Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W3054/2025/1
Works approval holder	Northern Star Resources (Carosue Dam) Pty Ltd
ACN	116 649 122
Registered business address	Level 4, 500 Hay Street SUBIACO WA 6008
DWER file number	INS-0003054
Duration	20/11/2025 to 19/11/2028
Date of issue	20/11/2025
Premises details	Kurnalpi – Northern Operations Legal description – M28/7, M28/374, M28/375, M28/70, M28/76, M28/84, M28/92, L28/72 As defined by the premises map in Schedule 1

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed production / design capacity**
Category 5: Processing or beneficiation of metallic or non-metallic ore	250,000 tonnes per annual period
Category 6: Mine dewatering premises on which water is extracted and discharged into the environment to allow for mining	320,000 tonnes per annual period
Category 12: Screening etc. of material: premises (other than premises within Category 5 or 8) on which material extracted from the ground is screened, washed, crushed, ground, milled, sized or separated	250,000 tonnes per annual period
Category 63: Class I inert landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled “Landfill Waste Classification and Waste Definitions 1996” published by the Chief Executive Officer and as amended from time to time) is accepted for burial.	4,500 tonnes per annual period (combined throughput)
Category 64: Class II putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled “Landfill Waste Classification and Waste Definitions 1996” published by the Chief Executive Officer and as amended from time to time) is accepted for burial.	

This works approval is granted to the works approval holder, subject to the attached conditions, on 20 November 2025, by:

Jarrod Abrahams

Digitally signed by Jarrod Abrahams
Date: 2025.11.20 16:26:17 +08'00'

MANAGER, RESOURCE INDUSTRIES

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

Works approval history

Date	Reference number	Summary of changes
18/11/2025	W3054/2025/1	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;

(b) in accordance with the corresponding design and construction / installation requirements; and

(c) at the corresponding infrastructure location.

as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Crushing and screening plant consisting of: • Jaw crusher • Cone crusher • Pre-screen • Twin deck include incline screen	a) Dust suppression must be undertaken using a water cart, where required. b) Stormwater drains / bunds must be constructed to direct stormwater around processing infrastructure. c) Diversion channels must be constructed around the perimeter of the ROM pad to divert uncontaminated stormwater runoff. Drainage channels shall be maintained to ensure adequate drainage. d) ROM pad must be graded towards sumps or water storage pond to capture stormwater runoff. Sumps must be equipped with a submersible pump and a level sensor.	Labelled as 'Crushing and screening locations', as shown in Figure 3.
2.	Two double turkey's nests (water dam): - Turkeys nest North - Turkey's nest South	a) Each turkey's nest to be approximately 70m by 150m with a capacity of approximately 10,000 m^3. b) Water storage pond must be constructed with sufficient storage capacity to contain at least a 1% AEP rainfall event for 72 hours and provide a minimum 300 mm total freeboard at all times (approx. 1,300 m^3 of freeboard). c) Water storage pond must be HDPE lined to achieve a minimum permeability of 1 x 10^{-9}m/s; and d) Freeboard marker must be installed at 300 mm below crest level.	Labelled as 'Turkey's Nest Storage Ponds', as shown in Figure 5.

	Infrastructure	Design and construction / installation requirements	Infrastructure location
3.	Dewatering pipelines from North and South Pit to Turkey's Nest	1. Pipeline required to meet the following standards: a) AS/NZS 2033:3008: installation of polyethylene pipe systems; b) AS/NZS 4129:2008: Fitting for polyethylene (PE) pipes for pressure applications; c) AS/NZS 4130:2009 Polyethylene (PE) pipes for pressure applications; and d) AS/NZS 4131:2010: Polyethylene (PE) compounds for pressure pipes and fittings. 2. Pipelines to be: a) Equipped with telemetry systems and pressure sensors along pipelines to allow the detection of leaks and failures; and/or b) Equipped with automatic cut-outs in the event of a pipe failure; and c) Installed with secondary containment (v-drains and scour pits) sufficient to contain any spill for a period equal to the time between routine inspections.	Labelled as 'Discharge Pipelines', as shown in Figure 6.
4	Landfill	a) Constructed within the location shown in Figure 4. b) Landfill design to be developed using unlined trenches with maximum open excavations of approximately 20 m in length, 2 m in depth and 2 m in width. c) The base of the landfill cell must be a minimum 3 m above the highest seasonal groundwater level. a) The base of the landfill cell is to be graded to create a safe and trafficable surface for tipping. b) A ramp is to be constructed for the placement of waste into the landfill. c) The stormwater management system must be designed and constructed to divert stormwater away from the landfill and to retain any direct rainfall that has come into contact with waste on site within the landfill footprint (directed into a sump). d) A 1.8 m high chain-link fence must be installed at the entrance of the landfill to prevent unauthorised access.	Labelled as 'Landfill', as shown in Figure 4.

