



Licence number	L5258/1991/11
Licence holder	Pilbara Iron Company (Services) Pty Ltd
ACN (if applicable)	107 210 248
Registered business address	Level 18, Central Park 152-158 St Georges Tce PERTH WA 6000
DWER file number	DER2013/000902-1
Duration	29/05/2011 to 28/05/2025
Issue date	26/05/2011
Date of amendment	06/12/2023
Premises details	Mt Brockman, Nammuldi and Silvergrass Iron Ore Mines AML70/4, ALM70/272, G47/01242, G47/01243, L47/140, L47/388, L47/141, L47/647, LGE G848898, LG848907 and LPL N050438 within co-ordinates: E535363 N7536177; E 544071 N7257202; E553417 N7525629; E548757 N7517535; E538693 N7517627; E531400 N7517644; E527723 N7519096 and E525753 N7531802 MT SHEILA WA 6751

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore	68,000,000 tonnes per annual period
Category 6: Mine dewatering	42,300,000 tonnes per annual period
Category 12: Screening, etc. of material	10,000,000 tonnes per annual period
Category 54: Sewage facility	526 cubic metres per day
Category 64: Class II putrescible landfill site	7,634 tonnes per annual period
Category 73: Bulk storage of chemicals, etc	20,260 cubic metres

This licence is granted to the licence holder, subject to the attached conditions, on 06 December 2023 by:

A/MANAGER, RESOURCE INDUSTRIES

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

Licence history

Date	Reference number	Summary of changes
26 May 2011	L5258/1991/11	Licence reissue
26 May 2016	L5258/1991/11	Amendment to expand the prescribed premises boundary to include new activities associated with Nammuldi; increase the design capacity for Category 5, 12, 54, 64 and 73; include the Brockman waste water treatment plant and fuel hub; include the Nammuldi landfill and remove the Pit 5 dewatering discharge point.
17 October 2016	L5258/1991/11	Amendment Notice 1 Including SGE project crusher, conveyor and fuel storage facilities.
01 June 2017	L5258/1991/11	Amendment Notice 2 Construction and operation of Brockman 2 Mine (B2) new putrescible landfill
24 January 2019	L5258/1991/11	Amendment Notice 3 Construction of a new crushing and screening plant and replacement of the Nammuldi Fixed Plant WWTP
15 May 2020	L5258/1991/11	This amendment for the extension of the expiry date and amalgamation of Amendment Notices 1 – 3.
06/12/2023	L5258/1991/11	DWER initiated amendment to fix the typological error in the production capacity table for category 6 assessed production/design capacity from 42,300,00 tonnes per annual period to 42,300,000 tonnes per annual period.

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:

General

1. The licence holder must only operate the Mobile Crushing and Screening Plant in accordance with the Iron Ore (WA) Mobile Crushing and Screening Management Plan (RTIO-HSE-0235877).

Discharge to land

2. The licence holder must ensure that all effluent discharged consists only of treated sewage and is discharged to the irrigation sprayfield areas depicted in Schedule 1, Figure 2 and Figure 3.

Wastewater treatment plants monitoring

3. The licence holder must record the monthly cumulative volume of treated wastewater being discharged from each WWTP for the purpose of irrigation and this data shall be included in the Annual Environmental Report.
4. The licence holder must for each of the WWTPs collect and have analysed, representative effluent discharge samples for the locations listed in column 1 of Table 1 for the parameters listed in column 2 of Table 1 at the frequency stated in column 3 of Table 1 and present this information in the Annual Environmental Report, including a comparison against the NWQMS 1997 and previous monitoring results.

Table 1: Water quality monitoring requirements for the Mt Brockman, Nummaldi and Silvergrass Fixed Plant WWTPs

Column 1	Column 2	Column 3
Sampling location (Figure 2)	Parameter	Frequency
B2 Village WWTP B2 Mine Admin WWTP Jerriwah Village WWTP Nummaldi Fixed Plant WWTP	Biochemical Oxygen Demand (mg/L)	Quarterly
	Total Suspended Solids (mg/L)	
	pH (pH units) ¹	
	Total Nitrogen (mg/L)	
	Total Phosphorus (mg/L)	
	<i>E.coli</i> (cfu/100mL)	

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

Stormwater management

5. The licence holder must install and maintain mechanisms and facilities detailed in condition 11 to ensure that stormwater from the following areas, is diverted for treatment and disposal or reuse:
 - (a) Process plants;
 - (b) Washdown bays;
 - (c) Refuelling areas;
 - (d) Mechanical workshops;
 - (e) Primary crushing plant shown in Schedule 1, Figure 5; and
 - (f) Fuel Storage Facility shown in Schedule 1, Figure 6.

Surface water discharge outfall

6. The licence holder must ensure that the concentration of Total Recoverable Hydrocarbons in waters discharged from the premises does not exceed 30 mg/L.

Waste fines storage facility groundwater monitoring

7. The licence holder must collect and have analysed representative water samples from the monitoring sites shown in column 1 of Table 2, for the parameters listed in column 2 of Table 2, at the frequencies in column 3 of Table 2.

Table 2: WFSF groundwater monitoring schedule

Column 1	Column 2	Column 3
Sampling location (Schedule 1, Figure 4)	Parameter	Frequency
MB13NAM001 MB13NAM002 MB13NAM003	Depth to water (m) pH ¹ (pH units) Total Dissolved Solids (mg/L)	Quarterly
MB12NAM011 MB12NAM012 MB12NAM014	Electrical Conductivity (µS/cm) ¹ Total Hardness (CaCO ₃) (mg/L) Major Ions (mg/L): Sodium, Potassium, Calcium, Chloride, Magnesium and Sulfate Metals (mg/L): Copper, Iron, Manganese, Arsenic, Cadmium and Chromium	Annually

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

Waste fines storage facility freeboard

8. The licence holder must ensure that at least 300 mm of freeboard is maintained at the main embankment at all times.

Waste management from ancillary operations

9. The licence holder must as soon as practicable, recover, or remove and dispose of, spills of environmentally hazardous materials, including fuel, oil, or other hydrocarbons, whether inside or outside an engineered containment system.
10. The licence holder must ensure that all material used for the recovery, removal, and/or disposal of environmentally hazardous materials is stored in an impermeable container prior to disposal at an approximately authorised facility.

