existing EP Act clearing permit in relation Yes ⊠ No □ to this proposal? Has the applicant applied for, or have an Application reference No: existing CAWS Act clearing licence in Yes ⊠ No □ Licence/permit No: relation to this proposal? Clearing approved under MS993 Has the applicant applied for, or have an Application reference No: existing RIWI Act licence or permit in Yes ⊠ No □ Licence/permit No: relation to this proposal? GWL175700

		Name: N/A
		Type: Proclaimed Groundwater Area/Surface Water Area
Does the proposal involve a discharge of waste into a designated area (as defined	Yes □ No ⊠	Has Regulatory Services (Water) been consulted?
in section 57 of the EP Act)?	Tes L No A	Yes □ No □ N/A □
		Regional office: Swan Avon / Mid- West Gascoyne / Kwinana Peel / North West / South West / Goldfields / South Coast
		Name: N/A
		Priority: P1 / P2 / P3 / N/A
		Are the proposed activities/ landuse compatible with the PDWSA (refer to WQPN 25)?
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes □ No ⊠	Yes □ No □ N/A □
		Note: If the proposed activity is not listed as a compatible land use with the PDWSA please consult with the relevant regional office (Regulatory Services - Water) and Water Source Protection (Science and Planning).
Is the Premises subject to any other Acts or subsidiary regulations (e.g. Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx)	Yes □ No ⊠	If Yes include details here.
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes □ No ⊠	If Yes include details of which EPP(s) here.
Is the Premises subject to any EPP requirements?	Yes □ No ⊠	If Yes, include details here, e.g. Site is subject to SO ₂ requirements of Kwinana EPP.
Is the Premises a known or suspected		If Yes include details here.
contaminated site under the Contaminated Sites Act 2003?	Yes □ No ⊠	Classification: N/A / possibly contaminated – investigation required (PC–IR) / not contaminated – unrestricted use (NC–UU) / contaminated – restricted use (C–RU) / remediated for restricted use (RRU) / contaminated – remediation required (C–RR) / decontaminated (Decon)
		Date of classification: N/A