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		e) Locked gate(s) are to be provided to permit authorised access only.	
5	Water Tanker (cart)	Water tanker / cart to be available and operational during construction activities for dust suppression and material conditioning.	N/A

Compliance reporting

2. The works approval holder must within 30 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 professional engineer 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.

Time limited operations phase

4. The works approval holder must ensure the limits specified in Table 2 are not exceeded.

Table 2: Production or design capacity limits

Category[1]	Category description[1]	Premises production or design capacity limit[1,2]
5	Processing or benefication of metallic or non-metallic ore	250,000 tonnes per annual period
6	Mine dewatering	320,000 tonnes per annual period
12	Screening etc. of material	250,000 tonnes per annual period
63	Class I inert landfill	4,500 tonnes per annual period (combined throughput)
64	Class II or III landfill	

Note 1: *Environmental Protection Regulations 1987*, Schedule 1
Note 2: limits should be applied pro-rata over the time-limited operations phase specified in condition 6.

Commencement and duration

5. The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 1 where the Environmental Compliance Report as required by Condition 2 and 3 has been submitted by the works approval holder for that item of infrastructure.

6. The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 7:

(a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 5 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 6(a).

Time limited operations requirements

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

Table 3: Infrastructure, equipment and requirements during time limited operations

	Site infrastructure and equipment	Operational requirements	Infrastructure location
1.	Crushing and screening facilities	a) Dust suppression system (via watercart) must be operational during operation of the crushing and screening facility. b) Dust suppression must be undertaken using water cart, on Ore and ROM stockpiles. c) Dust suppression (via watercart) on roads and works areas to prevent dust from movement of vehicles and equipment. d) Sump or water storage pond must be maintained to accept stormwater runoff. e) Bunding and/or diversion channels must be maintained around the perimeter of the ROM pad to divert uncontaminated stormwater runoff. f) Dust suppression must be undertaken using water cart, waste rock prior to crushing.	Labelled as 'Crushing and screening locations', as shown in Figure 3.
2.	Turkey's nests	a) Water storage pond embankment, HDPE liner, and storage capacity must be maintained. b) Minimum freeboard of 300 mm must be maintained. c) Water storage pond must be visually inspected at least daily.	Labelled as 'Turkey's Nest Storage Ponds', as shown in Figure 5 and Figure 6.

	Site infrastructure and equipment	Operational requirements	Infrastructure location
3.	Dewatering pipelines and associated infrastructure (i.e. water standpipes, dewatering effluent)	a) Daily visual checks of the integrity of dewatering pipelines when in operation. b) any dewatering effluent used for dust suppression must be used in a manner that does not cause damage to surrounding vegetation. c) All pipelines containing saline water must be: ○ equipped with telemetry systems and pressure sensors along pipelines to allow the detection of leaks and failures; ○ equipped with automatic cut-outs in the event of a pipeline failure; or ○ provided with secondary containment sufficient to contain any spill for a period equal to or greater than the time between routine inspections.	Labelled as 'Discharge Pipelines, Discharge Points and Dam', as shown in Figure 6.
4.	Landfill	a) The landfill cell must only accept waste in accordance with Condition 8. b) The landfilling activities are to be managed to ensure that: (i) The size of the tipping face is kept to a minimum and not larger than 30 m in width and 2 m in height; (ii) Waste is levelled and compacted to an even density at least on a monthly basis; (iii) Putrescible waste must be covered with at least 150mm of clean fill or inert waste type 1 materials on a fortnightly basis. (iv) Contaminated waste must be covered with at least 150mm of clean fill on the same day it is deposited. (v) Waste is placed and compacted to ensure that all faces are stable and capable of retaining restoration material. (vi) A 3m firebreak must be maintained around the boundary of the landfill. (vii) Waste that has been washed,	Labelled as 'Landfill', as shown in Figure 4.