11. The licence holder must have in place, utilise and maintain protective bunding, skimmers, silt traps, neutralisation pits, fuel and oil traps, drains and sealed collection sumps to enable recovery of spillage and protection of surrounding soils and groundwater around the facilities below:
 - (a) Process plants;
 - (b) Maintenance workshops;
 - (c) Laboratory;
 - (d) Primary crushing plant shown in Schedule 1, Figure 5;
 - (e) Fuel storage facility shown in Schedule 1, Figure 6; and
 - (f) Power generation areas.
12. The licence holder shall utilise measures or agents such as quick break detergents, to prevent oil-water emulsions from passing through the separator systems.

Dewatering monitoring

13. The licence holder must only discharge dewatering water from the Duck Creek discharge point as depicted in Schedule 1, Figure 7.
14. The licence holder must, on a monthly basis, measure and record in cubic metres, the cumulative volumes of mine dewatering waters discharged from the Duck Creek discharge point and shall publish the results in the Annual Environmental Report.
15. The licence holder must ensure that all dewatering discharge flows through a gabion outlet at the Duck Creek dewatering discharge point.

Management of putrescible landfill (Schedule 1, Figure 8)

16. The licence holder must bury only the following types of waste within the putrescible landfills:
 - (a) Inert Waste Type 1;
 - (b) Special Waste Type 1;
 - (c) Putrescible waste; and
 - (d) Special Waste Type 2as defined in the Landfill Definitions.
17. The licence holder must ensure that the tipping area of the putrescible landfills is not greater than:
 - (a) 30 m in length; and
 - (b) 2 m above ground level in height.
18. The licence holder must ensure that waste in the tipping area of the putrescible landfills is covered:
 - (a) at least weekly;
 - (b) with a dense (at least 200 mm), inert and incombustible material; and
 - (c) totally, so that no waste is left exposed.
19. The licence holder must ensure that there is no waste within:
 - (a) 100 m of any surface water body at the site; and
 - (b) 3 m of the highest level of the water table aquifer at the putrescible landfill sites.
20. The licence holder must manage stormwater on the putrescible landfill sites so that:
 - (a) it is diverted from areas of the site where there is waste; and
 - (b) water that has come into contact with waste is to be diverted into a sump on the site, or otherwise retained on the site.

Management of waste dump landfill (Schedule 1, Figure 9)

21. The licence holder must only bury the following types of waste within the waste dump landfill facility:
 - (a) Clean Fill as defined in the Landfill Definitions;
 - (b) Inert Waste Type 1 as defined in the Landfill Definitions;
 - (c) Inert Waste Type 2 (tyres only) as defined in the Landfill Definitions; and
 - (d) wooden pallets.
22. The licence holder must ensure that waste in the tipping area of the waste dump landfill is covered with a dense (at least 200 mm), inert and incombustible material at final landform design.
23. The licence holder must ensure that there is no waste within:
 - (a) 100 m of any surface water body at the site; and
 - (b) 3 m of the highest level of the water table aquifer at the waste dump landfill site.
24. The licence holder must manage stormwater on the waste dump landfill site so that water that has come into contact with waste is to be retained on the site.

Management of Special Waste Type 1 and Special Waste Type 2

25. The licence holder must dispose of the waste types listed in column 1 of Table 3 in accordance with the requirements set out in column 2 of Table 3.

Table 3: Special Waste Type 2 Disposal Requirements

Column 1	Column 2
Waste Type	Disposal Requirements
Special Waste Type 1	To be disposed of in sealed bags and within a dedicated trench.
Special Waste Type 2	The location of disposed wastes to be recorded. Immediately cover the waste with a minimum depth of 300 mm of inert and incombustible material.

SGE Conveyor, Primary Crusher and fuel storage facilities

26. The licence holder must ensure that all hydrocarbon impacted waters are treated via an oily water separator prior to discharge onsite.

Construction Nammuldi Brockman Incremental Tonnes Plant (Crushing and Screening Plant)

27. The licence holder must ensure that each item of infrastructure specified in Table 4 is designed and constructed in accordance with the requirements specified.

Table 4: Nammuldi Brockman Incremental Tonnes Plant infrastructures requirements

Column 1	Column 2
Infrastructure	Requirements (design, construction and location)
Nammuldi Brockman Incremental Tonnes Plant - crushing and screening plant	Located as indicated in Schedule 1, Figure 3
	Designed and constructed for processing of 12 million tonnes ore per annum
	The plant is comprised of: <ul style="list-style-type: none"> • Primary crushing module • Screening Module • Secondary Crushing Module • Materials handling module
	Diversion bunds and culverts constructed so that stormwater is diverted and prevented from entering the plant area

- 28.** Subject to condition 27, within 28 days of the completion of the works specified in Table 4, the licence holder must submit to the CEO a Compliance Report certified by a suitably qualified professional engineer that:
- lists and describes the completed works and any associated items of infrastructure and equipment listed in Table 4;
 - certifies whether or not each item of infrastructure or component of infrastructure specified in Table 4 has been constructed with no material defects and to the requirements specified in Table 4;
 - contains 'as constructed' plans for each item of infrastructure or component of infrastructure specified in Table 4;
 - is signed by a person authorised by the licence holder and contains the printed name and position of that person within the company.
- 29.** Where an item of infrastructure or component of infrastructure has been certified as not being constructed, or does not comply with the corresponding requirements, or contains material defects, the licence holder must:
- correct the non-compliant or defective works, prior to re-certifying; or
 - provide to the CEO a description of, and explanation for, any departures from the requirements specified in Table 4 that do not require rectification and do not constitute a material defect along with the Compliance Report.

Records and reporting

- 30.** The licence holder must ensure that:
- all water samples are collected and preserved in accordance with AS/NZS 5667.1, unless indicated otherwise in the relevant table;
 - all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
 - all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
 - 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.
- 31.** The licence holder must ensure that:
- monthly monitoring is undertaken at least 15 days apart;
 - quarterly monitoring is undertaken at least 45 days apart; and
 - six monthly monitoring is undertaken at least 4 months apart.

