# **Decision Report**

## **Application for Works Approval**

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

Works Approval Number W6933/2024/1

**Applicant** IB Operations Pty Ltd

ACN 165 513 557

**File number** DER2022/000496~2

Premises North Star Magnetite Project

Marble Bar, WA, 6750

Legal description -

Part of on Mining Tenement L45 / 547

As defined by the coordinates in Schedule 2 of the works

approval

Date of report 28 August 2024

**Decision** Works approval granted

Adam Green A/MANAGER, WASTE INDUSTRIES an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

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## 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 W6933/2024/1 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 <a href="https://dwer.wa.gov.au/regulatory-documents">https://dwer.wa.gov.au/regulatory-documents</a>.

## 2.2 Application summary and overview of premises

On 26 April 2024, 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 is to undertake construction works relating to a waste water treatment plant (WWTP) as part of a worker's camp for the North Star Magnetite Project. The WWTP is to be constructed in two stages at the premises. The premises is approximately 100 km north of Marble Bar.

The premises relates to the category and assessed design capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in works approval W6933/2024/1. The infrastructure and 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 W6933/2024/1.

The applicant was granted a works approval (W6569/2021/1) on 7 November 2021 and a licence (L9349/2022/1) on 1st February 2023 for the North Star Magnetite Project - Shay Gap WWTP. The camp and subsequent WWTP was constructed to support the development of the Canning Basin Pipeline. The Canning Basin Pipeline aims to provide and deliver operational water requirements to the North Star Magnetite Project. Following the construction of the pipeline, the camp and WWTP were demobilised from site and the operating licence was surrendered in February 2024.

To meet the ongoing operational requirements of the North Star Magnetite Project, additional work is required on the pipeline. To support these works, reinstatement of the camp at Shay Gap will be required. The camp will host up to 300 people during construction, maintenance and repair projects as they arise. Reverse Osmosis (RO) plants will also be constructed to provide potable water to the camp. The volume of water treated by the RO plant is below the Category 85B threshold (0.5 GL per year) for licensing under Schedule 2 of the *Environmental Protection Regulations 1987*. Therefore a registration is not required.

Two staged WWTPs have been proposed, with Stage 1 servicing up to 200 persons and Stage 2 servicing an additional 100 persons. Stage 2 is expected to be commenced 1 year after the completion of Stage 1. The camp is expected to be in operation for a minimum of 5 years. The final WWTPs will have the capacity to treat a maximum throughput of 100 m³ blended effluent per day. RO reject (60 m3 per day) will be blended with the treated effluent prior to irrigation. The mixed RO reject and treated effluent will be transported to a spray irrigation field (SIF) through a HDPE pipeline. Above ground irrigation piping and sprinklers will be used to spray treated wastewater in the SIF on existing sparse vegetation.

Two Sequence Batch Reactor (SBR) WWTPs will be used. The SBR units are prefabricated, containerised and requires minimal installation on-site, requiring an inlet connection and power. As the units are contained, spills are internally captured, retained, and managed to minimise the risk of environmental contamination. Each WWTP is separate unit however both will send treated effluent to the same SIF. Each WWTP has the capacity to treat 50 m³ of effluent per day.

The Stage 1 WWTP will be operating at full capacity (Treating up to 50 m³ per day of effluent) and the Stage 2 WWTP will operate at 50% capacity (adding an additional 25m³ per day) The SIF will be enlarged to accommodate the increase nutrient loading of Stage 2. The WWTPs will treat effluent to meet the specifications in Table 1 (below).

Table 1: Blended effluent quality proposed for discharge to the Spray Irrigation Field

Parameter	Concentration
5- Day biochemical oxygen demand (BOD <sub>5</sub> )	<20 mg/L
Total suspended solids (TSS)	<30 mg/L
Total dissolved solids (TDS)	<2,400 mg/L
Total nitrogen (TN)	<20 mg/L <sup>1</sup>
Total phosphorus (TP)	<8 mg/L <sup>1</sup>
Escherichia coli (e. coli) and thermotolerant coliforms	<1000 colony forming units (CFU)/100 mL
Residual free chlorine	0.2-2.0 mg/L <sup>2</sup>
рН	6.5 – 8.5

Note 1: Analysed over an annual period to assess nutrient loading potential.

Note 2: Residual free chlorine concentrations may be measured in treated effluent prior to mixing with RO reject.