	Site infrastructure and equipment	Operational requirements	Infrastructure location
		or blown, away from the tipping area of the site is returned to the tipping area on a fortnightly basis. (viii) Gates must be locked when the facility is not in use. This includes any periods during which no staff are present on site. (ix) Any firefighting wash-water (and related impacted soils) must be captured and retained on the premises prior to removal to an authorised facility. Note: additional requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations 1987*.	
5.	Stormwater management system	a) Must be diverted around processing infrastructure and the landfill.	Within the prescribed premises boundary shown in Schedule 1, Figure 1.
7.	All processing equipment and Infrastructure (including associated mobile equipment)	a) Maintained as per manufacturer's specification; and b) Ensure suitably stocked spill response equipment is available at all times; c) Any contaminated material arising from spills and leaks (e.g., hydrocarbon contamination soil) must be removed and stored in an impermeable container prior to disposal at an appropriately authorised facility.	N/A

Waste acceptance criteria

8. The works approval holder must only accept onto the landfill premises (as specified in Condition 7) waste of a type that:

(a) does not exceed the rate at which the waste is received; and

(b) meets the relevant acceptance specification,

As set out in Table 4.

Table 4: Waste acceptance criteria

Waste Type	Acceptance specification	Rate at which waste is received
Clean fill and	None specified.	4,500 tonnes per

Waste Type	Acceptance specification	Rate at which waste is received
uncontaminated fill		annual period for all waste types, except tyres and contaminated solid wastes. Tyre disposal is limited to 1,000 tonnes per annum (within the 4,500 overall volume limit) Contaminated solid waste is limited to 500 tonnes per annum (within the 4,500 overall volume limit).
Inert Waste Type 1	Waste containing visible asbestos or ACM shall not be accepted.	
Inert Waste Type 2	Tyres and plastics only	
Putrescible Waste	None Specified.	
Contaminated Solid Waste	Must meet Class II contaminant criteria as outlined in the Landfill Definitions.	

Monitoring during time limited operations

9. The works approval holder must monitor the specified parameters in accordance with Table 5 and record the results of all such monitoring.

Table 5: Monitoring during time limited operations

Emission point reference	Parameter	Frequency	Unit	Method
Discharge dewatering to Turkey's Nests (North and South)	Volumetric flow rate	Continuous	kL	Flow metering device
	Total Dissolved Solids[1]	Monthly[2]	mg/L	AS/NZS 5667.1
	pH[1]		pH units	
Dewatering effluent used for dust suppression	Volumetric flow rate	Continuous	kL	Flow metering device

Note 1: In-field non-NATA accredited analysis permitted for pH measurements.
Note 2: When discharge is occurring during the month

10. The works approval holder shall ensure that:

(a) all water samples that are collected for laboratory analysis are done so in accordance with AS/NZS 5667.1; and

(b) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.

11. The works approval holder shall ensure that monthly monitoring is undertaken at least 15 days apart.

Compliance reporting

12. The works approval holder must submit to the CEO a report on the time limited

operations within 30 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.

13. The works approval holder must ensure the report required by condition 12 includes the following:

(a) a summary of the time limited operations, including timeframes and the volume of dewatering discharged;

(b) a summary of monitoring results obtained during time limited operations under condition 9.

(c) a summary of the environmental performance of all infrastructure as constructed or installed (as applicable), which includes records detailing the:

(i) leaks or failures of the pipelines; and

(ii) the performance of the secondary containment in preventing releases into the environment.

(d) a review of performance and compliance against the conditions of the works approval; 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)

14. 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.

15. 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 and 7;

(c) any inspections required by condition 7;

(d) monitoring programmes undertaken in accordance with condition 9; and

(e) complaints received under condition 14.

16. The books specified under condition 15 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 6 have the meanings defined.

