



## Application for Works Approval

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

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<b>Works Approval Number</b>	W6616/2021/1
<b>Applicant</b>	Fortescue Metals Group Ltd
<b>ACN</b>	002 594 872
<b>File number</b>	DWER2021/000623
<b>Premises</b>	Rail Camp 145 Mining Tenement G45/286 Town of Port Hedland WA 6721 As defined by the premises maps attached to the issued works approval
<b>Date of report</b>	24 June 2022
<b>Decision</b>	Works approval granted

**Alana Kidd**  
**Manager, Resource 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 W6616/2021/1 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 <https://dwer.wa.gov.au/regulatory-documents>.

### 2.2 Application summary and overview of premises

On 4 November 2021, 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, commissioning and time limited operations relating to a Wastewater Treatment Plant (WWTP) at the premises. The premises is approximately 97 km northeast of Marble Bar and located on General Purpose Tenure G45/286.

The premises relates to the category 85 – a sewage facility, with a production capacity of 80 cubic metres per day under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) defined in Works Approval W6616. 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 W6616.

**Table 1: Classification of premises and assessed design capacity**

Description	Category	Assessed production, design capacity or throughput
Category – 85 Sewage facility: premises - a) on which sewage is treated (excluding septic tanks); or b) from which treated sewage is discharged onto land or into waters.	More than 20 but less than 100 cubic metres per day.	80 cubic metres per day (m <sup>3</sup> /day)

As a part of the overall update of the Rail Camp 145 (RC145) – it was determined by the applicant that the existing WWTP, Reverse Osmosis water treatment system (RO plant) and irrigation sprayfield has served their 10 year life expectancy and are required to be replaced with a new system to support the overall requirements of the RC145. The RC145 was originally constructed to support the construction of Fortescue's main rail to move iron ore from Fortescue's mines to Herb Elliot Port in Port Hedland.

The existing WWTP will be decommissioned. The facility was registered in early 2011 (granted under R2213/2011/1), placed into care and maintenance in 2014 and recommissioned in 2017. The maximum capacity of the existing system is 90 m<sup>3</sup>/day. The existing irrigation field occupies an area of 1 hectare (Figure 1).

The new WWTP will have a reduced maximum capacity of 80 m<sup>3</sup>/day. There is an additional increase to the existing prescribed premises boundary of approximately 0.8 ha to support the new WWTP location and expansion to the sprayfield, as outlined in Figure 1. The RC145 and associated clearing has been assessed and approved under Part IV of the *Environmental Protection Act 1986* in Ministerial Statement 690 (MS690).

The WWTP is expected to produce treated effluent of the quality outlined in Table 2. The new system proposed produces almost identical effluent quality to the original system but with a reduced phosphorous output.

**Table 2: Expected water quality for the WWTP.**

Parameter	Unit	Concentration
Total Nitrogen	mg/L	< 20
Total Phosphorus		< 2
Biochemical oxygen demand		< 20
Total suspended solids		< 30
pH	pH units	6.5-8.5
Thermo-tolerant Faecal Coliforms	colony forming units /100mL	< 10

Wastewater will be treated to meet the low exposure risk level defined in the 2011 Department of Health's (DoH) *Guideline for the Non-potable Uses of recycled Water in Western Australia*.

It is also proposed to include the RO reject stream into the finals WWTP tank where it will be diluted before being irrigated out into the irrigation sprayfield. The combination of the WWTP wastewater stream (50,000L per day at 850 mg/L TDS) with the RO reject water (30,000L per day at 2305 mg/L TDS) will result in a combined irrigation stream of 80,000L/day at 1,396mg/L TDS.

The irrigation field will have minor works conducted to bring the equipment up to a higher standard to support the new system. The area of the irrigation field will increase from the current registered area of 1 ha to 1.7ha.

The Combined treated effluent calculations from the WWTP and RO Plant are provided in the table below and demonstrate that the additional 0.7ha expansion to the irrigation sprayfield is adequate in size to prevent nutrient loading. The average TP and TN concentrations were 1.6 mg/L and 14 mg/L respectively and the maximum daily treatment capacity is 80,000 L/day.