- 32.** 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.
- 33.** The licence holder must submit to the CEO by no later than 30 April each year, after the end of each annual period, an Annual Environmental Report for that annual period, containing the monitoring results and data collected as a requirement of any condition of this licence.
- 34.** 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 30 April each year, after the end of that annual period, an Annual Audit Compliance Report in the approved form.
- 35.** The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
- (a) the calculation of fees payable in respect of this licence;
 - (b) the works conducted in accordance with condition 27 of this licence;
 - (c) any maintenance of infrastructure that is performed in the course of complying with condition 26 of this licence;
 - (d) monitoring programmes undertaken in accordance with conditions 4, 7 and 14 of this licence; and
 - (e) complaints received under condition 32 of this licence.
- 36.** The books specified under condition 35 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 5 have the meanings defined.

Table 5: 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 January until 31 December in the same year
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 <i>Water Quality – Sampling – Guidance on sampling of waste waters</i>
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 <i>Water Quality – Sampling – Guidance on sampling of groundwaters</i>
books	has the same meaning given to that term under the EP Act
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 unit per 100 millilitres
Clean Fill	has the meaning defined in Landfill Definitions;
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)
freeboard	means the vertical height between the maximum water surface elevations

Term	Definition
	and the top of retaining banks or structures at their lowest point
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” published by the Chief Executive Officer of the Department of Environment and Conservation 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
m	means metres
µS/cm	means micro Siemens per centimetre
mg/L	means milligrams per litre;
mm	means millimetres;
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
NATA	means National Association of Testing Authorities, Australia;
NWQMS 1997	means the most recent version and relevant parts of the “National Water Quality Management Strategy, Australian Guidelines for Sewerage Systems - Effluent Management” as published by the Agriculture and Resource Management Council of Australia and New Zealand and Australian and New Zealand Environment and Conservation Council, 1997
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 Waste	has the meaning defined in Landfill Definitions
quarterly	means the 4 inclusive periods from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September and 1 October to 31 December in the same year
Special Waste Type 1	has the meaning defined in Landfill Definitions
Special Waste Type 2	has the meaning defined in Landfill Definitions

Term	Definition
tipping area	means the area of a landfill where waste is currently being disposed
TRH	Total Recoverable Hydrocarbons
waste	has the same meaning given to that term under the EP Act.
WFSF	means waste fines storage facility
WWTPs	means the B2 Mine Admin, B2 Village, Jerriwah Village and Nammuldi Fixed Plant wastewater treatment plants

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

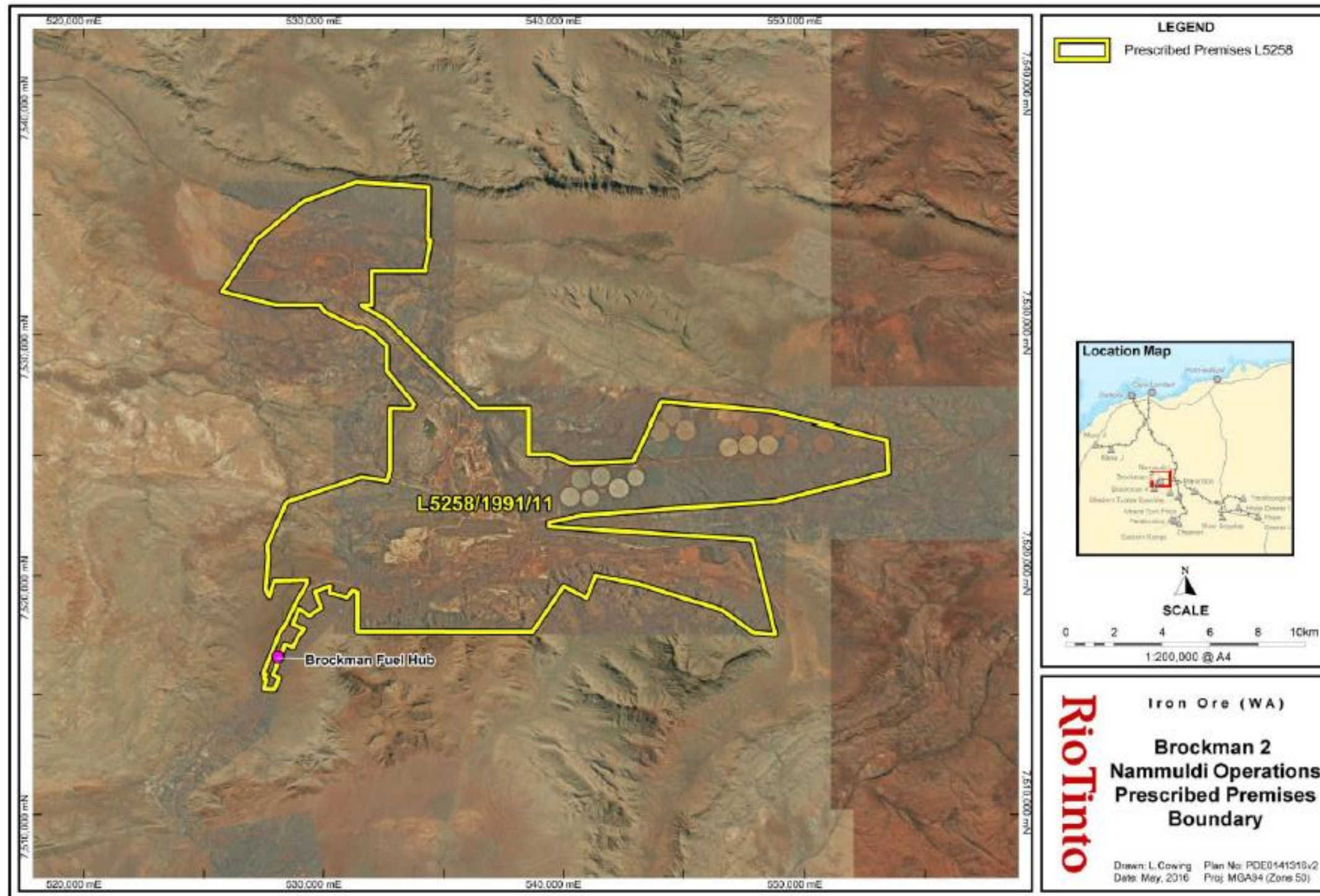


Figure 1: Map of the boundary of the prescribed premises

L5258/1991/11 (Date of Amendment: 06/12/2023)

IR-T06 Licence template (v6.0) (February 2020)