Table 6: Definitions

Term	Definition
AS/NZS 5667.1	means the Australian Standards AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of sampling*
AS/NZS 2033:3008	means the Australian Standard AS/NZS 2033:3008 *Australian Installation of polyethylene pipe systems*
AS/NZS 4129:2008	means the Australian Standard AS/NZS 4129:2008 *Fittings for polyethylene (PE) pipes for pressure applications*
AS/NZS 4130:2009	means the Australian Standard AS/NZS 4130:2009 *Polyethylene (PE) pipes for pressure applications*
AS/NZS 4131:2010	means the Australian Standard AS/NZS 4131:2010 *Polyethylene (PE) compounds for pressure pipes and fittings*
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 *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
Class II landfill	means an unlined landfill designed to accept putrescible and inert wastes for burial
Clean fill	as defined in the Landfill Definitions
Contaminated solid waste	as defined in the Landfill Definitions
Department	means the department established under section 35 of the *Public Sector Management Act 1994* 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 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	*Environmental Protection Act 1986* (WA).

Term	Definition
EP Regulations	*Environmental Protection Regulations 1987* (WA).
Inert waste type 1	as defined in the Landfill Definitions
Inert waste type 2	as defined in the Landfill Definitions
Landfill Definitions	means the *Landfill Waste Classification and Waste Definitions 1996* published by the *Department of Water and Environmental Regulation* (and as amended from time to time)
monthly period	means a one-month period commencing from day seventh of a month until the sixth of the immediately following month.
Putrescible waste	as defined in the Landfill Definitions
premises	the premises to which this works approval applies, as specified at the front of this works approval 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.
Uncontaminated fill	as defined in the Landfill Definitions
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.

