



Part 1: Application type

INSTRUCTIONS:

- Completion of this form is a statutory requirement under s.54(1)(a) of the *Environmental Protection Act 1986 (WA) (EP Act)* for works approval applications; s.57(1)(a) for licence and licence renewal applications; s.59B(1)(a) for applications for an amendment; and under r.5B(2)(a) of the *Environmental Protection Regulations 1987 (WA) (EP Regulations)* for applications for registration of premises.
- The instructions set out in this application form are general in nature.
- A reference to 'you' in these instructions is a reference to the applicant.
- The information provided to you by the Department of Water and Environmental Regulation (DWER) in relation to making applications does not constitute legal advice. DWER recommends that you obtain independent legal advice.
- Applicants seeking further information relating to requirements under the EP Act and/or EP Regulations are directed to the Parliamentary Counsel's Office website (www.legislation.wa.gov.au). Schedule 1 of the EP Regulations contains the categories of prescribed premises.
- For prescribed premises where activities fall within more than one category, ALL applicable categories must be identified. This applies for existing prescribed premises seeking renewal or amendment, as well as new prescribed premises.
- The application form must be completed with all relevant information attached. Attachments can be combined and submitted as one or more consolidated documents if desired, provided it is clear which section of the application form the information / attachments relate to. Where attachments are submitted separately, avoid duplicating information. Ensure that any cross-references between the application form and the supporting document(s) are accurate.
- If an application form has been submitted which is incomplete or materially incorrect, the Chief Executive Officer of DWER (CEO) will decline to deal with the application and advise the applicant accordingly.
- On completing this application form, please submit it to DWER in line with the instructions in Part 15 of the form.

1.1 This is an application for:
[Select one option only. Your application may be returned if multiple options are selected.]

under Part V, Division 3 of the EP Act.

Please see the:

- [Guideline: Industry Regulation Guide to Licensing](#)
- [Procedure: Prescribed premises works approvals and licences](#)

for more information to assist in understanding DWER's regulatory regime for prescribed premises.

☒ Works approval

☐ Licence

Existing registration number(s): []

Existing works approval number(s): []

☐ Renewal

Existing licence number: []

☐ Amendment

Number of the existing licence or works approval to be amended: []

☐ Registration (works approval already obtained)

Existing works approval number(s): []

1.2 For a works approval amendment or licence amendment, are there less than 90 business days until the expiry of the existing works approval or licence?

Only active instruments can be amended. Applications to amend a works approval or licence must be made 90 business days or more prior to the existing works approval or licence expiring to ensure there is adequate time to assess the amendment.

Yes

☐

1.3 This application is for the following categories of prescribed premises:

(specify all prescribed premises category numbers)

[5, 6, 12, 52, 54, 57, 64]

☒

All activities that meet the definition of a prescribed premises as set out in Schedule 1 of the EP Regulations have been specified above (tick, if yes).

Completion Matrix

The matrix below explains what sections are required to be completed for different types of applications.

Application form section	New application / registration	Renewal	Amendment
Part 1: Application type	•	•	•
Part 2: Applicant details	•	•	•
Part 3: Premises details	•	•	⚠
Part 4: Proposed activities	•	•	•
Part 5: Index of Biodiversity Surveys for Assessment and Index of Marine Surveys for Assessment	If required.	If required.	If required.
Part 6: Other DWER approvals	•	•	•
Part 7: Other approvals and consultation	•	•	•
Part 8: Applicant history	•	•	⚠
Part 9: Emissions, discharges, and waste	•	•	⚠
Part 10: Siting and location	•	•	⚠
Part 11: Submission of any other relevant information	•	•	If required.
Part 12: Category checklist(s)	•	•	•
Part 13: Proposed fee calculation	•	•	•
Part 14: Commercially sensitive or confidential information	•	•	•
Part 15: Submission of application	•	•	•
Part 16: Declaration and signature	•	•	•
Attachment 1A: Proof of occupier status	•	•	N/A
Attachment 1B: ASIC company extract	•	•	N/A
Attachment 1C: Authorisation to act as a representative of the occupier	•	•	•
Attachment 2: Premises map/s	•	•	⚠
Attachment 3A: Environmental commissioning plan	If required.	N/A	If required
Attachment 3B: Proposed activities	•	•	⚠
Attachment 3C: Map of area proposed to be cleared (only applicable if clearing is proposed)	•	•	•
Attachment 3D: Additional information for clearing assessment	If required.	If required.	If required.
Attachment 4: Marine surveys (only applicable if marine surveys included in application)	•	•	•
Attachment 5: Other approvals and consultation documentation	•	•	⚠
Attachment 6A: Emissions and discharges	If required.	If required.	If required.
Attachment 6B: Waste acceptance	If required.	If required.	If required.
Attachment 7: Siting and location	•	•	⚠
Attachment 8: Additional information submitted	If required.	If required.	If required.
Attachment 9: Category-specific checklist(s)	•	If required.	If required.
Attachment 10: Proposed fee calculation	•	•	•
Attachment 11: Request for exemption from publication	If required.	If required.	If required.

Key:

• Must be completed / submitted.

⚠ To the extent changed / required in relation to the amendment.

N/A Not required with application, but may be requested subsequently depending on DWER records.

"If required" Sections for applicants to determine.

Part 2: Applicant details**INSTRUCTIONS:**

- The applicant (the occupier of the premises) must be an individual(s), a company, body corporate, or public authority, but not a partnership, trust, or joint-venture name. Applications made by or on behalf of business names or unincorporated associations will not be accepted.
- If applying as an individual, your full legal name must be provided.
- If applying as a company, body corporate, or public authority, the full legal entity name must be inserted.
- Australian Company Number's (ACN) must be provided for all companies or body corporates.
- DWER prefers to send all correspondence electronically via email. We request that you consent to receiving all correspondence relating to instruments and notices under Part V of the EP Act (Part V documents) electronically via email, by indicating your consent in Section 2.3.
- Companies or body corporates making an application must nominate an authorised representative from within their organisation. Proof of authorisation must be submitted with the application (see Section 2.10). If you are applying as an individual, you are the representative.
- Details of a contact person must be provided for DWER enquiries in relation to your application. This contact person can be a consultant if authorised to represent the applicant. Written evidence of this authorisation must be provided.
- Details of the occupier of the premises must be provided. One of the options must be selected and if you have been asked to specify, please provide details. For example, if 'lease holder' has been selected, please specify the type of lease (for example, pastoral lease, mining lease, or general lease) and provide a copy of the lease document(s). Note that contracts for sale of land will not be sufficient evidence of occupancy status.

2.1	Applicant name/s (full legal name/s): The proposed holder of the works approval, licence or registration.	CITIC Pacific Mining Management Pty Ltd		
	ACN (if applicable):	119 578 371		
2.2	Trading as (if applicable):			
2.3	Authorised representative details: The person authorised to receive correspondence and Part V documents on behalf of the applicant under the EP Act. Where 'yes' is selected, all correspondence will be sent to you via email, to the email address provided in this section. Where 'no' has been selected, Part V documents will be posted to you in hard copy to the postal / business address specified in Section 2.4, below. Other general correspondence may still be sent to you via email.	Name		
		Position		
		Telephone		
		Email		
		<i>I consent to all written correspondence between myself (the applicant) and DWER, regarding the subject of this application, being exclusively via email, using the email address I have provided above.</i>	Yes	No
			☒	☐
2.4	Registered office address, as registered with the Australian Securities and Investments Commission (ASIC): This must be a physical address to which a Part V document may be delivered.	Level 7, 45 St Georges Terrace, PERTH WA 6000		
2.5	Postal address for all other correspondence: If different from Section 2.4.	GPO Box 2732, PERTH WA 6001		

Part 2: Applicant details				
2.6	Contact person details for DWER enquiries relating to the application (if different from the authorised representative): For example, could be a consultant or a site-based employee.	Name	[REDACTED]	
		Position	[REDACTED]	
		Organisation	CITIC Pacific Mining	
		Address	CITIC Pacific Mining Level 6 45 St Georges Terrace Perth PO Box 2732 Perth WA 6000	
		Telephone	[REDACTED]	
		Email	[REDACTED]	
2.7	Occupier status: Occupier is defined in s.3 of the EP Act and includes a person in occupation or control of the premises, or occupying a different part of the premises whether or not that person is the owner. Note: if a lease holder, the applicant must be the holder of an executed lease, not just an agreement to lease.	Registered proprietor on certificate of title.	☐	
		Lease holder (please specify, including date of expiry of lease).	☐	
		Public authority that has care, control, or management of the land.	☐	
		Other evidence of legal occupation or control (please specify – for example, joint venture operating entity, contract, letter of operational control, or other legal document or evidence of legal occupation). Occupier of prescribed premise L8308/2008/3	☒	
Attachments			N/A	Yes
2.8	Attachment 1A: Proof of occupier status	Copies of certificate of title, lease, or other instruments evidencing proof of occupier status, including the expiry date or confirmation that there is no expiry date, have been provided and labelled as Attachment 1A.	☐	☒
2.9	Attachment 1B: ASIC company extract	A current company information extract (not the company information summary) purchased from the ASIC website(s) for all new applications / registrations has been provided and labelled as Attachment 1B.	☐	☒
2.10	Attachment 1C: Authorisation to act as representative of the occupier	A copy of the documentation authorising the applicant to act on the occupier's behalf as their authorised agent/representative has been provided and labelled as Attachment 1C.	☒	☐

Part 3: Premises details				
3.1	Premises description (whole or part to be specified): Include the land description (volume and folio number, lot, or location number/s); Crown lease or reserve number; pastoral lease number; or mining tenement number (as appropriate), of all properties, as shown on title details registered with Landgate.	As per schedule 1 of L8308/2008/3. Mining Tenements: M08/123-125, M08/264-266, G08/53, G08/54 and L08/126.		
	Premises street address Include the suburb.	MARDIE WA 6714		
	Premises name (if applicable):	Sino Iron Project Mine Site		
3.2	Local Government Authority area: City, Town, or Shire.	City of Karratha		
3.3	GPS (latitude and longitude) coordinates: GPS coordinates determined using the GDA 2020 (Geographic latitude / longitude) coordinate system and datum must be provided for all points around the proposed premises boundary, where the entirety of the cadastral (land parcel) or mining tenements are not used as the premises boundary.			
Attachments			N/A	Yes
3.4	Attachment 2: Premises map(s) You must provide as an attachment to this application form, labelled Attachment 2, either: - an aerial photograph, map, and site plan of sufficient scale showing the proposed prescribed premises boundary - or - where available, a map of the proposed premises boundary and site plan as an ESRI shapefile (accepted file types include .dbf, .shp, .prj, and .shx) with the following properties (provided on a suitable portable digital storage device, if submitting application in hard copy form): - Geometry type: Polygon Shape - Coordinate system: GDA 2020 (Geographic latitude / longitude) - Datum: GDA 2020 (Geocentric Datum of Australia 2020). You must also provide a map or maps of the prescribed premises, clearly identifying and labelling: - layout of key infrastructure and buildings, clearly labelled; - the premises boundary (where the premises boundary does not align with the entirety of the cadastral boundary, identify the Lot Number for which the premises is part of); - emission and discharge points (with precise GPS coordinates where available); - monitoring points (with precise GPS coordinates where available); - sensitive receptors and land uses - all areas proposed to be cleared (if applicable). Maps must contain a north arrow, clearly marking the area in which the activities are carried out. The map or maps must be of reasonable clarity and have a visible scale.	☐	☒	

Part 4: Proposed activities**INSTRUCTIONS:**

- You must provide a description and the scope, size and scale of all prescribed activities of Schedule 1 to the EP Regulations including the maximum production or design capacity of each prescribed activity.
- If applying for a works approval or licence amendment involving the construction of new infrastructure, you must provide information on infrastructure to be constructed and how long construction is expected to take. You must confirm if commissioning is to occur and how long it will take.
- If applying for a works approval or licence amendment *not* involving the construction of new infrastructure, provide details of the proposed amendment.
- You must identify all emission sources on the premises map/s.
- You must also provide information on activities which directly relate to the prescribed premises category which have, or are likely to result in, an emission or discharge.
- If clearing activities are proposed provide a description and details. If a relevant exemption under Schedule 6 of the EP Act or r.5 of the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (WA) (Clearing Regulations) may apply, provide details.
- Note that in some cases, DWER may require that the clearing components of a works approval or licence (or amendment) application be submitted separately through the clearing permit application process. Refer to the [Procedure: Prescribed premises works approvals and licences](#) for further guidance.
- Please note that the requested information is critical to DWER's understanding of the proposed activities. The more accurate, specific, and complete the information provided in the application, the less uncertainty that DWER may identify in the application, therefore facilitating completion of the assessment in a more efficient and timely manner.

4.1 Prescribed premises infrastructure and equipment

In Table 4.1 (below), provide a list of all items of infrastructure and equipment within the boundary of the prescribed premises relevant to this application, and include the following details for each:

- relevant categories (if known)** – the categories of prescribed premises (as listed under Schedule 1 of the EP Regulations) that relate to that infrastructure or equipment;
- site plan reference** – the location of that infrastructure or equipment (with reference to the site plan map or maps provided above in Section 3.4 and labelled as Attachment 2 – e.g. use GPS coordinates or a clear description such as “labelled as [label on premises map] on Map A”);
- is it critical containment infrastructure (CCI)?** – indicate if the identified infrastructure or equipment would be categorised as CCI. Refer to the [Guideline: Industry Regulation Guide to Licensing](#) for further information on CCI; and
- is environmental commissioning required?** – indicate if environmental commissioning is intended to be undertaken for that item of infrastructure or equipment. Refer to the [Guideline: Industry Regulation Guide to Licensing](#) for further information on environmental commissioning.

Add additional rows to Table 4.1 (below) as required.

Table 4.1: Infrastructure and equipment

	Infrastructure and equipment	Relevant categories (if known)	Site plan reference	CCI? (mark if yes)	Environmental commissioning? (mark if yes)
1.	Tailings Storage Facility 3 (TSF 3)	5	TSF 3	☒	☐
2.				☐	☐
3.				☐	☐
4.				☐	☐
5.				☐	☐
6.				☐	☐
7.				☐	☐
8.				☐	☐
9.				☐	☐
10.				☐	☐

Part 4: Proposed activities		
4.2	Detailed description of proposed activities or proposed changes (if an amendment): You must provide details of proposed activities relevant to this application within the boundary of the prescribed premises, identifying: • scope, size, and scale of the project, including details as to production or design capacity (and/or frequency, if applicable); • key infrastructure and equipment; • description of processes or operations (a process flow chart may be included as an attachment); • emission / discharge points; • locations of waste storage or disposal • activities occurring during construction, environmental commissioning, and operation (if applicable). If assessment and imposition of conditions to allow environmental commissioning to be undertaken are requested, please provide an environmental commissioning plan as Attachment 3A (see 4.11 below). Additional information relating to the proposed activities may be included in Attachment 3B (see 4.12 below).	
	Construction activities (if applicable):	
	See supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3)	
	Environmental commissioning activities (if applicable):	
	Refer to the Guideline: Industry Regulation Guide to Licensing for further guidance.	
	N/A	
	Time limited operations activities (if applicable):	
	Different elements of the premises may require time limited operations to commence at different times. In these circumstances, please specify the infrastructure and/or equipment for which time limited operations authorisation is being applied for. If time limited operations are expected to differ from future licensed operations, specify how and why this would be the case. Refer to the Guideline: Industry Regulation Guide to Licensing for further guidance.	
	N/A	
	Operations activities (for a licence):	
	The proposed TSF3 is consistent with existing operations authorized under L8308/2008/3	
4.3	Estimated operating period of the project / premises (e.g. based on estimated infrastructure life):	approximately 40 years
4.4	Proposed date(s) for commencement of works (if applicable):	2026
4.5	Proposed date(s) for conclusion of works construction (if applicable): This date should coincide with the submission to DWER of an Environmental Compliance Report(s) and/or a Critical Containment Infrastructure Report(s) as required. Refer to the Guideline: Industry Regulation Guide to Licensing .	2029
4.6	Proposed date(s) for environmental commissioning of works (if applicable): Refer to the Guideline: Industry Regulation Guide to Licensing .	N/A
4.7	Proposed date/s for commencement of time limited operations under works approval (if applicable): Refer to the Guideline: Industry Regulation Guide to Licensing .	N/A
4.8	Maximum production or design capacity for each category applied for (based on infrastructure operating 24 hours a day, 7 days a week): Provide figures for all categories listed in Section 1.2.	No change to the previously assessed production capacity under L8308/2008/3

Part 4: Proposed activities				
Units of measurement must be the same as the units of measurement associated with the relevant category as identified in Schedule 1 of the EP Regulations.				
4.9	Estimated / actual throughput for each category applied for: Provide figures for all categories listed in Section 1.2. Units of measurement must be the same as the units of measurement associated with the relevant category as identified in Schedule 1 of the EP Regulations.		No change to the previously assessed production capacity under L8308/2008/3	
Attachments			N/A	Yes
4.10	Attachment 2: Premises map	Emission/discharge points are clearly labelled on the map/s required for Part 3.4 (Attachment 2).	☐	☒
4.11	Attachment 3A: Environmental commissioning plan	If applying to construct works or install equipment, and environmental commissioning of the works or equipment is planned, an environmental commissioning plan has been included in Attachment 3A. The environmental commissioning plan is expected to include, at minimum, identification of: - the sequence of commissioning activities to be undertaken, including details on whether they will be done in stages; - a summary of the timeframes associated with the identified sequence of commissioning activities; - the inputs and outputs that will be used in the commissioning process; - the emissions and/or discharges expected to occur during commissioning; - the emissions and/or discharges that will be monitored and/or confirmed to establish or test a steady-state operation (e.g. identifying emissions surrogates, etc.), including a detailed emissions monitoring program for the measurement of those emissions and/or discharges; - the controls (including management actions) that will be put in place to address the expected emissions and/or discharges; - any contingency plans for if emissions exceedances or unplanned emissions and/or discharges occur - how any of the above would differ from standard operations once commissioning is complete. Note that DWER will not include conditions on a granted instrument that authorise environmental commissioning activities where it is not satisfied that the risks associated with environmental commissioning can be adequately addressed.	☒	☐
4.12	Attachment 3B: Proposed activities	Additional information relating to the proposed activities has been included in Attachment 3B (if required).	☒	☐
Clearing activities				
4.13 to 4.19 are only required if the application includes clearing of native vegetation.				
4.13	Proposed clearing area (hectares and/or number of individual trees to be removed):		Clearing approved by MS1066	
4.14	Details of any relevant exemptions: Refer to DWER's A guide to the exemptions and regulations for clearing native vegetation .		Clearing approved by MS1066	
4.15	Proposed method of clearing:		Mechanical	
4.16	Period within which clearing is proposed to be undertaken: For example, May 2020 – June 2020.		2026-2029	
4.17	Purpose of clearing:			

