



Works Approval

Works approval number W6955/2024/1

Works approval holder Anax Metals Limited
ACN 106 304 787
Registered business address Ground Floor West
20 Kings Park Road
WEST PERTH WA 6005

DWER file number DER2024/000415

Duration 23/10/2024 to 22/10/2027

Date of issue

23/10/2024

Premises details

Whim Creek Copper Project

- Lot 99 on Plan 28276 as shown on Certificate of Title LR3124/975 known as Whim Creek WA 6718, incorporating part of Mining Tenement M4700236, part of Mining Tenement M4700237, part of Mining Tenement M4700238 and part of Exploration Tenement E4703495;
- Lot 69 on Plan 28276 as shown on Certificate of Title LR3113/366 known as 69 North West Coastal Highway, Whim Creek WA 6718, incorporating part of Mining Tenement M4700237, part of Mining Tenement M4700236 and part of Exploration Tenement E4703495; and
- Lot 58 on Plan 189890 as shown on Certificate of Title 1972/692 known as Whim Creek WA 6718, incorporating part of Mining Tenement M4700236 and part of Exploration Tenement E4703495; and
- Mining Tenement M47/443.

North Coastal Highway

WHIM CREEK WA 6718

As defined by the coordinates in Schedule 2

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 12: Screening, etc. of material	500,000 tonnes per annum
Category 85: Sewage facility	45m ³ /day

This works approval is granted to the works approval holder, subject to the attached conditions, on 23 October 2024, by:

**MANAGER, RESOURCE INDUSTRIES
INDUSTRY REGULATION (STATE-WIDE DELIVERY)**

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

Works approval history

Date	Reference number	Summary of changes
23/10/2024	W6955/2024/1	Works approval granted.

Interpretation

In this works approval:

- (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 works approval:
 - (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 works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

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

Construction phase

Infrastructure and equipment

1. The works approval holder must:
 - (a) construct and/or install the infrastructure and/or equipment in accordance with the corresponding design and construction / installation requirements; and
 - (b) at the corresponding infrastructure location; and
 - (c) within the corresponding timeframe, as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
1.	Crushing and Screening Plant	<ul style="list-style-type: none"> • Mobile rock-breaker; • Excavator; • Super-Grid 3 screen (Super-Grid 3); • i44 McCloskey impactor crusher (Impactor); • Precision Screen Triple deck (Precision Screen); and • Front End Loader. <p>Dust controls:</p> <ul style="list-style-type: none"> • Water sprays on Crushing and Screening Plant. <p>Stormwater controls:</p> <ul style="list-style-type: none"> • Water is retained onsite for dust suppression; • Diversion bunds constructed around the stockpiling and laydown area to divert stormwater around the area and capture stormwater that falls onsite within the disturbed area; and • Excess water will be collected in sumps and pumped to the Whim Creek pit if required. 	Schedule 1, Figure 1 and Figure 2	Prior to the submittal of the Environmental Compliance Report required by condition 2
2.	Wastewater Treatment Plant	<ul style="list-style-type: none"> • Activated Sludge Bioreactor WWTP; • Activated Sludge Bioreactor (ASBR) WWTP with enclosed tanks; 	Schedule 1, Figure 1 and Figure 4	

	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
		<ul style="list-style-type: none"> • WWTP control system alarms when operational parameters are outside normal operating conditions; • WWTP will be equipped with a telemetry / instrumentation control room; • Telemetry / instrumentation will include level sensors on the balance tank and treated effluent tanks and high level audible and visual (flashing light) alarms; • Balance tank sized to provide 24 hours buffer at 100% capacity; • Pressure sensors on the treated effluent pipeline will alarm in the event pressure varies outside expected operating parameters indicative of a possible leak, or less likely, blockage; • WWTP provided with Vendor's Premium Instrumentation Package (for Class C / Low Risk effluent), which includes ClearAccess™ or similar remote access with email alerts on alarm conditions. • Treated wastewater quality targeted at the following values: <ul style="list-style-type: none"> ➢ pH 6.5 – 8.5 pH units; ➢ BOD <20 mg/L; ➢ TSS <30 mg/L; ➢ Total Nitrogen <40 mg/L; ➢ Total Phosphorus <10 mg/L; and ➢ E.Coli <1,000 cfu/100mL. 		
3.	Irrigation Field	<ul style="list-style-type: none"> • Irrigation Area will be fenced to prevent ingress of fauna and livestock; • Total nitrogen and total phosphorus loading rates to not exceed 480 kg/ha/yr and 120 kg/ha/yr respectively; • The WWTP will be constructed on a relatively flat area of ground, on a constructed hardstand pad. An earthen bund and small diversion drain will be constructed around the perimeter of the WWTP pad to divert stormwater runoff around the facility; 		