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

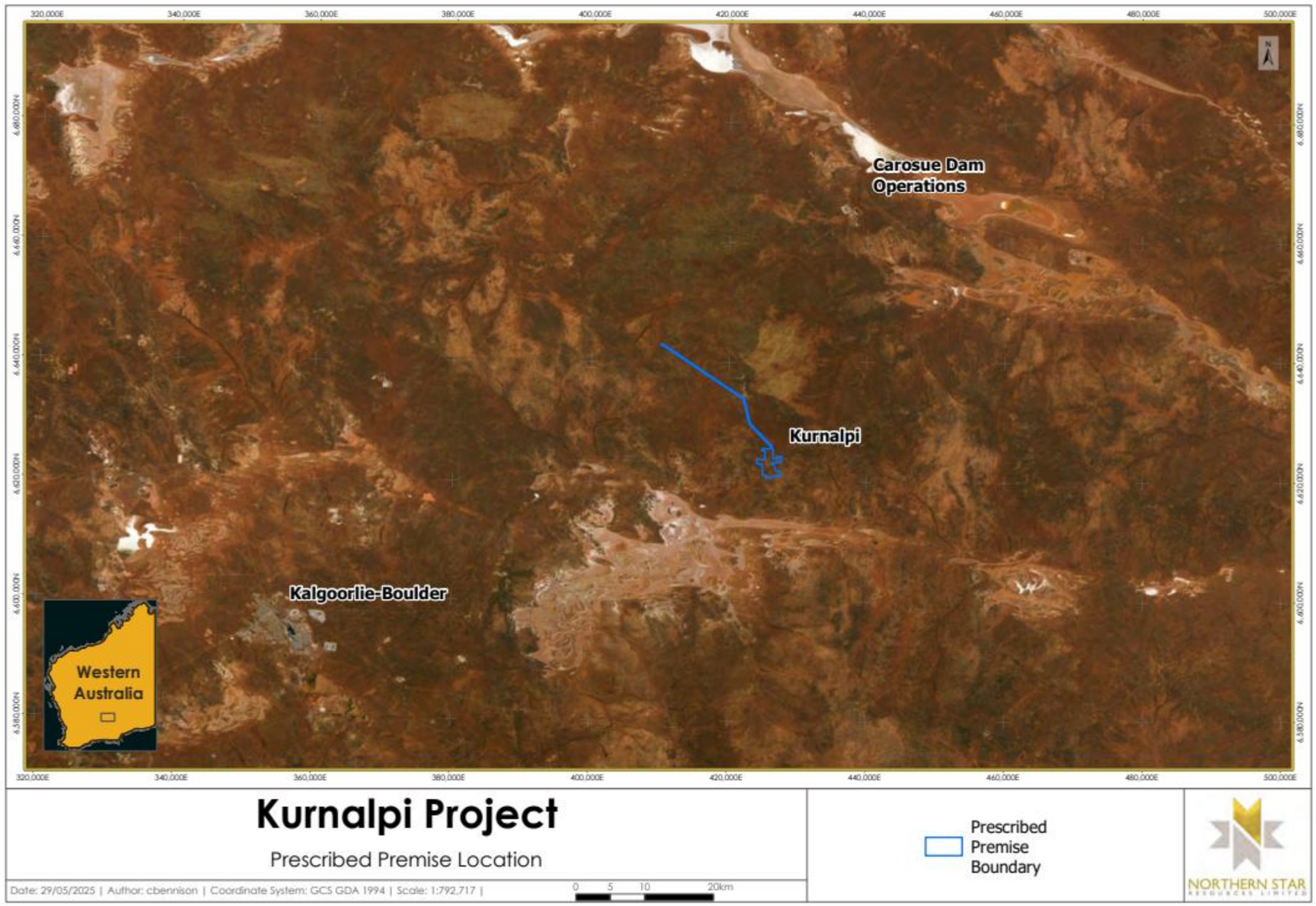

Figure 1: Map of the boundary