Part 4: Proposed activities				
TSF3 Construction				
Clearing activities – Attachments			N/A	Yes
4.18	Attachment 3C: Map of area proposed to be cleared	You must provide: an aerial photograph or map of sufficient scale showing the proposed clearing area and prescribed premises boundary OR if you have the facilities, a suitable portable digital storage device of the area proposed to be cleared as an ESRI shapefile with the following properties: • Geometry type: Polygon Shape • Coordinate system: GDA 2020 (Geographic latitude / longitude) • Datum: 2020 1994 (Geocentric Datum of Australia 2020).	☒	☐
4.19	Attachment 3D: Additional information for clearing assessment	Additional information to assist in the assessment of the clearing proposal may be attached to this application (for example, reports on salinity, fauna or flora studies or other environmental reports conducted for the site).	☒	☐

Part 5: Index of Biodiversity and Marine Surveys for Assessments (IBSA and IMSA)				
INSTRUCTIONS: • Biodiversity surveys should be submitted through the IBSA Submissions Portal at ibsasubmissions.dwer.wa.gov.au • Biodiversity surveys submitted to support this application must meet the requirements of the EPA's <i>Instructions for the preparation of data packages for the Index of Biodiversity Surveys for Assessments (IBSA)</i>. • Marine surveys submitted to support this application must meet the requirements of the EPA's <i>Instructions for the preparation of data packages for the Index of Marine Surveys for Assessments (IMSA)</i>. • If these requirements are not met, DWER will decline to deal with the application.				
Attachments			N/A	Yes
5.1	Biodiversity surveys Please provide the IBSA number(s) (or submission number(s) if IBSA number has not yet been issued) in the space provided. Note that a submission number is not confirmation of acceptance of a biodiversity survey and is not the same as an IBSA number. IBSA numbers are only issued once a survey has been accepted. Once an IBSA number is issued, please notify the department.	All biodiversity surveys submitted with this application meet the requirements of the EPA's Instructions for the preparation of data packages for the Index of Biodiversity Surveys for Assessments (IBSA) . Submission number(s) IBSA number(s)	☒	☐
5.2	Attachment 4: Marine surveys	All marine surveys submitted with this application meet the requirements of the EPA's Instructions for the preparation of data packages for the Index of Marine Surveys for Assessments (IMSA) .	☒	☐

Part 6: Other DWER approvals**INSTRUCTIONS:**

- If you have applied, or intend to apply, for other approvals within DWER that may be relevant to this application, you must provide relevant details.
- If you have referred, or intend to refer, your proposal to the Environmental Protection Authority (EPA), you must provide the requested details.

Pre-application scoping

6.1 Have you had any pre-application / pre-referral / scoping meetings with DWER regarding any planned applications?

☐ No

☒ Yes – provide details:

DWER and CPM representatives met on 15 July 2025 to discuss this TSF3 application.

Environmental impact assessment (Part IV of the EP Act)

6.2 Have you referred or do you intend to refer the proposal to the EPA?

Section 37B(1) of the EP Act defines a 'significant proposal' as "a proposal likely, if implemented, to have a significant effect on the environment".

If DWER considers that the proposal in this application is likely to constitute a 'significant proposal', DWER is required under s.38(5) of the EP Act to refer the proposal to the EPA for assessment under Part IV, if such a referral has not already been made.

If a relevant Ministerial Statement already exists, please provide the MS number in the space provided.

☐ Yes (referred) – reference (if known): []

☐ Yes – intend to refer (proposal is a 'significant proposal') ☐ Yes – intend to refer (proposal will require a s.45C amendment to the current Ministerial Statement): MS []

☒ No – a valid Ministerial Statement applies: MS [1066]

☐ No – not a 'significant proposal'

Clearing of native vegetation (Part V Division 2 of the EP Act and Country Area Water Supply Act 1947)

6.3 Have you applied or do you intend to apply for a native vegetation clearing permit?

In accordance with the [Guideline: Industry Regulation Guide to Licensing and Procedure: Native vegetation clearing permits](#), where clearing of native vegetation:

- is exempt under Schedule 6 of the EP Act or the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (WA) (refer to [a guide to the exemptions and regulations for clearing native vegetation](#))
- is being assessed by a relevant authority which would lead to an exemption under Schedule 6 of the EP Act, or
- has been referred under s.51DA of the EP Act and a determination made that a clearing permit is not required (refer to the [Guideline: Native vegetation clearing referrals](#)),

the clearing will not be reassessed by DWER or be subject to any additional controls by DWER.

If the proposed clearing action is to be assessed in accordance with, or under, an *Environment Protection and Biodiversity Conservation Act* (Cth) (EPBC Act) accredited process, such as the assessment bilateral agreement, the clearing permit application [Form Annex C7 – Assessment bilateral agreement](#) must be completed and attached to your clearing permit application.

☐ Yes – clearing application reference (if known): CPS []

☐ Yes – a valid EP Act clearing permit already applies: CPS []

☐ No – this application includes clearing (please complete Sections 4.13 to 4.19 above)

☐ No – permit not required (no clearing of native vegetation)

☐ No – permit not required (clearing referral decision): CPS []

☒ No – an exemption applies (explain why):

Clearing approved by MS1066

Part 6: Other DWER approvals**6.4 Have you applied or do you intend to apply for a Country Area Water Supply Act 1947 licence?**

If a clearing exemption applies in a *Country Area Water Supply Act 1947* (CAWS Act) controlled catchment, or if compensation has previously been paid to retain the subject vegetation, a CAWS Act clearing licence is required.

If yes, contact the relevant DWER regional office for a Form 1 *Application for licence*.

[Map of CAWS Act controlled catchments](#)

☐ Yes – application reference (if known): []

☐ No – a valid licence applies: []

☒ No – licence not required

Water licences and permits (*Rights in Water and Irrigation Act 1914*)**6.5 Have you applied, or do you intend to apply for:**

1. a licence or amendment to a licence to take water (surface water or groundwater); or
2. a licence to construct wells (including bores and soaks); or
3. a permit or amendment to a permit to interfere with the bed and banks of a watercourse?

For further guidance on water licences and permits under the *Rights in Water and Irrigation Act 1914*, refer to the [Procedure: Water licences and permits](#).

☒ Yes – application reference (if known): [CPM is preparing a bed and banks permit and assessing 26D and 5C requirements for seepage recovery]

☐ No – a valid licence / permit applies: []

☐ No – an exemption applies (explain why):

☐ No – licence / permit not required

Part 7: Other approvals and consultation**INSTRUCTIONS:**

- Please provide copies of all relevant documentation indicated below, including any conditions, exclusions, or expiry dates.
- “Major Project” means:
 - A State Development Project, where the lead agency is the Department of Jobs, Tourism, Science and Innovation (including projects to which a State Agreement applies); or
 - A Level 2 or 3 proposal, as defined in the Department of Premier and Cabinet’s [Lead Agency Framework](#).

	N/A	No	Yes
7.1 Is the proposal a Major Project?		☐	☒
7.2 Is the proposal subject to a State Agreement Act?		☐	☒
If yes, specify which Act:	Iron Ore Processing (Mineralogy Pty Ltd) Agreement Act 2002		
7.3 Has the proposal been allocated to a “Lead Agency” (as defined in the Lead Agency Framework)?		☒	☐
If yes, specify Lead Agency contact details:			
7.4 Has the proposal been referred and/or assessed under the EPBC Act (Commonwealth)?	☐	☐	☒
If yes, please specify referral, assessment and/or approval number:	Sino Iron Mine Continuation Proposal (EPBC 2017/7862)		
7.5 Has the proposal obtained all relevant planning approvals?	☒	☐	☐
If planning approval is necessary but has not been obtained, please provide details indicating why:			
If planning approval is not necessary, please provide details indicating why:			

Part 7: Other approvals and consultation				
7.6	For renewals or amendment applications, are the relevant planning approvals still valid (that is, not expired)?	☒	☐	☐
7.7	Has the proposal obtained all other necessary statutory approvals (not including any other DWER approvals identified in Part 6 of this application)?	☒	☐	☐
If no, please provide details of approvals already obtained, outstanding approvals, and expected dates for obtaining these outstanding approvals:				
		N/A	No	Yes
7.8	Has consultation been undertaken with parties considered to have a direct interest in the proposal (that is, interested parties or persons who are considered to be directly affected by the proposal)? DWER will give consideration to submissions from interested parties or persons in accordance with the Guideline: Industry Regulation Guide to Licensing .	☐	☐	☒
Attachments			N/A	Yes
7.9	Attachment 5: Other approvals and consultation documentation	Details of other approvals specified in Part 7 of this application, including copies of relevant decisions and any consultation undertaken with direct interest stakeholders have been provided and labelled Attachment 5.		☒

Part 8: Applicant history				
Note: - DWER will undertake an internal due diligence of the applicant's fitness and competency based on DWER's compliance records and the responses to Part 8 of the form. - If you wish to provide additional information for DWER to consider in making this assessment, you may provide that information as a separate attachment (see Part 11).				
		N/A	No	Yes
8.1	If the applicant is an individual, has the applicant previously held, or do they currently hold, a licence or works approval under Part V of the EP Act?	☒	☐	☐
8.2	If the applicant is a corporation, has any director of that corporation previously held, or do they currently hold, a licence or works approval under Part V of the EP Act?	☐	☐	☒
8.3	If yes to 8.1 or 8.2 above, specify the name of company and/or licence or works approval number: CITIC Pacific Mining Management Pty Ltd L8308/2008/3; L8758/2013/1; and L8659/2012/2			
8.4	If the applicant is an individual, has the applicant ever been convicted, or paid a penalty, for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	☒	☐	☐
8.5	If the applicant is a corporation, has any director of that corporation ever been convicted, or paid a penalty, for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	☐	☒	☐
8.6	If the applicant is a corporation, has any person concerned in the management of the corporation, as referred to in s.118 of the EP Act, ever been convicted of, or paid a penalty, for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	☐	☒	☐

Part 8: Applicant history			
8.7	If the applicant is a corporation, has any director of that corporation ever been a director of another corporation that has been convicted, or paid a penalty, for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	☐	☒
8.8	With regards to the questions posed in 8.4 to 8.7 above, have any legal proceedings been commenced, whether convicted or not, against the applicant for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	☐	☒
8.9	Has the applicant had a licence or other authority suspended or revoked due to a breach of conditions or an offence under the EP Act or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	☐	☒
8.10	If the applicant is a corporation, has any director of that corporation ever had a licence or other authority suspended or revoked due to a breach of conditions or an offence under the EP Act or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	☐	☒
8.11	If the applicant is a corporation, has any director of that corporation ever been a director of another corporation that has ever had a licence or other authorisation suspended or revoked due to a breach of conditions or an offence under the EP Act or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	☐	☒
8.12	If yes to any of 8.4 to 8.11 above, you must provide details of any charges, convictions, penalties paid for an offence, and/or licences or other authorisations suspended or revoked:		
	N/A		

Part 9: Emissions, discharges, and waste						
INSTRUCTIONS:						
- Please see Guideline: Risk Assessments and provide all information relating to emission sources, pathways and receptors relevant to the application. - You must provide details on sources of emissions (for example, kiln stack, baghouses or discharge pipelines) including fugitive emissions (for example, noise, dust or odour), types of emissions (physical, chemical, or biological), and volumes, concentrations and durations of emissions. - The potential for emissions should be considered for all stages of the proposal (where relevant), including during construction, commissioning and operation of the premises.						
		<table border="1"> <thead> <tr> <th>No</th> <th>Yes</th> </tr> </thead> <tbody> <tr> <td>☐</td> <td>☒</td> </tr> </tbody> </table>	No	Yes	☐	☒
No	Yes					
☐	☒					
9.1	Are there potential emissions or discharges arising from the proposed activities?					
If yes, identify all potential emissions and discharges arising from the proposed activities and complete Table 9.1: Emissions and discharges (below).						

Part 9: Emissions, discharges, and waste
☐ Gaseous and particulate emissions (e.g. emissions from stacks, chimneys or baghouses)

☒ Wastewater discharges (e.g. treated sewage, wash water, or process water discharged to lands or waters)

☐ Noise (e.g. from machinery operations and/or vehicle operations)

☒ Contaminated or potentially contaminated stormwater (e.g. stormwater with the potential to come into contact with chemicals or waste materials, etc.)

☐ Other (please specify): []

☒ Dust (e.g. from equipment, unsealed roads and/or stockpiles, etc.)

☒ Waste and leachate (e.g. emissions through seepage, leaks and spills of waste from storage, process and handling areas, etc.)

☐ Odour (e.g. from wastes accepted at putrescible landfills, storage or processing of waste or other odorous materials, etc.)

☐ Electromagnetic radiation¹

¹ Note that for electromagnetic radiation, copies/details of other relevant approvals (such as from the Department of Mines, Industry Regulation and Safety or the Radiological Council) must be provided where applicable.

Part 9: Emissions, discharges, and waste

Details of any pollution control equipment or waste treatment system, including any control mechanisms used to ensure proper operation of this equipment, must be included in the proposed controls column of the 'Emissions and discharges table' below. Details of management measures employed to control emissions should also be included. Please provide / attach any relevant documents (e.g. management plans, etc.). Additional rows may be added as required and/or further information may be included as an attachment (see Section 9.3).

Table 9.1: Emissions and discharges

	Source of emission or discharge	Emission or discharge type	Volume and frequency	Proposed controls (include in Attachment 6A if extensive or complex)	Location (on site layout plan – see 3.4)
1.	TSF 3 stormwater and process water	Surface water emissions	N/A (as a result of an uncontrollable event)	Existing license L8308 emission point	As shown in L8308/2008/3 Schedule 1, Figure 1 – 'EC1' 'EC2' 'EC3' 'EC4' 'DC2'
2.	TSF 3 decant and seepage water	Surface water emissions	<2GL/a	Existing license L8308 emission point	As shown in L8308/2008/3 Schedule 1, Figure 1 – 'DC2'.
3.	Fugitive dust	Air emission	-	Operational Environmental Management Plan	-
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

9.2 Waste-related activities at the premises²

Answer "yes" or "no" for the following questions and complete Table 9.2 (below).

		No	Yes
(a)	Is waste accepted at the premises?	☒	☐
(b)	Is waste produced on the premises?	☐	☒
(c)	Is waste processed on the premises?	☒	☐
(d)	Is waste stored on the premises?	☐	☒
(e)	Is waste buried on the premises?	☐	☒
(f)	Is waste recycled on the premises?	☒	☐
(g)	Is any of the waste listed in Table 9.2 (below) also considered a 'dangerous good' for the purposes of the Dangerous Goods Safety (Storage and Handling of Non-Explosives) Regulations 2007? ³	☒	☐
	Specify, if yes:		

Part 9: Emissions, discharges, and waste

² Copies / details of any other relevant approvals (e.g. from the Department of Health) must be provided where applicable.

³ Wastes derived from the storage, handling, and use of dangerous goods may be considered hazardous and may need to be handled with the same precautions. Please refer to the Department of Mines, Industry Regulation and Safety's [Dangerous Goods Safety information sheet](#) for more information.

Solid waste types must be described with reference to *Landfill Waste Classification and Waste Definitions 1996* (as amended from time to time) and the Environmental Protection (Controlled Waste) Regulations 2004 (Controlled Waste Regulations).

Liquid waste types must be described with reference to the Controlled Waste Regulations.

For further guidance on the definition of waste, refer to [Fact Sheet: Assessing whether material is waste](#).

Detail must be provided on storage type (for example, hardstand and containment infrastructure), capacity, likely storage volumes, and containment features (for example, lining and bunding).

Additional rows may be added as required and/or further information may be included as an attachment (see Section 9.4).

Table 9.2 Waste types

	Waste type	Quantity (e.g. tonnes, litres, cubic metres)	Waste activity infrastructure (including specifications)	Monitoring (if applicable)	Location (on site layout plan – see 3.4)
1.	No changes to licenced waste types, quantities and activities are proposed				
2.					
3.					
4.					
5.					

Attachments**N/A****Yes**

9.3	Attachment 6A: Emissions and discharges (if required)	If required, further information for Section 9.1 has been included as an attachment labelled Attachment 6A.	☒	☐
9.4	Attachment 6B: Waste acceptance (if required)	If required, further information for Section 9.2 has been included as an attachment labelled Attachment 6B.	☒	☐

Part 10: Siting and location**10.1 Sensitive land uses**

What is/are the distance(s) to the nearest sensitive land use(s)?
A sensitive land use is a residence or other land use which may be affected by an emission or discharge associated with the proposed activities.

Mardie homestead is located approximately 20km south-west of the Premise.
Pastoral Management Pty Ltd (a related entity to CITIC Pacific Mining Management Pty) is the lessee of the Mardie Pastoral Lease.