The applicant has requested that the total dissolved solids (TDS) concentration meets the ANZECC livestock drinking water tolerance values (ANZECC,2000) excluding poultry, which provides a 'no adverse effects on animals expected' value as 0-2,400 mg/L of TDS covering all livestock excluding poultry. Total nitrogen and phosphorous concentrations meet the DOW (2022); Irrigation with nutrient-rich wastewater guidelines for Category B sandy or gravel soils.

The premises may require clearing for the WWTP infrastructure, clearing is authorised under Ministerial statement MS993.

## 2.3 Environmental commissioning and Time Limited Operations

The applicant has requested in that the works approval includes commissioning and time-limited operations for WWTP Stages 1 and 2. Table 2 below details the features of each stage.

Table 2: Proposed stage 1 and 2 wastewater treatment plant features

Feature	Stage 1	Stage 2	
Balance tank volume	50 m <sup>3</sup>	50 m <sup>3</sup>	
Sludge tank volume	50 m <sup>3</sup>	50 m <sup>3</sup>	
Irrigation tank (RO reject storage)	50 m <sup>3</sup>	No addition	
Wastewater treatment plant throughput (per day)	50 m <sup>3</sup>	25 m <sup>3</sup> (75 m <sup>3</sup> total)	
Reverse Osmosis reject (per day)	60 m <sup>3</sup>	No addition	
Total discharge to irrigation spray field (per day)	110 m³	135 m³	
Total area of sprayfield <sup>1</sup>	8.14 ha	12.8 ha	

Note 1: Inclusive of 5 m spray field drift allowance.

#### 2.4 Part IV of the EP Act

The applicant has a relevant Part IV Ministerial Statement (MS993) that relates to the North Star Magnetite Project. This Ministerial Statement includes clearing of native vegetation.

#### 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 / operation which have been considered in this decision report are detailed in Table 3 below. Table 3 also details the control measures the applicant has proposed to assist in controlling these emissions, where necessary.

**Table 3: Proposed applicant controls** 

Emission	Sources Potential pathways		Proposed controls	
Construction	,			
Dust	Vehicle movements  Construction and installation of WWTP and		<ul> <li>Inform all personnel and contractors working in the project area of their responsibilities in relation to dust management</li> <li>Minimise vegetation clearing and vegetation disturbance</li> <li>Develop and implement dust suppression measures where necessary (e.g. water carts, vehicle speed restrictions) to minimise the potential for dust deposition on vegetation or a reduction in amenity.</li> </ul>	
Noise	associated infrastructure		None proposed	
Spills / unintended releases of hydrocarbons or chemicals	and equipment	Overland runoff, direct discharge and migration via soil to groundwater	<ul> <li>Spills to be managed through internal capture by Sequence Batch Reactor WWTPs</li> <li>Chemicals stored in accordance with Australian Standard AS3780-2008, AS1940-2004 and/or AS3833-2007.</li> </ul>	
Commissioning	and time limite	d operations		
Odour	Treatment of sewage	Air / windborne pathway causing impacts to health and amenity	<ul> <li>Maintenance schedule includes check for odours outside of the facility.</li> <li>WWTPs are containerised (closed) plants, risk of odour/odour escaping is reduced.</li> <li>Wastewater treated to parameters specified, risk of odour reduced.</li> <li>Sludge produced by the WWTPs will be collected in sludge tanks. The sludge will be removed periodically from the tanks by a licensed carrier and taken offsite for disposal at an appropriately licensed facility in accordance with the Environmental Protection (Controlled Waste) Regulations 2004.</li> </ul>	
Sewage, partially treated sewage and/or nutrient rich treated effluent	Treatment of sewage	Overtopping of sewage holding tanks resulting in sewage discharge  Rupture of pipes resulting in sewage discharge	<ul> <li>Sludge produced by the WWTPs will be collected in sludge tanks. The sludge will be removed periodically from the tanks by a licensed carrier and taken offsite for disposal at an appropriately licensed facility in accordance with the Environmental Protection (Controlled Waste) Regulations 2004.</li> <li>Ongoing monitoring to ensure treated wastewater meets a low exposure risk level (treated to standards as per Table 1).</li> </ul>	