**Table 3: Combined daily treat effluent flows**

<b>Combined Daily Treated Effluent Flows from the RC 145 WWTP and RO Plant</b>	
<b>Total Phosphorous Calculations</b>	
Maximum daily treatment capacity	80,000 L/day
80,000 L/day x 1.6 mg/L	0.13 kg/day
0.13 kg/day x 365	47.5 kg/year
Application rate	120 kg/ha/year
Area required to prevent nutrient loading	0.4 ha
<b>Total Nitrogen Calculations</b>	
Maximum daily treatment capacity	80,000 L/day
80,000 L/day x 14 mg/L	1.12 kg/day
1.12 kg/day x 365	409 kg/year
Application rate	480 kg/ha/year
Area required to prevent nutrient loading	0.85 ha

The infrastructure and equipment to be installed are outlined in Table 4 below and the site location and design drawing are shown in Figure 1 and 2.

**Table 4: Infrastructure to be installed.**

REF	Infrastructure or Equipment	Infrastructure location
1	WWTP - ECOFARMER 250 SNR A	Depicted in Figure 1 as "WWTP and Proposed WWTP" and design drawing provided in Figure 2
2	Irrigation Sprayfield	Depicted in Schedule 1, Figure 1 as "existing and proposed sprayfield"

Following construction of required infrastructure, a compliance report will be submitted to DWER. The commissioning of the WWTP and irrigation sprayfield will be undertaken over approximately one-month period to identify and resolve any design and construction issues. A time limited operation will be undertaken under the Works Approval, to allow for the assessment and determination of a new Registration application.

The RO plant it is not considered a prescribed premises under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) due to its maximum design capacity (100,000 litres per day), however as RO reject water (maximum of 30,000 litres per day) is being discharged into WWTP final tanks, environmental risks related to the combined discharge into the sprayfield were assessed as part of this works approval application.

## 2.3 Part IV of the EP Act

The Premises was assessed by the Environmental Protection Authority (EPA) and approved under Ministerial Statement 690 (MS 690) on 3 October 2005. MS 690 is for the construction of a port, railway and associated facilities.

Conditions of MS 690 require the applicant ensures that construction and operation activities avoid the loss of or cause adverse impacts on native flora including conservation significant species, fauna, aboriginal heritage sites and surface water flow regimes.

Figure 1: Location and layout of the existing and proposed prescribed premises.