of the prescribed premises

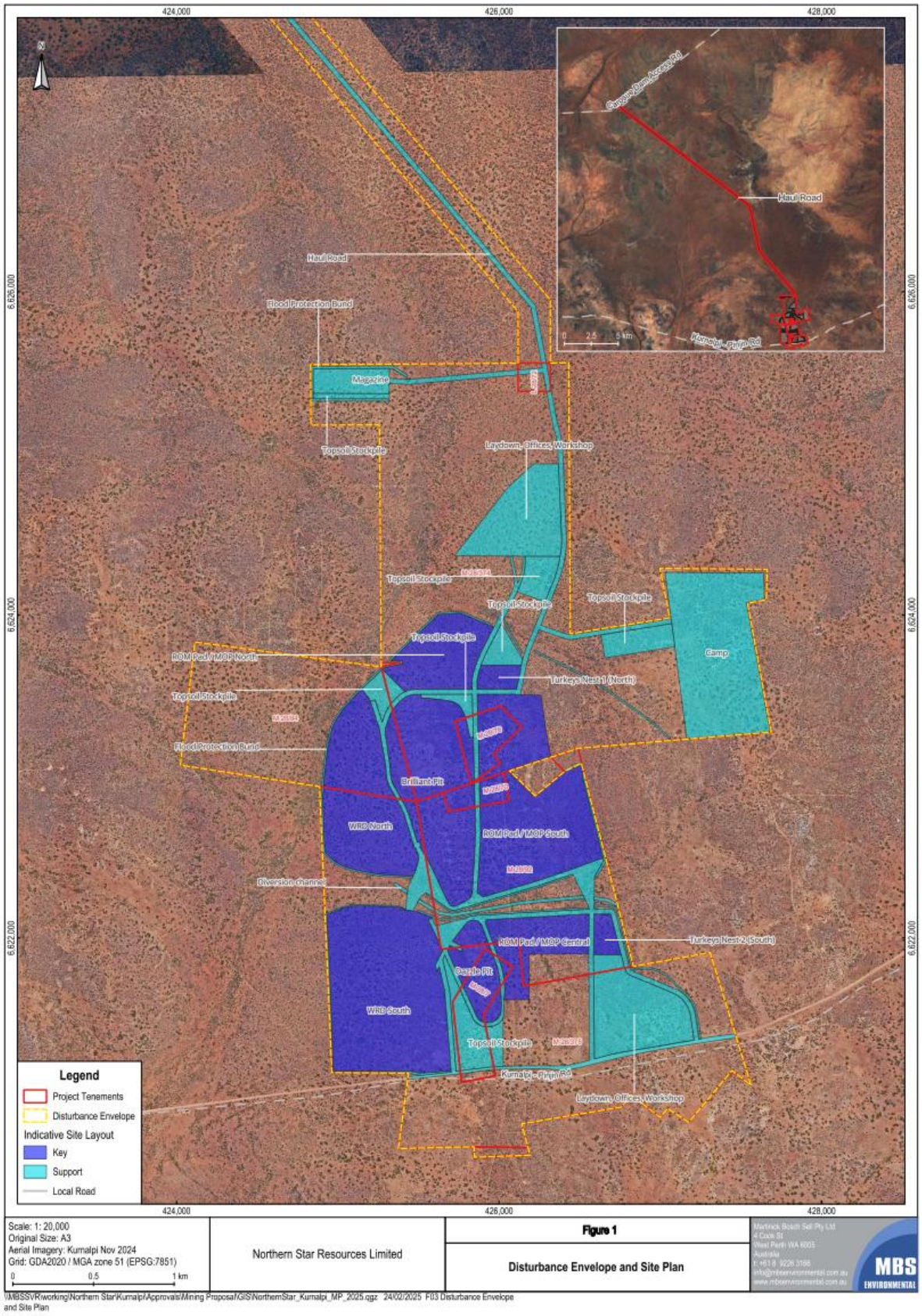

Figure 2: Site Plan

Figure 3: Crushing and screening locations

