Government of Western Australia
Department of Water and Environmental Regulation

Licence

Licence number	L5258/1991/11
Licence holder	Pilbara Iron Company (Services) Pty Ltd
ACN	107 210 248
Registered business address	Level 18, Central Park 152-158 St Georges Terrace PERTH WA 6000
DWER file number	INS-0001191
Duration	26/05/2011 to 25/05/2030
Date of issue	26/05/2011
Date of amendment	16/03/2026
Premises details	Mt Brockman, Nammuldi and Silvergrass Iron Ore Mines AML70/4, ALM70/272, G47/01242, G47/01243, G47/1269, L47/139, L47/140, L47/141, L47/152, L47/160, L47/647, L47/786, LG848907 and LPL N050438 MT SHEILA WA 6751 As defined by the coordinates in Schedule 2

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	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 57: Used tyre storage (general)	5,000 tyres
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 16 March 2026, by:

Jarrod Abrahams
Digitally signed by Jarrod Abrahams
Date: 2026.03.16 13:48:34 +08'00'

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

Licence history

Date	Reference number	Summary of changes
26/05/2011	L5258/1991/11	Licence reissue.
26/05/2016	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.
17/10/2016	L5258/1991/11	Amendment Notice 1 Including SGE project crusher, conveyor and fuel storage facilities.
01/06/2017	L5258/1991/11	Amendment Notice 2 Construction and operation of Brockman 2 Mine (B2) new putrescible landfill.
24/01/2019	L5258/1991/11	Amendment Notice 3 Construction of a new crushing and screening plant and replacement of the Nammuldi Fixed Plant WWTP.
15/05/2020	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.
19/02/2026	L5258/1991/11	Amendment to include Category 57: Used tyre storage, update premises details, update premises figures and authorisation of a Managed Aquifer Recharge (MAR) scheme.
16/03/2026	L5258/1991/11	DWER initiated amendment to fix the typological error in condition 15 to reference condition 36 rather than ‘condition 0’.

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

Mobile Crushing and Screening Plant

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).

Stormwater management

2. The licence holder must install and maintain mechanisms and facilities detailed in condition 6 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

3. 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 management from ancillary operations

4. 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.

5. 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.

6. 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.

7. The licence holder must utilise measures or agents such as quick break detergents, to prevent oil-water emulsions from passing through the separator systems.

SGE Conveyor, Primary Crusher and fuel storage facilities

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

Used tyre storage

9. The licence holder must ensure that used tyres are stored in accordance with the following requirements:

(a) No more than 5,000 tyres must be stored at the premises at any one time;

(b) Storage areas must be level, clear of vegetation and other combustible material;

(c) A firebreak of at least 3 m in width must be maintained around the boundary of the tyre storage areas;

(d) Storage areas must include bunding and sumps sufficient to contain any water resulting from the fighting of tyre fires, and following the extinguishing of a fire, firewater must be contained to avoid discharges to the environment; and

(e) Used tyres must be stacked on their side walls or if stored on their treads, must be secured with non-combustible material to prevent rolling.

Wastewater treatment plants

Discharge to land

10. 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

11. 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.

12. The licence holder must for each of the WWTPs collect and have analysed, representative effluent discharge samples for each location listed in Table 1, for the corresponding parameter, in the corresponding unit, and at the corresponding frequency as set out in Table 1. The results must be presented 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, Nammuldi and Silvergrass Fixed Plant WWTPs

Sampling location (Schedule 1, Figure 2)	Parameter	Unit	Frequency
B2 Village WWTP B2 Mine Admin WWTP Jerriwah Village WWTP Nammuldi Fixed Plant WWTP	Biochemical Oxygen Demand	mg/L	Quarterly
	Total Suspended Solids	mg/L	
	pH[1]	pH units	
	Total Nitrogen	mg/L	
	Total Phosphorus	mg/L	
	E.coli	cfu/100mL	

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

Waste fines storage facility

Waste fines storage facility groundwater monitoring

13. The licence holder must collect and have analysed representative water samples from the sampling locations listed in Table 2, for the corresponding parameter, in the corresponding unit, and at the corresponding frequency as set out in Table 2.

Table 2: WFSF groundwater monitoring schedule

Sampling location (Schedule 1, Figure 4)	Parameter	Unit	Frequency
MB13NAM001 MB13NAM002 MB13NAM003 MB12NAM011 MB12NAM012 MB12NAM014	Depth to water	mbgl and mAHD	Quarterly
	pH[1]	pH units	
	Total Dissolved Solids	mg/L	
	Electrical Conductivity[1]	µS/cm	Annually
	Total Hardness ($CaCO_3$)	mg/L	
	Major Ions (Sodium, Potassium, Calcium, Chloride, Magnesium and Sulfate)	mg/L	
	Metals (Copper, Iron, Manganese, Arsenic, Cadmium and Chromium)	mg/L	

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

Waste fines storage facility freeboard

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

Dewatering

15. The licence holder must only discharge dewatering water, unless otherwise specified in condition 36, from the Duck Creek discharge point as depicted in Schedule 1, Figure 7.

16. 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 must publish the results in the Annual Environmental Report.

17. The licence holder must ensure that all dewatering discharge flows through a gabion outlet at the Duck Creek dewatering discharge point.

Landfilling activities

Management of putrescible landfill (Schedule 1, Figure 8)

18. 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 2

as defined in the Landfill Definitions.

19. 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.

20. 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.

21. 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.

22. 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)

23. 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.

24. 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.

25. 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.

26. 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

27. The licence holder must dispose of the waste types listed in Table 3 in accordance with the requirements as set out in Table 3.

Table 3: Special Waste Type 2 Disposal Requirements

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

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

28. 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

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: • 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.

29. Subject to condition 28, 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:

(a) lists and describes the completed works and any associated items of infrastructure and equipment listed in Table 4;

(b) 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;

(c) contains 'as constructed' plans for each item of infrastructure or component of infrastructure specified in Table 4; and

(d) is signed by a person authorised by the licence holder and contains the printed name and position of that person within the company.

30. 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:

(a) correct the non-compliant or defective works, prior to re-certifying; or

(b) 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.

Managed Aquifer Recharge Scheme

Construction requirements

31. The licence holder must construct and/or install the infrastructure and/or equipment listed in Table 5, in accordance with;

(a) the corresponding design and construction / installation requirements; and

(b) at the corresponding infrastructure location,

as set out in Table 5.

Table 5: Design and construction / installation requirements

Infrastructure	Design and construction / installation requirements	Infrastructure location
Header pipeline	Must be constructed with: • Automatic cut-outs in the event of a pipe failure; OR • Secondary containment sufficient to contain any spill for a period equal to the time between routine inspections; OR • Telemetry systems and pressure sensors along pipelines to allow detection of leaks and failures.	N/A
Water filtration and treatment system	• Must consist of a primary filtration system, chlorination system and sedimentation pond; • Must contain concrete bunded areas for the storage of chemicals and waste; and • Bunded areas must be capable of containing 110% of the volume of the largest container stored within.	N/A

32. The licence holder must within 30 calendar days of all items of infrastructure and equipment required by condition 31 being constructed and/or installed:

(a) undertake an audit of their compliance with the requirements of conditions 31; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

33. The Environmental Compliance Report required by condition 32, must include as a minimum the following:

(a) certification by a suitably qualified engineer that the items of infrastructure or component(s) thereof, as specified in condition 31, have been constructed in accordance with the relevant requirements specified in condition 31;

(b) as constructed plans and a detailed site plan for the items of infrastructure or component of infrastructure specified in condition 31;

(c) a set of background data for the MAR scheme including background groundwater quality data, surface water quality data, a vegetation health report and stygofauna population health data; and

(d) be signed by a person authorised to represent the licence holder and contains the printed name and position of that person.

34. The licence holder may only commence commissioning and operation of the items of infrastructure identified in condition 35 where the Environmental Compliance Report as required by condition 32 has been submitted by the licence holder.

Operational requirements

35. The licence holder must ensure that the site infrastructure and equipment listed in Table 6 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 6.

Table 6: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
Header pipeline	Must have: • Telemetry systems which are actively monitored and flow deviation to detect leaks or failures. • Automatic shut-off mechanisms which are maintained to ensure functionality. • Routine inspections must be conducted daily to verify the integrity of the pipeline and containment systems.	N/A
Water filtration and treatment system	• All chemicals must be stored within bunded areas capable of containing 110% of the volume of the largest container stored within; • Backflush waste from the screen filter system must be contained within the sedimentation pond; and • Sedimentation pond must maintain a minimum freeboard of 500 mm at all times.	N/A
MAR scheme bores and recharge pads	• Each recharge pad to accommodate four recharge bores and a monitoring bore with a vibrating wire piezometer (VWP); • Pumps must be able to be switched off remotely if required; and • Must have installed a telemetry system.	As shown in Schedule 1, Figure 10
Deep pressurised reinjection bore backflush system	• Must direct backflush to one of three infiltration basins.	N/A
Infiltration basins	• Must maintain a minimum freeboard of 500 mm at all times.	As shown in Schedule 1, Figure 16

36. The licence holder must ensure that only the emissions specified in Table 7, are discharged only from the corresponding discharge point and only at the corresponding discharge point location as part of the MAR scheme.

Table 7: Authorised discharge points for MAR scheme

Emission	Discharge point	Discharge point location
Groundwater (sourced from the Silvergrass East dewatering bores)	MAR scheme injection bores - Valley fill aquifer (shallow)	As shown in Schedule 1, Figure 12, Figure 13 and Figure 14
	MAR scheme injection bores - Fractured rock aquifer (deep)	
Backflush water	Infiltration basins	As shown in Schedule 1, Figure 16
	Sedimentation pond	As shown in Schedule 1, Figure 17

Monitoring requirements

37. The licence holder must monitor emissions in accordance with the requirements specified in Table 8 and record the results of all such monitoring.

Table 8: Emissions and discharge monitoring

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit
MAR scheme injection bores (deep and shallow)	Process measurement station	Reinjection volume	Continuous[2]	Daily	kL
		Temperature			°C
		pH[1]			pH units
		Electrical conductivity[1]			µS/cm
		Turbidity[1]			NTU
		Total suspended solids[1]			mg/L
		Residual chlorine[1]			mg/L
		Nitrate (as N)	Monthly	-	mg/L
		Total recoverable hydrocarbons	Quarterly	-	mg/L
		PFOS	Quarterly	-	mg/L
	Reinjection pad monitoring bores	Surface water level	Continuous	Daily	mbgl

Note 1: In-field non-NATA accredited analysis permitted.
Note 2: Where equipment or communication failures occur for a period of less than two weeks, continuous monitoring data to be calculated by averaging the preceding monitoring period.