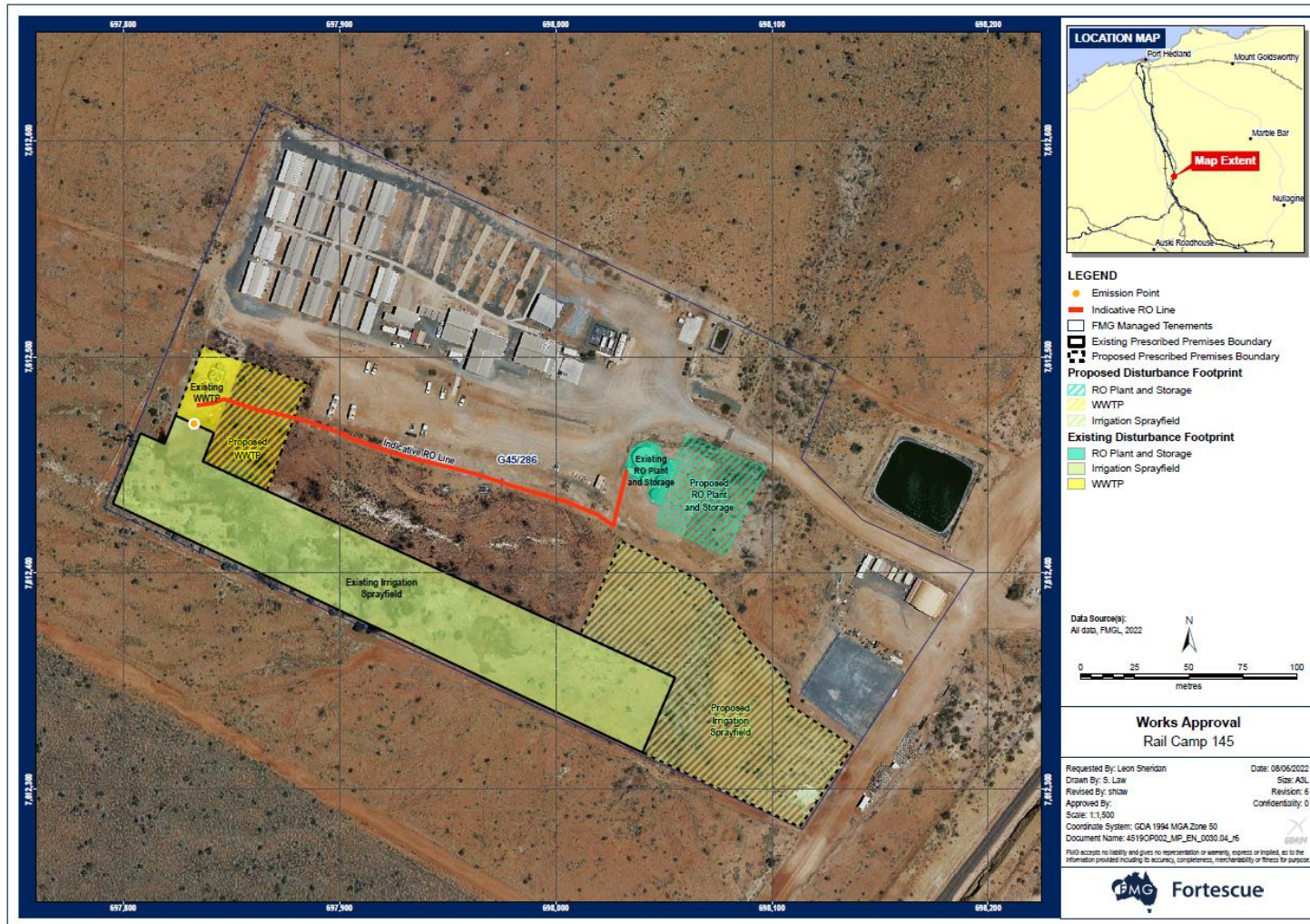
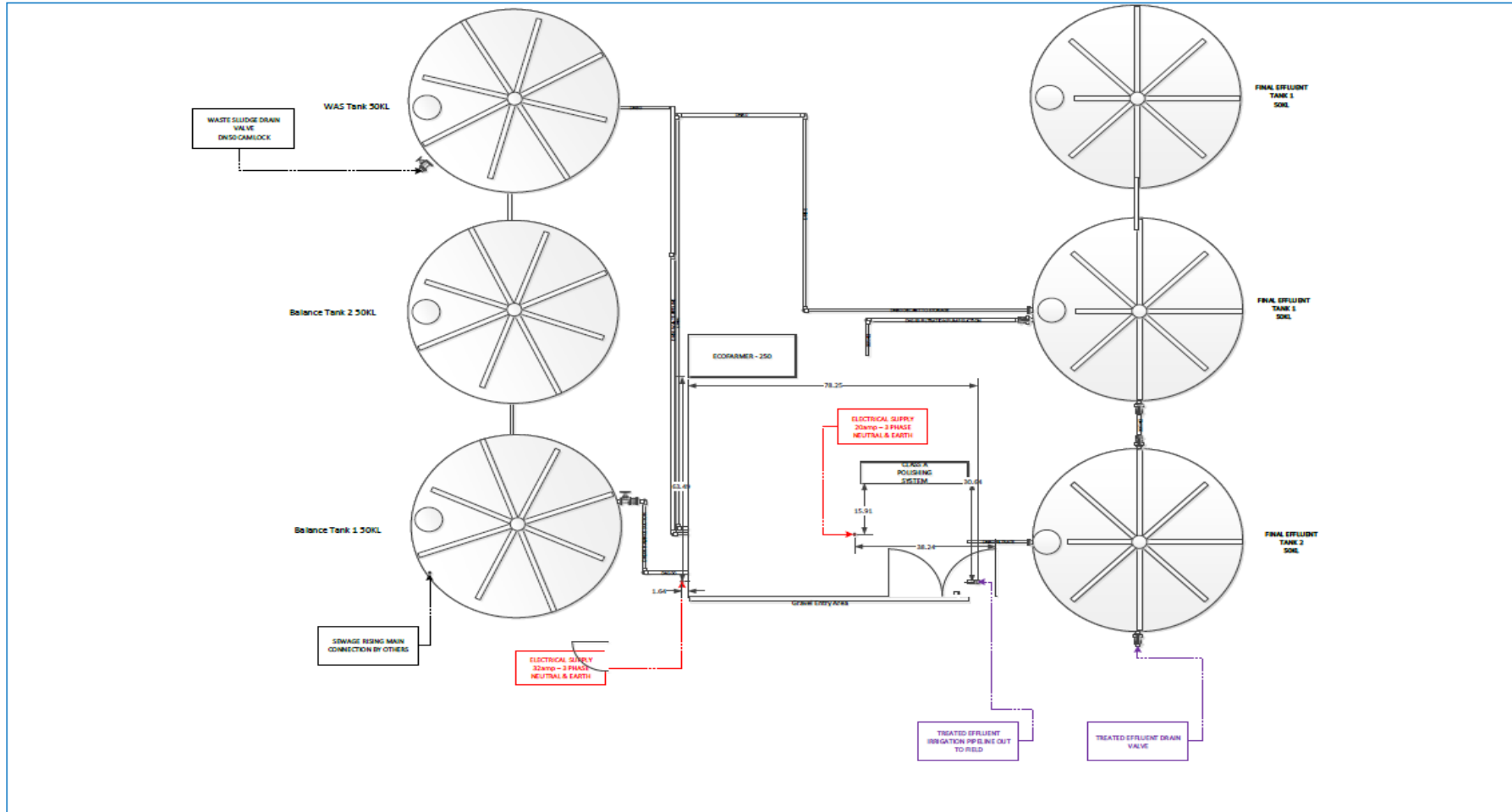