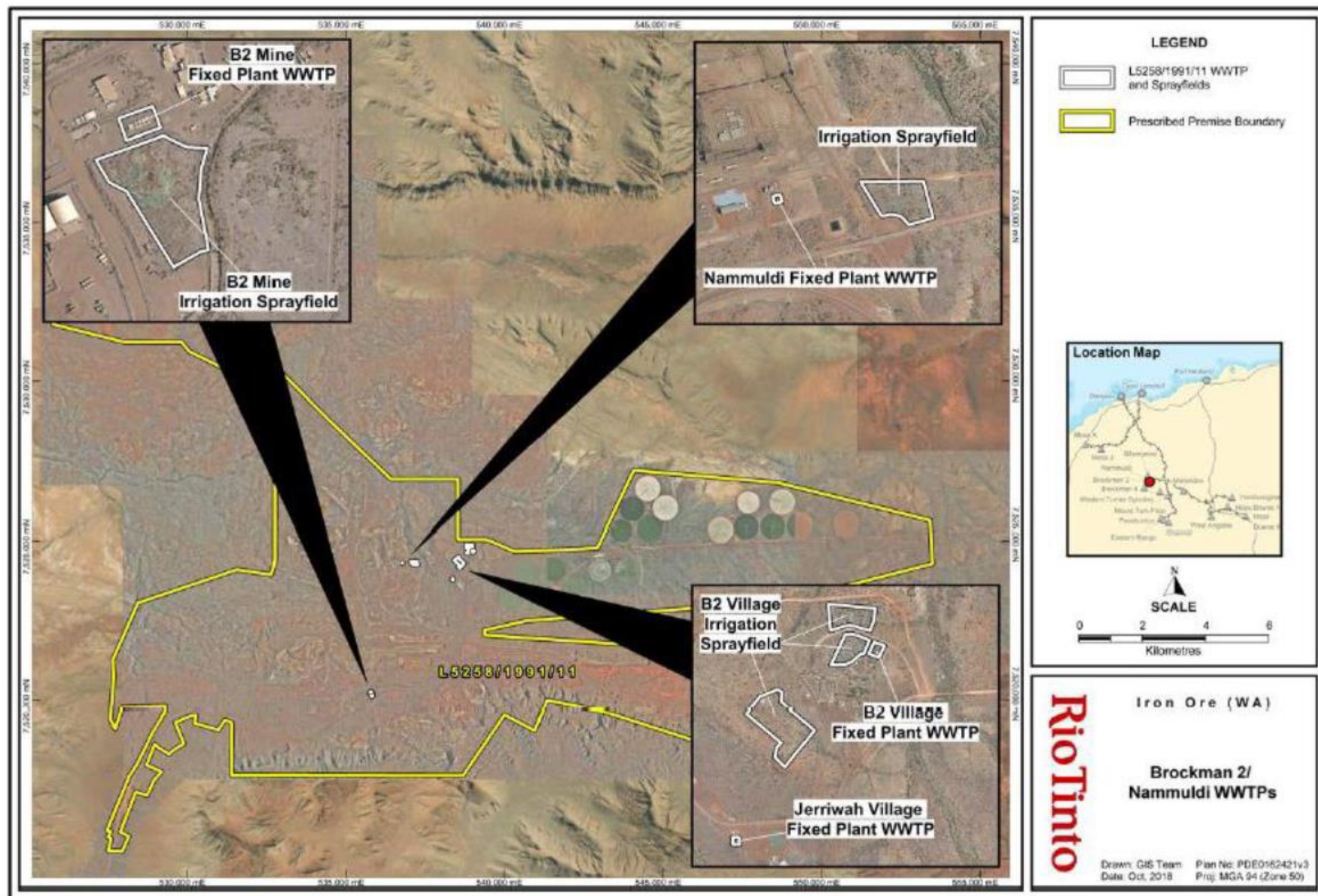


Figure 2: WWTPs and associated irrigation sprayfields

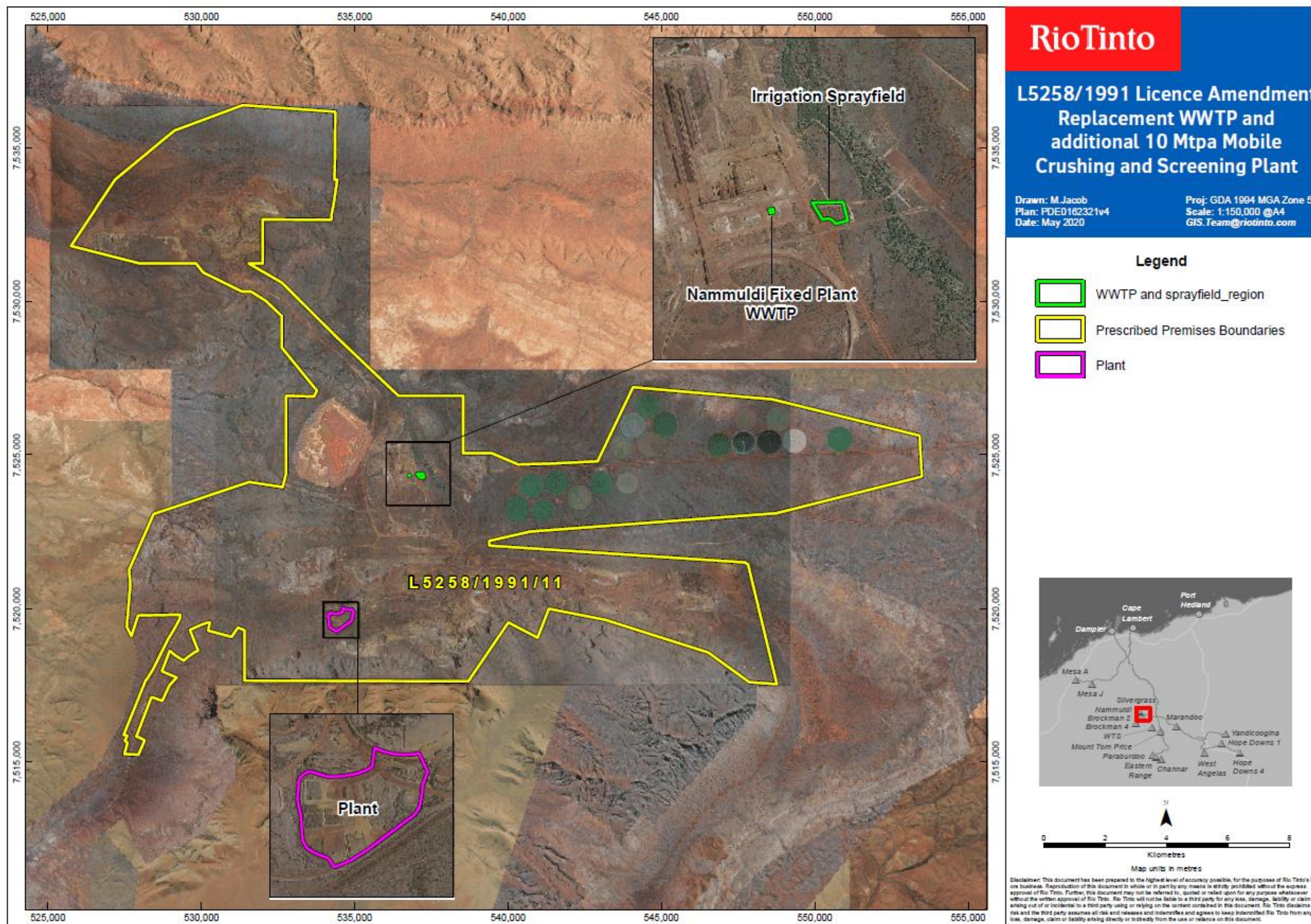


Figure 3: Nammuldi Brockman Incremental Tonnes Plant (named “Plant”) and Nammuldi Fixed Plant WWTP

L5258/1991/11 (Date of Amendment: 06/12/2023)

IR-T06 Licence template (v6.0) (February 2020)