38. The licence holder must monitor groundwater concentrations of the identified parameter(s) in accordance with Table 9.

Table 9: Groundwater monitoring of ambient concentrations

Monitoring well location[2]	Parameter	Unit	Trigger value	Frequency	Method
Field measurements					
MB10SILV007 MB10SILV008 MB11SILV016 MB11SILV017 MB11SILV021 MB11SILV023 MB11SILV024 MB11SILV025 MB11SILV027 MB11SILV028 WB24HSTD0001 WB17SILV0003 Reference bores[3] MB11SILV018 MB11SILV019	Standing water level[1]	mbgl and mAHD	-	Each quarterly period	Spot sample, in accordance with AS/NZS 5667.11
	Temperature	°C	-		
	Electrical conductivity (at 25°C)[1]	µS/cm	2,238		
	pH[1]	pH units	-		
	Redox potential[1]	mV	-		
	Dissolved oxygen[1]	mg/L	7.84		
Water quality parameters					
MB10SILV007 MB10SILV008 MB11SILV016 MB11SILV017 MB11SILV021 MB11SILV023 MB11SILV024 MB11SILV025 MB11SILV027 MB11SILV028 WB24HSTD0001 WB17SILV0003 Reference bores[3] MB11SILV018 MB11SILV019	Total Dissolved Solids (TDS)	mg/L	-	Each quarterly period	Spot sample, in accordance with AS/NZS 5667.11
	Total alkalinity (as $CaCO_3$)	mg/L	449		
	Total hardness (as $CaCO_3$)	mg/L	-		
	Calcium	mg/L	-		
	Magnesium	mg/L	-		
	Sodium	mg/L	-		
	Potassium	mg/L	-		
	Carbonate	mg/L	-		
	Bicarbonate	mg/L	-		
	Chloride	mg/L	-		
	Sulfate	mg/L	222		
	Silica	mg/L	-		
	Bromide	mg/L	-		
	Total organic carbon	mg/L	-		
	Residual chlorine	mg/L	-		
	Total	mg/L	-		

Monitoring well location[2]	Parameter	Unit	Trigger value	Frequency	Method
	Nitrogen (TN) as N				
	Nitrate (NO_3) as N	mg/L	-		
	Nitrite (NO_2) as N	mg/L	-		
	Total Kjeldahl Nitrogen (TKN) as N	mg/L	-		
	Ammonia (NH_3) as N	mg/L	-		
	Total Phosphorus (TP) as P	mg/L	0.44		
Metals (dissolved)					
MB10SILV007 MB10SILV008 MB11SILV016 MB11SILV017 MB11SILV021 MB11SILV023 MB11SILV024 MB11SILV025 MB11SILV027 MB11SILV028 WB24HSTD0001 WB17SILV0003 Reference bores[3] MB11SILV018 MB11SILV019	Arsenic	mg/L	0.1	Each quarterly period	Spot sample, in accordance with AS/NZS 5667.11
	Boron	mg/L	-		
	Cadmium	mg/L	0.001		
	Chromium (unspeciated)	mg/L	-		
	Cobalt	mg/L	0.23		
	Copper	mg/L	0.009		
	Iron	mg/L	0.84		
	Ferrous Iron	mg/L	-		
	Lead	mg/L	-		
	Manganese	mg/L	1.9		
	Mercury	mg/L	-		
	Molybdenum	mg/L	0.034		
	Nickel	mg/L	0.018		
	Selenium	mg/L	0.01		
	Uranium	mg/L	0.004		
	Zinc	mg/L	0.086		
Organics					
MB10SILV007 MB10SILV008 MB11SILV016 MB11SILV017 MB11SILV021 MB11SILV023 MB11SILV024 MB11SILV025 MB11SILV027 MB11SILV028 WB24HSTD0001	Total recoverable hydrocarbons	mg/L	0.15	Each quarterly period	Spot sample, in accordance with AS/NZS 5667.11
	Methane (CH_4)	mg/L	-		

Monitoring well location[2]	Parameter	Unit	Trigger value	Frequency	Method
WB17SILV0003 Reference bores[3] MB11SILV018 MB11SILV019					
PFAS					
MB10SILV007 MB10SILV008 MB11SILV016 MB11SILV017 MB11SILV021 MB11SILV023 MB11SILV024 MB11SILV025 MB11SILV027 MB11SILV028 WB24HSTD0001 WB17SILV0003 Reference bores[3] MB11SILV018 MB11SILV019	PFOA	µg/L	-	Each quarterly period	Spot sample, in accordance with AS/NZS 5667.11
	PFOS	µg/L	0.31		
	Sum of PFOS and PFHxS	µg/L	-		
	Total PFAS	µg/L	-		

Note 1: In-field non-NATA accredited analysis permitted.
Note 2: Where a monitoring bore is damaged, destroyed or rendered inaccessible for monitoring purposes, a representative monitoring bore can be used in the interim while a replacement monitoring bore is installed.
Note 3: Trigger values do not apply to reference bores.

Discharge limits and trigger values

39. The licence holder must ensure that emissions from the discharge point listed in Table 10, when monitored at the corresponding monitoring location, for the corresponding parameter do not exceed the corresponding limit when monitored in accordance with condition 37.

Table 10: Emission and discharge limits

Discharge point	Monitoring location	Parameter	Limit
MAR scheme injection bores (deep and shallow)	Process measurement station	Temperature[1]	35.7°C
		pH[1]	pH must be between 6.5 – 8.7
		Residual chlorine[1]	1 mg/L
		Nitrate (as N)	7.6 mg/L
		Total recoverable hydrocarbons	0.15 mg/L
		PFOS	0.31 µg/L

Note 1: The discharge limit is calculated as a 24-hr average period for parameters monitored continuously.

40. In the case of the occurrence of an event as specified in Table 11, the licence holder must take the relevant management action specified in that table.

Table 11: Management actions

Event	Management action
A discharge limit specified within Table 10 is exceeded	(a) The licence holder must begin to investigate the cause of the exceedance within 24 hours of becoming aware of the exceedance; (b) Where the investigation identifies injection water quality has been potentially contaminated, immediately cease discharging via injection or infiltration unless evidence can demonstrate that the contamination[1] has been resolved; and (c) The licence holder must report the investigation to the CEO including proposed resolutions within 30 days.
A trigger value as specified within Table 9 is exceeded for three consecutive monitoring events	(a) The licence holder must investigate the cause of the exceedance; (b) If the cause of the exceedance is determined to be the MAR scheme, the licence holder must determine environmental impact by conducting appropriate assessments[2] (where applicable); and (c) Report the findings of the investigation and any proposed assessments to the CEO within 30 days of becoming aware of the exceedance.
A surface expression of groundwater is found or artesian conditions form within any monitoring or injection bore listed in Table 9 or shown in Schedule 1, Figure 10	(a) The licence holder must cease discharge within 24 hours of being identified; (b) The licence holder must investigate the cause of the event; and (c) The licence holder must report the findings of the investigation to the CEO including proposed mitigation measures within 30 days.

Note 1: Contaminated, means having a substance present in the MAR scheme reinjection water (regulated under conditions of this licence) at concentrations that present, or have the potential to present, a risk of harm to human health, the environment or any environmental value.

Note 2: The licence holder's assessment must be based on the nature and confirmed cause of the trigger value exceedance. Appropriate assessments (if applicable) may include but not be limited to a stygofauna assessment, vegetation health assessment, surface water assessment and fish assemblage assessment.

Records and reporting

41. The licence holder must ensure that:

(a) all water samples are collected and preserved in accordance with AS/NZS 5667.1, unless indicated otherwise in the relevant table;

(b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;

(c) all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and

(d) 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.

42. 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 4 months apart.

43. 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.

44. The licence holder must:

(a) prepare an Environmental Report that provides information in accordance with Table 12 for the preceding annual period, and

(b) submit that Environmental Report to the CEO by 30 April each year.

Table 12: Environmental reporting requirements

Condition	Requirement
-	A tabulated data summary of monitoring results and data collected as a requirement of any condition of this licence.
35	A summary of inspections, maintenance and audits performed to address the requirements of Table 6.
37	(a) A tabulated data summary of monitoring results including cumulative reinjection volumes; (b) An interpretation of monitoring data results including comparison to historical trends; and (c) An update on the performance of the MAR scheme and validation of the hydrogeological and geochemical models.
38	(a) A tabulated data summary of monitoring results; and (b) An interpretation of monitoring data results including comparison to historical trends.
39 and 40	A summary of any exceedance of discharge limits or trigger values and a summary of any actions taken as a result.

45. 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.

46. 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 conditions 28 and 31 of this licence;

(c) any maintenance of infrastructure that is performed in the course of complying with condition 35 of this licence;

(d) monitoring programmes undertaken in accordance with conditions 12, 13, 16, 37 and 38 of this licence; and

(e) complaints received under condition 43 of this licence.

47. The books specified under condition 46 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 13 have the meanings defined.

Table 13: 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 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*
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*
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 *Environmental Protection Act 1986* 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 *Public Sector Management Act 1994* (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	*Environmental Protection Act 1986* (WA)
EP Regulations	*Environmental Protection Regulations 1987* (WA)
freeboard	means the vertical height between the maximum water surface elevations 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 Water and Environmental Regulation as amended from time to time

Term	Definition
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
MAR	means Managed Aquifer Recharge
mAHD	means metres Australian Height Datum
mbgl	means metres below ground level
µg/L	means micrograms per litre
µS/cm	means micro Siemens per centimetre
mg/L	means milligrams per litre
mV	means millivolts
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
NTU	means Nephelometric Turbidity Units
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
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).