Figure 2: Design drawings of the Wastewater Treatment Plant.

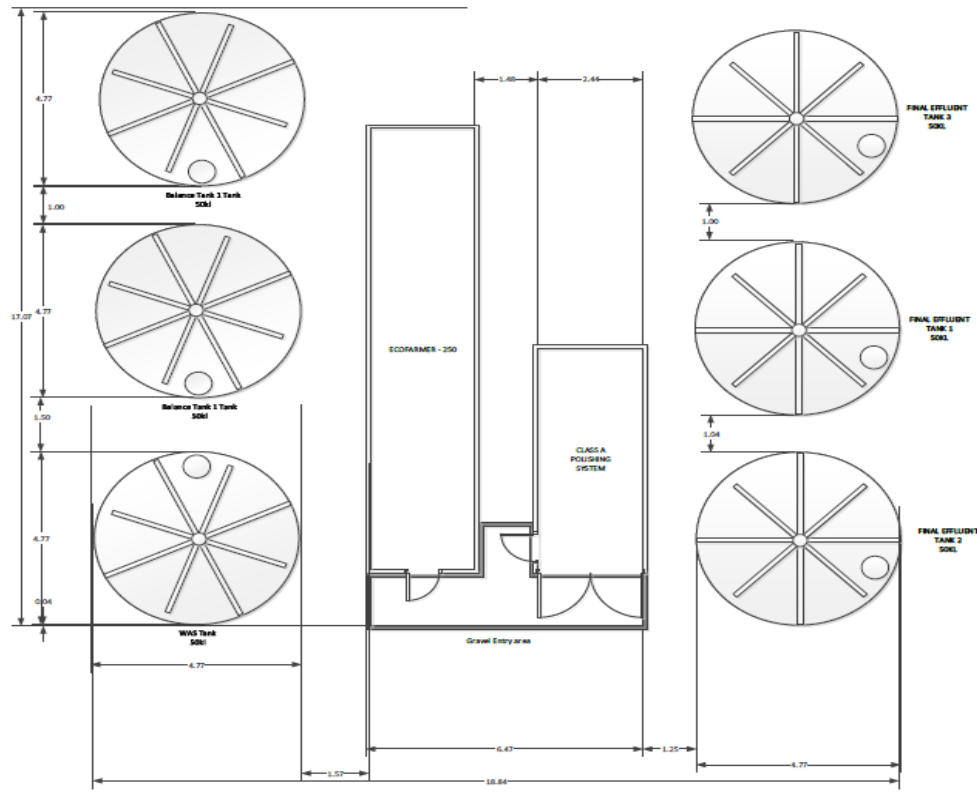
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IR-T13 Decision report template (short) v3.0 (May 2021)