10.2 Nearby environmentally sensitive receptors and aspects

Identify in Table 10.2 (below):

- all instances of environmentally sensitive receptors that are known or suspected to be present within, or within close proximity to, the proposed prescribed premises boundary;
- the nature of the sensitive receptors (e.g. type of Threatened Ecological Community, species or threatened flora or fauna, etc.);
- their actual or approximate known distance and direction from the premises boundary (at the closest point/s); and
- if applicable, what measures have been or will be taken to ensure that sensitive receptors are not adversely impacted by any emissions or discharges from the premises.

Refer to the [Guideline: Environmental siting](#) for further guidance.

Table 10.2: Nearby environmentally sensitive receptors and aspects

Part 10: Siting and location

Type / classification	Description	Distance + direction to premises boundary	Proposed controls to prevent or mitigate adverse impacts (if applicable)
Environmentally Sensitive Areas ¹	N/A		
Threatened Ecological Communities	No Threatened Ecological Communities occur within the Development Envelope (MS1066)		
Threatened and/or priority fauna	No species listed as Endangered or Vulnerable under either the WC Act or EPBC Act will be affected by the Proposal (MS1066)		
Threatened and/or priority flora	No Threatened Flora species are known within the Development Envelope (MS1066)		
Aboriginal and other heritage sites ²	Registered sites present in TSF 3 footprint A Section 18 (ACHA 1972) submission of all sites within the TSF Stage 3 survey area is pending. CPM will be seeking Ministerial Consent to impact all sites.	All sites for submission are within the TSF Stage 3 development area (G08/53). Several sites fall within M08/265 and have Ministerial Consent to impact.	All sites submitted require 100% impact. Management through salvage of the sites to be determined through consultation with the Mardudhunera Traditional Owners through Wirrawandi AC. All sites are to be managed under a co-designed CHMP.
Public drinking water source areas ³	N/A		
Rivers, lakes, oceans, and other bodies of surface water, etc.	Minor drainage lines within footprint will be diverted (TSF 3- stage 2). Discharges to licensed emission points at DC2 and EC1-4. See supporting document.		
Acid sulfate soils	Not present		
Other	N/A		

¹ Environmentally Sensitive Areas are as declared under the *Environmental Protection (Environmentally Sensitive) Notice 2005*. Refer to DWER's website ("[Environmentally Sensitive Areas](#)") for further information.

² Refer to the [Department of Planning, Lands and Heritage website](#) for further information about Aboriginal heritage and other heritage sites.

³ Refer to [Water Quality Protection Note No.25: Land use compatibility tables for public drinking water source areas](#) for further information.

10.3 Environmental siting context details

Provide further information including details on topography, climate, geology, soil type, hydrology, and hydrogeology at the premises.

See Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3). Vegetation clearing approved MS1066. No change to premise boundary, emission types or discharge locations.

Aboriginal Heritage Act 1972 approvals to impact or remove sites ongoing in consultation with TO group.

Part 10: Siting and location				
Attachments			N/A	Yes
10.4	Attachment 7: Siting and location	You must provide details and a map describing the siting and location of the premises, including identification of distances to sensitive land uses and/or any specified ecosystems.	☒	☐

Part 11: Submission of any other relevant information				
Attachments			No	Yes
11.1	Attachment 8: Additional information submitted	Applicants seeking to submit further information may include information labelled Attachment 8. If submitting multiple additional attachments, label them 8A, 8B, etc. Where additional documentation is submitted, please specify the name of documents below.	☒	☐
List title of additional document(s) attached:				

Part 12: Category checklist(s)				
Attachments			N/A	Yes
12.1	Attachment 9: Category checklist(s)	DWER has developed category checklists to assist applicants with preparing their application. These checklists are available on DWER's website . The relevant category-specific checklist(s) must be completed and included with the application, labelled as Attachment 9. If attaching multiple category checklists, label them 9A, 9B, etc. Do not select "N/A" unless: - a relevant category checklist is not yet published on DWER's website, or - the application is for an amendment that does not propose changes to the method of operation, or change the inputs, outputs, infrastructure, equipment, emissions, or discharges of / from the premises. Note that that a category checklist(s) may still be required for renewal applications. You will be advised in your renewal notification letter (sent approximately twelve months before the licence expiry date) if you are required to provide the information identified in a category checklist. Where a category checklist is submitted, please specify which checklist(s) in the space below.	☐	☒
List title(s) of category checklists attached:			Attachment 9 TSF3 category checklist (tailings storage facilities)	

Part 13: Proposed fee calculation**INSTRUCTIONS:**

Different fee units apply for different fee components. Fee units may also have different amounts depending on the period in which the calculation is made.

Once DWER has confirmed that the application submitted meets the relevant requirements of the EP Act, you will be issued an invoice with instructions for paying your application fee.

Further information on fees can be found in the [Fact Sheet: Industry Regulation fees](#), and on [DWER's website](#).

13.1	Only the relevant fee calculations are to be completed as follows: <i>[mark the box to indicate section s completed]</i>	☒ Section 13.3 for works approval applications ☐ Section 13.4 for licence / renewal applications ☐ Section 13.5 for registration applications ☐ Section 13.6 for amendment applications ☐ Section 13.7 for applications requiring clearing of native vegetation
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13.2	All information and data used for the calculation of proposed fees has been provided in accordance with Section 13.8.	☐
------	---	--------------------------

13.3 Proposed works approval fee

Proposed works approval fee (see Schedule 3 of the EP Regulations)

Fees relate to the cost of the works, including all capital costs (inclusive of GST) associated with the construction and establishment of the works proposed under the works approval application. This includes, for example, costs associated with earth works, hard stands, drainage, plant hire, equipment, processing plant, relocation of equipment and labour hire.

Costs exclude:

- the cost of land
- the cost of buildings to be used for purposes unrelated to the purposes in respect of which the premises are, or will become, prescribed premises
- costs for buildings unrelated to the prescribed premises activity or activities
- consultancy fees relating to the works.

Fee component	Proposed fee
---------------	--------------

13.4 Proposed licence fee (new licences and licence renewals)		
Detailed licence fee calculations		
Part 1 Premises component (see r.5D and Part 1 of Schedule 4 of the EP Regulations) The production or design capacity should be the maximum capacity of the premises. For most categories, the production or design capacity refers to an annual rate. The figure should be based on 24 hour operation for 365 days, unless there is another regulatory approval or technical reason that restricts operation. The premises component fee applies to the category in Part 1, Schedule 4 incurring the higher or highest amount of fee units in accordance with r.5D(2) of the EP Regulations. List all categories (insert additional rows as required). Use only the higher or highest amount of fee units to determine the Part 1 fee component.		
Category	Production or design capacity	Fee units
Using the higher or highest amount of fee units, Part 1 component subtotal		\$
Part 2 Waste (see r.5D(1a)(b) and Part 2 of Schedule 4 of the EP Regulations) If your premises includes one or more of the following categories specify any applicable Part 2 waste amounts. Do not include Part 3 waste components of these discharges in the below calculations. Categories: 5, 6, 7, 8, 9, 12, 14, 44, 46, 53, 54A, 70, 80, or 85B Part 2 waste means waste consisting of – (a) tailings; or (b) bitterns; or (c) water to allow mining of ore; or (d) flyash; or (e) waste water from a desalination plant. If the premises does not fall into one of the categories listed above, or there are no applicable Part 2 waste amounts, the sub total for this section will be \$0. Insert additional rows as required. Sum all Part 2 waste fees to determine the sub total.		
Discharge quantity (tonnes/year)	Fee units	
Part 2 component subtotal		\$
Part 3 Waste – Discharges to air, onto land, into waters (see Part 3 of Schedule 4 of the EP Regulations) Choose the appropriate location of the discharge and enter the discharge amount(s) in the units specified in the EP Regulations. This should be the amount of waste expected to be discharged over the next 12 months, expressed in the units and averaging period applicable for that waste kind (for example, g/minute or kg/day). Amounts can be measured, calculated, or estimated and can be based on data acquired over the previous 12 months, but should be based on the maximum premises capacity and not the forecast operating hours. Where there are discharges, all prescribed waste types must be considered in the fee calculation. If a specified waste type is not present in the discharge, this must be justified using an appropriate emission estimation technique (for example, sampling data, industry sector guidance notes, National Pollution Inventory guides and emission factors).		

Discharges to air			
Discharges to air	Discharge rate (g/min)	Discharges to air	Discharge rate (g/min)
Carbon monoxide		Nickel	
Oxides of nitrogen		Vanadium	
Sulphur oxides		Zinc	
Particulates (Total PM)		Vinyl chloride	
Volatile organic compounds		Hydrogen sulphide	
Inorganic fluoride		Benzene	
Pesticides		Carbon oxysulphide	
Aluminium		Carbon disulphide	
Arsenic		Acrylates	
Chromium		Beryllium	
Cobalt		Cadmium	
Copper		Mercury	
Lead		TDI (toluene-2, 4-di-iso-cyanate)	
Manganese		MDI (diphenyl-methane di-iso-cyanate)	
Molybdenum		Other waste	
Part 3 component subtotal		\$	
Discharges onto land or into waters			Discharge rate
1. Liquid waste that can potentially deprive receiving waters of oxygen (for each kilogram discharged per day) —	(a) biochemical oxygen demand (in the absence of chemical oxygen demand limit)		
	(b) chemical oxygen demand (in the absence of total organic carbon limit)		
	(c) total organic carbon		
2. Bio-stimulants (for each kilogram discharged per day) —	(a) phosphorus		
	(b) total nitrogen		
3. Liquid waste that physically alters the characteristics of naturally occurring waters —	(a) total suspended solids (for each kilogram discharged per day)		
	(b) surfactants (for each kilogram discharged per day)		
	(c) colour alteration (for each platinum cobalt unit of colour above the ambient colour of the waters in each megalitre discharged per day)		
	(d) temperature alteration (for each 1°C above the ambient temperature of the waters in each megalitre discharged per day) — (i) in the sea south of the Tropic of Capricorn (ii) in other waters		

4. Waste that can potentially accumulate in the environment or living tissue (for each kilogram discharged per day) —	(a) aluminium	
	(b) arsenic	
	(c) cadmium	
	(d) chromium	
	(e) cobalt	
	(f) copper	
	(g) lead	
	(h) mercury	
	(i) molybdenum	
	(j) nickel	
	(k) vanadium	
	(l) zinc	
	(m) pesticides	
	(n) fish tainting wastes	
	(o) manganese	
5. <i>E. coli</i> bacteria as indicator species (in each megalitre discharged per day) —	(a) 1,000 to 5,000 organisms per 100 ml	
	(b) 5,000 to 20,000 organisms per 100 ml	
	(c) more than 20,000 organisms per 100 ml	
6. Other waste (per kilogram discharged per day) —	(a) oil and grease	
	(b) total dissolved solids	
	(c) fluoride	
	(d) iron	
	(e) total residual chlorine	
	(f) other	
Part 3 component subtotal		\$
Summary – Proposed licence fee		
Part 1 Component		
Part 2 Component		
Part 3 Component		
Total proposed licence fees:		\$
13.5 Prescribed fee for registration		
A fee of 24 units applies for an application for registration of premises, unless the occupier of the premises holds a licence in respect of the premises, in accordance with r.5B(2)(c) of the EP Regulations.		☐ (Tick to acknowledge)

13.6 Amendment fee (works approval or licence)	
The fee prescribed for an application for an amendment to a works approval or licence is calculated in accordance with r.5BB(1)(a) of the EP Regulations: - for a single category of prescribed premises to which the works approval or licence relates, by using the fee unit number corresponding to the prescribed premises category and relevant design capacity threshold in Schedule 4 Part 1 of the EP Regulations. - for multiple categories of prescribed premises to which the works approval or licence relates, by using the highest fee unit number corresponding to the prescribed premises categories and design capacity threshold in Schedule 4 Part 1 of the EP Regulations.	
Fee Units	Proposed fee
	\$
13.7 Prescribed fee for clearing permit	
In accordance with the Guideline: Industry Regulation Guide to Licensing and Procedure: Native vegetation clearing permits, where approval to clear native vegetation is sought as part of an application for a works approval or licence, DWER may elect to either jointly or separately determine the clearing component of the application. Where DWER separately determines the clearing component of an application, the application will be deemed to be an application for a clearing permit under s.51E of the EP Act and processed accordingly. Note: If a clearing permit application has been separately submitted and accepted by DWER, a refund for the clearing permit application will not be provided where DWER determines to address clearing requirements as part of a related works approval application.	☐ (Tick to acknowledge)
13.8 Information and data used to calculate proposed fees	
The detailed calculations of fee components, including all information and data used for the calculations are to be provided as attachments to this application, labelled as Attachment 10, with an appropriate suffix (for example 10A, 10B etc.). Please specify the relevant attachment number in the space/s provided below.	
Proposed fee for works approval	Attachment No.
Details for cost of works	10
Proposed fee for licence	Attachment No.
Part 1: Premises	
Part 2: Waste types	
Part 3: Discharges to air, onto land, into waters	

Part 14: Commercially sensitive or confidential information		
NOTE: Information submitted as part of this application will be made publicly available. If you wish to submit commercially sensitive or confidential information, please identify the information in Attachment 11, and include a written statement of reasons why you request each item of information be kept confidential. Information submitted later in the application process may also be made publicly available at DWER's discretion. For any commercially sensitive or confidential information, please follow the same process as described above. DWER will take reasonable steps to protect genuinely confidential or commercially sensitive information. However, please note that DWER cannot commit to redacting all personal information from all supporting documents. You are advised to ensure that all personal information, including signatures, are removed from supporting documents prior to submitting them to the department. Please note that all submitted information may be the subject of an application for release under the <i>Freedom of Information Act 1992</i>.		
All information which you would propose to be exempt from public disclosure has been separately placed in a redacted version of the application form and its supporting documentation. Note that this is in addition to the unredacted version(s) provided to DWER for its assessment. Grounds for claiming exemption in accordance with Schedule 1 to the <i>Freedom of Information Act 1992</i> must be specified in Attachment 11 (located at the end of this form).	Attached ☒	N/A ☐

Part 15: Submission of application**INSTRUCTIONS:**

Check one of the boxes below to nominate how you will submit your application.

Files larger than 50MB cannot be received via email by DWER. Files larger than 50MB can be sent via File Transfer. Alternatively, email DWER to make other arrangements.

A full, signed, electronic copy of the application form including all attachments has been submitted via email to info@dwer.wa.gov.au:

☐

OR

A signed, electronic copy of the application form has been submitted via email to info@dwer.wa.gov.au and attachments have been submitted via File Transfer, or electronically by other means as arranged with DWER;

☐

OR

A full, signed hard copy has been sent to:

APPLICATION SUBMISSIONS
Department of Water and Environmental Regulation
Locked Bag 10
Joondalup DC WA 6919

☐

Part 16: Declaration and signature**General**

I / We confirm and acknowledge that:

- the information contained in this application is true and correct;
- I / we have legal authority to sign on behalf of the applicant (where authorisation provided);
- I / we have not altered the requirements and instructions set out in this application form;
- I / we have provided a valid email address in Section 2.3 for receipt of correspondence electronically via email from DWER in relation to this application;
- that successful delivery to my / our server constitutes receipt of correspondence sent electronically via email from DWER in relation to this application; and
- I / we have provided a valid postal and/or business address in Section 2.4 for the service of all Part V documents.
- giving or causing to be given information that to my knowledge is false or misleading is an offence under s.112 of the EP Act and may incur a penalty of up to \$100,000.

Publication

I / We confirm and acknowledge:

- this application (including all attachments apart from the sections identified in Attachment 11) is a public document and may be published;
- marine surveys provided in accordance with Part 5 will be published and used, for the purposes of the IMSA project, in accordance with your declaration made in the *Metadata and Licensing Statement*;
- all necessary consents for the publication of information have been obtained from third parties;
- information considered exempt from public disclosure has been noted by redaction of a separately provided copy of the completed application form and its supporting documentation (in accordance with Part 14), with reasons as to why the information should be exempt in accordance with the grounds specified in Schedule 1 to the *Freedom of Information Act 1992 (WA)* being provided in Attachment 11;
- subsequent information provided in relation to this application will be a public document and may be published unless written notice has been given to DWER by the applicant, at the time the information is provided, claiming that the information is considered exempt from public disclosure; and
- the decision to not publish information will be at the discretion of the CEO of DWER and will be made consistently with the provisions of the *Freedom of Information Act 1992 (WA)*.

Signature

Date

25/9/2025

Position

Signature

Date

25/9/2025

Position

NOTE: This form may be signed:

- If the applicant is an individual, by the individual;
- if the applicant is a corporation, by:
 - the common seal being affixed in accordance with the *Corporations Act 2001 (Cth)*; or
 - two directors; or
 - a director and a company secretary; or
 - if a proprietary company has a sole director who is also the sole company secretary, by that director; and
- by a person with legal authority to sign on behalf of the applicant.