Emission	Sources	Potential pathways	Proposed controls
Spills / unintended releases of hydrocarbons or chemicals	Treatment of sewage	Overland runoff, direct discharge and migration via soil to groundwater	<ul> <li>Chemicals and hydrocarbons to be stored in line with the Australian Standard AS1940-2004 (Storage and Handling of Flammable and Combustible Liquids), Australian Standard AS3780-2008 (Storage and Handling of Corrosive Substances) and Australian Standard AS3833-2007 (Storage and Handling of Mixed Classes of Dangerous Goods).</li> <li>The chemical storage area will be fully contained and bunded where necessary.</li> </ul>
Treated waste water (diluted with RO reject)	Irrigation of wastewater to spray field	Direct planned discharges to spray fields Soil contamination and impacts to groundwater quality	<ul> <li>SIF designed to allow for appropriate acceptance of nutrient loading (Stage 1 SIF 10.95 ha, Stage 2 SIF 12.8 ha)</li> <li>SIF will have lockable fence around perimeter with visible safety signage</li> <li>SIF 5m drift allowance included in fenced area.</li> <li>Security fence routinely inspected for defects</li> <li>Ongoing monitoring to ensure treated wastewater meets a low exposure risk level</li> <li>Maximum irrigation volume per day of Stage 1 at 110 m³</li> <li>Maximum irrigation volume per day of Stage 2 at 135 m³</li> </ul>

#### 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 4 and Figure 1 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 4: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity				
Pardoo roadhouse	22 km north of premises boundary				
Environmental receptors	Distance from prescribed activity				
Threatened or priority fauna	<ul> <li>Macrotis lagotis (Greater Bilby) occurs within 1.5 km of premises boundary</li> <li>Priority 3 fauna 4 km north-east of premises boundary</li> </ul>				
Watercourse	Approximately 5.5 km east of premises boundary				
Underlying groundwater	Approximately 48 metres below ground level (mbgl)				

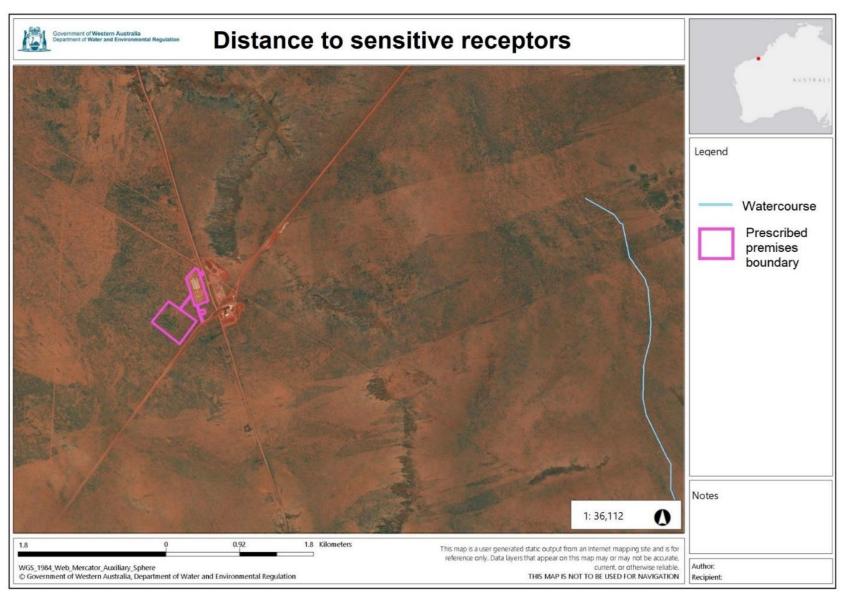


Figure 1: Distance to sensitive receptors

## 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 5.

Works approval W6933/2024/1 that accompanies this decision report authorises construction only and time-limited operations. The conditions in the issued works approval, as outlined in Table 5 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. 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 5: Risk assessment of potential emissions and discharges during construction, commissioning and operation