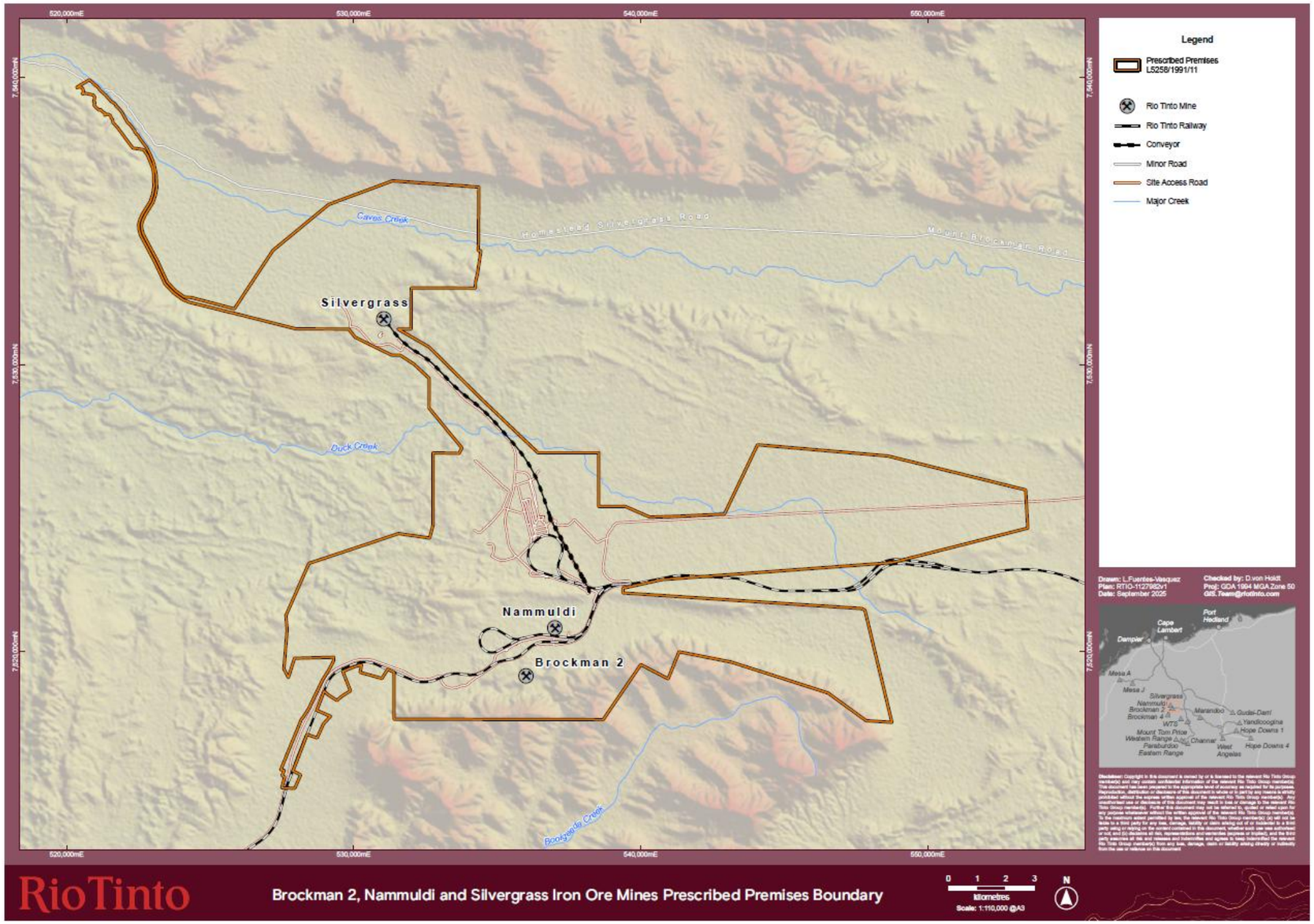

Figure 1: Map of prescribed premises boundary

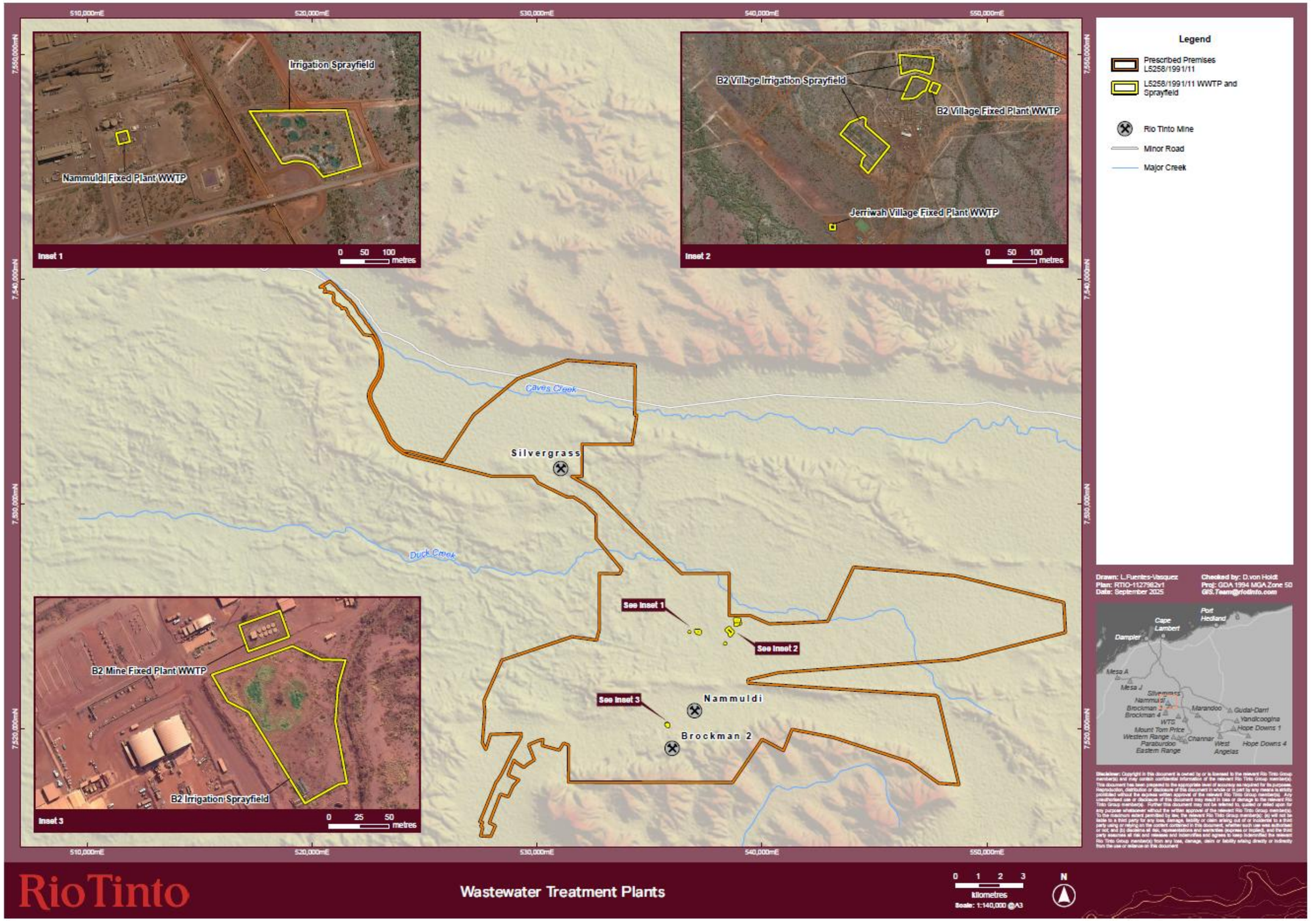

Figure 2: WWTPs and associated irrigation sprayfields

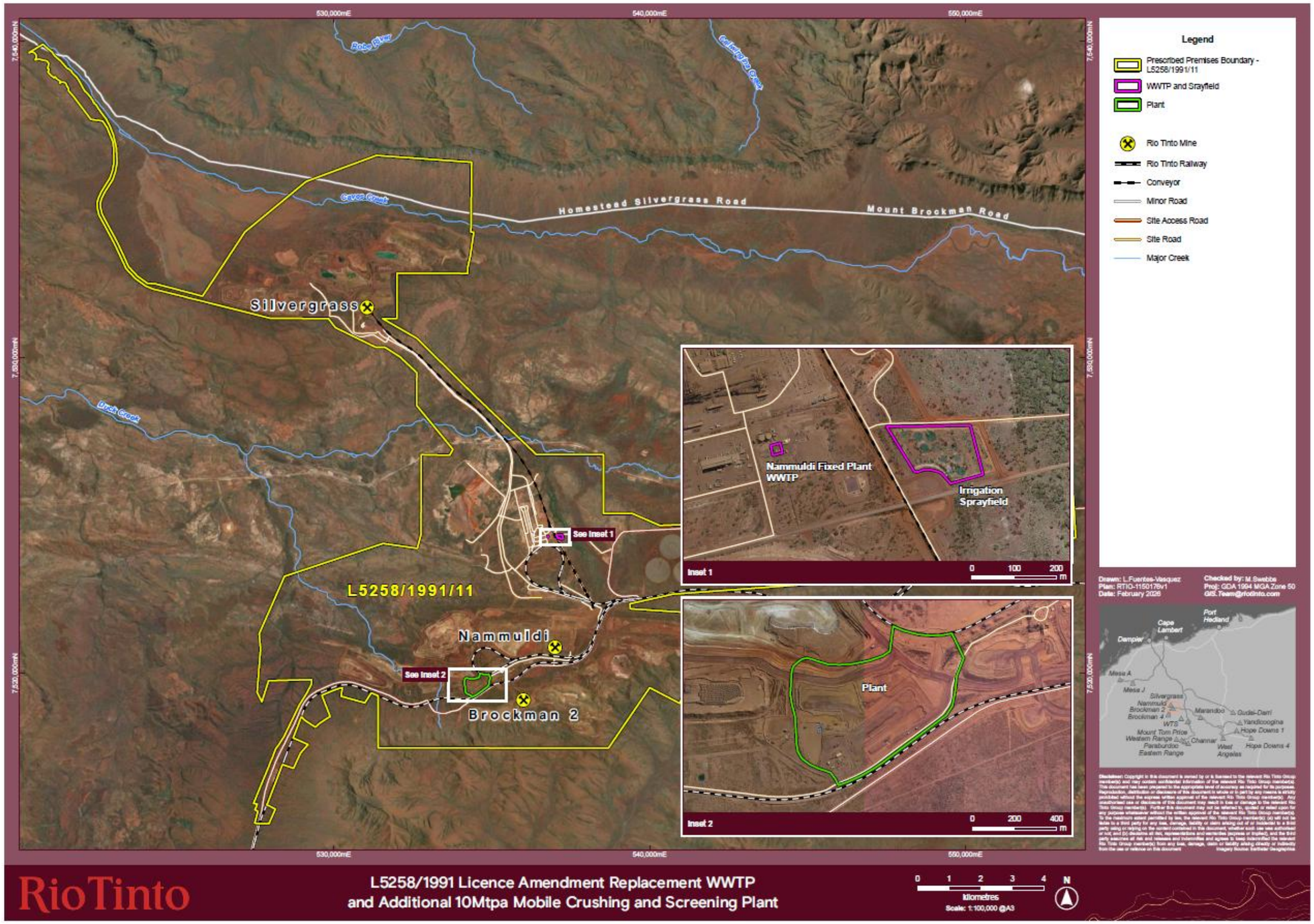

Figure 3: Nammuldi Brockman Incremental Tonnes Plant (named "Plant") and Nammuldi Fixed Plant WWTP