ATTACHMENT 11 – Confidential or commercially sensitive information

Request for exemption from publication			
Information which you consider should not be published, on the grounds of a relevant exemption found in Schedule 1 to the <i>Freedom of Information Act 1992</i> (WA), must be specified in this Attachment. Add additional rows as required.			
NOT FOR PUBLICATION IF GROUNDS FOR EXEMPTION ARE DETERMINED TO BE ACCEPTABLE			
Section of this form:	2.3	Grounds for claiming exemption:	personal information • Name, position, telephone and email details
Section of this form:	2.6	Grounds for claiming exemption:	personal information • Name, position, telephone and email details
Section of this form:	16	Grounds for claiming exemption:	personal information • Signature(s) and name(s)
Full Name Signature <u>26/9/25</u> Date			

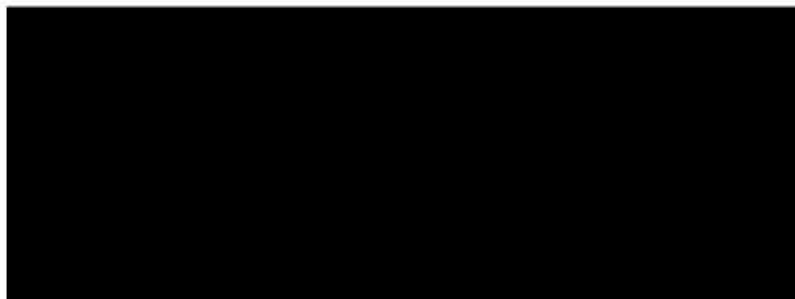
Sino Iron Pty Ltd

A.B.N. 31 058 429 708



Sino_L_2016_0102

18 August 2016



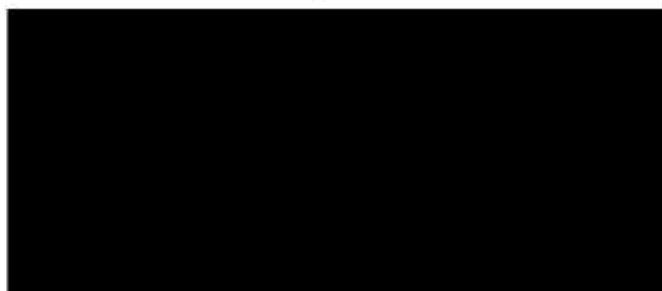
**Proposal – Iron Ore Mine, Downstream Processing (Direct-Reduced & Hot-Briquetted Iron) and Port Construction, Cape Preston
Statement Number 635 as amended by 822**

Thank you for your query as to the relationship of Sino Iron Pty Ltd and Korean Steel Pty Ltd, the proponents of Statement 635, with CITIC Pacific Mining Management Pty Ltd (CPM).

Sino Iron confirms that CPM is responsible for carrying out and managing all activities relating to the Sino Iron Project pursuant to the terms of a Project Management Agreement dated 22 February 2007.

Accordingly, the section 45C application submitted to the Office of the Environmental Protection Authority (OEPA) under the *Environmental Protection Act 1986* by CPM's consultant, Stragen Environmental Consultants Pty Ltd (ref: SIR15260.01 dated 12 August 2016), was submitted on behalf of Sino Iron and Korean Steel.

Please also treat this letter as confirmation of the authority of CPM to act on behalf of Sino Iron in respect of all future submissions, applications and dealings with the OEPA relating to the Sino Iron Project.



45 St Georges Terrace, Perth WA 6000, Australia

GPO Box 2732, Perth WA 6001, Australia



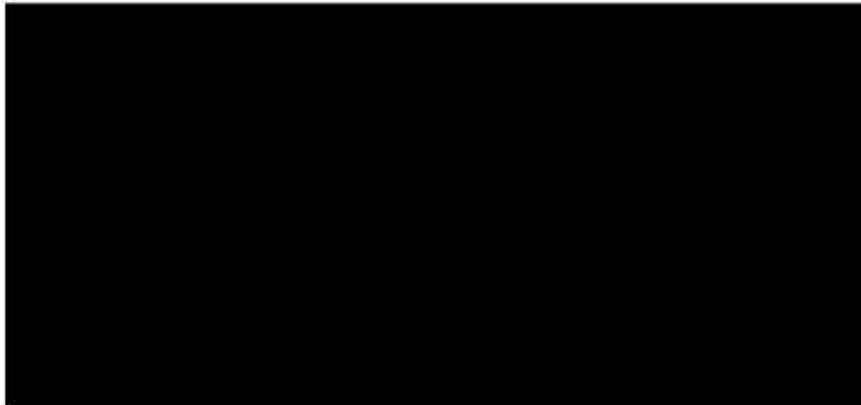
Korean Steel Pty Ltd

A.C.N. 058 429 6000



Korean_L_2016_0101

18 August 2016



**Proposal – Iron Ore Mine, Downstream Processing (Direct-Reduced & Hot-Briquetted Iron) and Port Construction, Cape Preston
Statement Number 635 as amended by 822**

Thank you for your query as to the relationship of Sino Iron Pty Ltd and Korean Steel Pty Ltd, the proponents of Statement 635, with CITIC Pacific Mining Management Pty Ltd (CPM).

Korean Steel confirms that CPM is responsible for carrying out and managing all activities relating to the Sino Iron Project pursuant to the terms of a Project Management Agreement dated 4 May 2010.

Accordingly, the section 45C application submitted to the Office of the Environmental Protection Authority (OEPA) under the *Environmental Protection Act 1986* by CPM's consultant, Strategen Environmental Consultants Pty Ltd (ref: SIR15260.01 dated 12 August 2016), was submitted on behalf of Sino Iron and Korean Steel.

Please also treat this letter as confirmation of the authority of CPM to act on behalf of Korean Steel in respect of all future submissions, applications and dealings with OEPA relating to the Sino Iron Project.

Yours sincerely



45 St Georges Terrace, Perth WA 6000, Australia

GPO Box 2732, Perth WA 6001, Australia

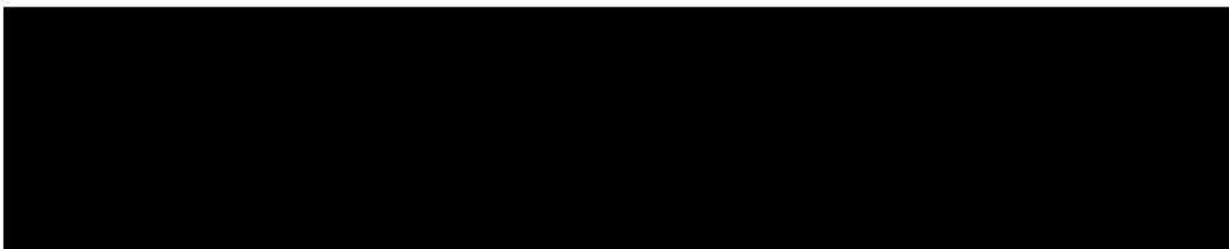




Licence number	L8308/2008/3
Licence holder	CITIC Pacific Mining Management Pty Ltd
ACN	119 578 371
Registered business address	45 St Georges Terrace Perth WA 6000
DWER file number	DER2014/000430-2~13
Duration	1/06/2024 to 31/05/2044
Premises details	Sino Iron Project Mine Site Mining Tenements M08/123, M08/124, M08/125, M08/264, M08/265, M08/266, G08/54 and L08/126 MARDIE WA 6714

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore	- Primary Crushers (1, 2, 3 and 4) 95,000,000 tonnes per annual period - Concentrators (Mill Lines 1, 2, 3, 4, 5 and 6) 95,000,000 tonnes per annual period (producing 27,600,000 tonnes per annual period) - Tailings Storage Facility (Stage 2) 67,400,000 tonnes per annual period
Category 6: Mine dewatering discharge	12,000,000 tonnes per annual period (12 gegalitres per annual period)
Category 12: Screening, etc. of material	2,700,000 tonnes per annual period
Category 52: Electric power generation	480 megawatts
Category 54: Sewage facility	160 cubic metres per day
Category 57: Used tyre storage (general)	No more than 500 tyres
Category 64: Class II putrescible landfill site	Landfill Facilities and Waste Rock Landforms 25,000 tonnes per annual period (excluding Clean Fill and Uncontaminated Fill used for cover material)

This licence is granted to the licence holder, subject to the attached conditions, on 30 May 2024, by:



Licence history

Licence	Date	Summary of changes
L8308/2008/1	30/05/2008	Licence granted
L8308/2008/2	30/05/2014	Licence renewed
L8308/2008/3	30/5/2024	Licence renewal granted with 20 year licence duration.

Interpretation

In this licence:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

Infrastructure and equipment

- The licence holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirements set out in Table 1.

Table 1: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirements	Infrastructure location
TSF Stage Two	987 ha facility to a maximum height of: - Western embankment 66 mRL; and - Eastern embankment 70 mRL. - Includes low permeability zones comprising highly weathered waste rock material along the upstream zone of the northern and the south-western embankments. - Northern and western flanks include a liner system comprising of 2 mm thick textured Linear Low Density Polyethylene geomembrane underlain by a Geosynthetic Clay Liner installed on a compacted clayey material up to 39 mRL. - Northern and western flanks include a liner system comprising of Elastomeric Bituminous Geomembrane Liner above 39 mRL up to 66 mRL. - Tailings to be deposited from multiple discharge locations around the southern and eastern embankment perimeters. - Maintain an operational freeboard of 0.5 m. - Maintain existing finger drains, seepage trenches / drains and pumps.	As shown on the Premises map in Schedule 1: Maps.
Process Water Dam	Lined process water dam, which stores process water, return water from the TSF and treated wastewater from the Biomax WWTP and the MBBR WWTP prior to reuse (i.e. within the hoppers and mills).	
Camp 123 Turkey's nest	- Contain mine dewatering water. - Lined with HDPE liner to meet a permeability of $<10^{-9}$ m/s. - Maintain an operational freeboard of 0.5 m.	
Dewatering Staging Facility	- Contain mine dewatering water. - Lined with HDPE liner to meet a permeability of $<10^{-9}$ m/s. - Maintain an operational freeboard of 0.5 m.	

- 2 The licence holder must ensure that the waste types specified in Table 2 are only subjected to the corresponding processes, subject to the corresponding process limits and/or specifications.

Table 2: Waste processing

Waste type	Processes	Process limits and/or specifications ^{1,2}
Sewage	Biological, physical, and chemical treatment	• Biomax WWTP – 60 m³/day. • MBBR WWTP – 100 m³/day. • With disposal of treated effluent to the Process Water Dam prior to reuse of the wastewater within the Processing Plant.
All waste types (excluding Clean Fill and Uncontaminated Fill used for cover material)	Receipt, handling, and disposal of waste by landfilling or TSF disposal	No more than 25,000 tonnes per annual period of all waste types cumulatively shall be disposed of to the Landfill Facility, Waste Rock Landforms and to the TSF Stage Two shown on the Premises map in Schedule 1: Maps .
Inert Waste Type 1	Receipt, handling, and disposal of waste by landfilling	• The active landfill area is managed such that at no time does landfilling result in an exposed face exceeding 2 metre (m) in vertical height. • The separation distance between the base of the landfill and the highest groundwater level must not be less than 3 m. • Maintain a minimum distance of at least 100 m between the previously filled areas of the landfill and the active tipping area and any surface water body. • A fence or other physical barrier must be maintained around the active landfill area which is an effective barrier to cattle, horses, and stock. • Undertake fortnightly inspections of the landfill fence or other physical barrier and ensure any damage to the fence is repaired within one working day of its discovery. • Ensure that wind-blown waste is contained within the boundary of the landfill and that wind-blown waste is returned to the tipping area on at least a monthly basis. • Ensure that no waste is burnt on the Premises. • Ensure that any unauthorised fire at the landfill is promptly extinguished. <u>Non-green waste</u> • Tipping area is restricted to a maximum linear length of 30 m.
Inert Waste Type 2		
Special Waste Type 1 (cement bonded asbestos. No fibrous asbestos shall be accepted)		
Special Waste Type 2 (waste consisting of certain types of biomedical waste which are regarded as hazardous but which, with the use of specific management techniques may be disposed of safely)		
Clean Fill		
Uncontaminated Fill		
Contaminated Solid Waste (must meet the acceptance criteria for Class II landfills)		

Putrescible Waste		<u>Special Waste Type 1</u> - Only to be disposed of into a designated asbestos disposal area within the landfill. - Not to be deposited within 2 m of the final tipping surface of the landfill. - No works shall be carried out on the landfill that could lead to a release of asbestos fibers.
Other wastes (must comply with Class II criteria in the Landfill Definitions)		
Inert Waste Type 1 and Inert Waste Type 2 (process consumables generated from within the TSF or Port Operations project areas) above. Disposal of waste must only take place within TSF Stage Two shown on the Premises map in Schedule 1 in column 3.		<u>Special Waste Type 1 and Special Waste Type 2</u> - Material containing asbestos or clinical waste is disposed of at the landfill under the personal supervision of the licence holder or the personal supervision of a person nominated by the licence holder. - Disposal of waste must only take place within TSF Stage Two shown on the Premises map in Schedule 1. - No waste disposal should occur within the vicinity of the decant tower, northern and western lined embankments, or within the normal operating extent of the supernatant pond. - Any pipes disposed of should be done so in a way to ensure they are filled with tailings. - Details should be recorded of the location, surface elevation (RL), type and quantity of materials disposed of.
Inert Waste Type 2 (tyres only)	Receipt, handling, and disposal of waste by landfilling	- Tyres must only be landfilled within the Landfill Facility, Waste Rock Landforms and TSF Stage Two shown on the Premises map in Schedule 1: Maps. - Tyres must consist of batches of less than 100 whole tyres. - Batches must be separated from each other by at least 100 millimetre (mm) of soil. - The location of where tyres are buried will be surveyed and the latitude and longitude recorded.
Inert Waste Type 2 (Used tyres)	Storage	- Tyres must only be stored within the Used Tyre Laydown area shown on the Premises map in Schedule 1: Maps. - Must only store a maximum of 500 tyres at any time.

Note 1: Requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations 1987*.

Note 2: Additional requirements for the acceptance and landfilling of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

- 3** The licence holder must ensure that cover is applied and maintained on landfilled waste types, with the exception of the TSF, in accordance with the corresponding cover requirements in Table 3 and that sufficient stockpiles or cover are maintained on the premises at all times.

Table 3: Cover requirements

Waste Type ¹	Material	Depth	Timescales
Inert Waste Type 1	No cover required.		
Inert Waste Type 2	Inert Waste Type 1 or soil	100mm	By the end of the working day in which the waste was deposited. Plastic waste with the potential to become windblown must be covered as soon as practicable after deposit. Tyre disposal: Within two (2) weeks of discontinuing each batch disposal location
		500 mm	As soon as practicable following the achievement of final waste levels in the area(s) where tyres and/or process consumables are disposed
Special Waste Type 1		300 mm	As soon as practicable after deposit and prior to compaction.
		300 mm	By the end of the working day in which the asbestos waste was deposited.
Special Waste Type 2		300 mm	As soon as practicable after deposit and prior to compaction.
Putrescible Waste		300 mm	Fortnightly.

Note 1: Additional requirements for the covering of tyres are set out in Part 6 of the *Environmental Protection Regulations 1987*.

- 4 The licence holder must manage the landfilling activities, with the exception of the TSF, to ensure:
 - (a) waste is levelled and compacted as soon as practicable after it is discharged and at a minimum of the end of the day;
 - (b) waste is placed and compacted to ensure all faces are stable and capable of retaining rehabilitation material; and
 - (c) rehabilitation of a cell or phase takes place within 6 months after disposal in that cell or phase has been completed.
- 5 The licence holder must manage the landfilling activities, with the exception of the TSF, to ensure:
 - (a) a supply of water, cover material and means of distribution of the water and cover material are available at all times to extinguish any fire on the premises;
 - (b) there is a stockpile of sufficient cover material to allow waste to be covered in accordance with condition 4 of this licence and to cover waste in the event of a fire;
 - (c) waste is totally covered, so that no waste is left exposed;
 - (d) except where trenches are used, waste is initially spread in layers not more than 500 mm thickness prior to being compacted with a minimum of 5 passes with the dedicated machine; and
 - (e) waste is covered with a final soil cover of at least 1 m.
- 6 The licence holder must ensure that standard vehicle refueling activities occur only on designated refueling areas at the premises.

- 7 The licence holder must ensure that sumps and bunds on the premises are maintained at all times and emptied prior to heavy rain or cyclonic weather.
- 8 The licence holder must prevent dust generation from the surface of the TSF.
- 9 The licence holder must:
 - (a) undertake inspections as detailed in Table 4;
 - (b) where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental consequences as soon as practicable; and
 - (c) maintain a record of all inspections undertaken.

Table 4: Inspection of infrastructure

Scope of inspection	Type of inspection	Frequency of inspection
Permanent tailings pipeline	Visual integrity	Daily while operational
Bypass tailings pipeline		
Decant return water pipeline		
Mine dewatering water pipeline		
Seepage water discharge pipeline		

- 10 The licence holder must ensure that all pipelines containing tailings or tailings thickener overflow return water are operated with:
 - (a) telemetry and process alarm; and
 - (b) adequate diversion containment.
- 11 The licence holder must undertake an annual water balance for the TSF. The water balance must as a minimum consider the following:
 - (a) site rainfall;
 - (b) evaporation;
 - (c) combined decant water and seepage water recovery volumes; and
 - (d) volumes of tailings deposited.
- 12 The licence holder must construct the controlled surface water discharge points in accordance with the corresponding design and construction requirements as set out in Table 5. The licence holder must not depart from the design and construction requirements specified in Table 5 except:
 - (a) where such departure is minor in nature and does not materially change or affect the infrastructure; or
 - (b) where such departure improves the functionality of the infrastructure and does not increase risks to public health, public amenity or the environment;
 - (c) and all other conditions in this licence are still satisfied.

Table 5: Infrastructure requirements

Infrastructure	Design and construction requirements ¹
EC1	- Discharge pipe to Edwards Creek located approximately 300 m north of the enviro dam to an existing rock armoured culvert that traverses the north-south infrastructure corridor. - Layer of riprap installed at discharge point to protect the receiving water bank from erosion.
EC2	- Discharge pipe to Edwards Creek to a rock armoured culvert that traverses the public Fortescue River Mouth access road. - Layer of riprap installed at discharge point to protect the receiving water bank from erosion.
TSF2 Raise 4 as shown in Schedule 1: Maps, Figures 2 and 3	- Maximum embankment height of: - Western embankment 66 mRL; and - Eastern embankment 70 mRL. - Northern and western flanks must include a liner system comprising of Elastomeric Bituminous Geomembrane Liner above 39 mRL up to 66 mRL. - Installation of a buttress along sections of the southern and western embankment. - Extension of existing series of finger drains. - Relocation of the seepage pond to the outer buttress toe-line.

Note 1: Where the details and commitments of the documents listed in condition 13 are inconsistent with any other condition of this licence, the conditions of this licence shall prevail.