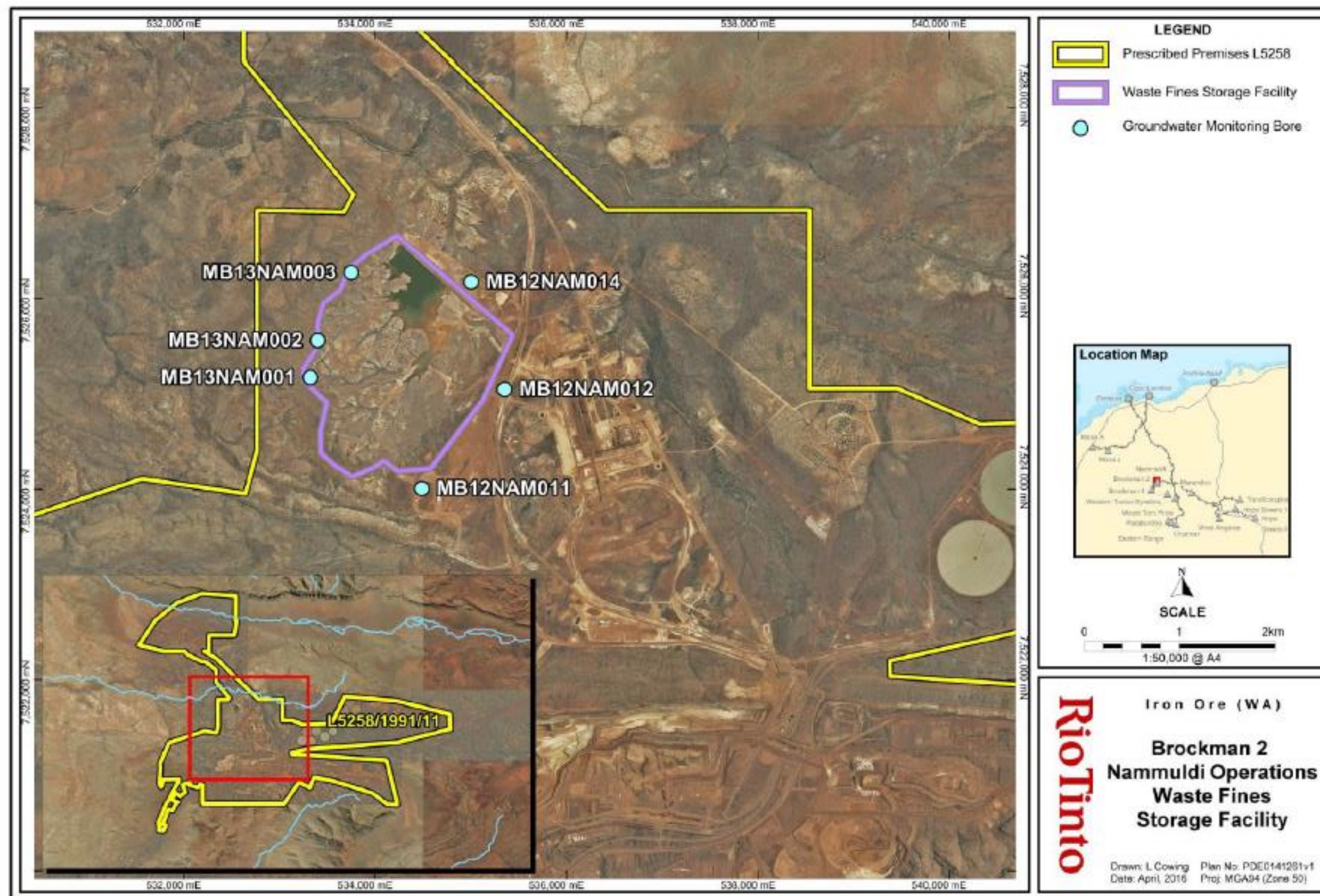


Figure 4: WFSF groundwater monitoring locations

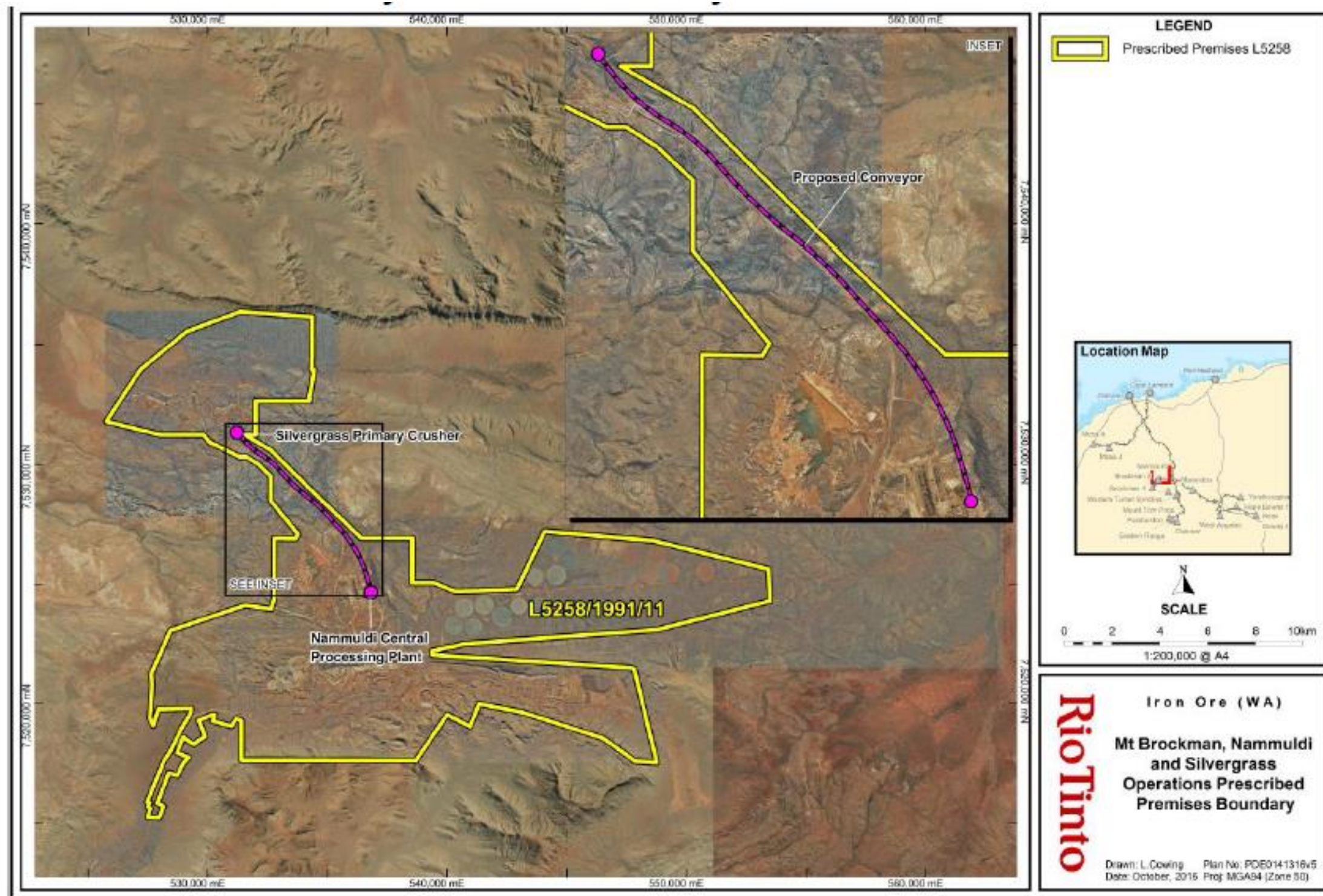