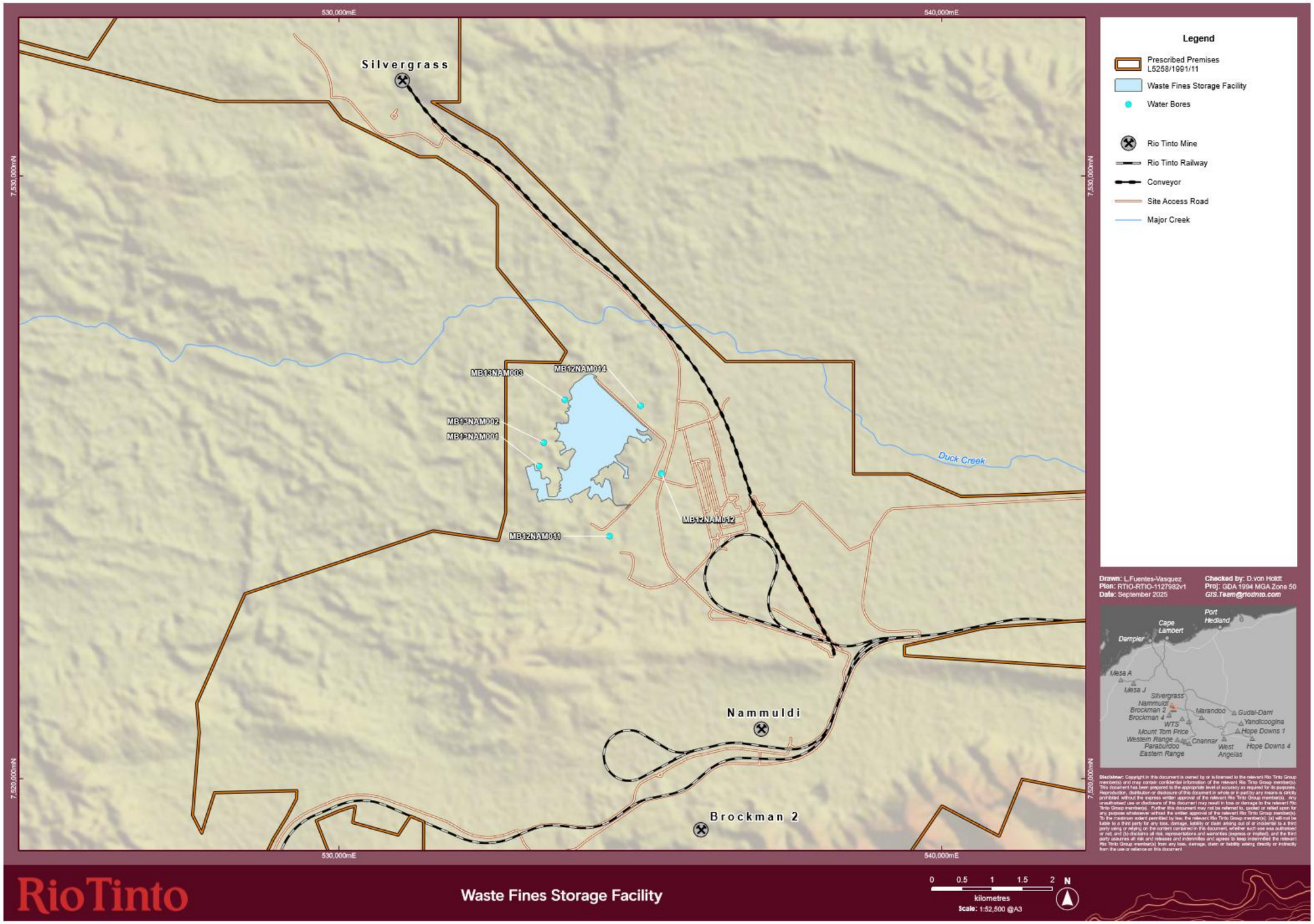

Figure 4: WFSF groundwater monitoring locations

L5258/1991/11 (date of latest update: 16/03/2026)

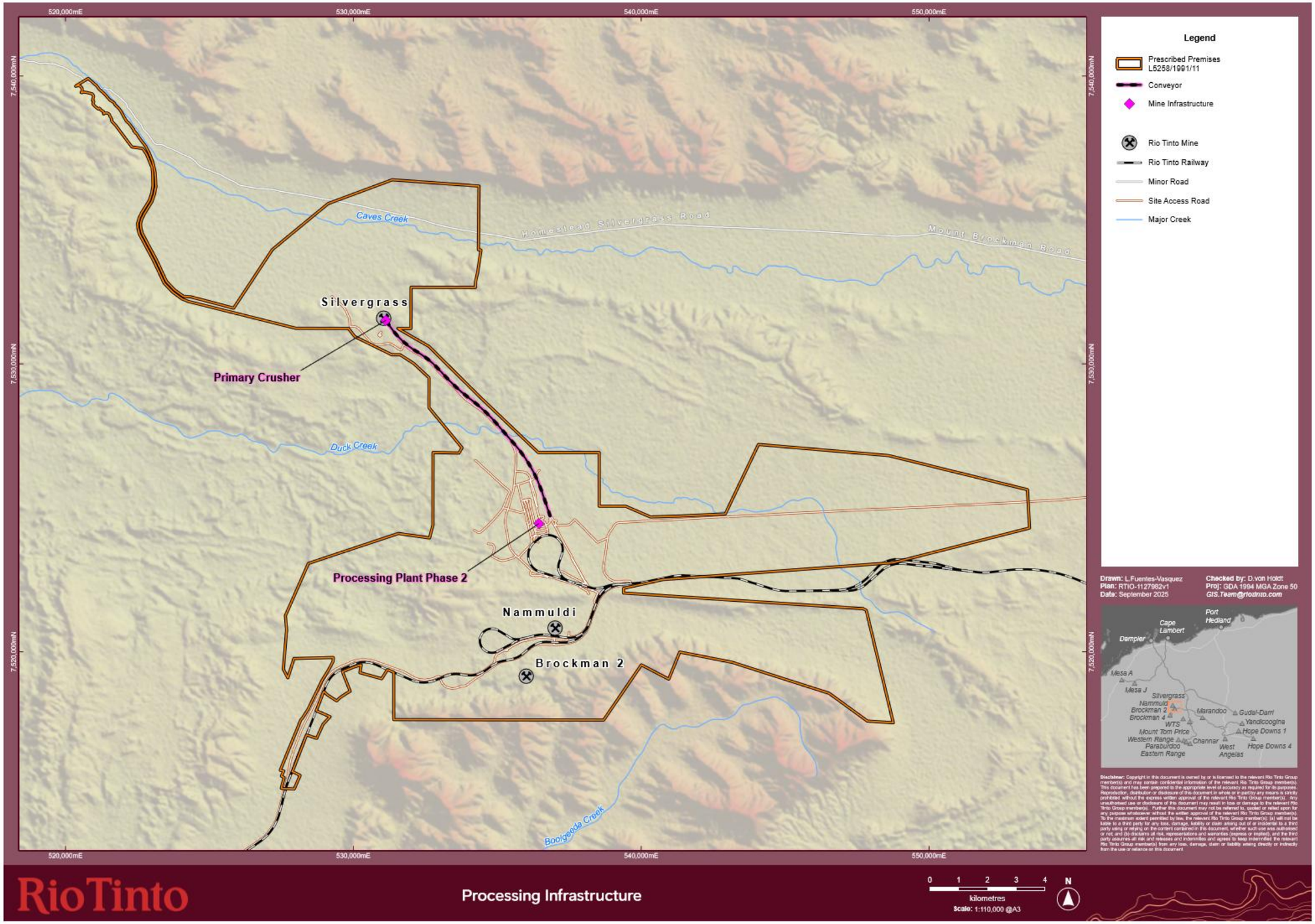

Figure 5: Primary crusher and conveyor

L5258/1991/11 (date of latest update: 16/03/2026)