- 13** The licence holder must operate the TSF2 Raise 4 and controlled surface water discharge points in accordance with the conditions of this licence, following submission of the compliance document required under condition 28.

Emissions and discharges

Authorised discharge points for emissions

- 14** The licence holder must ensure that the emissions specified in Table 6, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 6: Authorised discharge points – air emissions

Emission	Discharge point	Discharge point height (m)	Discharge point location
- Carbon monoxide - Particulates - Volatile Organic Carbons - Oxides of nitrogen - Sulphur oxides	GT1 – Bypass Stack	29.85 m	As shown on the Premises map in Schedule 1 - 'GT1-B'.
	GT1 – Main Stack	30.0 m	As shown on the Premises map in Schedule 1 - 'GT1'.
	GT2 – Bypass Stack	29.85 m	As shown on the Premises map in Schedule 1 - 'GT2-B'.
	GT2 – Main Stack	30.0 m	As shown on the Premises map in Schedule 1 - 'GT2'.
	GT3 – Bypass Stack	29.85 m	As shown on the Premises map in Schedule 1 - 'GT3-B'.
	GT3 – Main Stack	30.0 m	As shown on the Premises map in Schedule 1 - 'GT3'.
	GT4 – Bypass Stack	29.85 m	As shown on the Premises map in Schedule 1 - 'GT4-B'.
	GT4 – Main Stack	30.0 m	As shown on the Premises map in Schedule 1 - 'GT4'.
	GT5 – Bypass Stack	29.85 m	As shown on the Premises map in Schedule 1 - 'GT5-B'.
	GT5 – Main Stack	30.0 m	As shown on the Premises map in Schedule 1 - 'GT5'.
	GT6 – Bypass Stack	29.85 m	As shown on the Premises map in Schedule 1 - 'GT6-B'.
	GT6 – Main Stack	30.0 m	As shown on the Premises map in Schedule 1 - 'GT6'.
	GT7 – Main Stack	29.85 m	As shown on the Premises map in Schedule 1 - 'GT7'.

- 15 The licence holder must ensure that the emissions specified in Table 7, are discharged only from the corresponding discharge point and are subject to the corresponding operational requirements.

Table 7: Authorised discharge points – surface water emissions

Emission	Discharge point	Operational requirements	Discharge point location
Mine dewatering water	Discharge pipe to Fortescue River Mouth	- Discharged through a diffuser. - The diffuser must be submerged beneath the water. - The diffuser must be offset approximately 25 m from the low water mark. - Pipelines to be fitted with leak detection and flow meters'; - The discharge must be tidally aligned according to daily tidal analyses from measurements locations under the following conditions: (a) discharge must only commence 60 minutes prior to the turning of the tide from incoming to outgoing; and (b) discharge must cease 30 minutes prior to the turning of the tide from outgoing to incoming.	As shown on the Premises map in Schedule 1: Maps- 'FR2'.
Stormwater and process water	Discharge pipe to Edwards Creek located approximately 300m north of the enviro dam	Discharged in a controlled manner as a result of an uncontrollable event: - Control the discharge rate so that erosion and scouring is minimised; - Use multiple discharge points to spread the flow; and - Maintain a layer of riprap to protect the receiving water bank from erosion.	As shown on the Premises map in Schedule 1: Maps- 'EC1'.
	Discharge pipe to Edwards Creek		As shown on the Premises map in Schedule 1: Maps- 'EC2'.
	Discharge pipe to a tributary of Edwards Creek		As shown on the Premises map in Schedule 1: Maps- 'EC3'.
	Discharge pipe to a remnant tributary of Edwards Creek		As shown on the Premises map in Schedule 1: Maps- 'EC4'.
	Discharge pipe to a tributary of DuBoulay Creek		As shown on the Premises map in Schedule 1:

Emission	Discharge point	Operational requirements	Discharge point location
	with a width of 100 metres		Maps-- 'DC2'.
TSF decant and seepage water	Discharge pipe to a tributary of DuBoulay Creek with a width of 100 metres	The pipeline is equipped with a flow meter.	As shown on the Premises map in Schedule 1: Maps – 'DC2'

Emission limits

- 16 The licence holder must ensure that emissions from the discharge point listed in Table 8 for the corresponding parameter do not exceed the corresponding limit when monitored in accordance with condition 19.

Table 8: Emission and discharge limits

Discharge point	Parameter	Limit (including units)
FR2	Cumulative volume	12 GL/a
	pH ¹	6-9 pH units
	Temperature ¹	<65 °C
	Total Dissolved Solids ¹	<70,000 mg/L
	Nitrate	<50 mg/L
	Cadmium	<0.1485 mg/L
	Chromium (VI)	<0.1188 mg/L
	Cobalt	<0.027 mg/L
	Copper	<0.0351 mg/L
	Lead	<0.1188 mg/L
	Mercury	<0.0108 mg/L
	Nickel	<1.89 mg/L
	Silver	<0.0378 mg/L
	Vanadium	<2.7 mg/L
	Zinc	<0.405 mg/L
	Total Recoverable Hydrocarbons	<15 mg/L
	pH ¹	6.5-9 pH units

Discharge point	Parameter	Limit (including units)
EC1 EC2 EC3 EC4	Total Dissolved Solids ¹	<10,000 mg/L
DC2	Cumulative volume	2 GL/a
	pH ¹	6.5-9 pH units
	Total Dissolved Solids ¹	<50,000 mg/L

Note 1: In-field non-NATA accredited analysis permitted.

Monitoring

General monitoring

- 17 The licence holder must ensure that:
- (a) monthly monitoring is undertaken at least 15 days apart;
 - (b) quarterly monitoring is undertaken at least 45 days apart; and
 - (c) six monthly monitoring is undertaken at least 5 months apart.
- 18 All sample analysis must be undertaken by laboratories with current accreditation from the National Association of Testing Authorities (NATA) for the relevant parameters, unless otherwise specified in conditions 19, 22 and 23.

Discharge point monitoring

- 19 The licence holder must monitor emissions in accordance with the requirements specified in Table 9 and record the results of all such monitoring.

Table 9: Emissions and discharges monitoring

Discharge point	Parameter	Units	Averaging period	Frequency	Method
Emissions to air					
GT1 GT1-B GT2 GT2-B GT3 GT3-B GT4 GT4-B GT5 GT5-B GT6 GT6-B GT7	Nitrogen oxides	ppmv ¹	10 minutes	Continuous during operation ²	CEMS
	Carbon monoxide				
Emissions to surface water					
FR2 – monitoring conducted in-pipe from a sampling tap	Volumetric flow rate	m ³ /day	Annual	Daily	AS/NZS 5667.6
	pH ³	pH units	Spot sample	Monthly	AS/NZS 5667.1 AS/NZS 5667.6
	Temperature ³	°C			
	Electrical Conductivity ³	µS/cm			
	Dissolved Oxygen ³	mg/L			
	Total Dissolved Solids				
	Total Suspended Solids				
	Total Nitrogen				
	Bioavailable Nitrogen				
	Nitrate				
	Ammonia				
	Total Phosphorus				
	Bioavailable Phosphorus				
	Bioavailable Organic Carbon				

Discharge point	Parameter	Units	Averaging period	Frequency	Method
	Chlorophyll a				
	Aluminium				
	Arsenic				
	Boron				
	Cadmium				
	Chromium (III)				
	Chromium (VI)				
	Cobalt				
	Copper				
	Iron				
	Lead				
	Mercury				
	Manganese				
	Nickel				
	Selenium				
	Silver				
	Strontium				
	Vanadium				
	Zinc				
	Total Recoverable Hydrocarbons				
Camp 123 Turkey's nest or Dewatering Staging Facility	pH ³	pH units	Spot sample	Monthly	AS/NZS 5667.1 AS/NZS 5667.10
	Temperature ³	°C			
	Electrical Conductivity ³	µS/cm			
	Dissolved Oxygen ³	mg/L			
	Total Dissolved Solids				
	Total Suspended Solids				
	Total Nitrogen				

Discharge point	Parameter	Units	Averaging period	Frequency	Method
	Bioavailable Nitrogen				
	Nitrate				
	Ammonia				
	Total Phosphorus				
	Bioavailable Phosphorus				
	Bioavailable Organic Carbon				
	Chlorophyll a				
	Aluminium				
	Arsenic				
	Boron				
	Cadmium				
	Chromium (III)				
	Chromium (VI)				
	Cobalt				
	Copper				
	Iron				
	Lead				
	Mercury				
	Manganese				
	Nickel				
	Selenium				
	Silver				
	Strontium				
	Vanadium				
	Zinc				
	Total Recoverable Hydrocarbons				

Discharge point	Parameter	Units	Averaging period	Frequency	Method
(Stormwater and/or Process Water) EC1 EC2 EC3 EC4 DC2	pH ³	pH units	Spot sample	Prior to discharge	AS/NZS 5667.1 AS/NZS 5667.6
	Total Dissolved Solids ³	mg/L			
(TSF decant and seepage water) DC2 in-pipe (or if discharges are not occurring at the time of sampling, samples can be collected directly from the TSF seepage sump) 500m downstream of DC2 where it is safe to do so)	Volumetric flow rate	m ³ /day	Annual	Monthly	AS/NZS 5667.6
	Oxidation Reduction Potential ³	mV	spot sample	Quarterly	AS/NZS 5667.1 AS/NZS 5667.6
	pH ³	pH units			
	Temperature ³	°C			
	Dissolved Oxygen ³	mg/L			
	Electrical Conductivity ³	µS/cm			
	Total Dissolved Solids	mg/L			
	Acrylamide				
	Total Nitrogen				
	Nitrate as N				
	Nitrite as N				
	Ammonia				
	Calcium				
	Chloride				
	Potassium				
	Magnesium				
	Sodium				
	Sulfate (SO ₄ ²⁻)				
	Total Alkalinity				
	Total Sulfur				

Discharge point	Parameter	Units	Averaging period	Frequency	Method
	Bicarbonate (HCO_3^-)				
	Carbonate (CO_3^{2-})				
	Aluminium				
	Cadmium				
	Chromium (hexavalent)				
	Cobalt				
	Copper				
	Iron				
	Lead				
	Manganese				
	Mercury				
	Nickel				
	Zinc				

Note 1: All units are referenced to STP dry at 15% O_2 .

Note 2: Monitoring shall be undertaken to reflect normal operating conditions and any limits or conditions on inputs or production.

Note 3: In-field non-NATA accredited analysis permitted.

- 20 When utilising CEMS to monitor emissions pursuant to condition 19, the licence holder must ensure that:
- (a) the CEMS is regularly operated, maintained and calibrated in accordance with the CEMS Code; and
 - (b) a minimum of one RATA and three CGA; or two RATA and two CGA shall be conducted per annual period.
- 21 The licence holder must record the commencement and cessation date and time for each discharge of mine dewatering from FR2 against local tidal data from the measurement locations.

Waste input monitoring

- 22 The licence holder must record the total amount of waste accepted onto the premises, for each waste type listed in Table 10, in the corresponding unit, and for each corresponding time period, as set out in Table 10.

Table 10: Waste input monitoring

Waste type	Units	Time period
- Inert Waste Type 1; - Inert Waste Type 2; - Special Waste Type 1; - Special Waste Type 2; - Clean Fill; - Uncontaminated Fill; - Putrescible Waste; - Contaminated Solid Waste and - Other wastes	Tonnes (where a weighbridge is present); or m ³ (where no weighbridge is present)	Monthly Estimate

Process monitoring

- 23 The licence holder must undertake the monitoring in Table 11 in accordance with the requirements specified in Table 11 and record and investigate results that do not meet any limit specified.

Table 11: Process monitoring

Monitoring point reference as depicted in Schedule 1	Process description	Parameter	Limit	Units	Frequency	Method
OWS1	Final effluent Tank OWS1 (Heavy Mobile Equipment Workshop) used for dust suppression onsite	Total Recoverable Hydrocarbons	15	mg/L	Quarterly where wastewater is available	None specified
OWS3	Final effluent Tank OWS3 (Supply Base) used for dust suppression onsite	Total Recoverable Hydrocarbons	15	mg/L		
TSF Stage Two	-	Combined decant water and seepage water recovery volumes	-	m³	Cumulative monthly total	
	-	Volume of tailings deposited	-	m³		
	-	Volume of TSF decant water and seepage	-	m³		

		water disposed of into DC2				
WWTP	Final treated effluent tank of the Biomax WWTP and the MBBR WWTP Treated effluent is stored in the process water dam, prior to recirculating it in the process plant for use in the hoppers and mills	pH ¹	-	pH units	Quarterly	
		Biochemical Oxygen Demand	-	mg/L		
		Total Suspended Solids	-	mg/L		
		<i>E.coli</i>	-	cfu/100mL		
		Total Nitrogen	-	mg/L		
		Total Phosphorus	-	mg/L		

Note 1: In-field non-NATA accredited analysis permitted.

Ambient monitoring

- 24 The licence holder must monitor the groundwater and surface water for concentrations of the parameters in accordance with Table 12.

Table 12: Monitoring of ambient concentrations

Table 12: Monitoring of ambient concentrations					
Monitoring location as depicted in Schedule 1	Parameter	Units	Averaging period	Frequency	Method
Groundwater					
• TSF_001 • BH08-06 (09DD598) • BH08-07 (09DD599) • TSF_009 • BH08-9(09DD602) • TSF_002 • TSF_017 (17NC764) • 07WB002 (07NC256) • 16NC750	Standing Water Level ²	mbgl	Spot sample	Monthly	AS/NZS 5667.1 AS/NZS 5667.11
	Oxidation Reduction Potential ¹	mV	Spot sample	Quarterly	
	pH ¹	pH units			
	Dissolved Oxygen ¹	mg/L			
	Temperature ¹	°C			
	Electrical Conductivity ¹	µS/cm			
	Total Dissolved Solids	mg/L			
	Acrylamide				
	Total Nitrogen				

	Nitrate as N				
	Nitrite as N				
	Ammonia				
	Total Sulfur				
	Calcium				
	Sodium				
	Total Alkalinity				
	Chloride				
	Magnesium				
	Potassium				
	Sulfate (SO_4^{2-})				
	Bicarbonate (HCO_3^-)				
	Carbonate (CO_3^{2-})				
	Aluminium	Mg/L	Spot Sample	Six monthly	AS/NZS 5667.1 AS/NZS 5667.11
	Lead				
	Mercury				
	Copper				
	Chromium (hexavalent)				
	Nickel				
	Zinc				
	Cadmium				
	Cobalt				
	Iron				
	Manganese				
Monitoring location as depicted in Schedule 1	Parameter	Units	Averaging period	Frequency	Method
Surface water					

- FR1 (1 km downstream of discharge point) - FR2 (discharge point) - FR3 (1 km upstream of discharge point) - FR4 (18 m upstream of discharge point) - FR5 (18 m downstream of discharge point)	pH ¹	pH units	Spot sample	Monthly	AS/NZS 5667.1 AS/NZS 5667.6
	Temperature ¹	°C			
	Dissolved Oxygen ¹	mg/L			
	Electrical Conductivity ¹	µS/cm			
	Total Dissolved Solids	mg/L			
	Total Suspended Solids				
	Total Nitrogen				
	Bioavailable Nitrogen				
	Nitrate				
	Ammonia				
	Total Phosphorus				
	Bioavailable Phosphorus				
	Bioavailable Organic Carbon				
	Chlorophyll a				
	Aluminium				
	Arsenic				
	Boron				
	Cadmium				
	Chromium (III)				
	Chromium (VI)				
	Cobalt				
	Copper				
	Iron				
	Lead				
	Mercury				

	Manganese				
	Nickel				
	Selenium				
	Silver				
	Strontium				
	Vanadium				
	Zinc				
	Total Recoverable Hydrocarbons				
500m downstream of the discharge points: EC1 (ambient) EC2 (ambient) EC3 (ambient) EC4 (ambient) DC2 (ambient)	pH ¹	pH units	Spot sample	During the discharge where it is safe to do so	AS/NZS 5667.1 AS/NZS 5667.6
	Total Dissolved Solids ¹	mg/L		In the event that it is not safe to do so, comparison should be made to historic data with reason justified	

Note 1: In-field non-NATA accredited analysis permitted.

Note 2: Standing Water Level should be determined prior to collection of other water samples.

- 25** The licence holder must conduct a vegetation monitoring program in accordance with the requirements specified in Table 13 and record the results of all monitoring activity conducted under the program.

Table 13: Monitoring of ambient vegetation health

Monitoring location as depicted in Schedule 1	Parameter	Averaging period	Frequency
FR2 (discharge point)	Visually estimate the average foliage cover	Visual inspection	Annually
	Score the health condition		
	General environmental description of the site and record any changes since previous monitoring		
	Take replicate photographs of foliage density and shadow areas beneath trees.		
Areas of stream discharge: EC1 EC2 EC3 EC4 DC2	Signs of stress on native flora and fauna	Visual inspection	Within three months of discharge

Records and reporting

- 26 The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:
- (a) the name and contact details of the complainant, (if provided);
 - (b) the time and date of the complaint;
 - (c) the complete details of the complaint and any other concerns or other issues raised; and
 - (d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.
- 27 The licence holder must:
- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
 - (b) prepare and submit to the CEO by no later than 120 days after the end of that annual period an Annual Audit Compliance Report in the approved form.
- 28 The licence holder must within 7 days of each item of infrastructure required by condition 12 being constructed:
- (a) undertake an audit of their compliance with the requirements of condition 12; and
 - (b) prepare and submit to the CEO an audit report on that compliance.

- 29 The report required by condition 28, must:
- (a) be certified by a suitably qualified engineer and certify that the works were constructed in accordance with the construction requirements specified in condition 12;
 - (b) provide a list of departures from the specified works certified by a suitably qualified engineer; and
 - (c) be signed by a person authorised to represent the licence holder and contain the printed name and position of that person within the company.
- 30 The licence holder must within 14 days notify the CEO of an unauthorised fire at the Landfill Facility, South East Waste Rock Landform and North East Waste Rock Landform.
- 31 The licence holder must submit to the CEO by no later than 120 days after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Table 14, and which provides information in accordance with the corresponding requirement set out in Table 14.