	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
		<p>and</p> <ul style="list-style-type: none"> The irrigation area will be constructed with earthen bunds around the perimeter of the irrigation area to divert stormwater runoff around the irrigation area and are designed to prevent stormwater ingress into the irrigation area. 		
4.	Hydrocarbon / chemical storage	<ul style="list-style-type: none"> Hydrocarbon storage bunded in accordance with requirements of Australian Standards AS1940; Above ground tanks and pipework; Designated refueling bays / designated hydrocarbon and chemical storage areas / designated vehicle and equipment service areas; and Bunded storage. 	Schedule 1, Figure 1	

Compliance reporting

2. The works approval holder must within 7 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:
 - (a) undertake an audit of their compliance with the requirements of condition 1; and
 - (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.
3. The Environmental Compliance Report required by condition 2, must include as a minimum the following:
 - (a) certification by a suitably qualified person that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;
 - (b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and
 - (c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Environmental commissioning phase

Environmental commissioning requirements and emission limits

4. The works approval holder may only commence environmental commissioning of an item of infrastructure identified in condition 5 once the Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 2 and 3 of this works approval.
5. Any environmental commissioning activities undertaken for an item of infrastructure specified in Table 2 may only be carried out:

- (a) In accordance with the corresponding commissioning requirements; and
- (b) For the corresponding authorised commissioning duration.

Table 2: Environmental commissioning requirements

	Infrastructure	Commissioning requirements	Authorised commissioning duration
1.	Wastewater Treatment Plant	<ul style="list-style-type: none"> • The WWTP and treated effluent pipeline will be inspected daily; • Biological treatment phases (anaerobic and aerobic) of the treatment process build to steady state; • Treated effluent will be analysed weekly for comparison against the required performance criteria as set out in Table 1; and • Treated effluent will be stored in tanks in this period and recycled through the plant until sampling demonstrates treatment is achieving the required performance. 	Eight weeks
2.	Irrigation Field	<ul style="list-style-type: none"> • Discharge of effluent to the sprayfield will commence once sample analyses indicates attainment of the plant performance criteria as set out in Table 1; and • Treated wastewater to be discharged evenly across sprayfield to prevent pooling and surface water run-off; and • The irrigation spray field area will be inspected daily. 	

Monitoring during environmental commissioning

- 6. The works approval holder must monitor emissions during environmental commissioning in accordance with Schedule 3, Table 6.
- 7. The works approval holder must record the results of all monitoring activity required by condition 6.
- 8. The works approval holder must submit to the CEO an Environmental Commissioning Report within 60 calendar days of the completion date of environmental commissioning for each item of infrastructure specified in Table 1.
- 9. The works approval holder must ensure the Environmental Commissioning Report required by condition 8 of this works approval includes the following:
 - (a) a summary of the environmental commissioning activities undertaken, including timeframes and the amount of waste rock and sewage processed;
 - (b) the point-source emissions monitoring results recorded in accordance with condition 6 and 7;

- (c) a summary of environmental performance of each item of infrastructure or equipment as constructed or installed (as applicable);
- (d) a review of the works approval holder’s performance and compliance against the conditions of this works approval; and
- (e) where they have not been met, measures proposed to meet the manufacturer’s design specifications and conditions of this works approval, together with timeframes for implementing the proposed measures.

Time limited operations phase

Commencement and duration

- 10.** The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 12:
- (a) Where the item of infrastructure is not authorized to undertake environmental commissioning, the Environmental Compliance report as required by condition 2 has been submitted by the works approval holder for that item of infrastructure; and
 - (b) Where the item of infrastructure is authorized to undertaken environmental commissioning under condition 5, the Environmental Commissioning Report for that item of infrastructure as required by condition 8 has been submitted by the works approval holder.
- 11.** The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 12 (as applicable):
- (a) For a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 10 for that item of infrastructure; or
 - (b) Until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 11(a).