REVISION	DESCRIPTION	DATE	BY
A	Issued for review	14/09/2021	AJ

	CLIENT: Ecodarmer 250 SBR A - FMG CAMP 145 PROJECT: TSA	
	PROJECT No: Ecodarmer 250 SBR A STP DRAWN BY: A James	SHE: A3 DWG No: RWTS-2021-STP-PID-001 SCALE: NTS



REVISION	DESCRIPTION	DATE	BY	CLIENT
A	Issued for info only	14/04/2021	AS	ECOFARMER 250 S01 A - FMS GAMP 145
				PROJECT: TSA
				PROJECT No: ECOFARMER 250 S01 A STP
				SIZE: A3
				DWG No: RWTS-1773-STP-RID-001
				SCALE: NTS Sheet
				REV A
				2 OF 2





### 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 decision report are detailed in Table 5 below. Table 5 also details the control measures the applicant has proposed to assist in controlling these emissions, where necessary.

**Table 5: Proposed applicant controls**

Emission	Sources	Potential pathways	Proposed controls
<b>Construction</b>			
Dust	Construction of new WWTP and associated vehicle movements on unsealed roads.	Air / windborne pathway	<ul style="list-style-type: none"> <li>Minimal clearing required as most area is already disturbed.</li> <li>Construction works are temporary.</li> </ul> <p>Dust controls that will be implemented in accordance with the '<i>Mine and Rail Dust Management Plan</i>' for the activities at Rail Camp 145 including but not limited to the following:</p> <ul style="list-style-type: none"> <li>Minimise vegetation clearing and vegetation disturbance. Conduct vegetation clearing in accordance with a certificate issued under the Land Use Certificate Procedure and the Vegetation Clearing and Topsoil Management Procedure.</li> <li>Conduct a risk assessment and develop and implement dust suppression measures (e.g. water carts, vehicle speed restrictions) in identified high risk areas (e.g. high traffic areas such as access roads and laydown areas) to minimise the potential for dust deposition on vegetation or a reduction in amenity.</li> <li>Inform all personnel and contractors working in the Fortescue Operations Area of their responsibilities in relation to dust management.</li> </ul>
Noise	Movement of vehicles and	Air/windborne	<ul style="list-style-type: none"> <li>Location of premises is a significant</li> </ul>

Emission	Sources	Potential pathways	Proposed controls
	equipment	pathway	distance from receptors.
<b>Commissioning and Operation</b> (including time-limited operation)			
Odour	Emanating from the WWTP in general and the sprayfield	Air/windborne pathway	<ul style="list-style-type: none"> <li>Enclosed tanks. Each pump station is fitted with a carbon scrubber vent to absorb any odours that may occur, ensuring that all air is treated prior to being released to the atmosphere.</li> </ul>
Raw sewage and Treated Sewage (including RO reject water)	Overtopping or pipelines rupture/breaches	Direct discharge, infiltration and overland flow	<ul style="list-style-type: none"> <li>Wastewater will be stored in a HDPE lined tank.</li> <li>The WWTP will consist of: <ul style="list-style-type: none"> <li>2 x 45,000L Balance Tanks</li> <li>Waste Activated Sludge Tank</li> <li>Sequential Batch Reactor (SBR) and Primary, Flow Balance and Plant Room</li> <li>Final Effluent/Chlorine Contact Tanks (3 x 45,000L tanks)</li> </ul> </li> <li>An alarm system will be fitted to the facility to monitor water levels and pump failure.</li> <li>Alarms installed to warn of malfunction before spills occur.</li> <li>Control system to operate the WWTP.</li> <li>Sludge produced by the WWTP 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 <i>Environmental Protection (Controlled Waste) Regulations 2004</i>.</li> </ul>
Treated Effluent	Discharge of treated sewage with exceeded quality or volumes to irrigation field	Direct Discharge, infiltration and overland flow	<ul style="list-style-type: none"> <li>1.7ha irrigation field comprising native vegetation enclosed within a signposted wire fence;</li> <li>Fence is located a minimum of 5m from the sprinkler spray pattern to allow for spray drift;</li> <li>Approximately 150 sprinklers will be installed across the total irrigation field. The irrigation area has been designed to provide sufficient surface area to reduce the potential of nutrient loading</li> <li>Irrigation area will be managed effectively with the sprinkler system undergoing</li> </ul>