Table 14: Annual Environmental Report

Condition	Requirement
11	Annual water balance for the TSF
19	Emissions to air CEMS results as tabulated data and time series graphs including: (a) times and dates; and (b) an assessment of the information contained within the report against previous monitoring results and/or background data.
19	Emissions to surface water The results to be provided to the CEO must include, but need not be limited to the following: (a) the dates at which monitoring was undertaken for each location; (b) the raw monitoring data from each location, for each parameter in a tabulated form; and (c) an interpretation of monitoring data results including a comparison to previous monitoring results, licence limits and any impacts detected as a result of activities on the premises.
21	Discharge commencement and cessation date and times recorded, along with tidal data from measurement locations.
22	Tabulated waste input data including a discussion of options for stabilising and/or reducing the amount of waste to landfills.
23	Tabulated process monitoring data including a summary of the data including a comparison to previous monitoring results, licence limits and any impacts detected as a result of activities on the premises.

Condition	Requirement
24	The results to be provided to the CEO must include, but need not be limited to the following: (a) the dates at which monitoring was undertaken for each location; (b) the raw monitoring data from each location, for each parameter in a tabulated form; and (c) an interpretation of monitoring data results including a comparison to previous and/or baseline monitoring results and any impacts detected as a result of activities on the premises. The data obtained for the increase in mine dewatering discharge (FR2) up to 8GL/a during discharge to obtain dilution data and to verify dilution modelling, including a comparison against the initial modelling.
25	Ambient vegetation health monitoring report to include: (a) aerial image review – transects; (b) visual inspection forms which estimate the average foliage cover; score the health condition and provide a general environmental description of the site and record any changes since previous monitoring; (c) replicate photographs of foliage density and shadow areas beneath trees; and (d) signs of stress on native flora and fauna at areas of stream discharge: EC1, EC2, EC3, EC4, and DC2.
26	Complaints summary
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken.

- 32 The licence holder must maintain accurate and auditable books that include the following records, information, reports, and data required by this licence:
- (a) the calculation of fees payable in respect of this licence;
 - (b) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;
 - (c) monitoring programmes undertaken in accordance with conditions 19, 22, 23, 24 and 25 of this licence; and
 - (d) complaints received under condition 26 of this licence.
- 33 The books specified under condition 32 must:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
 - (c) be retained by the licence holder for the duration of the licence; and
 - (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this licence, the terms in Table 15 have the meanings defined.

Table 15: Definitions

Term	Definition
ACN	Australian Company Number.
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
asbestos	means the asbestiform variety of mineral silicates belonging to the serpentine or amphibole groups of rock-forming minerals and includes actinolite, amosite, anthophyllite, chrysolite, crocidolite, tremolite and any mixture containing 2 or more of those.
asbestos fibres	has the meaning defined in the Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (Department of Health 2009).
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples.
AS/NZS 5667.6	means the Australian Standard AS/NZS 5667.6 Water Quality – Sampling – Guidance on sampling of rivers and streams.
AS/NZS 5667.10	means the Australian Standard AS/NZS 5667.10 Water Quality – Sampling – Guidance on sampling of waste waters.
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on sampling of groundwaters.
averaging period	means the time over which a limit is measured or a monitoring result is obtained.
books	has the same meaning given to that term under the EP Act.
Concentrator Facility	Means six mill lines, concentrate thickeners, concentrate pumping infrastructure, process water containment infrastructure, process water pumping infrastructure, and any associated equipment.
CEMS	means continuous emissions monitoring system.
CEMS Code	means the current version of the Continuous Emission Monitoring System (CEMS) Code for Stationary Source Air Emissions, Department of Environment Regulation, Government of Western Australia.

Term	Definition
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
cfu/100mL	means colony forming units per 100 millilitres.
CGA	Means Cylinder Gas Audit as defined in the CEMS Code.
Clean Fill	has the meaning defined in Landfill Definitions.
Contaminated solid waste	has the meaning defined in Landfill Definitions.
controlled waste	has the definition in <i>Environmental Protection (Controlled Waste) Regulations 2004</i> .
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986</i> (WA).
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA).
GL/a	means giga litres per annum.
HDPE	high density polyethylene.
Inert Waste Type 1	has the meaning defined in Landfill Definitions.
Inert Waste Type 2	has the meaning defined in Landfill Definitions.
Landfill Definitions	means the document titled "Landfill Waste Classification and Waste Definitions 1996 (as amended 2019)" published by the Chief Executive Officer of the Department of Water and Environmental Regulation as amended from time to time.
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
Mill Line	Means a pebble crushing / grinding circuit, primary autogenous (ag) mill, first stage magnetic separator, secondary ball mill, second stage magnetic separator, elutriation column and any associated equipment.

Term	Definition
MBBR	means moving bed bio-reactor.
mbgl	means metres below ground level.
measurement locations	means tidal data collected from the CITIC Tug Pen and CITIC MOF Wharf and Australian Hydrographic Service site Fortescue Road.
monthly period	means a one-month period commencing from the first calendar day of a month until the final calendar day of the same month.
mRL	means metres Reduced Level.
mV	means millivolts.
operational freeboard	means the vertical height between the lowest elevation of the dam wall and the tailings beach immediately inside the dam wall.
NATA	means the National Association of Testing Authorities, Australia.
NATA accredited	means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis.
OWS	means oily water separator.
Power Station	Means three turbine units, each turbine unit consisting of two gas turbine generators (GT1-6) with two heat recovery steam generators and steam turbine attached and any associated equipment, a standalone gas turbine (GT7), seven CEMS, three cooling towers, a water treatment plant, gas conditioning system, a settling pond (HDPE lined), black start generators, a diesel storage tank, and any associated equipment.
Primary Crushing Facility	Means four in-pit primary crushers, two in-pit overland conveyors, coarse ore stockpile and any associated equipment.
ppmv	means parts per million by volume.
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
Putrescible	has the meaning defined in Landfill Definitions.
Quarterly	means the 4 inclusive periods from 1 July to 30 September, 1 October to 31 December and in the following year, 1 January to 31 March and 1 April to 30 June.
RATA	Means Relative Accuracy Test Audit as defined in the CEMS Code.
Rehabilitation	means the completion of the engineering of a landfill cell and includes capping and/or final cover.
Six monthly	means the 2 inclusive periods from 1 July to 31 December and 1 January to 30 June in the following year.
Special Waste Type 1	has the meaning defined in Landfill Definitions.

Term	Definition
Special Waste Type 2	has the meaning defined in Landfill Definitions.
Spot sample	means a discrete sample representative at the time and place at which the sample is taken.
STP dry	means standard temperature and pressure (0°Celsius and 101.325 kilopascals respectively), dry.
TSF	means Tailings Storage Facility.
TSF Stage 2	Means Tailings Storage Facility Stage 2 (66mRL), primary & secondary tailings thickeners, primary & bypass tailings discharge pipelines, seepage containment infrastructure (inc seepage collection pond), seepage pumping & discharge infrastructure, decant return water containment infrastructure (inc decant return staging pond), decant return water pumping infrastructure, tailings seepage management bores, emergency tailings containment infrastructure and any associated equipment.
Uncontaminated Fill	has the meaning defined in Landfill Definitions.
µS/cm	means micro-Siemens per centimetre.
waste	has the same meaning given to that term under the EP Act.
WWTP	means wastewater treatment plant.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises, facilities locations and emissions/discharges points are shown in the map below (Figure 1).