Time limited operations requirements and emission limits

- 12.** During time limited operations, the works approval holder must ensure that the premises infrastructure equipment listed in Table 3 and located at the corresponding infrastructure locations is maintained and operated in accordance with the corresponding operational requirement set out in Table 3.

Table 3: Infrastructure and equipment requirements during time limited operations

	Site infrastructure and equipment	Operational requirement	Infrastructure location
1.	Crushing and Screening Plant	<ul style="list-style-type: none"> • Maintenance of dust controls and stormwater controls. 	Schedule 1, Figure 1 and Figure 2
2.	WWTP	<ul style="list-style-type: none"> • The WWTP and treated effluent pipeline will be inspected daily; and • Treated effluent will be analysed quarterly for comparison 	Schedule 1, Figure 1 and Figure 4

	Site infrastructure and equipment	Operational requirement	Infrastructure location
		against the required performance criteria as set out in Table 1.	
3.	Irrigation Area	<ul style="list-style-type: none"> • Fence maintained around the irrigation area; • Earthen bunds maintained around the perimeter of the irrigation area; • Treated wastewater to be discharged evenly across sprayfield to prevent pooling and surface water run-off; and • The irrigation spray field area will be inspected daily. 	
4.	Hydrocarbon / chemical storage	<ul style="list-style-type: none"> • Monthly inspections of operational areas / storage facilities. 	

Monitoring during time limited operations

13. The works approval holder must monitor emissions during time limited operations in accordance with Condition 6.
14. The works approval holder must record the results of all monitoring activity required by condition 13.

Compliance reporting

15. The works approval holder must submit to the CEO a report on the time limited operations within 60 calendar days of the completion date of time limited operations or 30 calendar days before the expiration date of the works approval, whichever is the sooner.
16. The works approval holder must ensure the report required by condition 15 includes the following:
 - (a) A summary of the time limited operations, including timeframes and amount of waste rock and sewage processed;
 - (b) A summary of the treated effluent water quality results obtained during time limited operations under condition 13;
 - (c) A summary of the environmental performance of all infrastructure as constructed or installed (as applicable);
 - (d) A review of operations performance and compliance against the conditions of the works approval and the Environmental Commissioning Report; and
 - (e) Where the manufacturer's design specifications and the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

Records and reporting (general)

17. The works approval holder must record the following information in relation to complaints received by the works approval 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 works approval holder to investigate or respond to any complaint.

18. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

- (a) the works conducted in accordance with condition 1;
- (b) any maintenance of infrastructure that is performed in the course of complying with condition 1;
- (c) monitoring programmes undertaken in accordance with condition 6 and condition 13; and
- (d) complaints received under condition 17.

19. The books specified under condition 18 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 works approval holder for the duration of the works approval; and
- (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 4 have the meanings defined.

Table 4: Definitions

Term	Definition
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples.</i>
AS/NZS 5667.10	Means the Australian Standard AS/NZS 5667.10:1998 <i>Water quality – Sampling Guidance on sampling of waste waters.</i>
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V Division 3 of the EP Act.
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.
environmental commissioning	means the sequence of activities to be undertaken to test equipment integrity and operation, or to determine the environmental performance, of equipment and infrastructure to establish or test a steady state operation and confirm design specifications.
Environmental Commissioning Report	means a report on any commissioning activities that have taken place and a demonstration that they have concluded, with focus on emissions and discharges, waste containment, and other environmental factors.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	<i>Environmental Protection Act 1986 (WA).</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA).</i>

Term	Definition
premises	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 works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
waste	has the same meaning given to that term under the EP Act.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.
WRD	Waste Rock Dump

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).