Figure 5: Primary crusher and conveyor

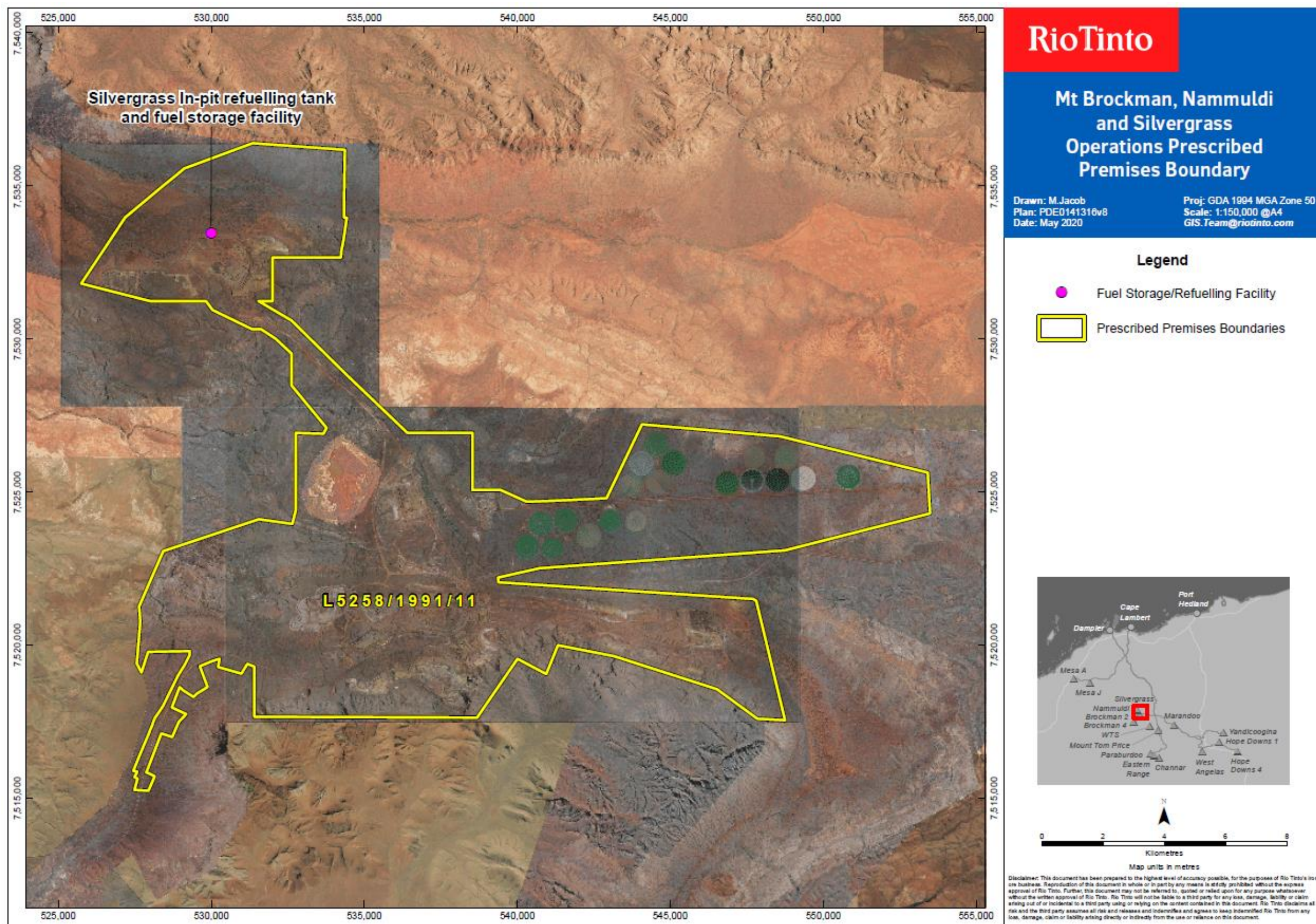


Figure 6: Fuel storage facility

L5258/1991/11 (Date of Amendment: 06/12/2023)