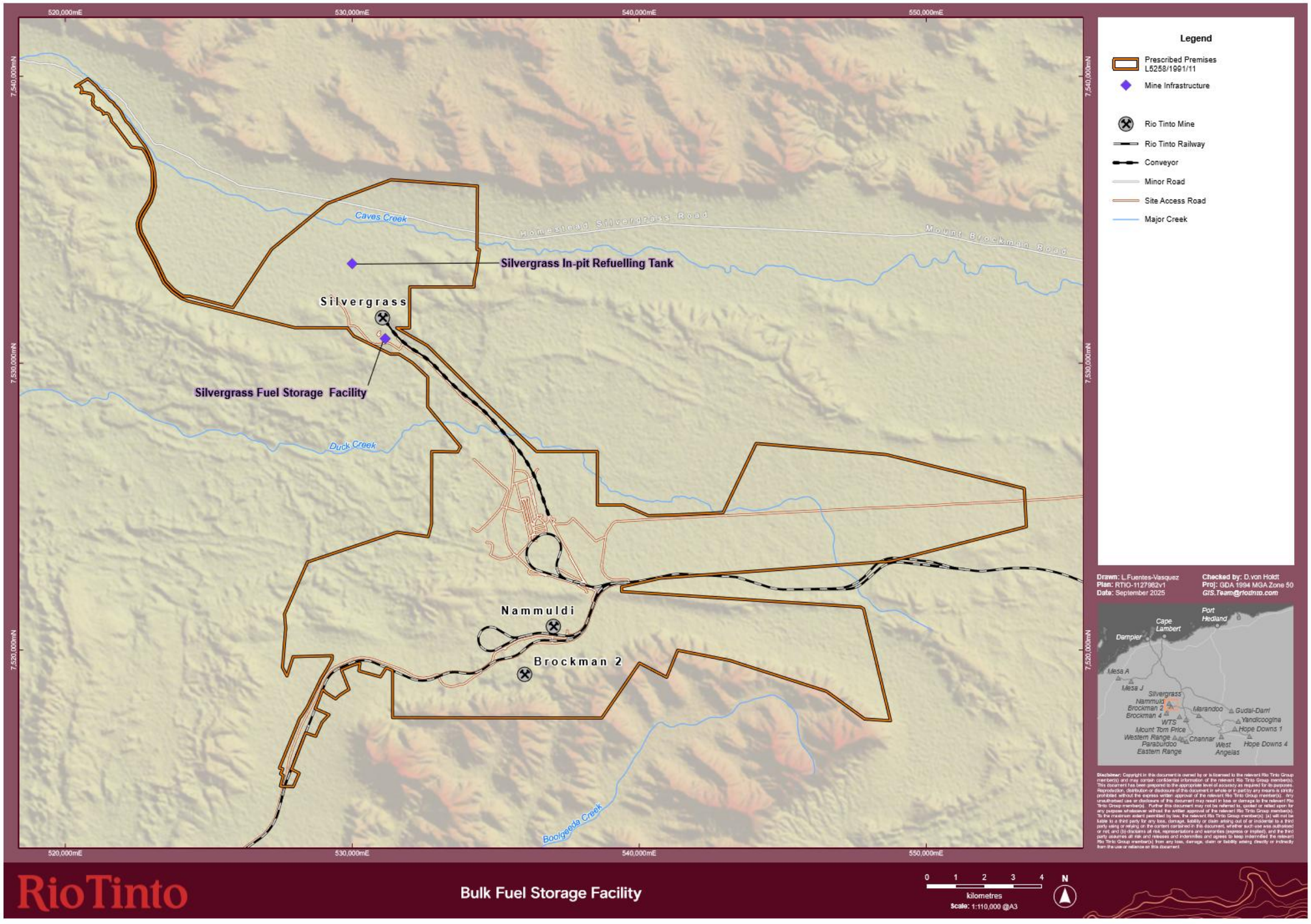

Figure 6: Fuel storage facility

L5258/1991/11 (date of latest update: 16/03/2026)

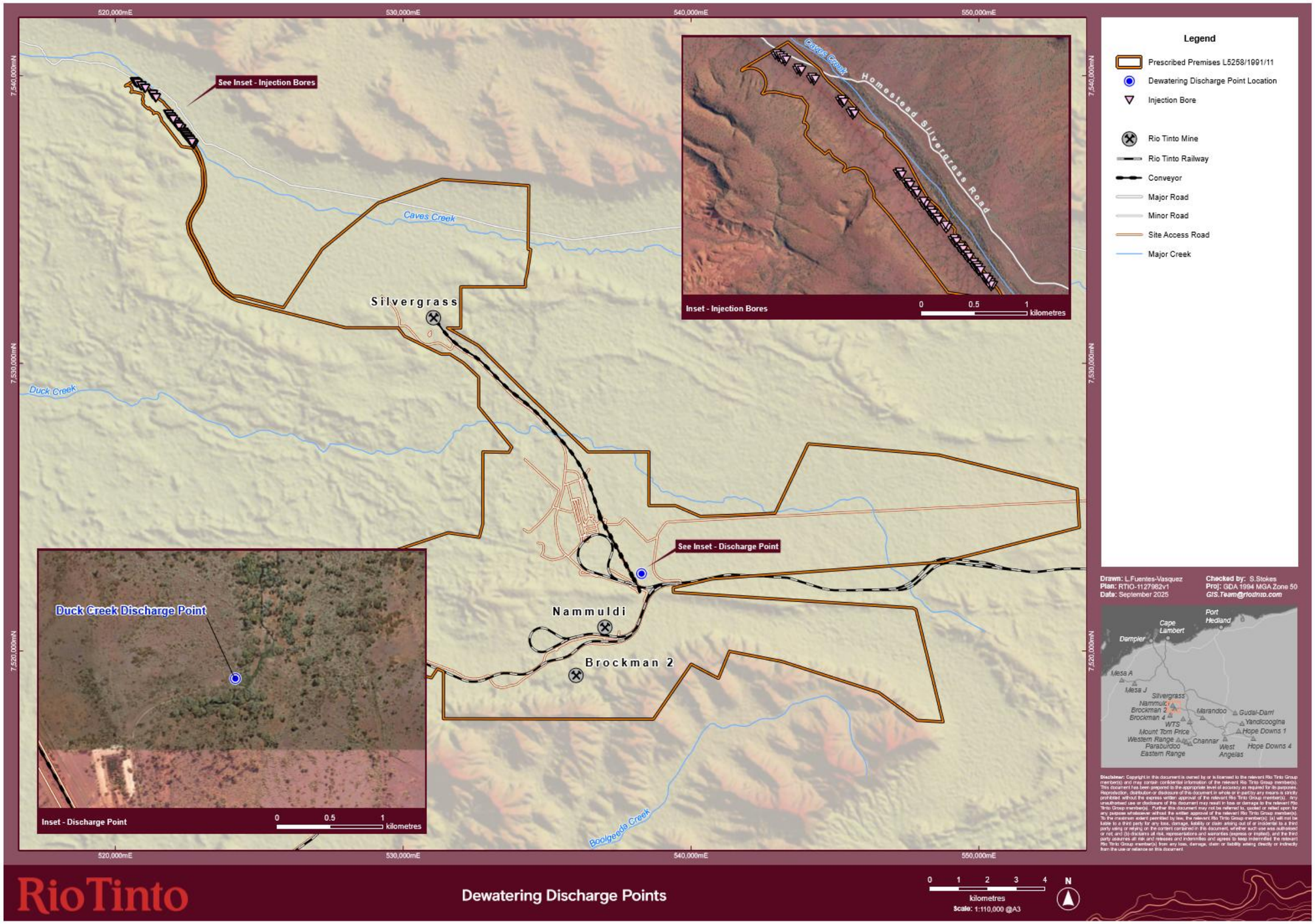

Figure 7: Dewatering monitoring sites

L5258/1991/11 (date of latest update: 16/03/2026)

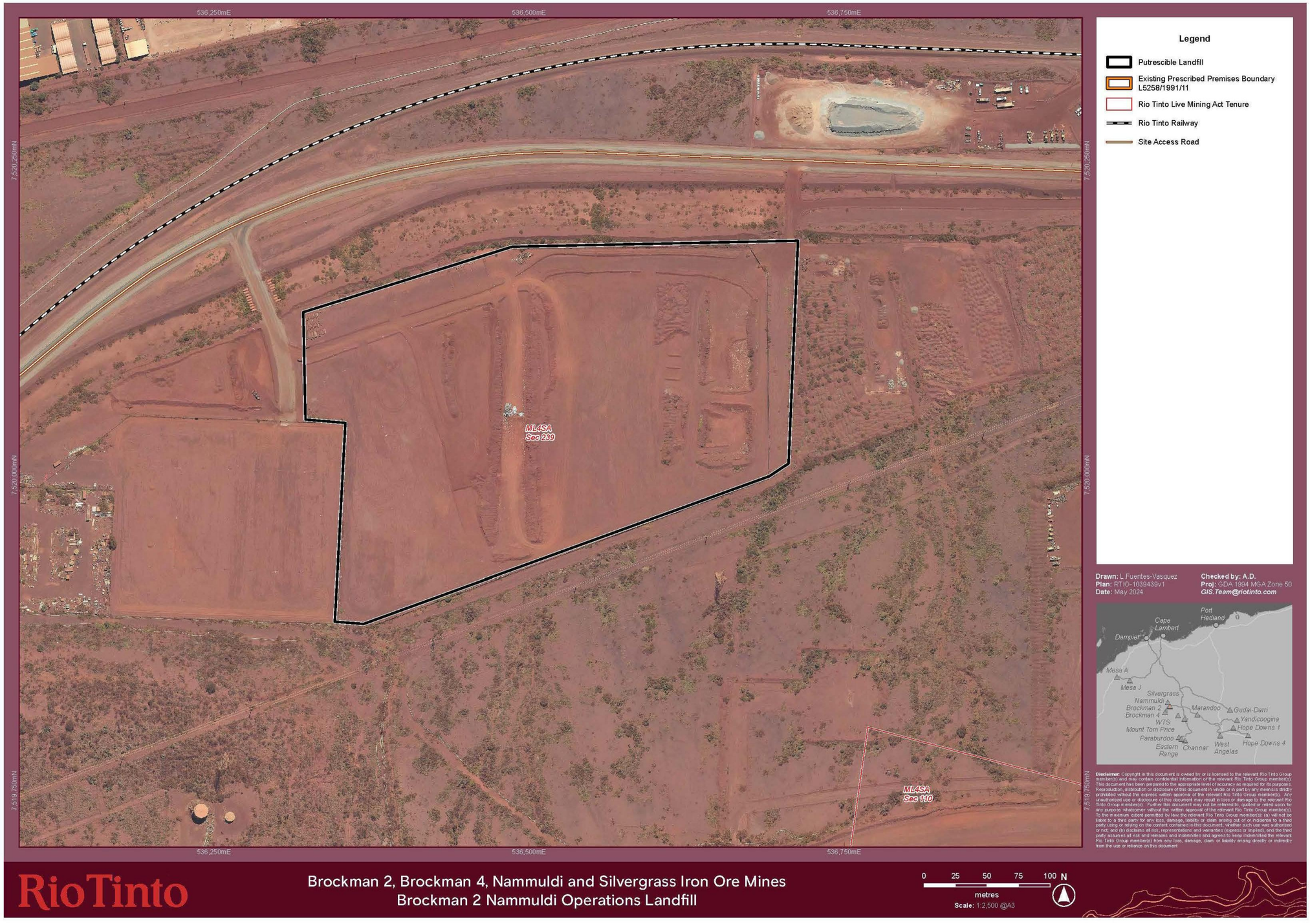

Figure 8: Landfill location

L5258/1991/11 (date of latest update: 16/03/2026)