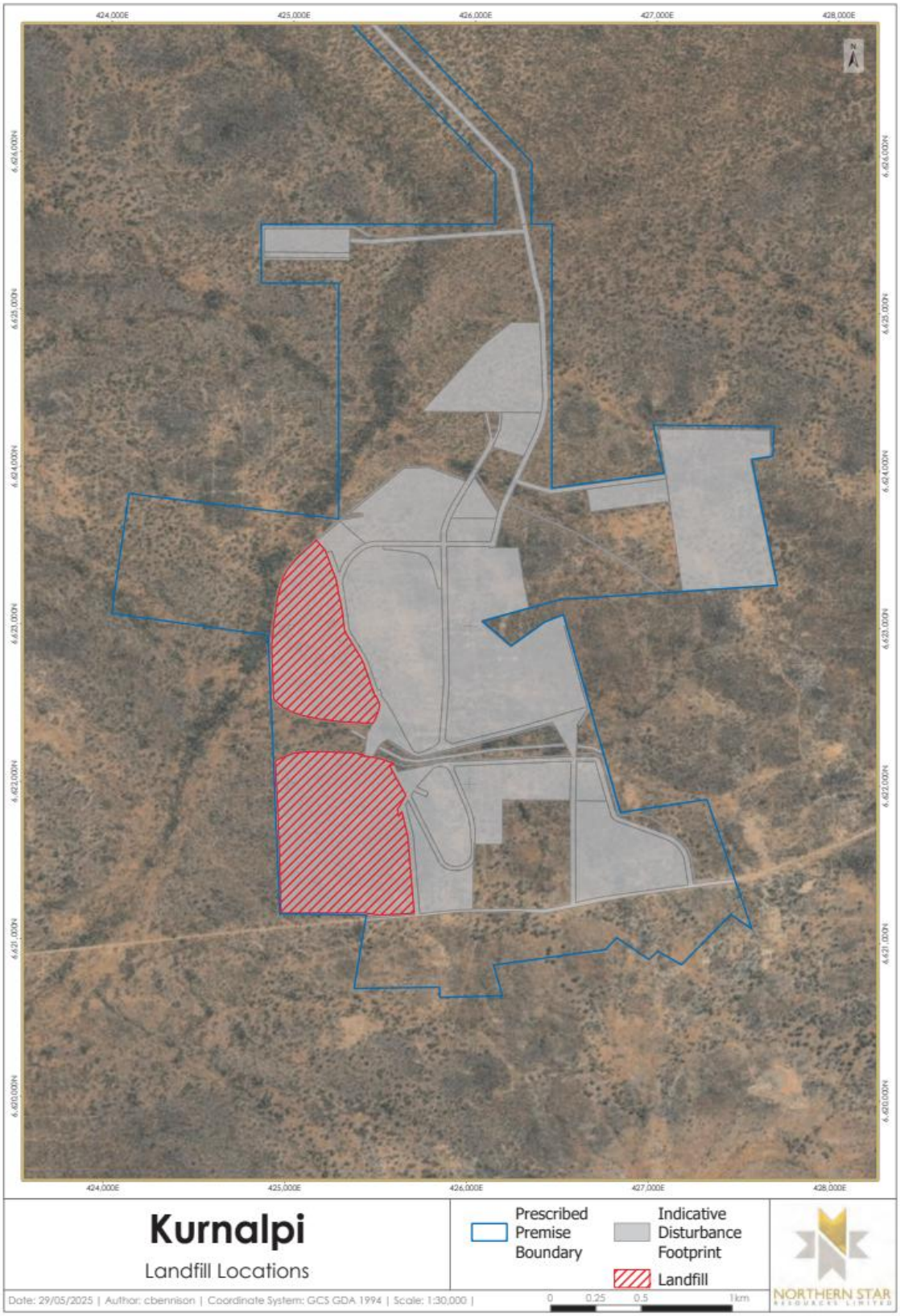

Figure 4: Landfill locations

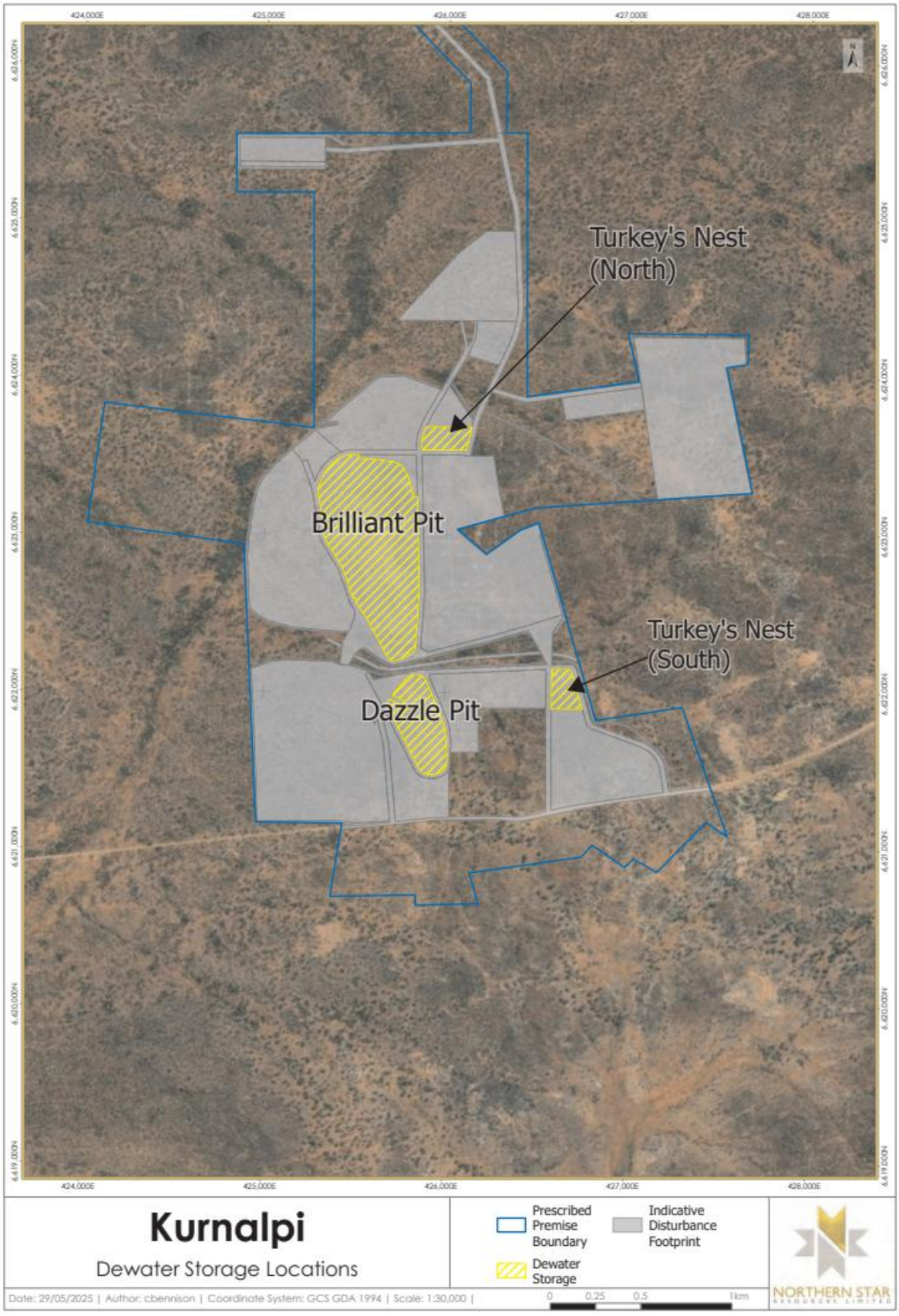