IR-T06 Licence template (v6.0) (February 2020)

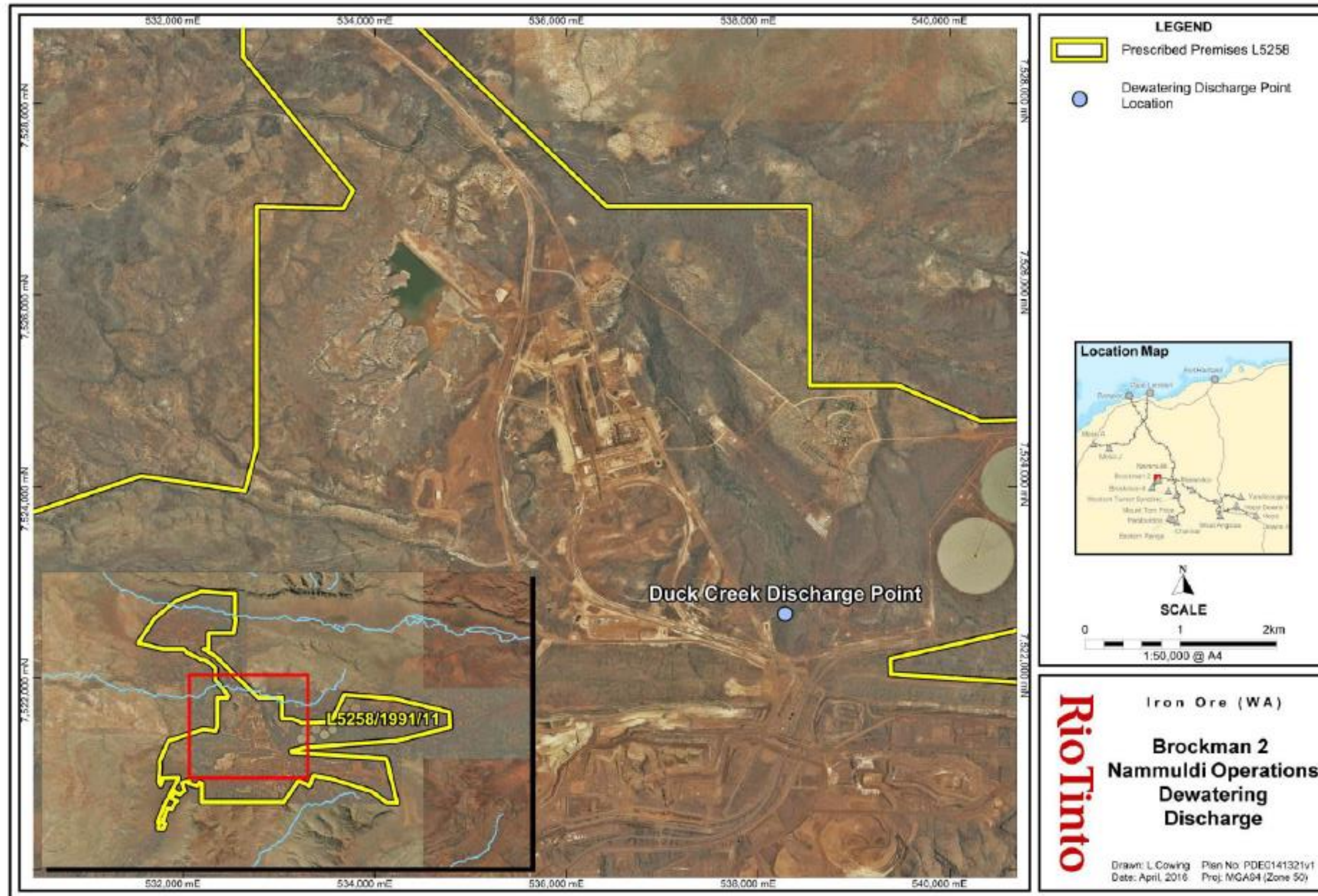


Figure 7: Dewatering monitoring sites

L5258/1991/11 (Date of Amendment: 06/12/2023)

IR-T06 Licence template (v6.0) (February 2020)