Figure 9: Silvergrass East Waste Dump Landfill

L5258/1991/11 (date of latest update: 16/03/2026)

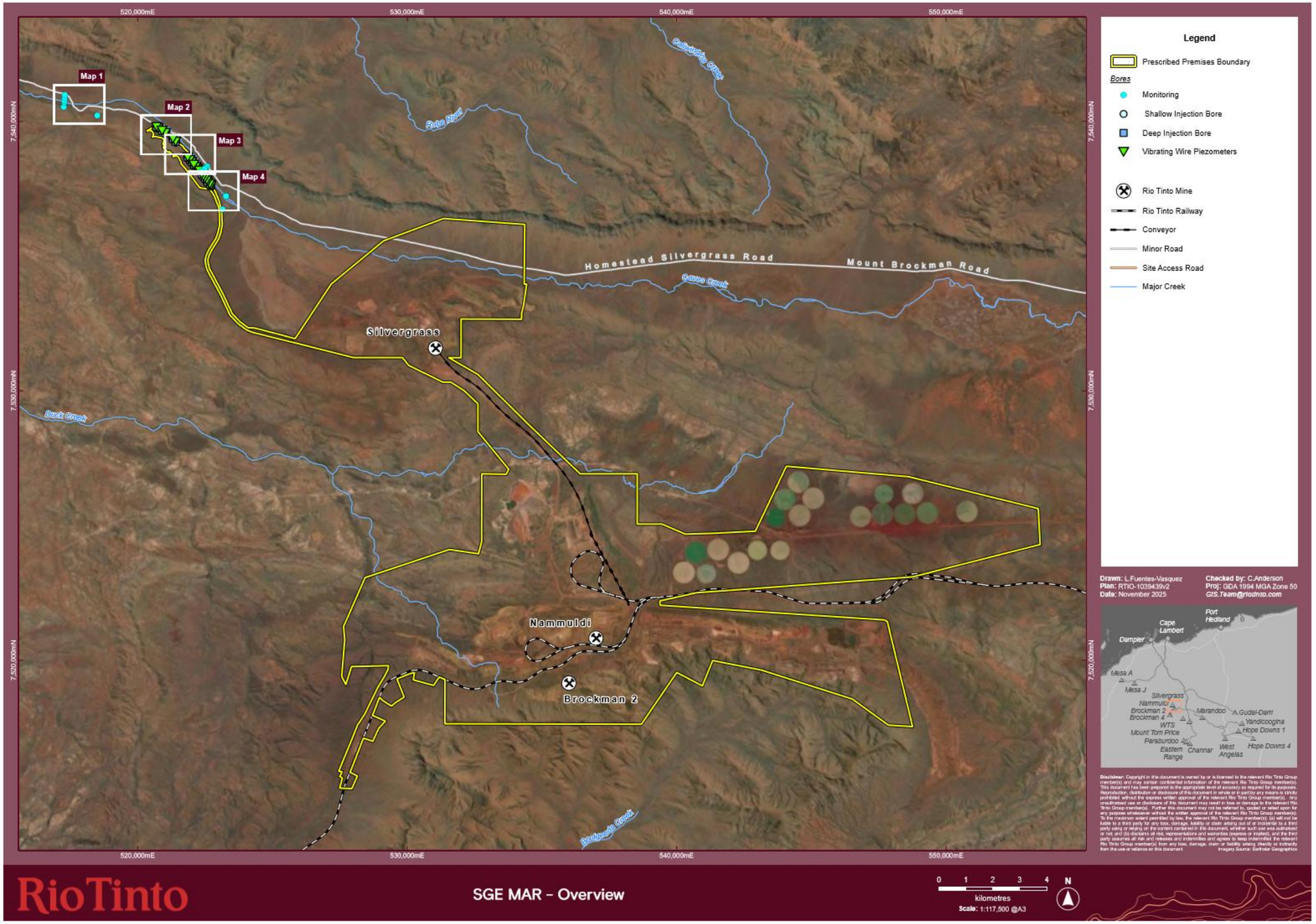

Figure 10: Overview MAR scheme injection bores and monitoring bores

Figure 11: MAR scheme monitoring bores (Map 1)

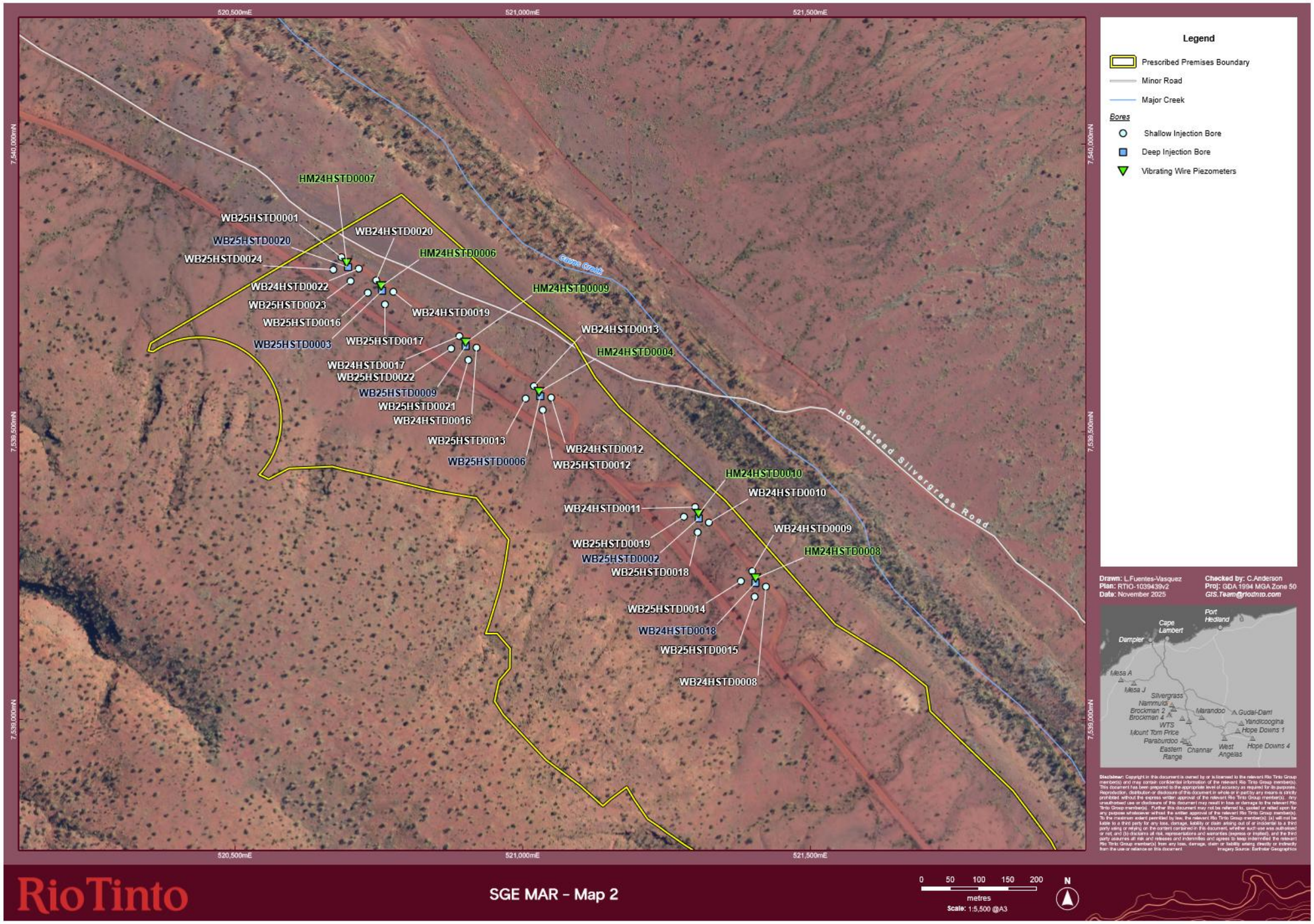

Figure 12: MAR scheme monitoring bores (Map 2)