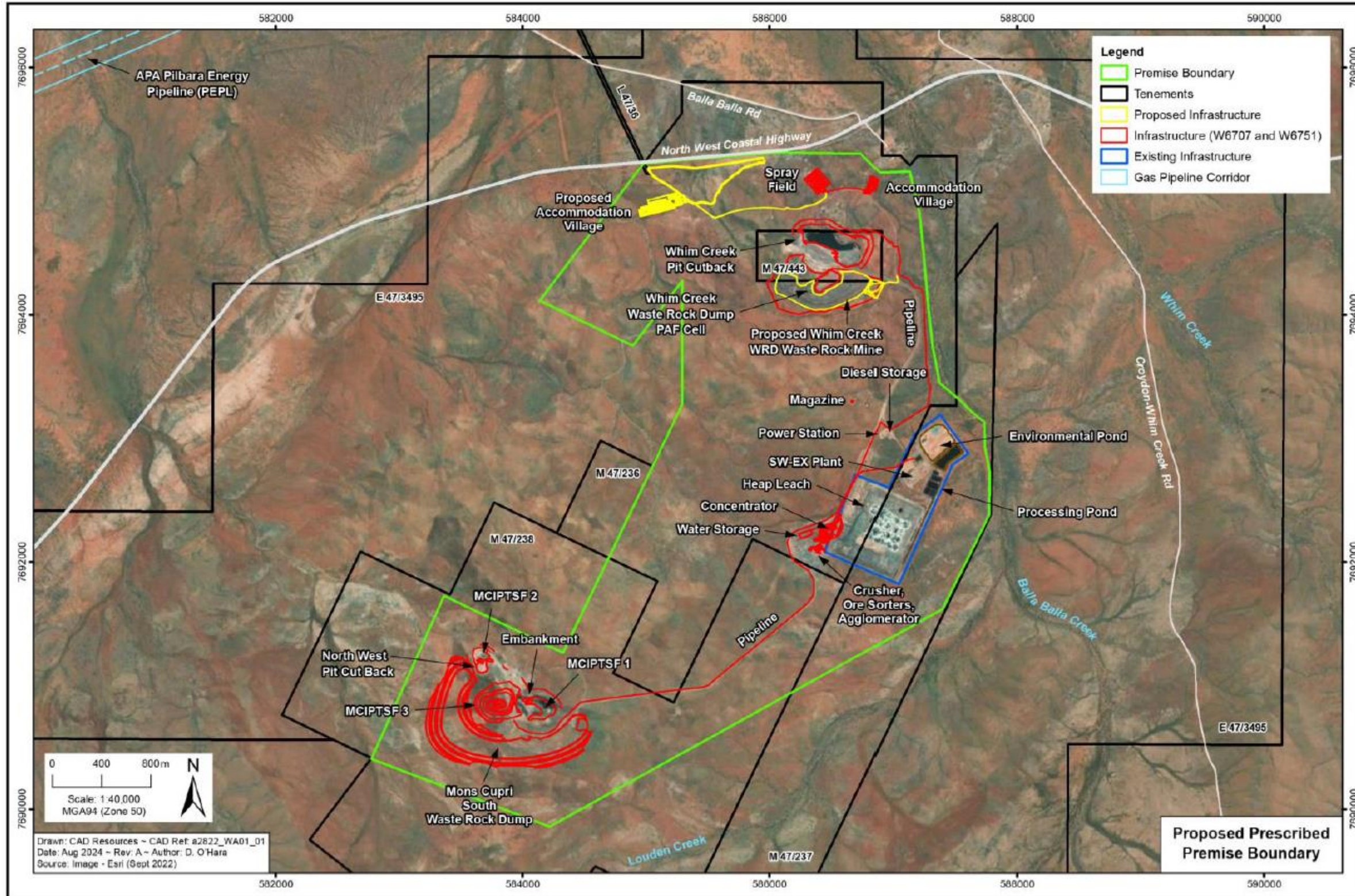


Figure 1: Map of