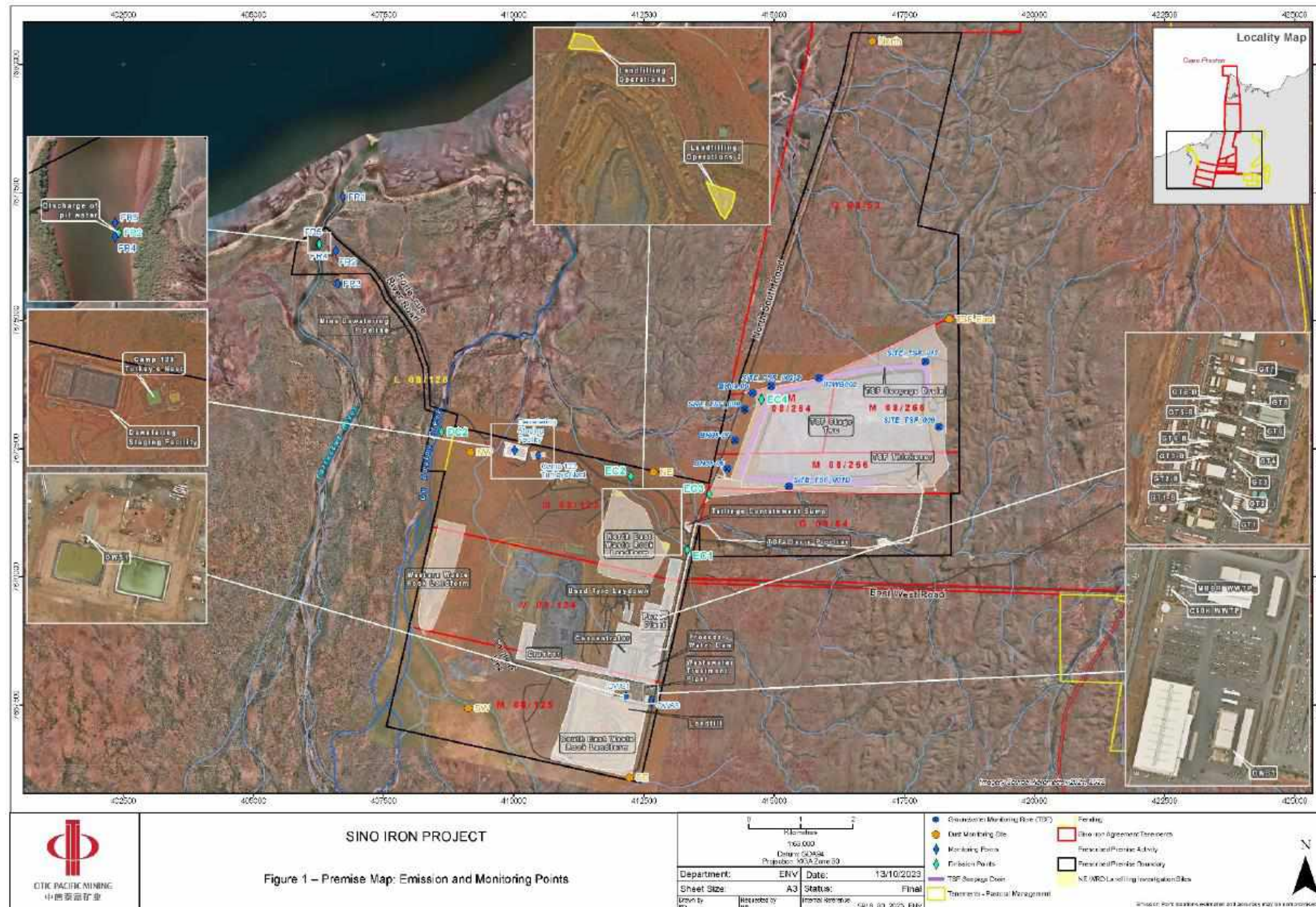


Figure 1: Map of the boundary of the prescribed premises

L8308/2008/2

Infrastructure

Drawing used for Information Purposes Only

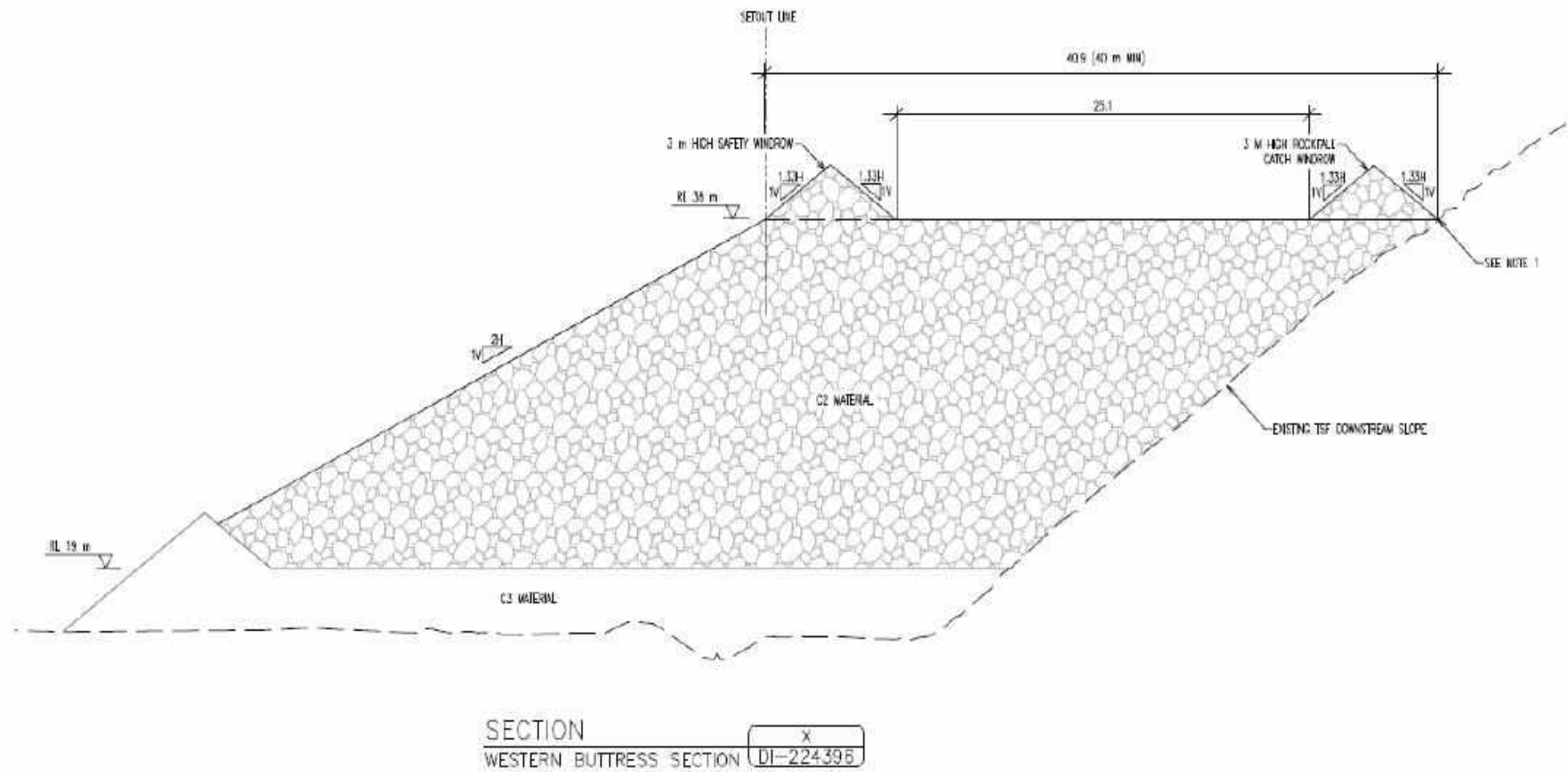


Figure 2: As-built Western Butress design to 38m

Drawing used for Information Purposes Only

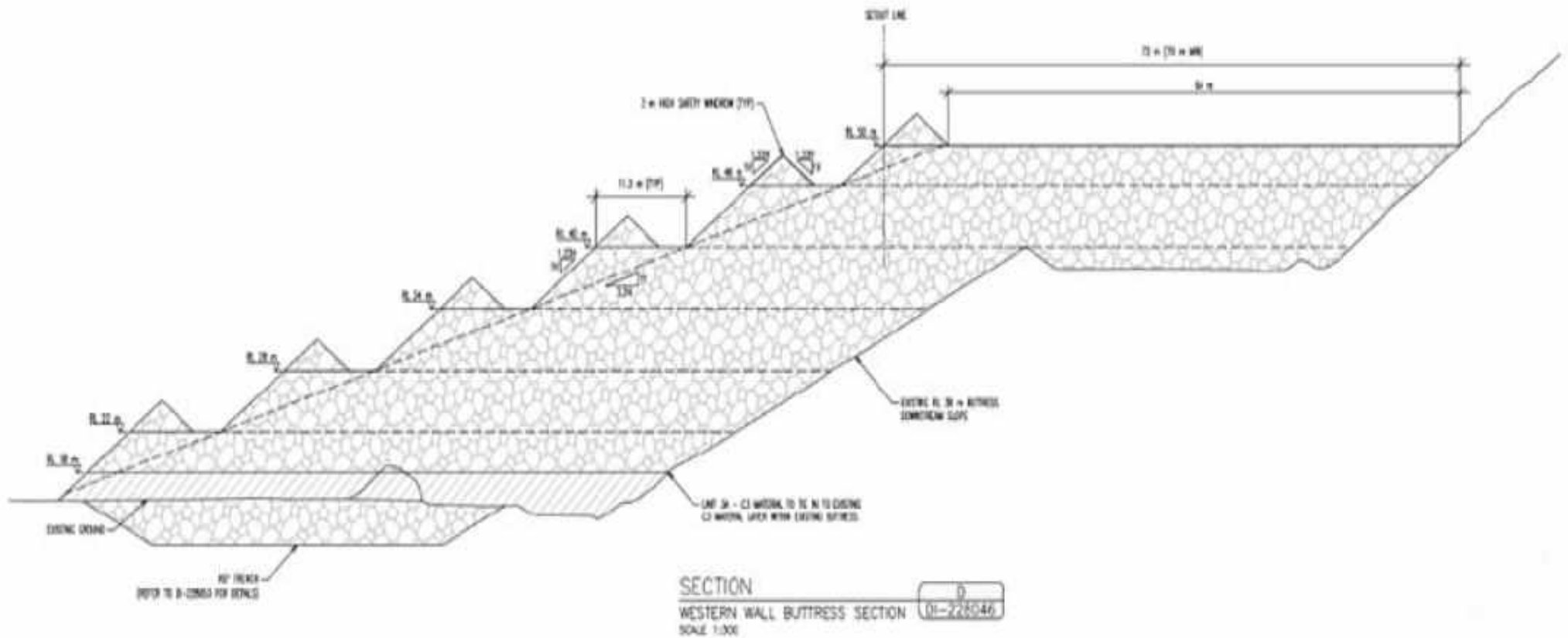


Figure 3: Drawing RL 50m buttress design

Drawing used for Information Purposes Only

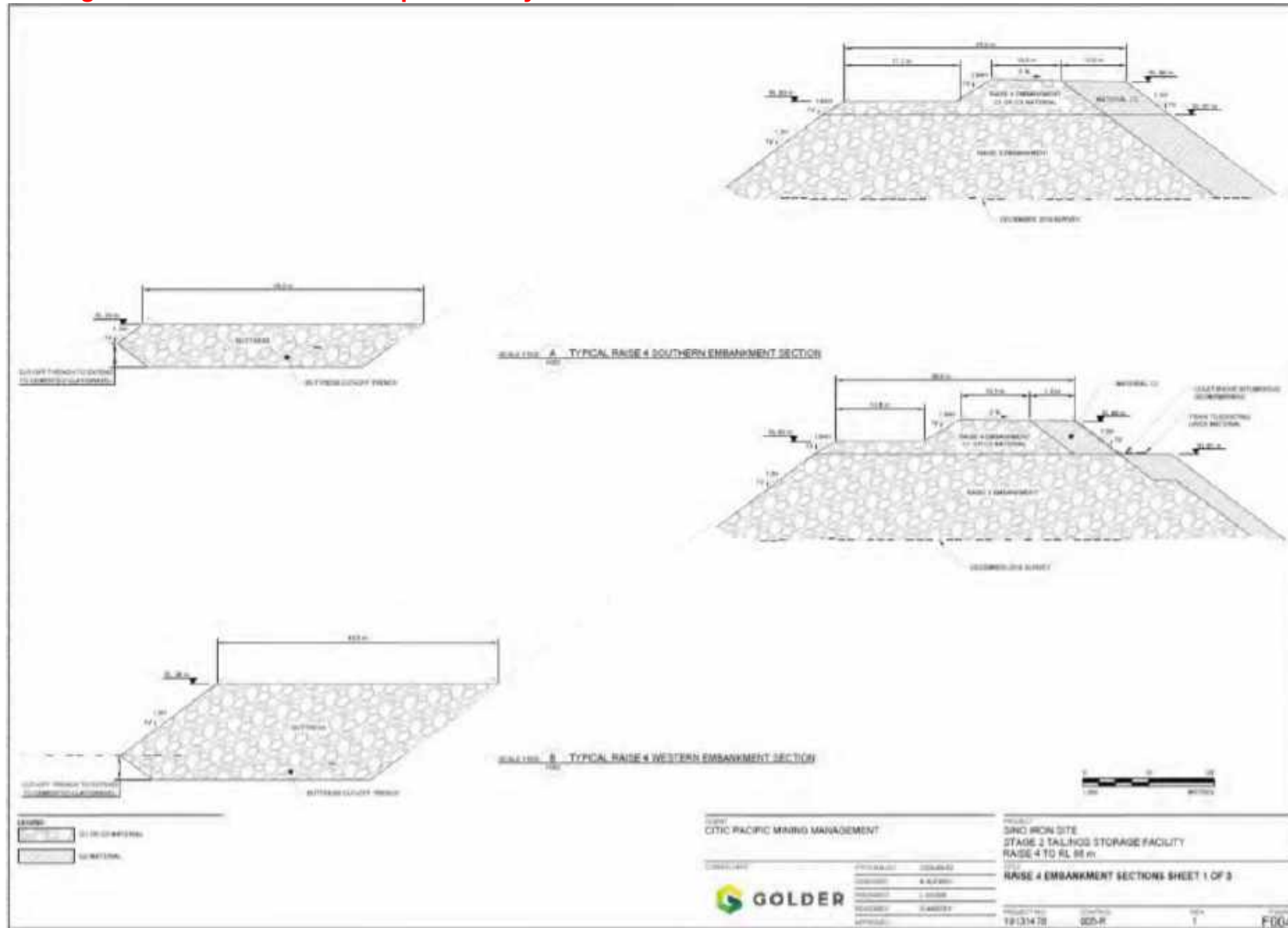


Figure 4: Design to 66 mRL



Extracted from ASIC's database at AEST 11:53:53 on 25/03/2025

Company Summary

Name: CITIC PACIFIC MINING MANAGEMENT PTY LTD

ACN: 119 578 371

ABN: 64 119 578 371

Registration Date: 08/05/2006

Next Review Date: 22/03/2026

Former Name(s): CP MINING MANAGEMENT PTY LIMITED

Status: Registered

Type: Australian Proprietary Company, Limited By Shares

Locality of Registered Office: PERTH WA 6000

Regulator: Australian Securities & Investments Commission

Further information relating to this organisation may be purchased from ASIC.



CITIC PACIFIC MINING
中信泰富矿业

SINO IRON PROJECT

Attachment 2 – Premise Map: Emission and Monitoring Points

Department: ENV		Date: 30/09/2025
Sheet Size: A3		Status: Draft
Drawn by: AS	Requested by: BW	Internal Reference: 6146_00_2025_ENV

Emission Point locations estimated and accuracy may be compromised

Application form annex: Category checklist (tailings storage facilities)

This checklist outlines additional information requirements for applications under Part V Division 3 of the *Environmental Protection Act 1986* (EP Act) to:

- construct or operate a tailing storage facility (TSF), or
- amend an instrument to change the conditions or characteristics related to an existing TSF (e.g. new TSFs or wall rises or lifts, or changes to delivery process or material characteristics).

‘TSF’ includes containment cells or dams and the retaining embankment, delivery system, water return system and ancillary structures required to support operations, including spillways and decant facilities.

The information in this checklist is needed to allow the Department of Water and Environmental Regulation (the department) to assess environmental and public health risks from discharges and emissions from TSFs. The required information is consistent with the department’s [Guideline: Risk assessments](#) and with the Australian national [Leading Practice Handbook on Tailings Management](#).

Notes included throughout this checklist must be read in conjunction with the instructions and requirements of the relevant application form. The information requirements outlined in this checklist are not exhaustive. Applicants are advised to provide additional supporting information and environmental investigations as required to support the application and assessment process. Information requirements and attachments can be combined and submitted as one or more consolidated documents if desired, provided it is clear to which section of the application checklist the information/attachments relate.

Before you submit this checklist, please check you have correctly completed all the fields and included relevant supporting documents (including maps etc.). If an application form and checklist has been submitted and are incomplete the Chief Executive Officer (CEO) of the department may request further information which may result in protracted assessment timeframes, or the CEO may decline to deal with incomplete or incorrectly completed applications.

Part 1 – Applicability of checklist

The table below indicates the sections of this checklist required to be completed for different types of TSF applications, as described within Schedule 1 Part 1 of the Environmental Protection Regulations 1987 (EP Regulations):

Category 5(c) – “Processing or beneficiation of metallic or non-metallic ore: premises on which - (c) tailings or residue from metallic or non-metallic ore are discharged into a containment cell or dam.”

Scenario	Application type	Parts / sections of checklist to be completed
1	Applications involving: - a new above ground (including valley) or in pit TSF - a new cell to an existing TSF - a change to the TSF location, proposed liner, type of construction or staging of an approved TSF.	Complete to the extent required or (if amendment) changed Part 2; part 8.1 and 8.3, part 9.2 Must be completed: All other parts Attachments 1 to 9
2	Wall raise/lift to existing TSF (in-pit or above-ground, including valley TSF)	Complete to the extent required or (if amendment) changed Part 2 Part 7.1, 7.2 Part 8.1, 8.3 Part 9.1 (if any change to layout), Part 9.2 and 9.3 Attachment 9 Must be completed: All other parts Attachments 1 to 8
3	Significant change to tailings delivery process (i.e. cyclone, thickener, etc) which will change the physical characteristics of tailings.	Must be completed: Part 3, Part 7.4, Attachment 1 to 4 Complete to the extent required or (if amendment) changed All other parts Attachments 5 to 9
4	Change to the tailings material characteristics (e.g. change in geochemical character, ore body, ore type, ore material character, etc) or the reprocessing of tailings.	Must be completed: Part 3, Part 6 Attachments 1 to 4 Complete to the extent relevant for the change: All other parts. Attachments 5 to 7; Attachment 9

Part 2 – Other approvals

	Yes	N/A	Document name or section name
Is the proposal subject to a state agreement act? If yes, specify: - the title of the state agreement act - any relevant considerations relating to the TSF and associated activities or infrastructure - any consultation with the Department of Jobs, Tourism, Science, and Innovation (DJTSI) about the TSF - whether the state agreement act addresses closure.	X	☐	<i>Iron Ore Processing (Mineralogy Pty. Ltd.) Agreement Act 2002</i> Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 2.1 Iron Ore Processing Agreement Act
Are the TSF related activities to be undertaken on tenements granted under the <i>Mining Act 1978</i> (Mining Act)? If yes, provide tenement numbers and a description of: - any consultation with the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) about the TSF and - the status of the associated mining proposal (include registration ID if available) and mine closure plan.	X	☐	The TSF related activities will be undertaken on tenements granted under the Mining Act 1978 (Mining Act), namely M08/264-265, G08/53 (see Figure 2 of Supporting Document). TSF design documentation has been provided to DMPE and DGLIRS in a letter dated 7/08/2025. No mining proposal or mine closure plan submitted under the Mining Act.

	Yes	N/A	Document name or section name
If any TSF activities are outside of Mining Act tenure, provide details of the proposed closure and rehabilitation aspects pertaining to the TSF (i.e. research, investigations, trials, progressive rehabilitation, early closure, closure outcomes and completion criteria). Refer to the DEMIRS guidance on mine closure plans, particularly Mine Closure Plan Guidance - How to Prepare in Accordance with the Statutory Guidelines	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 2.2 EP Act PIV- Ministerial Statement 635, Section 12 Sino Iron Project Mine Closure Plan
Has the proposal been referred to the EPA under Part IV of the EP Act? If yes, provide a description (where relevant) of: • what has been referred or assessed under Part IV • any changes made or proposed to the TSF since Part IV referral or approval • Part IV EP Act ministerial statement conditions (if any) relating to the existing TSF or proposed changes to the TSF • Whether the ministerial statement addresses closure.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 2.2 EP Act PIV- Ministerial Statement 635
Has the proposal been referred under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)? If yes, provide: • any consultation with the Department of Climate Change, Energy, Environment and Water about the TSF • the EPBC approval number and copy of the TSF related approval conditions • a description of any changes made to the TSF since submission or approval (if any)	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 2.3 EPBC Referral

Part 3 – Conceptual Site Model

	Yes	N/A	Document name or section
Provide a site-specific conceptual site model (CSM)¹ that clearly identifies all potential Source-Pathway-Receptor (SPR) linkages for identified environmental and public health receptors (refer to Section 3.3 and Appendix 1 of this checklist). If this is for an existing facility that was previously approved under Part V Division 3 of the EP Act, only identify the changes to the model resulting from the proposed modification(s). The complexity of the CSM corresponds to the scale and complexity of the TSF activities and should be devised to assist in the TSF design process to identify appropriate design and operational measures as well as environmental monitoring requirements. A site-specific SPR assessment² for seepage must be undertaken as part of the CSM. Refer to Section 7.4 for seepage requirements. Note 1: Guidance on developing CSMs is provided in the department's Assessment and management of contaminated sites guidelines. Note 2: Assessment should be conducted as part of and be consistent with the requirements outlined in the emissions and discharges section of the relevant application form.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 11 TSF 3 Conceptual Site Model
Attachments			
3.2 Attachment 1: Locality map(s) An aerial photograph, map, and/or site plan of sufficient scale showing the proposed premises and locality of the TSF and supporting infrastructure in respect to nearby sensitive receptors and surrounding land uses. Multiple maps at different scales can be provided if required.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Figure 1: L8308 premise and proposed TSF3
3.3 Attachment 2: CSM table In accordance with Part 3.1 above, provide a site-specific CSM in table format. The CSM table should clearly summarise the identified SPR linkages for construction and operation. An example CSM table is provided in Appendix 1 to this checklist.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 11 TSF 3 Conceptual Site Model

Part 4 – Design concept

You must provide a detailed overview of the design concept including all related infrastructure, such as seepage collection and management infrastructure.

The proposed design should take into consideration the environmental setting, adjacent current and future land uses, available materials and infrastructure, and materials characteristics of the tailings to be received.

	Yes	N/A	Document name or section
4.1 Design overview Provide an overview of the TSF design (e.g. TSF footprint, cells and division embankments etc.). Specified design detail must be provided for each proposed cell of the TSF. Will the facility be lined? What material will be used for the liner (clay, geotextile, other)? What is the expected permeability of the liner? If a change is being applied for (i.e. not a new facility) clearly define only: - changes proposed and - how they differ from the existing as built design and facility management measures.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 5 TSF 3 Design concept and overview
4.2 Staging and storage capacity Provide details on proposed staging and storage capacity. As a minimum, include the: - expected crest elevation/pit depth - tailings storage area (m²) - tailings storage volume (m³) - cumulative storage volume (m³) for the starter embankment(s) and raise(s) - expected tailings density used to determine the required storage capacity (refer to water balance calculations section 7.3).	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Table 1: Embankment staging details Table 2: Incremental embankment quantities Table 3: Tailings level and placed density
4.3 Starter embankments and raises Provide details on the proposed starter embankments and raises including: - general approach (upstream, centreline, downstream) - maximum height - materials properties, and availability.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Table 4: Embankment staging details Section 6.2 Embankment materials characterisation

Attachments	Yes	N/A	Document name or section
4.4 Attachment 3: Premises map and site layout plan(s) Provide a premises map and site layout plan(s) and include: - premises boundary and relevant tenure - TSF cell(s), proposed staged build (if required) and final landform - construction borrow source - seepage and groundwater monitoring bores - dewatering bores - roads (including haulage) and access tracks - topsoil stockpiles - pipelines, including connectivity (e.g. processing plant to the TSF) and scour pits if relevant - key environmental aspects or features (e.g. watercourses, groundwater) - other key site infrastructure (e.g. pits, plant, accommodation village, administration offices) - topographical contours on and around the TSF - scale, north arrow, GPS coordinates and legend.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Figure 3: Premise map and TSF 3 site layout plan
4.5 Attachment 4: Design figures Provide design figures that include the following: - TSF layout depicting all TSF-related infrastructure (existing and proposed) including, but not limited to: - TSF cell(s) - embankments - supernatant pond(s) - stormwater infrastructure - tailings and water pipelines, including decant lines and pump locations, and related tanks and/or ponds - tailings discharge location(s) - seepage management and/or underdrainage design. - schematic cross-sections of the TSF cell(s) and or embankments, including related geology. For amendments, clearly highlight/identify the proposed changes.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Appendix 1 – Tailings Storage Facility 3 Plans and Drawings

Part 5 – Construction overview

You must provide a detailed overview of the proposed construction works including all related infrastructure that are proposed under this application to clarify the scope of assessment.

	Yes	N/A	Document name or section
5.1 Scope of construction works Provide details of construction works including, but not limited to: • general site preparation works • infrastructure to be constructed • construction phases • timing of works – including all lifts being applied for if applicable (within the next five years) • summary of management measures and controls to be adopted for key environmental factors including: - noise - dust - stormwater/surface water - erosion and sediment - hydrocarbon management (fuel spills). Information must be consistent with the requirements outlined in the emissions and discharges section of the application form.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Section 7 TSF 3 Construction overview Section 7.2 Scope of construction works Section 7.2.1 Construction quality assurance Section 7.2.2 Construction environmental management
• for all TSFs not on Mining Act tenure, information on construction quality assurance (CQA) measures and procedures to be employed. Provide information consistent with DEMIRS published guidance, particularly Code of Practice for TSFs in WA and Guide to the Preparation of a Design Report for TSFs.	X	☐	

Part 6 – Materials characterisation

You must provide a detailed overview of the physical and geochemical characteristics of the tailings and embankment materials.

Geochemical characteristics of representative material (tailings or other) must be defined so that the geochemical risks are understood at least to a high level. The sampling program must sufficiently consider the different type(s) of materials, such that the variability/heterogeneity is represented. Altered weathering zone(s) should be considered in the sampling program where applicable.

Representative samples of tailings/process residues should be obtained from metallurgical test work conducted during the feasibility and development stages of the project.

For existing sites, sampling should cover the full lateral and vertical extent from existing facilities/stockpiles, where possible.