Risk events					Risk rating <sup>1</sup>	Applicant	Conditions <sup>2</sup>	Justification for additional
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C =consequence L =likelihood	controls sufficient?	of works approval	regulatory controls
Construction								
	Dust	Air/windborne pathway causing impacts to health and amenity	Pardoo roadhouse 22 km north	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A	The delegated officer has considered the risk of dust as not foreseeable due to the distance between the source and receptors.  Dust can be adequately regulated by section the general provisions of the EP Act.
Vehicle movements  Construction and installation of WWTP and associated infrastructure and equipment  Operation of heavy machinery associated with	Noise	Noise and vibration impacts on fauna habitats	Threatened and priority fauna within 1.5 km of premises Native fauna	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A	The Delegated Officer has considered the separation distance between the source and receptors as a guide to inform the risk of noise emissions as not foreseeable.  Noise emissions can be adequately managed by the Environmental Protection (Noise) Regulations 1997.
associated with construction activities	Spills / unintended releases of hydrocarbons or chemicals	Overland runoff, direct discharge and migration via soil to groundwater	Threatened and priority fauna within 1.5 km of premises  Soil and vegetation adjacent to area of spill or breach  Groundwater	Refer to Section 3.1	C = Minor L = Rare Low Risk	Y	N/A	Environmental Protection (Unauthorised Discharges) Regulations 2004 and Dangerous Goods Safety Act 2004 also apply.

Risk events					Risk rating <sup>1</sup>	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C =consequence L =likelihood			
Vehicle movements  Construction and installation of WWTP and associated infrastructure and equipment	Contaminated stormwater (hydrocarbon and sediment)	Overland flow causing contamination of soils due to the presence of hydrocarbons and chemicals in stormwater Increased sedimentation of drainage channels	Soil and vegetation along flow path of the contaminated stormwater  Drainage channels	Refer to Section 3.1	C = Minor L = Possible Medium Risk	Y	N/A	Environmental Protection (Unauthorised Discharges) Regulations 2004 also apply.
Commissioning								
	Odour	Air / windborne pathway causing impacts to health and amenity	Pardoo roadhouse 22 km north	Refer to Section 3.1	C = Minor L = Rare Low Risk	Y	Conditions 1, 6, 7, 8	The delegated officer considers the risk of odour as minimal due to the distance from receptors and the closed nature of the WWTP system and noting wastewater will be treated within desired parameters.
Commissioning of WWTP's	Sewage, partially treated sewage and/or nutrient rich treated effluent	Overtopping of sewage holding tanks resulting in sewage discharge Soil contamination, inhibiting vegetation growth and survival	Soil and vegetation adjacent to area of spill	Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Conditions 1, 6, 7, 8	Environmental Protection (Unauthorised Discharges) Regulations 2004 also apply.
		Rupture of pipes resulting in sewage discharge Soil contamination, inhibiting vegetation growth and survival	Soil and vegetation at area of rupture	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A	Environmental Protection (Unauthorised Discharges) Regulations 2004 also apply.
Commissioning of WWTP's	Nutrient rich treated effluent	Direct planned discharges to spray	Soil and native vegetation	Refer to Section	C = Minor L = Possible	Y	Conditions 1, 6, 7, 10, 11	The delegated officer considers the size of stage 1 and 2 irrigation fields and the

Risk events					Risk rating <sup>1</sup>	Applicant	Conditions <sup>2</sup> of works approval	
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C =consequence L =likelihood	controls sufficient?		Justification for additional regulatory controls
		fields Soil contamination and impacts to groundwater quality	Groundwater quality	3.1	Medium Risk		Condition 8	treated wastewater requirements to be adequate at managing the risks from the irrigation of treated wastewater and RO discharge. The delegated officer has imposed weekly monitoring during commissioning.
Time limited opera	tion							
Operation of	Sewage, partially treated sewage	Overtopping of sewage holding tanks resulting in sewage discharge Soil contamination, inhibiting vegetation growth and survival	Seasonal minor creek 500 m north-east  Threatened and priority fauna within 1.5 km of premises  Soil and vegetation adjacent to area of spill	Refer to Section 3.1	C = Minor L = Unlikely <b>Medium Risk</b>	Y	Conditions 1, 6, 7, 8	Environmental Protection (Unauthorised Discharges) Regulations 2004 also apply.
WWTP's	and/or nutrient rich treated effluent	Rupture of pipes resulting in sewage discharge Soil contamination, inhibiting vegetation growth and survival	Seasonal minor creek 500 m north-east  Threatened and priority fauna within 1.5 km of premises  Native fauna  Soil and vegetation adjacent to area	Refer to Section 3.1	C = Minor L = Unlikely <b>Medium Risk</b>	Y	N/A	Environmental Protection (Unauthorised Discharges) Regulations 2004 also apply.