Figure 5: Dewatering Turkey's Nest storage location

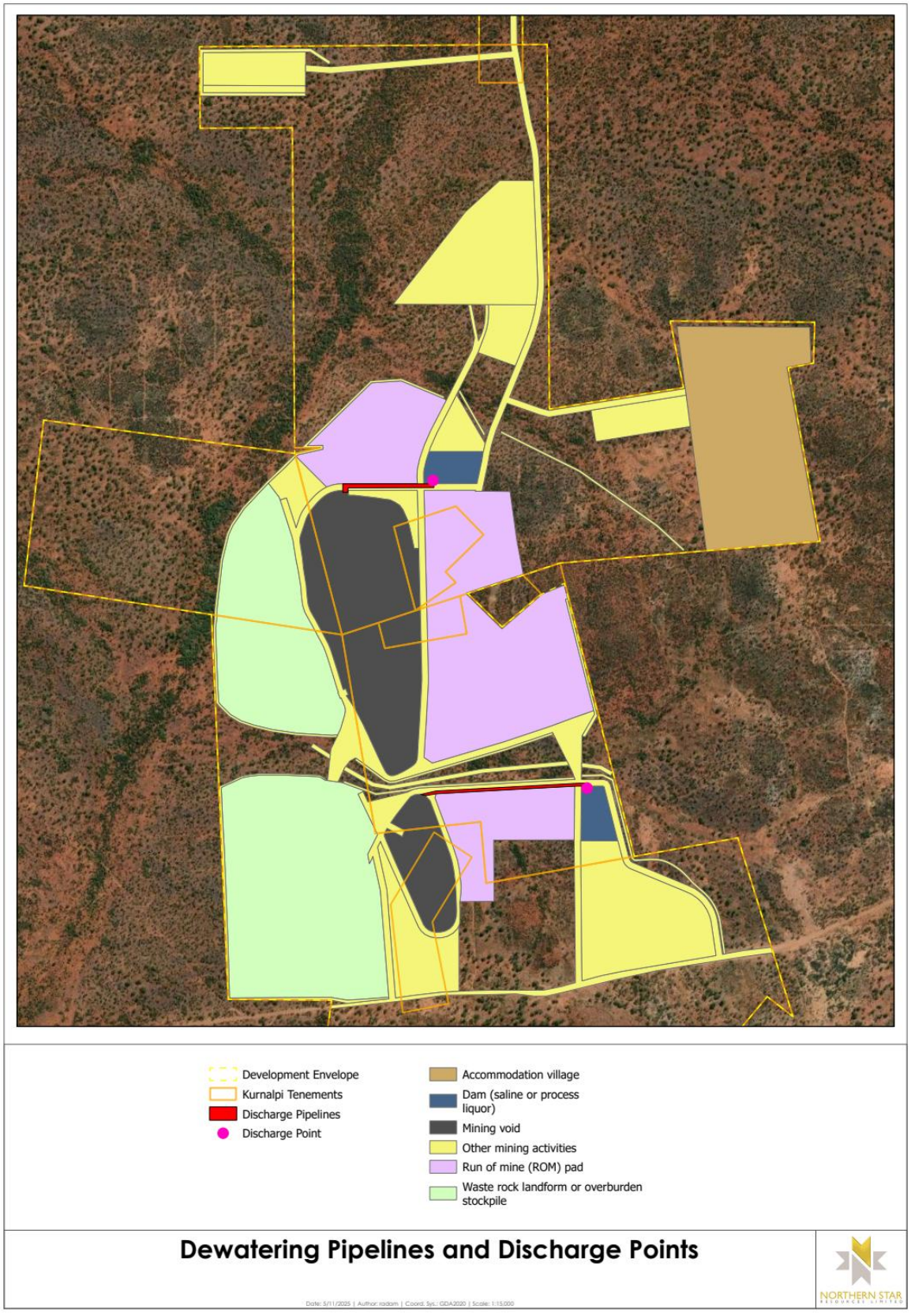

Figure 6: Dewatering and Discharge Points