the boundary of the prescribed premises

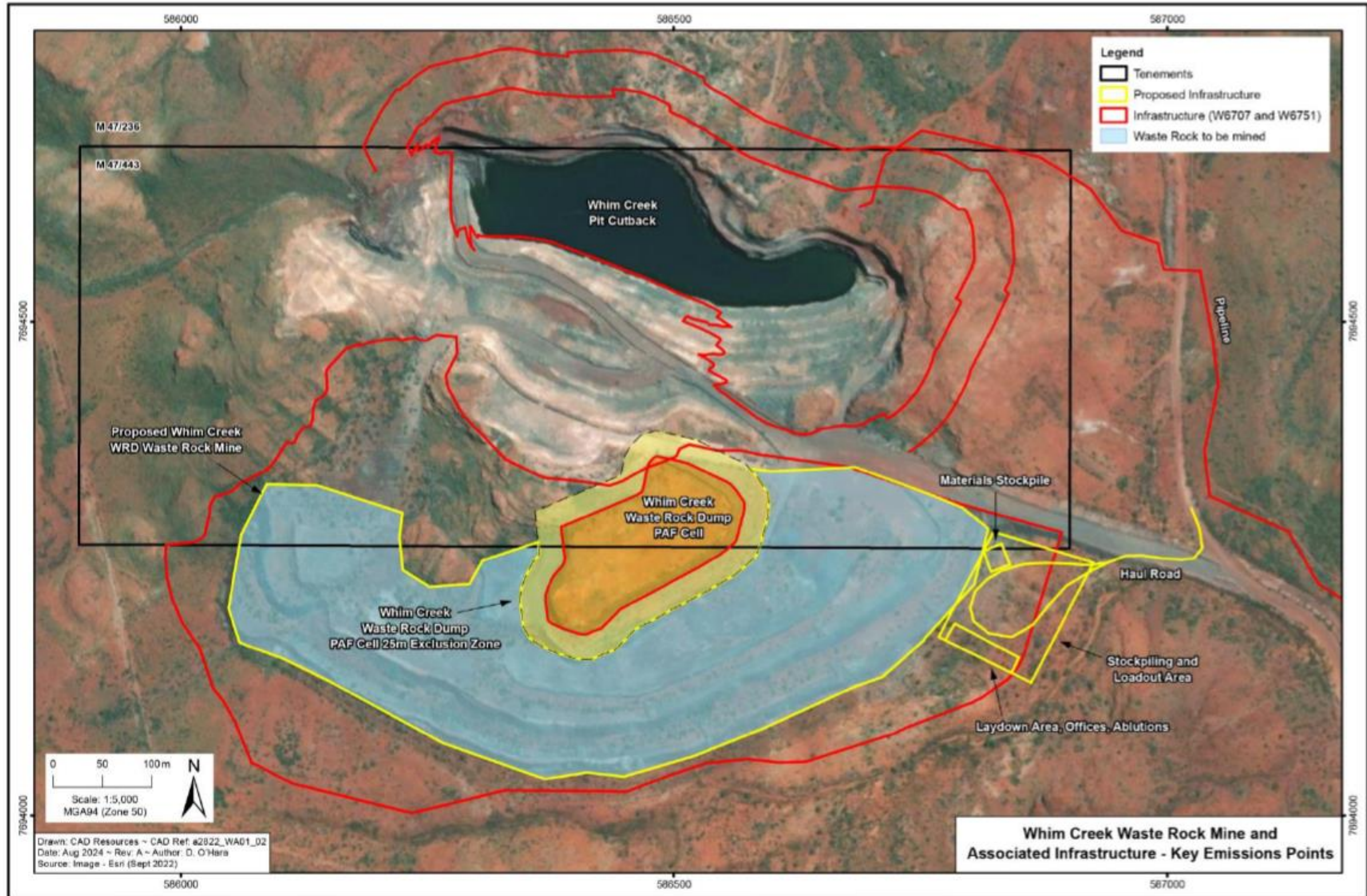