	Yes	N/A	Document name or section
6.1 Materials characterisation Provide materials characterisation for tailings material including, but not limited to: • where each tailings type is coming from • details of any planned blending and ratios • number of samples taken relative to the volume/throughput • process chemicals used • water used and any additional inputs to the process (e.g. wastewater, decant recycled) • deposition methodology • physical details of each tailings type (i.e. material characterisation, wet/dry material, moisture content, dispersion characteristics, attenuation properties, modelled/actual consolidation) • geochemical performance of each tailings type (i.e. composition, contaminants of concern) • assessment of acidic and/or metalliferous drainage (AMD) potential, inclusive of: - risk of AMD, neutral mine drainage (NMD), saline drainage, and acidic drainage of the tailings - risk of metalliferous drainage (encompassing all metals and metalloids, regardless of whether the conditions are acidic) - where there is risk of AMD, results of static and kinetic testing consistent with the international Global Acid Rock Drainage (GARD) Guide (particularly Chapter 4) - naturally occurring radioactive material (NORM) and technologically enhanced naturally occurring radioactive materials (TENORM). • erosive, sodic and/or dispersive materials • Fibrous materials (asbestiform materials, respirable crystalline silica); or mica • leachability of contaminants with environmental significance from the tailings • water quality of tailings decant and seepage • continuity and variability of the geochemical characteristics of tailings. Where a new tailings material (including new pit) is proposed, a comparison against existing tailings should be provided.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Section 5 TSF 3 Design concept and overview Section 5.1 Tailings deposition Section 6.1 Tailings characterisation

	Yes	N/A	Document name or section
6.2 Embankment materials characterisation Provide materials characterisation for all embankment materials including, but not limited to: • where each material type is coming from • number of samples taken relative to the volume • geochemical composition (highlighting contaminants of concern) • assessment of acidic and/or metalliferous drainage (AMD) potential, inclusive of: - risk of AMD, neutral mine drainage (NMD), saline drainage, and acidic drainage - risk of metalliferous drainage (encompassing all metals and metalloids, regardless of whether the conditions are acidic) - where there is risk of AMD, results of static and kinetic testing consistent with the international Global Acid Rock Drainage (GARD) Guide (particularly Chapter 4). - naturally occurring radioactive material (NORM) and technologically enhanced naturally occurring radioactive materials (TENORM). • erosive, sodic and/or dispersive materials • Fibrous materials (asbestiform materials, respirable crystalline silica); or mica • continuity and variability of the geochemical characteristics.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Section 6.2 Embankment materials characterisation

Part 7 – Seepage and water management

You must provide a detailed overview of seepage and water management. This includes seepage minimisation measures and the proposed seepage management system, including seepage recovery requirements.

The premises must be designed and constructed so that stormwater is diverted away from the TSF (including individual cells). This may be achieved through surface grade changes, bunding, interceptor drains, piping and other drainage systems. Stormwater that has come into contact with the surface of the TSF (including embankments) must be collected and managed as decant in the decant management system.

	Yes	N/A	Document name or section
7.1 Hydrogeology Provide a detailed overview on the following in relation to the TSF: • local geology • topography • shallow geology under the TSF • hydrogeology including surface waterways and drainage plans, depth to groundwater, groundwater quality (including salinity) and direction of groundwater flow • for in-pit TSFs, include known preferential and fracture pathways and blasting history to allow risk assessment of potential environmental risks from blasting residues. Aerial overview and geological cross-section drawings must be provided (refer also to requirements under section 7.5).	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Section 8.1 Hydrogeology
7.2 Stormwater management Provide details on the proposed stormwater management and controls for the TSF including, but not limited to: • diversion of stormwater away from the TSF using drainage features, bunds, interceptor drains or other drainage systems • details (including design specifications and an overview of construction works) of clean stormwater holding ponds to be constructed (if required) • details of any proposed controlled releases of clean stormwater into the environment and/or proposed reuse options on site, including worst case contingencies • erosion and sediment control along drainage lines and discharge points (e.g. stormwater flow control, vegetation, detention ponds, minimising land disturbance and other temporary and permanent erosion protection measures). Guidance on stormwater management can be found in the department's Stormwater management manual of Western Australia.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Section 8.1 Hydrogeology

	Yes	N/A	Document name or section
7.3 TSF water management Provide details on the proposed TSF water management and controls including, but not limited to details of the: - operational water balance assessment, including approach, assumptions, and estimates - proposed tailings delivery and decant/reclaim system - proposed cut-off trenches/toes and underdrainage system - operational freeboard assessment of storm storage capacity of the TSF (for each cell) at the proposed final height, relevant to its consequence category - proposed decant/reclaim system, including: - inlet/outlet locations - pumps and contingencies for failures, rain events, shut downs - incidental rainfall collection on the TSF - pipelines, including location and specifications - access causeway construction - emergency spillway(s) - decant ponds (i.e. size, capacity, freeboard requirements, elevations, locations, etc). For existing facilities, provide information on existing water and seepage management. Include details such as updated water modelling. Data should be provided in Excel format to demonstrate trends over time.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Section 8.2 TSF water management Section 9.2 Tailings delivery and return water pipelines Appendix 1 – Tailings Storage Facility 3 Plans and Drawings

7.4 TSF seepage management Has a seepage assessment been carried out? Provide details on seepage including, but not limited to: • where seepage is expected to occur (include a figure or map of plume modelling or estimated groundwater flow rates over time) • seepage rate and flow direction – including within pit walls if applicable • estimated seepage migration timeframes in relation to receptors • seepage water quality and known contaminants of concern • consideration of existing seepage (including adjacent TSFs if applicable) as cumulative emissions in water balance calculations • seepage management measures. A site-specific self-assessment⁴ based on the SPR model and risk-rating matrix outlined in the department's Guideline: Risk assessments must be undertaken for seepage as part of the CSM: • The self-assessment should be conducted as part of and be consistent with the requirements outlined in the emissions and discharges section of the application form. • The CSM must be completed as outlined in Part 3 of this form. • Proposed mitigation measures, triggers and timeframes, along with any residual risks must be clearly identified. • Self-assessment should include identifying any SPR linkage of seepage to near surface (i.e. land or soils), surface water and/or groundwater receptors. If the department's risk assessment (conducted as part of the assessment of this application) results in a residual risk the following further information may be required: ○ a time-dependent model including sensitivity of key parameters ○ relevant cross-sections of the pore pressure conditions for key time steps in the TSF's life. At a minimum this should include pre-mining conditions, year 1, mid-life, final year and post-operational drain-down ○ seepage management measures, including plan location, depth and expected efficiency. It is recommended that the above information is provided with the application up-front if the self-assessment identifies a 'high' or 'extreme' risk to avoid delays in the application process.⁵ Note 4: The risk assessment must be undertaken in accordance with the department's Guideline: Risk assessments. Note 5: Risk ratings are to be in accordance with the risk rating matrix outlined in the department's Guideline: Risk assessments.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Section 8.3 TSF seepage management Section 9.2 Tailings delivery and return water pipelines Appendix 1 – Tailings Storage Facility 3 Plans and Drawings
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	Yes	N/A	Document name or section
Attachments			
7.5 Attachment 5: Topography, geology and hydrogeological plan(s) An aerial overview and cross-section drawings of topographical, geological, and hydrogeological features related to the TSF, including existing monitoring bores and other monitoring instrumentation.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Figure 3: Premise map and TSF 3 site layout plan Figure 9: Site Geology Figure 10: Geotechnical and water bore locations Figure 11: TSF 3 Topography
7.6 Attachment 6: Layout of seepage management system Provide a layout plan of the proposed seepage management system that clearly depicts all associated infrastructure and equipment. Multiple plans can be provided.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Figure 13: TSF 3 underdrainage system Figure 14: TSF 3 Groundwater monitoring and seepage recovery bores
7.7 Attachment 7: Stormwater / Surface Water Management Infrastructure Provide design drawings and layout figure(s) of the proposed stormwater / surface water management infrastructure.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 -Works Approval TSF3) Figure 11: TSF 3 Topography

Part 8 – Other operational and management aspects

This section outlines the operational management aspects of the TSF that must be addressed as part of an application. Focus on the day-to-day activities undertaken at the TSF and the practices to be implemented to minimise environmental impacts.

	Yes	N/A	Document name or section
8.1 Dust management Where risk assessment concludes there may be impacts to sensitive environmental receptors or risk of amenity or public health impacts, provide details on the proposed dust mitigation measures to control dust emissions from the TSF. Where saline water is used for dust suppression, all reasonable measures must be taken to avoid detrimental impacts to surrounding environmental receptors including native vegetation. These measures must be documented in the application. 'Dust' includes dried tailings lift-off from the surface of the TSF.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 7.2.2 Construction environmental management Section 9.1 Dust management Section 10.2 Dust monitoring
8.2 Tailings delivery and return water pipelines Provide details on the proposed tailings delivery and return water pipelines including, but not limited to: • location/route • design specifications • connectivity (i.e. processing plant to TSF) • decant and reclaim system • supernatant ponds (location, size, etc). Provide details of the proposed management measures for tailings delivery and return water pipelines including, but not limited to: • trenches and diversion bunds • flow meters • telemetry / process monitoring • leak detection/monitoring system • shut-off valves • inspections schedule and responsible officers • deposition strategy • contingency measures in event of pipeline spills or ruptures.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 5.1 Tailings deposition Section 9.2 Tailings delivery and return water pipelines Section 10.3 TSF Inspections

Attachments			
8.4 Attachment 8: Layout of tailings delivery and return water pipelines Design drawings and layout figure(s) of the proposed tailings delivery and return water pipeline infrastructure must be provided.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Figure 15: TSF 3 Tailings delivery and return water pipelines Appendix 1 – Tailings Storage Facility 3 Plans and Drawings

Part 9 – TSF monitoring and inspections

You must provide an overview of the proposed monitoring and inspection aspects of the TSF operation.

A comprehensive monitoring program is required to support the ongoing operation of the TSF. Aspects that should be included in the monitoring program (as a minimum) include seepage, surface water and groundwater, relevant to the risks identified.

The operator must continually review the quality of data obtained and the positioning of monitoring points during the regular review of monitoring data.

Typical monitoring aspects are outlined further below. Where an operator elects not to commit to certain monitoring programs, they must provide clear justification and rationale for this decision.

	Yes	N/A	Document name or section
9.1 Groundwater, surface water and seepage monitoring Provide details on the proposed groundwater and surface water monitoring program including, but not limited to: • groundwater, surface water, and seepage sampling / monitoring locations (including monitoring and recovery bores) • bore construction specifications • nearest stock bore(s) • nearest supply bore(s) • sampling methodology • analysis suite • sampling frequency. For a new TSF, the operator should seek to demonstrate baseline groundwater and surface water conditions before construction works and to feed the results of this monitoring into the initial CSM development. The monitoring program should as	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 10.1 Groundwater, surface water and seepage monitoring Figure 3: Premise map and TSF 3 site layout plan Figure 14: TSF 3 Groundwater monitoring and seepage recovery bores

	Yes	N/A	Document name or section
a minimum seek to establish: - background groundwater quality, groundwater levels (in mAHD and mBGL), flow rates, and flow directions - background surface water quality, levels, flow rates and flow direction - local aquifers, and groundwater flow direction and rates of each aquifer (if available) - a monitoring network that acts as an early indicator of seepage contamination in groundwater or surface water prior to offsite migration. Monitoring bores need to be designed and installed to detect seepage at expected depths based on local geology and soil characteristics (before receptors are impacted). For amendments to established TSFs, the operator should: - explain whether any models/assumptions provided in original approval applications are still applicable. - provide a summary of at least the past five years of groundwater monitoring data, identifying and discussing any trends or impacts to receptors, and - provide details on model calibration with real data and management actions to be implemented with timeframes (if applicable). A sampling and analysis quality plan (SAQP) should be prepared to ensure that the data collected are valid, representative, and sufficient to address critical gaps and uncertainties identified in the CSM so that the information obtained provides a reliable basis for continually reviewing site operations and meeting compliance requirements of the operating licence. Further guidance on developing a groundwater and surface water monitoring program, including the development of a SAQP, can be sourced from the Victorian EPA Groundwater Sampling Guidelines and from Schedule B2 of the National Environment Protection (Assessment of Site Contamination) Measure 1999 (ASC NEPM).			
9.2 Dust monitoring Where dust is identified as a potential risk to sensitive receptors (see section 8.1), provide details on the proposed TSF dust monitoring plan including, but not limited to: - locations of residences / other sensitive receptors - monitoring locations - monitoring methodology (i.e. visual, monitoring stations, DustTrak etc.) - monitoring frequency and duration	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 7.2.2 Construction environmental management Section 9.1 Dust management

	Yes	N/A	Document name or section
dust management triggers contingency measures.			Section 10.2 Dust monitoring Figure 3: Premise map and TSF 3 site layout plan
9.3 TSF inspections Provide details on the proposed TSF inspections including, but not limited to: - timing and frequency - erosion and sediment monitoring (including locations, methodology, frequency) - inspection locations / TSF components (i.e. drainage, freeboard, pipelines, vegetation etc.) - DEMIRS inspection requirements outlined in the TSF Operating Manual - relevant tenement requirements imposed by DEMIRS.	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Section 10.3 TSF Inspections

Attachments			
9.4 Attachment 9: Monitoring locations Provide layout figure(s) of the proposed monitoring locations (with GPS coordinates) including, but not limited to: - monitoring bore locations (including groundwater, seepage and recovery bores) clearly numbered / labelled - surface water monitoring locations - dust monitoring locations - vegetation monitoring locations (where justified based on risk).	X	☐	Supporting document (Sino Iron Project Mine Site L8308 - Works Approval TSF3) Figure 3: Premise map and TSF 3 site layout plan

Appendix 1 - Example Conceptual Site Model (CSM) table

Source / Activities	Potential emissions, pollutants, or contaminants of concern	Potential pathway	Potential receptors	Potential impacts	Proposed controls and contingencies
TSF-Cell 1 (deposition of tailings)	TSF-Cell 1 supernatant potentially containing concentrations of substances with environmental significance such as cyanide, or arsenic.	Seepage / infiltration.	Underlying groundwater (20 mBGL) low salinity (potable)	Groundwater contamination	Groundwater modelling, underdrainage, monitoring bores and recovery bores, specified management triggers and contingency actions.
			Groundwater users located at Green Town, 500 metres away	Public health impacts	
		Groundwater mounding, seepage expression.	Native vegetation adjacent to TSF and beside Blue Creek. Surface water (specifically Blue Creek located 200 m south of the southern embankment of the TSF-Cell 1.	Reduced surface water quality, and ecosystem disturbance. /	
Decant pipeline and/or tailings delivery pipeline failure.	Decant water potentially containing concentrations of substances with environmental significance such as cyanide.	Direct discharge Infiltration into soil or groundwater.	Surface water (specifically Blue Creek located 200 m south of the southern embankment of the TSF-Cell 1.	Reduced surface water quality, and ecosystem disturbance.	Telemetry, auto cut-offs, visual monitoring, Clean up response, reporting, spill containment measures
			Native vegetation adjacent to TSF and beside Blue Creek	Reduced vegetation health, and potential loss of vegetation in some areas.	Vegetation monitoring, siting of infrastructure
Stormwater	Sediment-laden runoff. Potentially contaminated stormwater.	Overland runoff.	Surface water (specifically Blue Creek located 200 m south of the southern embankment of the TSF-Cell 1.	Reduced surface water quality, and ecosystem disturbance.	Stormwater infrastructure, diversion drains, trenches, monitoring
			Native vegetation adjacent to TSF and beside Blue Creek	Reduced vegetation health.	Vegetation monitoring, flora surveys
Overtopping of TSF-Cell 1 due to insufficient freeboard capacity.	Tailings potentially containing cyanide or other toxic materials.	Unplanned direct discharge of tailings into the environment.	Underlying groundwater (20 mBGL).	Reduced groundwater quality and impacts to downgradient groundwater users.	Managing water balance, maintaining adequate freeboard, water recovery measures
			Surface water (Specifically Blue Creek located 200 m south of the southern embankment of the TSF-Cell 1	Reduced surface water quality, and ecosystem disturbance / wildlife / aquatic life poisoning.	

<i>Source / Activities</i>	<i>Potential emissions, pollutants, or contaminants of concern</i>	<i>Potential pathway</i>	<i>Potential receptors</i>	<i>Potential impacts</i>	<i>Proposed controls and contingencies</i>
			<i>Native vegetation adjacent to TSF and beside Blue Creek.</i>	<i>Reduced vegetation health, and potential loss of vegetation in some areas.</i>	
<i>Tailings water</i>	<i>WAD Cyanide in tailings water</i> <i>(Tailings water is less than 50,000 TDS and company is not a signatory to the Cyanide Code)</i>	<i>Birds, or bats coming in contact with tailings water</i>	<i>Birds or bats</i>	<i>Poisoning of birds or bats</i>	<i>WAD cyanide monitoring and management consistent with Australian national Leading Practice Handbook on Cyanide Management (Appendices 1-3)</i>
<i>Dust (dried tailings) lift-off from the surface of the TSF-Cell 1, or embankments</i>	<i>Dust (dried tailings) potentially containing toxic materials.</i>	<i>Windblown dust transport through air then deposition.</i>	<i>Native vegetation adjacent to TSF</i>	<i>Potential impact to health of native vegetation from dust deposition and / or dust containing toxic material deposited on soil</i>	<i>Dust monitoring program with predetermined trigger value</i> <i>Contingency measures (dust suppression, ceasing dust generating activities where required)</i>
		<i>Air/wind dispersion, dust inhalation, Contamination of drinking water (roof runoff into rainwater tanks used for water supply). Contamination of home-grown food (from contamination of soil in residents' vegetable gardens, chickens feeding on ground in residents' properties). Amenity impacts from dust soiling surfaces around residents' properties</i>	<i>Nearby residents (500 m away)</i>	<i>Public health / amenity impacts</i>	<i>Ambient air quality monitor in Greentown</i> <i>Sampling for contaminants (dust speciation) and monitoring of rainwater tanks / soil contamination</i>

Attachment 10- TSF 3 Stage 1A-C cost estimation

Stage No.	Stage Title	Responsible	Items	Cost Breakdown	Cost	
TSF3 1A RL 25m	TSF3 Stage 1A RL 25m	Mining	Local Blast C3, Supply C2 From Pit	Costs		
		Construction Contractor	Embankment Construction & Others Construction	Preliminary Costs		
				Direct Costs		
				Subtotal		
		Others	Miscellaneous	Accommodation, Flights & Fuel		
				Instrument & Monitoring System		
				Technical Support & Construction QA		
				Survey		
				Road & Ramp Maintenance		
				Facility and Pipeline		
				Maintenance Cost		
		Contingency 4.93%				
		Total				
TSF3 1B RL 31m		estimate				
TSF3 1B RL 36m		estimate				