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Risk events	Risk events						Conditions <sup>2</sup>	
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C =consequence L =likelihood	controls sufficient?	of works approval	Justification for additional regulatory controls
			rupture					
	Odour	Air / windborne pathway causing impacts to health and amenity	Pardoo roadhouse 22 km north	Refer to Section 3.1	C = Minor L = Rare Low Risk	Y	Conditions 1, 6, 7, 8	The delegated officer considers the risk of odour as minimal due to the distance from receptors and the closed nature of the WWTP system and noting wastewater will be treated within desired parameters.
Operation of WWTP's	Spills / unintended releases of hydrocarbons or chemicals	Overland runoff, direct discharge and migration via soil to groundwater	Threatened and priority fauna within 1.5 km of premises Native fauna Soil and vegetation adjacent to area of spill or breach Groundwater	Refer to Section 3.1	C = Minor L = Rare Low Risk	Y	N/A	Environmental Protection (Unauthorised Discharges) Regulations 2004 and Dangerous Goods Safety Act 2004 also apply.
Irrigation of treated wastewater to irrigation spray field	Treated waste water (diluted with RO reject)	Direct planned discharges to spray fields Soil contamination and impacts to groundwater quality	Seasonal minor creek 500 m north-east  Threatened and priority fauna within 1.5 km of premises  Native fauna  Groundwater	Refer to Section 3.1	C = Moderate L = Possible <b>Medium Risk</b>	N	Conditions 1, 6, 7, 9, 10, 11, 14, 15, 16, 20, 22  Condition 8, 17	The delegated officer considers the size of stage 1 and 2 irrigation fields and the treated wastewater requirements to be adequate at managing the risks from the irrigation of treated wastewater and RO discharge. The delegated officer has imposed weekly monitoring during commissioning.

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.

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### 4. Consultation

Table 6 provides a summary of the consultation undertaken by the department.

**Table 6: Consultation** 

Consultation method	Comments received	Department response	
Application advertised on the department's website on 06 June 2024	None received	N/A	
Shire of East Pilbara advised of proposal on 06 June 2024	None received	N/A	
Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) advised of proposal on the 06 June 2024	None received	N/A	
Department of Health (DOH) advised of proposal on the 06 June 2024.	<ul> <li>DOH replied 27 June 2024 with the following comments:</li> <li>An onsite wastewater application is required to be submitted to the Local Government for assessment and forwarded to the DoH for approval.</li> <li>All drinking water provided on site must meet the health-related requirements of the Australian Drinking Water Quality Guidelines 2011.</li> </ul>	The department notes the response from DOH and this information is provided to the applicant in this decision report and has been taken into consideration in the works approval. It is the responsibility of the works approval holder to ensure all necessary approvals are obtained for the construction and operation of the WWTP.	
Applicant was provided with draft documents on 19 July 2024.	Applicant provided comments on 13 August 2024. Refer to Appendix 1.	Refer to Appendix 1.	

## 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. Australian and New Zealand Environment and Conservation Council (ANZECC). 2000. Australian and New Zealand Guidelines for Fresh and Marine Water Quality, Volume 3, Primary Industries.
- 2. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
- 3. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
- 4. Department of Water (DOW) 2008. Water Quality Protection Note 22 (WQPN22): Irrigation with nutrient rich wastewater. Perth, Western Australia.
- 5. DWER 2020, Guideline: Risk Assessments, Perth, Western Australia.

## Appendix 1: Summary of applicant's comments on risk assessment and draft conditions

Condition	Summary of applicant's comment	Department's response
Condition 1 Table 1	Please remove Item A as "coated in chemically resistant protective paint" is not relevant to an earthen Pad.	This requirement was taken from the proposed applicant controls as per page 16 of the supporting information document. The Delegated Officer notes that the removal of the requirement does not increase the risk of the activity. The requirement for the earthen pad top be coated in chemically resistant protective paint has been removed from the risk assessment and works approval.
	Table 1: Item D (iii) - Please remove the reference to TDS for sewage as the TDS is only relevant for irrigation discharge once combined with RO Brine	Updated as requested.
	Table 1: Item G - Please remove reference to flow meters on the output line as this information is captured with the flow meter data recorded and sent from the WWTP	Updated as requested.
Condition 13	Due to the staged construction approach and to ensure consistency across current Fortescue approvals, it is requested the following condition be applied (Highlighted in Bold text).  "The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 14:	The Delegated Officer notes the removal of this aspect of the condition in part (b) would allow for indefinite time limited operations. The maximum period for time limited operations is 180 days, therefore the request has not been actioned as requested.
	(a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 12 for that item of infrastructure; or	
	(b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the Environmental Protection Act 1986, if one is granted before the end of the period specified in condition 13(a)."	
Conditions 16, 18, 20 and 22	Applicant notes an administrative error referring to Condition 0	Clerical errors amended.