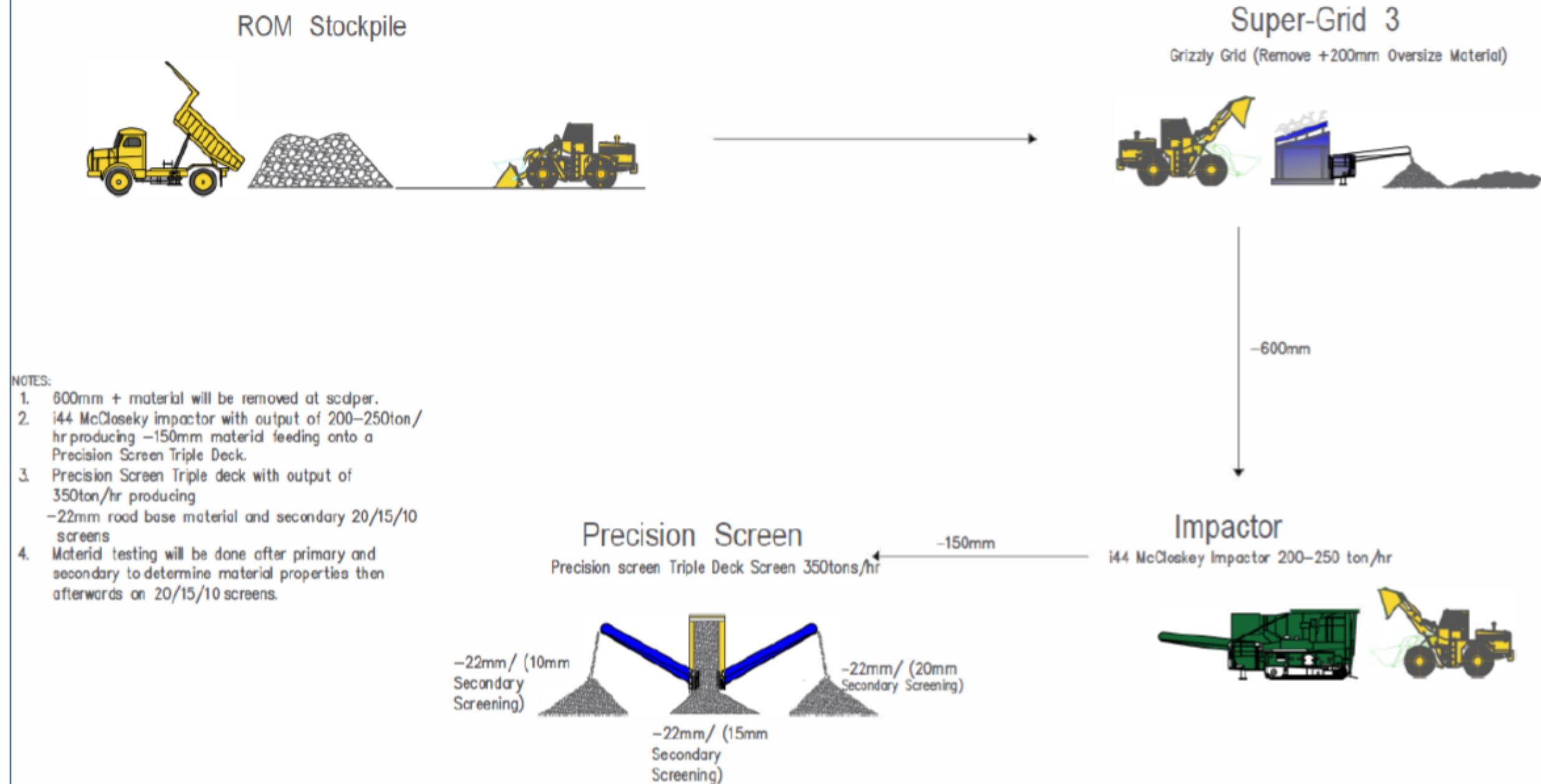