Emission	Sources	Potential pathways	Proposed controls
			<p>regular maintenance to ensure they are working correctly.</p> <ul style="list-style-type: none"> <li>• The irrigation system will operate with rotation between different zones to maintain an even spread of evaporation across the irrigation field and will assist in preventing any run-off beyond the irrigation area.</li> <li>• The irrigation area will be fenced to prevent any cattle from entering the area and damaging the irrigation system.</li> <li>• The timing of irrigation, run time on each area/zone will be fully adjustable allowing for controlled application during daylight hours to make the best use of evaporation potential.</li> <li>• The sprinkler design uses a smaller low flow/controlled droplet size sprinkler at low pressure which will prevent any spray drift outside of the irrigation area. The design of the sprinklers will also be installed in an overlapping design. The application rate whilst in operation is 177 litres/hour over a diameter of 9m or a precipitation equivalent of 2.78mm/hr.</li> <li>• WWTP will have a maximum throughput of 80m<sup>3</sup> per day</li> <li>• Anticipated water quality of treated effluent pumped to the irrigation area: <ul style="list-style-type: none"> <li>Total Nitrogen &lt;20 mg/L;</li> <li>Total Phosphorus &lt;2 mg/L;</li> <li>Total Suspended Solids (TSS) &lt;30 mg/L;</li> <li>pH 6.5 – 8.5; and</li> <li>Thermo-tolerant Faecal Coliforms &lt;10 colony forming units/100ml; and</li> <li>Biochemical oxygen demand &lt;20mg/L</li> </ul> </li> <li>• Wastewater will be treated to meet the low exposure risk level defined in the 2011 Department of Health's Guideline for the Non-potable uses of recycled water in Western Australia.</li> <li>• Validation monitoring will be undertaken during the WWTP commissioning phase to ensure it is capable of treating wastewater to the required standard and confirm the WWTP is operating correctly</li> <li>• The wastewater treatment facility will be monitored with weekly inspections.</li> <li>• Flow meters to record inflow and outflow from the WWTP.</li> </ul>

Emission	Sources	Potential pathways	Proposed controls
Contaminated stormwater	Rainfall ingress into the WWTP and irrigation area becoming contaminated	Direct discharge, infiltration and overland flow	<ul style="list-style-type: none"> <li>• Wastewater will be stored in HDPE lined and enclosed tanks.</li> <li>• WWTP and irrigation area are located away from ephemeral drainage lines.</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 6 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 6: Sensitive human and environmental receptors and distance from prescribed activity**

Human receptors	Distance from prescribed activity
No residential premises within 5km of prescribed premises boundary.	
Environmental receptors	Distance from prescribed activity
Aboriginal Registered Sites	Site is within or directly adjacent to registered sites: <ul style="list-style-type: none"> <li>• Abydos Woodstock rock and occupation site complex</li> <li>• Kartangku Talu</li> <li>• FMG KAR M2 Isolated Cowrie Shells</li> </ul> (Managed under MS690 and <i>Aboriginal Heritage Act 1972</i> )
Groundwater Surface Water	Approx. 10 mbgl; Quality: TDS <1,000mg/L No surface water drainage located within 1km from premises.
Native Vegetation	Within premises boundary. None of the vegetation communities within the premises area are considered Threatened Ecological Communities or Priority Ecological Communities. No Conservation significant species as listed by the DBCA identified within the premises area.
Fauna	One Western Pebble-mound mouse ( <i>Pseudomys chapmani</i> ) mound has been recorded approximately 250m north-east of irrigation spray field footprint. (Managed under MS690)