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Condition	Summary of applicant's comment	Department's response	
Schedule 1, Figure 2	Applicant requests the removal of Figure 2 to ensure consistency relating to the Prescribed premises Boundary. Please replace references to Schedule 1, Figure 2 with Schedule 1, Figure 1 throughout the document.	Noted. Figure 2 has updated to reflect the prescribed premises boundary and infrastructure locations.	

# **Appendix 2: Application validation summary**

SECTION 1: APPLICATION SUMMARY						
Application type						
Works approval	$\boxtimes$					
Date application received		26 April 2024				
Applicant and Premises details						
Applicant name/s (full legal name/s)		Iron Bridge Operations Pty Ltd				
Premises name		North Star Magnetite Project				
Premises location		L45/547 Mining tenement MARBLE BAR, WA 6760				
Local Government Authority		Shire of East Pilbara				
Application documents						
HPCM file reference number:		DER2024/000181				
Key application documents (additional to application form):		<ul> <li>Shay Gap WA Application supporting document signed</li> <li>Attachment 1A_L</li> </ul>				
Scope of application/assessment						
Summary of proposed activities or changes to existing operations.		A wastewater treatment plant (WWTP); licence number L9349/2022, was constructed to support a worker's camp at Shay Gap. This workers camp was to facilitate the construction of a pipeline for the North Star Magnetite Project. Work to the pipeline was completed and the WWTP infrastructure demobilised. The licence was surrendered on the 28 February 2024.  Additional work is required on the constructed pipeline and therefore a worker's camp is proposed for the same area with WWTP (Sequence Batch Reactor) infrastructure. The camp will host up to 300 people during construction, maintenance and repair projects as they arise. A reverse osmosis (RO) plant will also be in use to meet the camp's water needs. This RO plant will not meet the registration threshold of category 85B desalination plant.  The applicant has proposed to construct the WWTP in two stages:  Stage 1 is to construct a WWTP with a design capacity to process up to 50 m³ of wastewater per day operating at 100% capacity (facilitating 200 persons). Treated wastewater from the plant will be discharged at the irrigation spray field along with 60 kL of RO.  Stage 2 will add an additional WWTP with a design capacity to process 50 m³ of wastewater per day, operating at 50% capacity (facilitating an additional 100 persons). Stage 2 is expected to begin construction a year after Stage 1 is completed.  The final design capacity for the premises will be 100 m³ of wastewater per day, with the actual throughput being 75 m³ of wastewater per day. 75 m³ of treated wastewater and 60 kL of RO will be discharged to the irrigation spray field.				

### Category number/s (activities that cause the premises to become prescribed premises)

#### Table 1: Prescribed premises categories

Prescribed premises category and description		Proposed design capacity	
	54: Sewage facility: premises	100 m <sup>3</sup> per day (Stage 1 and Stage	
	(a) on which sewage is treated (excluding septic tanks); or	2)	
	(b) from which treated sewage is discharged onto land or into waters.		

#### 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 □ No ⊠	N/A
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes ⊠ No □	Ministerial statement No: 993
Has the proposal been referred and/or assessed under the EPBC Act?	Yes ⊠ No □	Reference No: EPBC 2012/6689
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes ⊠ No □	Mining lease / tenement ⊠ Expiry: 11 February 2041
Has the applicant obtained all relevant planning approvals?	Yes □ No □ N/A ⊠	N/A
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes □No ⊠	No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes □ No ⊠	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 □	Licence/permit No: GWL175700
		Name: Canning-Kimberley Groundwater Area
		Type: Proclaimed Groundwater Area
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes ⊠ No □	Has Regulatory Services (Water) been consulted?
		Yes □ No ⊠ N/A □
		Regional office: North West
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes □ No ⊠	N/A
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous</i>	Yes ⊠ No □	Health (Miscellaneous Provisions) Act 1911.

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Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx)		<ul> <li>Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974</li> <li>Environmental Protection (Controlled Waste) Regulations 2004</li> </ul>
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 Contaminated Sites Act 2003?	Yes □ No ⊠	N/A