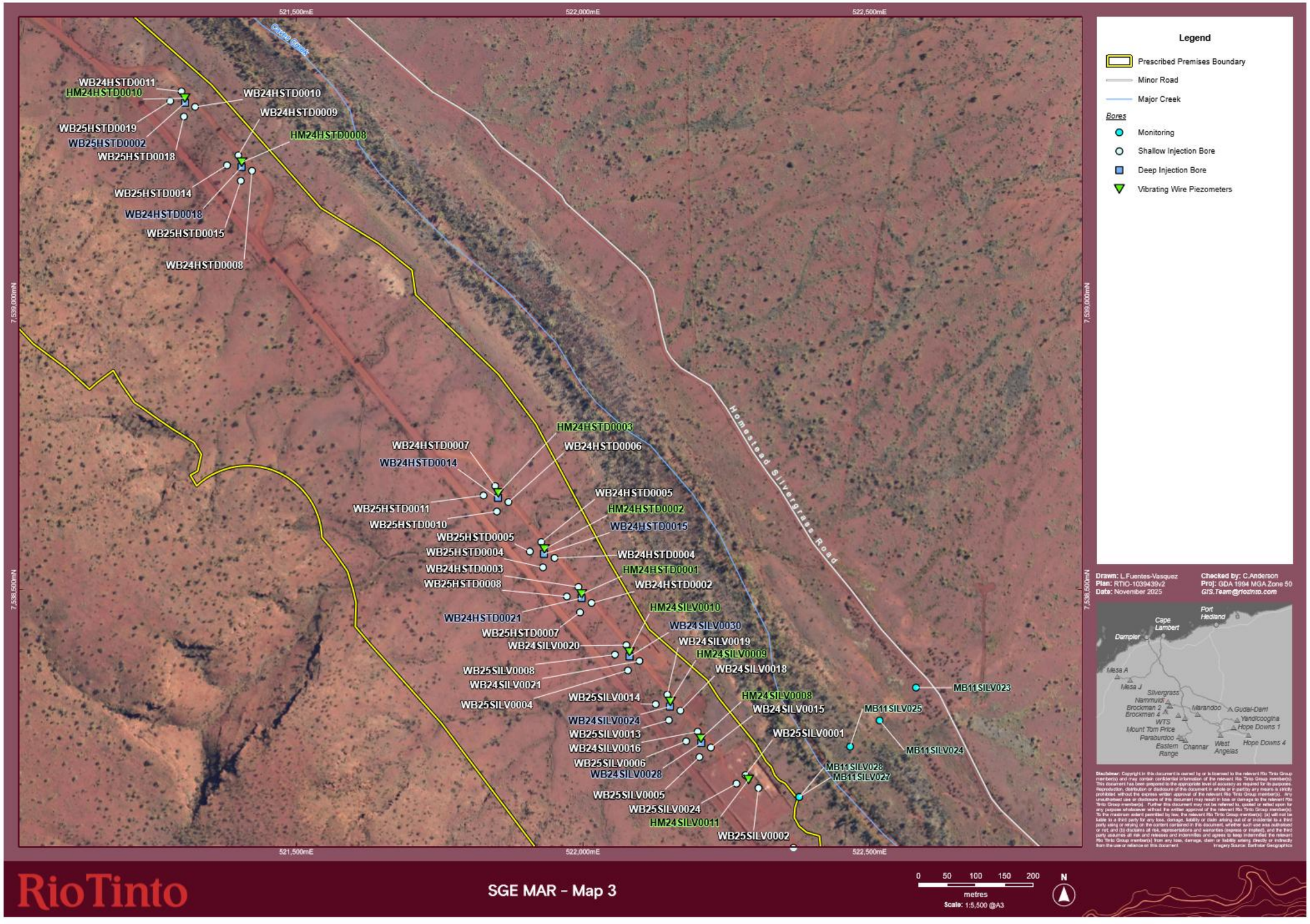

Figure 13: MAR scheme monitoring bores (Map 3)

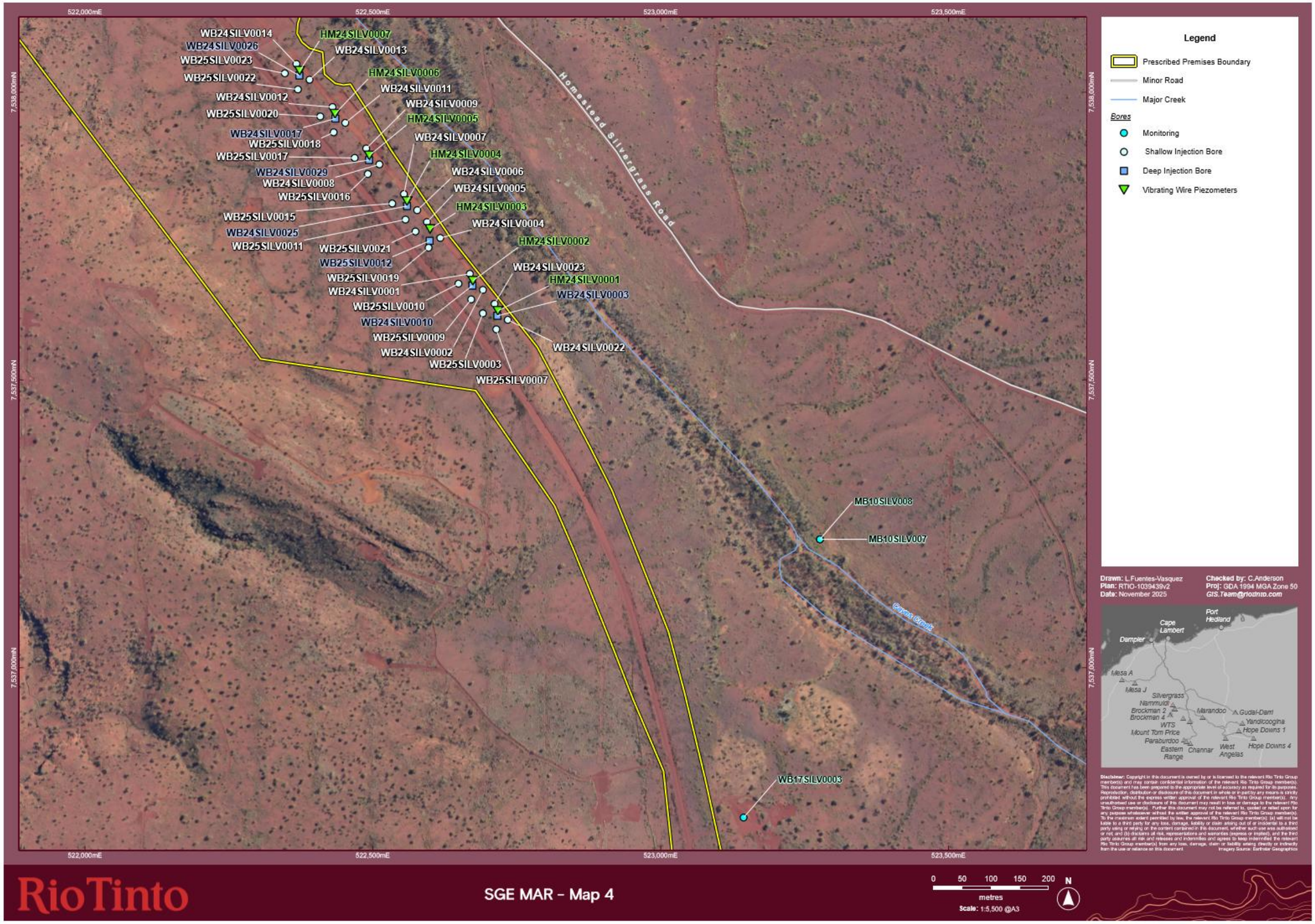

Figure 14: MAR scheme monitoring bores (Map 4)