Figure 2: Whim Creek Waste Rock Dump and Associated Infrastructure

Process Flowchart



- NOTES:
1. 600mm + material will be removed at scdper.
 2. i44 McCloskey impactor with output of 200-250ton/hr producing -150mm material feeding onto a Precision Screen Triple Deck.
 3. Precision Screen Triple deck with output of 350ton/hr producing -22mm road base material and secondary 20/15/10 screens
 4. Material testing will be done after primary and secondary to determine material properties then afterwards on 20/15/10 screens.

Figure 3: Crushing and Screening Plant Process Flow Chart

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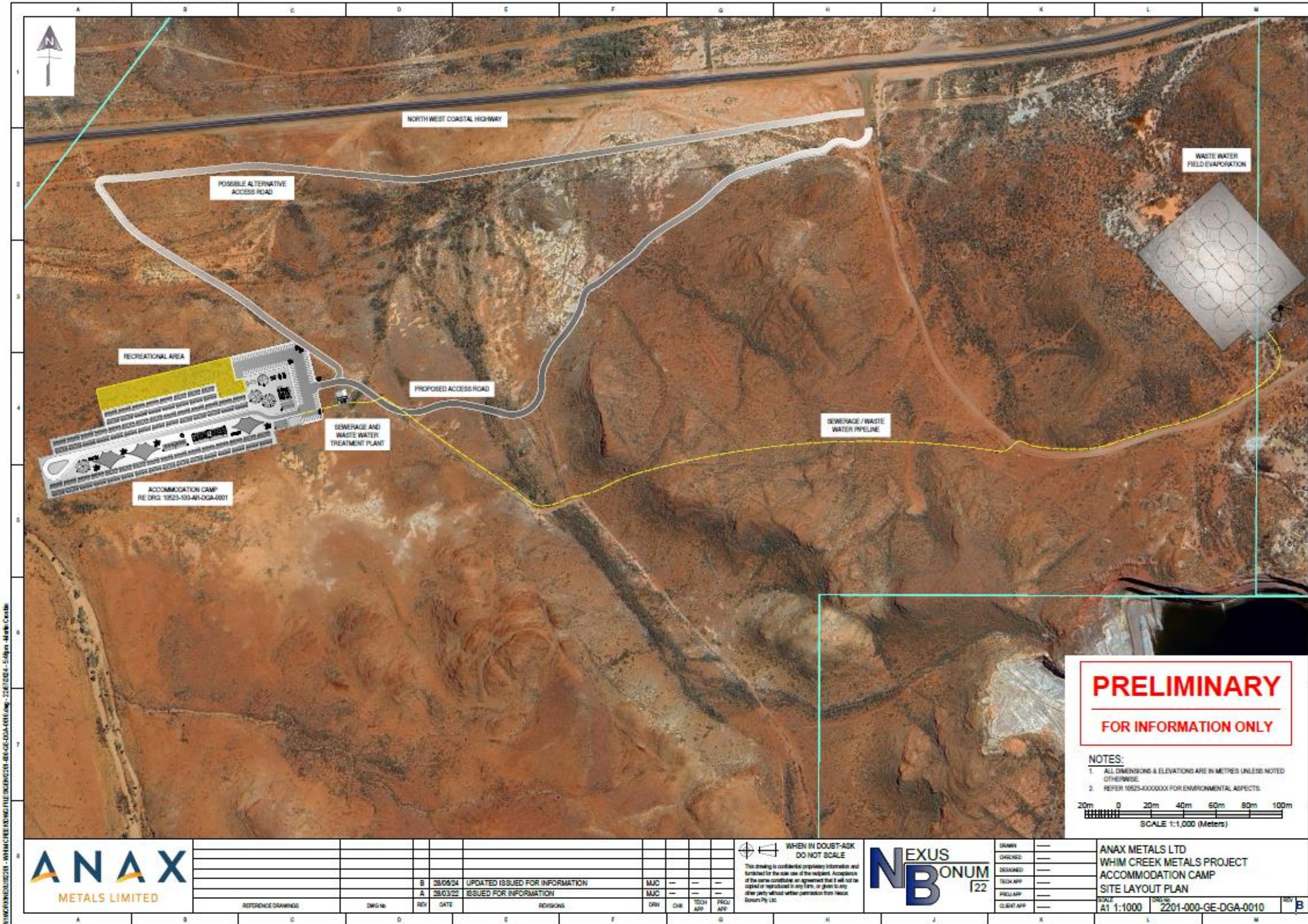


Figure 4: Proposed Accommodation Village, WWTP and Irrigaiton Area

Schedule 2: Premises boundary

The premises boundary is defined by the coordinates in Table 5.

Table 5: Premises boundary coordinates

Easting	Northing
586,738	7,695,302
586,889	7,695,150
587,126	7,695,160
587,204	7,694,826
587,244	7,694,461
587,280	7,694,043
587,315	7,693,731
587,348	7,693,571
587,366	7,693,447
587,506	7,693,332
587,626	7,693,218
587,729	7,693,132
587,735	7,692,927
587,775	7,692,722
587,772	7,692,537
587,769	7,692,380
587,577	7,691,991
587,390	7,691,621
584,221	7,689,859
582,776	7,690,408
583,363	7,691,727
584,320	7,691,271
585,291	7,693,272

585,296	7,694,278
584,894	7,693,751
584,139	7,694,115
584,951	7,695,182
585,206	7,695,205
585,409	7,695,185
585,951	7,695,272
586,124	7,695,290

Schedule 3: Monitoring

Table 6: Emissions and discharges monitoring during environmental commissioning

	Parameter	Monitoring location	Unit	Frequency	Averaging period	Method
1.	pH	Final Irrigation Tank	pH units	Weekly during commissioning for comparison to performance criteria set out in Table 1	Spot sample	AS/NZS 5667.1 AS/NZS 5667.10
2.	BOD		mg/L			
3.	TSS		mg/L			
4.	Total Nitrogen		mg/L	Once weekly monitoring demonstrates that performance criteria is met, frequency relaxed to monthly during commissioning		
5.	Total Phosphorus		mg/L			
6.	E.Coli		Cfu/100ml			