## 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 W6616 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 7.

Works approval W6616 that accompanies this decision report authorises construction and time-limited operations. The conditions in the issued works approval, as outlined in Table 7 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. Waste and Water treatment activities. 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 7: Risk assessment of potential emissions and discharges from the premises during construction, commissioning and operation**

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
<b>Construction</b>								
Construction of WWTP Infrastructure and placement of equipment	Dust	Air/windborne pathway causing impacts to health and amenity	Native vegetation in the vicinity	Refer to Section 3.1	N/A	Y	N/A	The minor construction works (equipment placement) are not expected to generate significant dust emissions. The general provisions of the EP Act are considered sufficient in regulating dust emissions in the event of any issues
	Noise		Native fauna	Environmental Protection (Noise) Regulations 1997	N/A	Y	N/A	The minor construction works (equipment placement) are not expected to generate significant noise emissions. The Environmental Protection (Noise) Regulations 1997 (Noise Regulations) apply in the event of any issues
<b>Commissioning and Time-limited operations</b>								
Irrigation of treated wastewater to spray-field	Odour	Air/windborne pathway causing impacts to health and amenity.	No receptor in vicinity	Refer to Section 3.1	N/A	Y	N/A	There is not considered to be a pathway for odour emissions to residential receptors due to distance.
Discharge of combined effluent consisting of treated Wastewater and RO reject water to land (irrigation spray-field)	Untreated / partially treated wastewater/ RO reject water	Overtopping / spills/ leaks of WWTP tanks and pipeline leaks/bursts resulting in effluent containing high levels of nutrients and saline water impacting the health and	Native Vegetation Groundwater: depth to groundwater is 10m.	Refer to Section 3.1	C = Slight L = Unlikely <b>Low Risk</b>	Y	Condition 1: infrastructure and equipment specifications. Condition 5: operational controls during commissioning Condition 12: operational controls during time limited operations.	In the event of overtopping/spills/leaks of WWTP or pipelines, low level impacts could occur. Standard conditions imposed to ensure alarms systems are in place; all tanks and pipelines are constructed of impermeable material and free of leaks and defects; infrastructure is designed to manage stormwater, and all spills/leaks are cleaned up immediately. These conditions are in line with commitments made by the applicant  Brine must not be discharged undiluted.

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Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
		growth of surrounding vegetation and causing a reduction in soil and groundwater quality						
	<i>Combined Effluent consisting of Treated sewage and RO reject water with exceeded quality or volumes applied to irrigation spray field using reticulated sprinklers</i>	Discharge to land resulting in effluent containing high levels of nutrients and saline water impacting the health and growth of surrounding vegetation and causing a reduction in soil and groundwater quality	Native Vegetation  Groundwater: depth to groundwater is 10m.	<i>Refer to Section 3.1</i>	C = Minor L = Unlikely <b>Medium Risk</b>	Y	Condition 1, infrastructure and equipment specifications.  Condition 5 operational controls during commissioning  Condition 6 authorised discharge point during commissioning  Condition 7 monitoring of discharge water quality during commissioning  Condition 12 operational controls during time limited operations.  Condition 13 authorised discharge limits.  Condition 14 monitoring of emissions during time limited operations.	The Delegated Officer has determined that monitoring of the effluent discharge volumes and quality are required to ensure impacts are minimised. This testing requirement is in line with commitments made by the applicant.  Additionally, the applicant must maintain and manage the irrigation spray field to prevent potential pooling of treated effluent. Therefore, applicant needs to position the sprinklers appropriately. These commitments have been conditioned in the issued works approval.  Standard reporting conditions also imposed for commissioning and TLO to ensure the plant is meeting specifications before the Registration is issued.

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.



## 4. Consultation

Table 8 provides a summary of the consultation undertaken by the department.

**Table 8: Consultation**

Consultation method	Comments received	Department response
Application advertised on the department's website on 10 January 2022	None received	N/A
Local Government Authority advised of proposal on 12 January 2022	The town has no objections to the proposal and noted that Towns Environmental Health Services approval are required. The applicant shall ensure compliance with relevant legislation and manage dust appropriately.	The applicant indicated that a Dust management plan is in place (not provided or assessed as part of the application).  Applicant has provided key proposed dust controls to minimise risks to environment  The minor construction works (equipment placement) are not expected to generate significant dust emissions.
Applicant was provided with draft documents on 21/06/2022	No comments provided regarding draft conditions or decision report. Applicant has addressed outstanding queries regarding disturbance area, dust management, sprinklers configuration and prescribed premises boundary.	N/A

## 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.

A Registration will need to be applied for during the time limited operations to allow for continuous and ongoing operation of the WWTP.