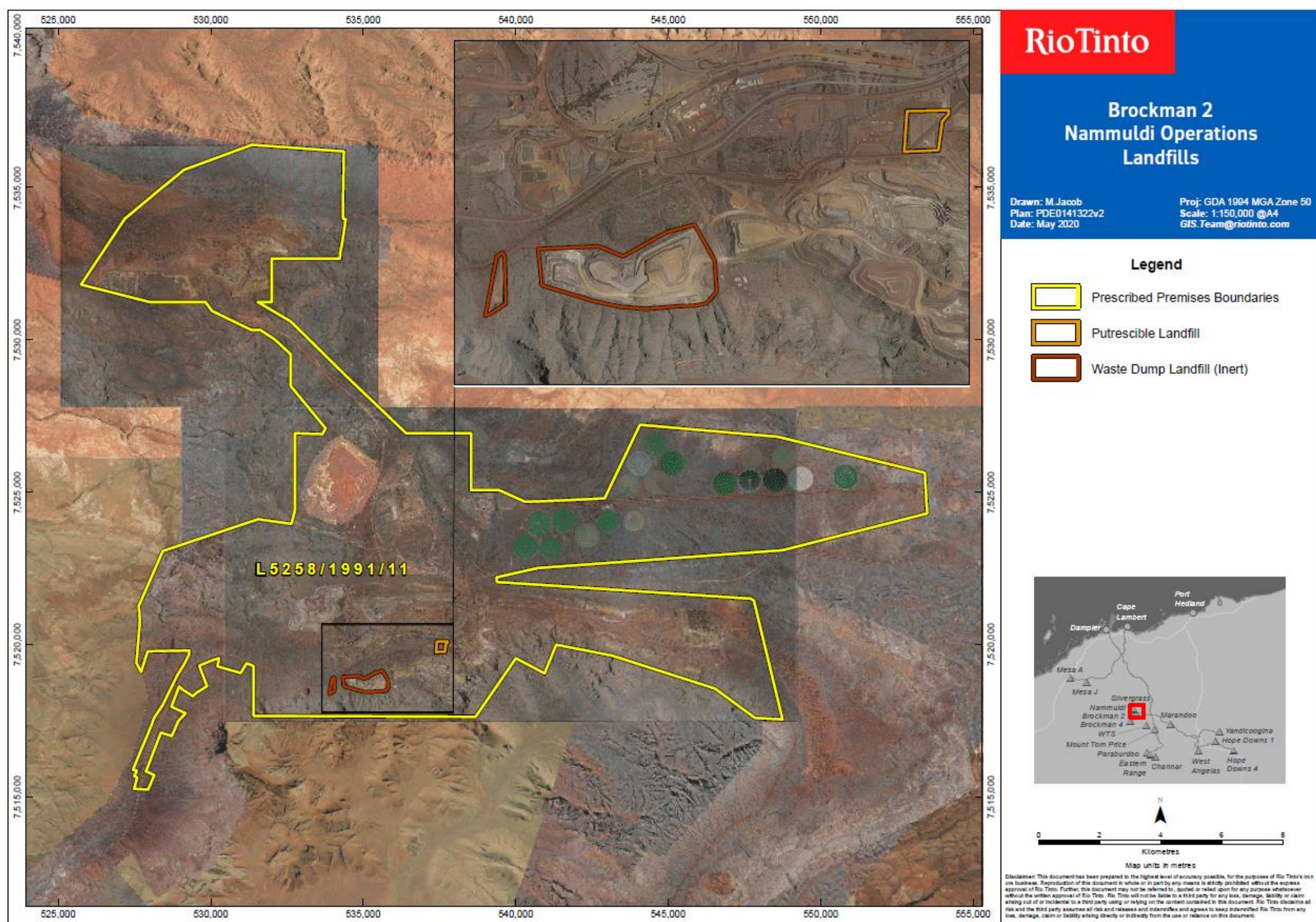


Figure 8: Landfill Locations

L5258/1991/11 (Date of Amendment: 06/12/2023)

IR-T06 Licence template (v6.0) (February 2020)

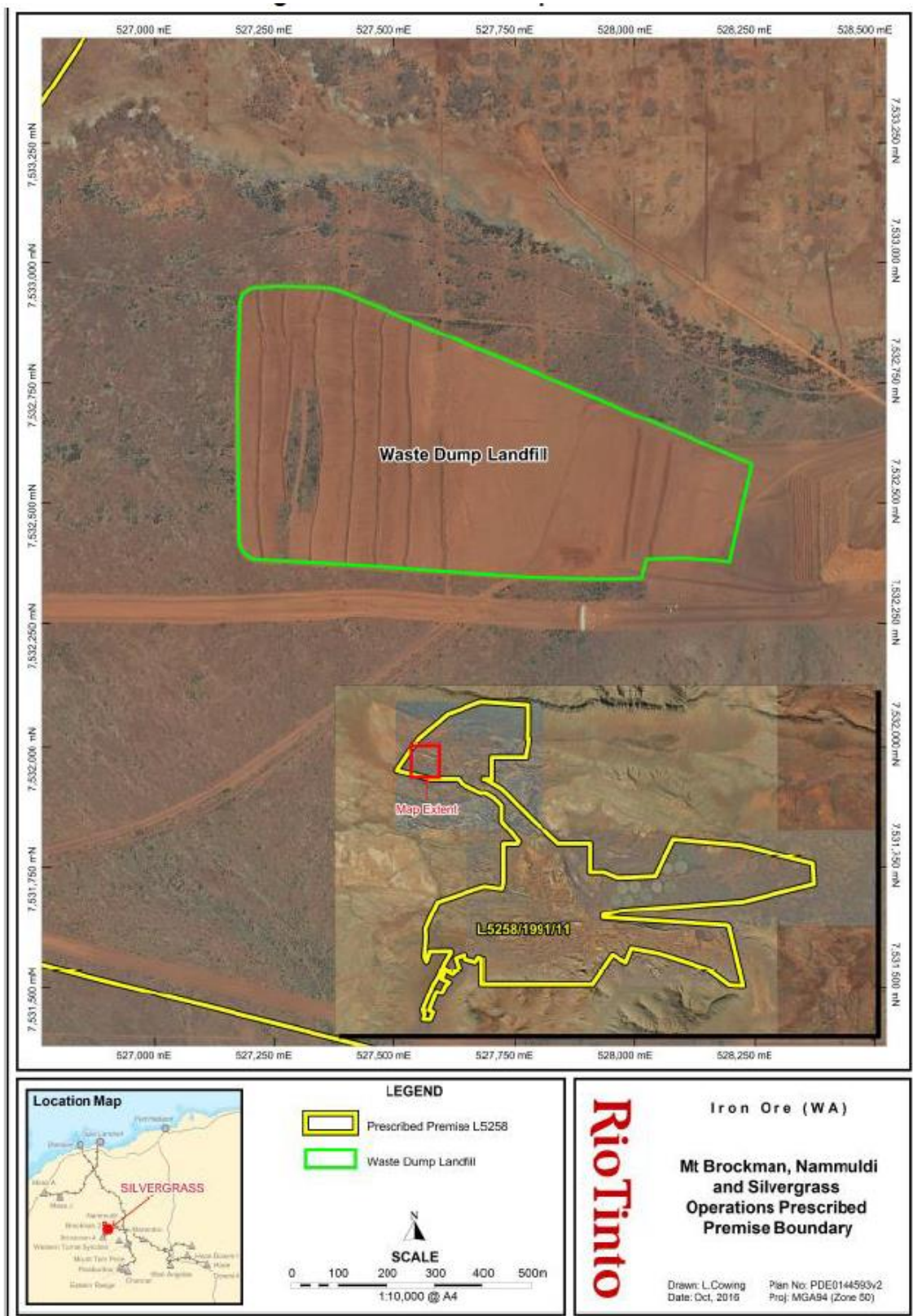


Figure 9: Silvergrass East Waste Dump Landfill

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IR-T06 Licence template (v6.0) (February 2020)