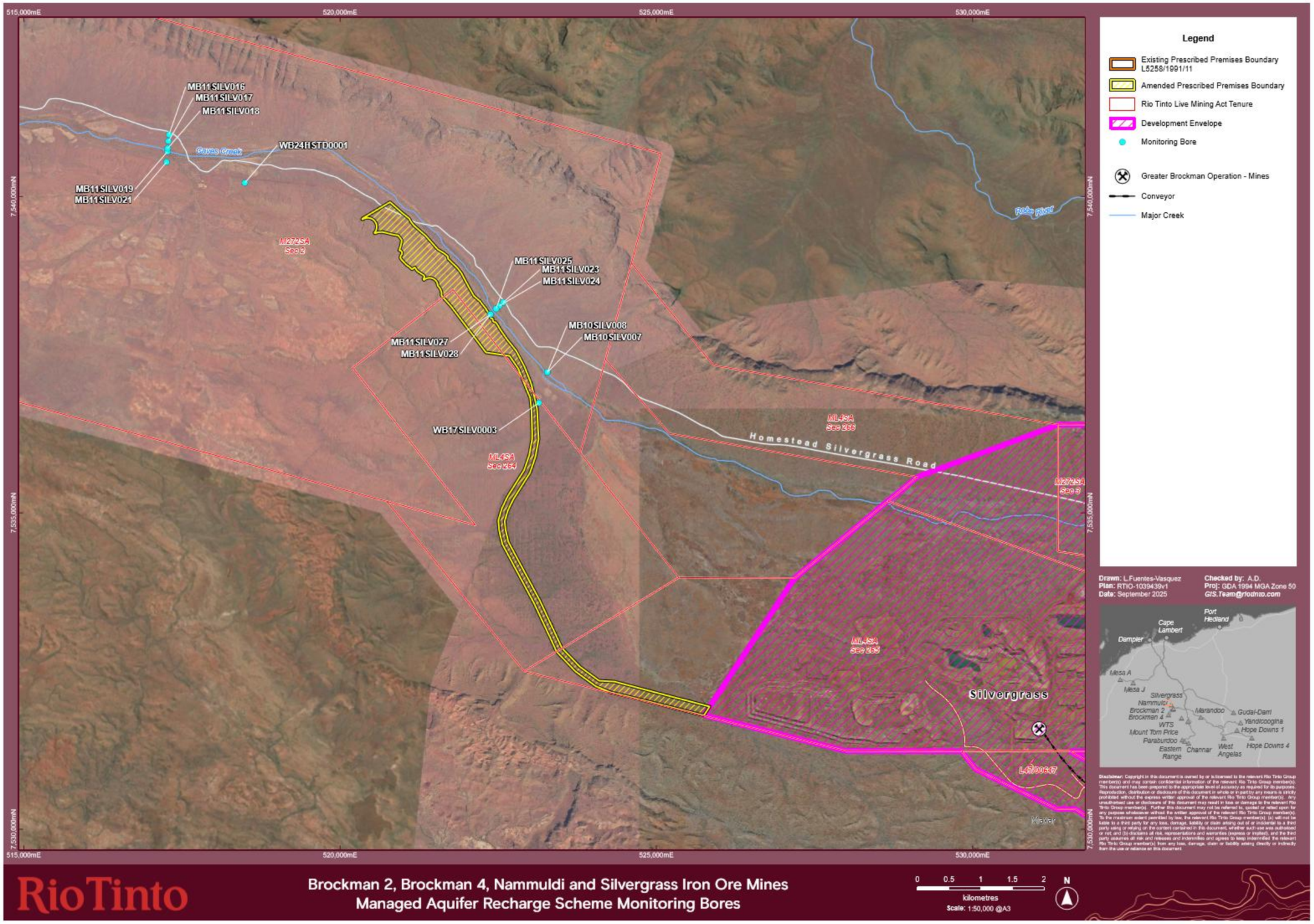

Figure 15: MAR scheme monitoring bore network

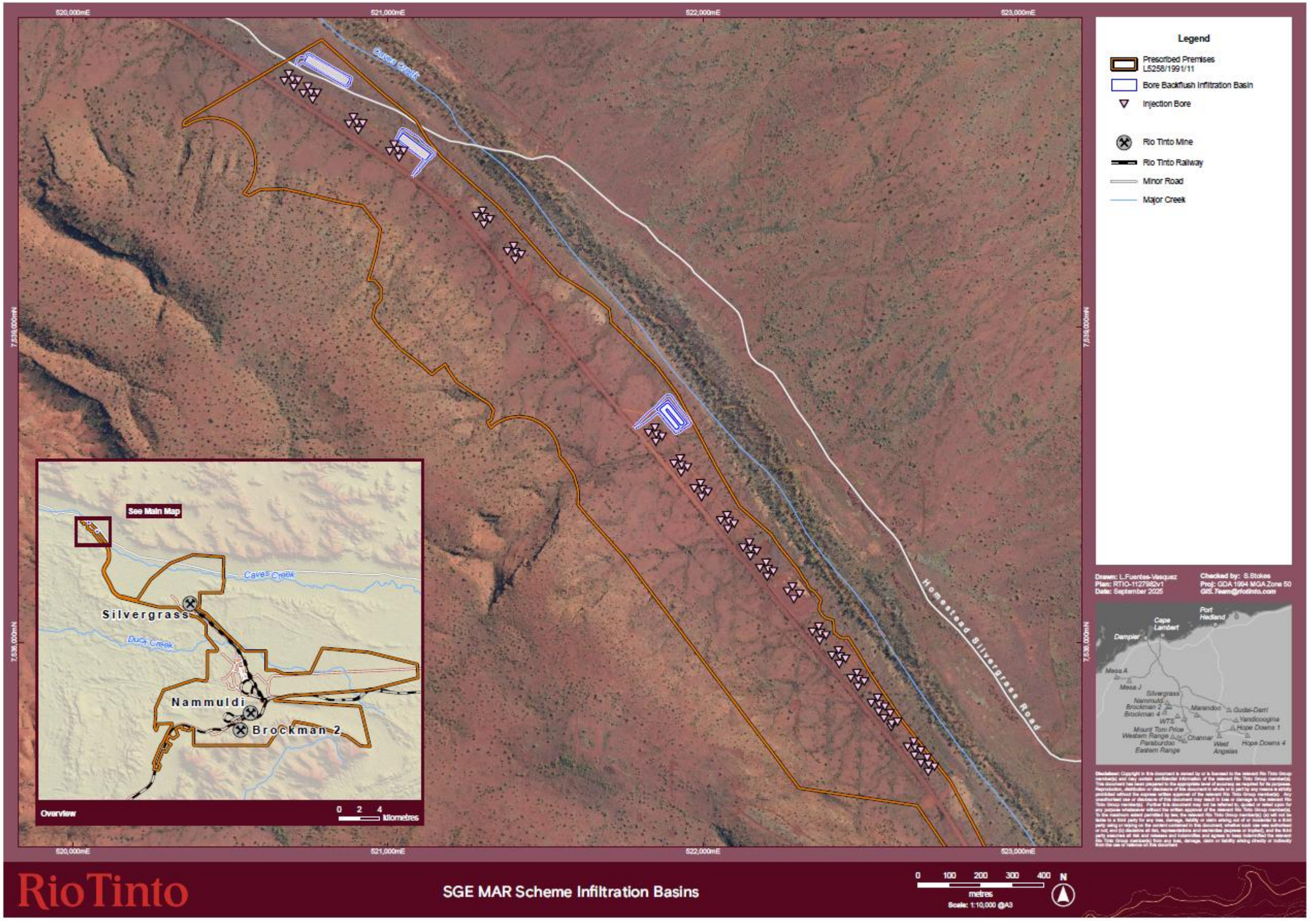

Figure 16: MAR scheme infiltration basins

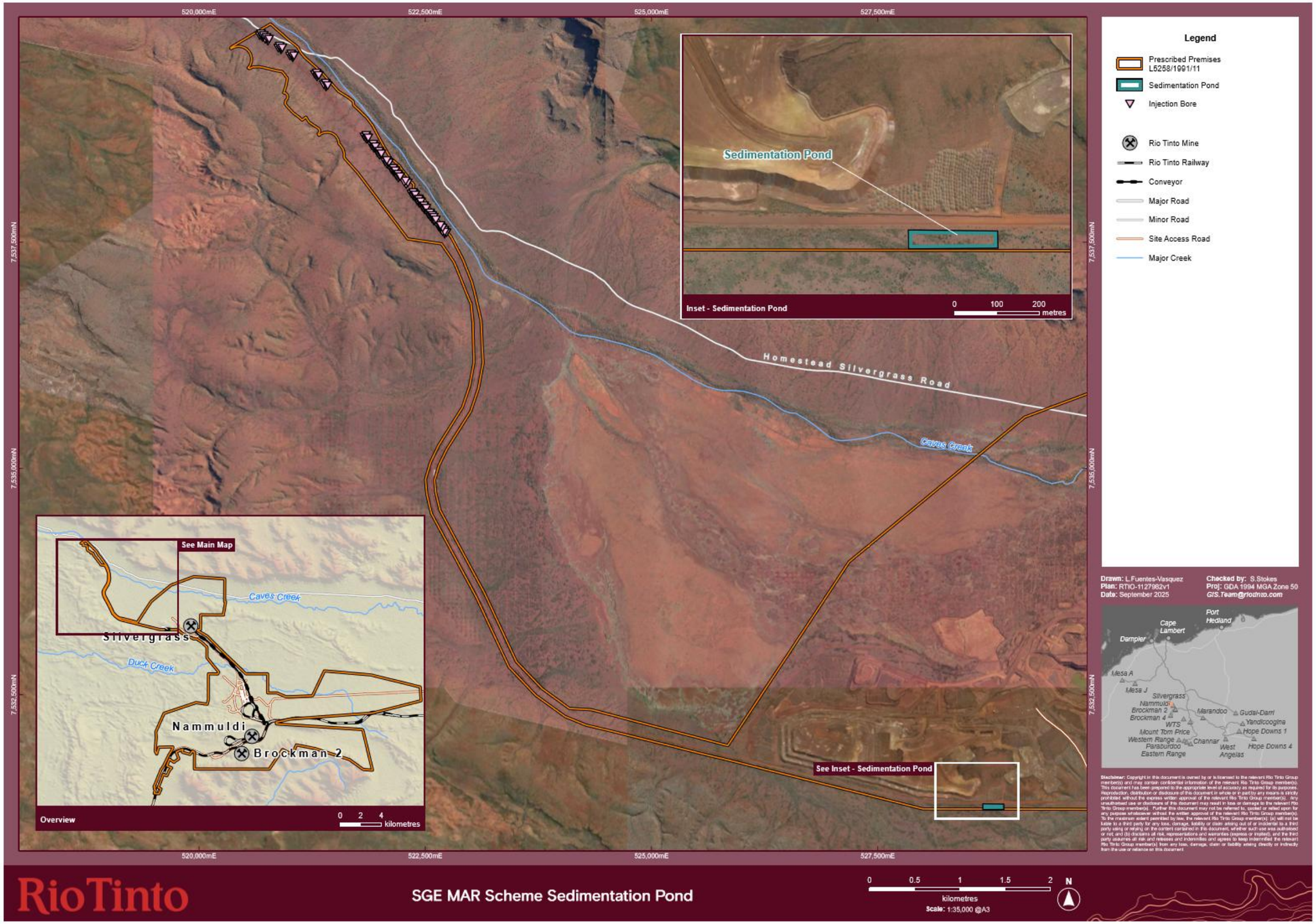

Figure 17: MAR scheme sedimentation pond

Schedule 2: Premises boundary

Point	mE_GDA2020	mN_GDA2020
0	520790.4946	7539913.551
1	522786.8957	7537558.479
2	523115.371	7536638.865
3	523139.9542	7536171.472
4	523002.8206	7535633.953
5	522604.4251	7534873.337
6	523508.846	7532864.063
7	524336.941	7532334.162
8	525843.2599	7531938.53
9	525752.209	7531800.794
10	524278.4464	7532164.611
11	523425.1342	7532806.969
12	522503.1644	7534883.552
13	522911.8692	7535677.175
14	523038.0755	7536170.077
15	523006.0026	7536821.921
16	522679.7279	7537483.048
17	522306.0671	7537537.963
18	520350.4356	7539642.256
19	527184.6849	7533969.508
20	529125.4846	7535568.802
21	531351.0298	7536395.774
22	534364.5643	7536178.838
23	534242.7649	7532659.584
24	532002.6906	7532664.463
25	531999.755	7531230.325
26	531544.873	7531231.205
27	532630.1333	7530606.172
28	536420.3521	7526922.182
29	538539.1465	7526922.712
30	538539.1465	7525055.292
31	540321.2219	7524683.048
32	542919.339	7524789.156
33	544071.7618	7527203.765
34	553417.5853	7525630.705
35	553491.6329	7524298.226
36	548753.9335	7523095.301
37	539380.9978	7522203.603
38	539385.6319	7522043.305
39	547708.6161	7521499.466
40	548758.3121	7517536.982
41	547856.8764	7517593.431
42	546523.5811	7518559.284
43	541335.9473	7519990.823
44	540955.451	7519048.165
45	540005.9585	7519545.434
46	538693.8714	7517628.824
47	531401.4117	7517645.531
48	531404.7595	7519287.166
49	531170.9816	7519354.613
50	530982.5145	7519066.201
51	530228.6547	7519274.659
52	530274.3532	7519542.254
53	529623.3355	7519304.573
54	529887.5983	7518631.34
55	529418.7231	7518297.908
56	528967.2797	7518614.823
57	528710.6607	7517954.588
58	529189.0846	7517745.46
59	528724.5055	7516993.083
60	528373.9829	7517107.59
61	527876.5689	7515837.099
62	528149.8361	7515704.526
63	527946.3699	7515236.931
64	527494.0359	7515259.586
65	527595.5505	7515630.191
66	527498.9257	7515686.279
67	527579.4051	7515860.284
68	527459.6755	7515883.209
69	528166.2206	7517620.716
70	529302.2259	7519801.122
71	527935.6833	7519767.539
72	527723.5672	7519098.055
73	527639.5586	7521254.656
74	528439.5539	7523068.537
75	531562.5603	7524110.695
76	532646.6085	7523954.626
77	532768.1275	7526922.712
78	533670.899	7526904.626
79	533772.8919	7527088.798
80	532625.6475	7528483.055
81	532627.8327	7529519.624
82	531623.3157	7530320.011
83	531333.6309	7530319.491
84	530053.6698	7530945.773
85	529826.3236	7531234.565
86	528001.3121	7531238.044