## 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.

## Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY				
<b>Application type</b>				
Works approval	<input checked="" type="checkbox"/>			
Licence	<input type="checkbox"/>	Relevant works approval number:		None <input checked="" 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 type="checkbox"/>	Current works approval number:		
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	4 November 2021			
<b>Applicant and Premises details</b>				
Applicant name/s (full legal name/s)	Fortescue Metals Group Ltd (ACN: 002 594 872)			
Premises name	Rail Camp 145			
Premises location	General Purpose tenure G45/286. (registered to The Pilbara Infrastructure Pty Ltd, which is a wholly owned subsidiary of Fortescue Metals Group (FMG) Limited.)			
Local Government Authority	Town of Port Hedland			
<b>Application documents</b>				
HPCM file reference number:	DER2021/000623			
Key application documents (additional to application form):	Works approval cover letter (Ref: A2060579) Works approval supporting documentation (Ref: A2060579)			
<b>Scope of application/assessment</b>				

<p>Summary of proposed activities or changes to existing operations.</p>	<p>Fortescue Metals Group Limited (Fortescue) has applied for a Works Approval to construct a new wastewater treatment plant (maximum throughput 80m<sup>3</sup> per day) and reinstate the existing irrigation sprayfield at Rail Camp 145 on G45/268. The Project is a replacement to the existing RC145 WWTP, which was originally constructed to support the construction of Fortescue's main rail to move iron ore from Fortescue's mines to the Herb Elliot Port. The existing WWTP is being decommissioned as it has reached the end of its life.</p> <p>The facility's registration number is R2213/2011/1 and it is registered as a Category 85 Sewage Facility with DWER.</p> <p>The proposed location of the replacement WWTP is outside the existing registration boundary and would require the clearing of approximately 0.1ha of land.</p> <p>Fortescue request that this works approval authorise construction, commissioning, and time limited operations of the RC145 WWTP and associated infrastructure.</p>
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**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	Proposed changes to the production or design capacity (amendments only)
<i>Category 85: sewerage facility (more than 20 but less than 100m<sup>3</sup> per day)</i>	<i>80m<sup>3</sup> per day</i>	<i>N/A</i>

**Legislative context and other approvals**

<p>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?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Ministerial statement No: MS 690 EPA Report No: Bulletin 1173</p>
<p>Has the proposal been referred and/or assessed under the EPBC Act?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Has the applicant demonstrated occupancy (proof of occupier status)?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>General lease Expiry:17/08/2030</p>

<p>Has the applicant obtained all relevant planning approvals?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/></p>	<p>Approval:</p> <ul style="list-style-type: none"> <li>Approval sought under the <i>Mining Act 1978</i>, Mining Proposal for Small Mining Operations. This application has been submitted to DMIRS in parallel to the works approval application.</li> <li>An application has been submitted in parallel to this Works Approval to the Department of Health (DoH) for a commercial onsite wastewater system in accordance with the Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974.</li> </ul>
<p>Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Clearing covered under MS690</p>
<p>Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>N.A</p>
<p>Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name: Yule Surface Water Resource  Type: Proclaimed Surface water Area (P1)  Has Regulatory Services (Water) been consulted?  Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/></p>
<p>Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises subject to any other Acts or subsidiary regulations ?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<ul style="list-style-type: none"> <li>The <i>Mining Act 1978</i></li> <li><i>EP Act 1986</i></li> <li><i>Environmental Protection (Controlled Waste) Regulations 2004</i></li> <li>The <i>Aboriginal Heritage Act 1972</i></li> <li>MS 690</li> <li><i>Treatment of Sewage and Disposal of Effluent and Liquid Waste Regulations 1974</i></li> </ul>
<p>Is the Premises within an Environmental Protection Policy (EPP) Area?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	

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"/>	