Brewongle Solar Farm

Preliminary Site Investigation

PREPARED FOR

Edify Energy Pty Ltd

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Brewongle Solar Farm and BESS

Preliminary Site Investigation

0735137

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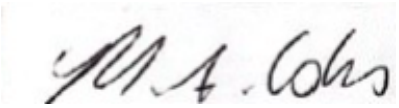

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ACRONYMS AND ABBREVIATIONS

Acronym	Description
Edify	Edify Energy Pty Ltd
BESS	Battery Energy Storage System
ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure 1999
ANZECC	Australian and New Zealand Environment Conservation Council
ADWG	Australian Drinking Water Guidelines
ANZG	Australian and New Zealand Guidelines for Fresh and Marine Water Quality
BTEX	Benzene, toluene, ethylbenzene, xylenes
COPC	Contaminants of potential concern
CSM	Conceptual Site Model
PSI	Preliminary Site Investigation
EP&A	Environmental Planning and Assessment Act 1979
ERM	Environmental Resources Management Australia Pty Ltd
HEPA	Heads of Environment Protection Authority
LGA	Local Government Area
NSW	New South Wales
OCP	Organochlorine pesticides
OPP	Organophosphorus pesticides
ASS	Acid Sulfate Soils
PCB	Polychlorinated biphenyl
PFAS	Per- and Polyfluoroalkyl Substances
PSI	Preliminary Site Investigation
SPR	Source-pathway-receptor
VOC	Volatile organic compound
SVOC	Semi-volatile organic compound
SSD	State Significant Development
SEPP	State Environmental Planning Policy
PV	Photovoltaic
AC	Alternating Current

EXECUTIVE SUMMARY

Environmental Resources Management Australia Pty Ltd (ERM) has prepared this Preliminary Site Investigation (PSI) for the Brewongle Solar Farm and battery energy storage system (BESS) ('the Project') on behalf of Edify Energy Pty Ltd. ('Edify' of the 'Applicant').

Edify proposes to construct, operate, maintain, and decommission the Brewongle Solar Farm and BESS located at 315 Tarana Road in the locality of Brewongle, in the Bathurst Region of NSW, approximately 12 km from the Bathurst town centre. The Project area is in the Bathurst Regional Local Government Area (LGA) and comprises three separate lot parcels, which have been secured via an 'Option Agreement' between the host landowner and Edify. The Project area is located on land predominately used for agricultural activities.

The Project area comprises 299 hectares (ha), with an expected Impact Area of 154 ha. The Project involves the construction, operation, and where relevant, decommissioning of:

- A photovoltaic (PV) solar facility with an estimated capacity of up to 90 megawatt (MW) Alternating Current (AC);
- A BESS with a capacity of up to 90 MW/180 MW hour (MWh);
- Electrical reticulation; and
- Associated and ancillary infrastructure.

The Project is anticipated to connect into the existing TransGrid 132 kilovolt (kV) overhead transmission line, running from Wallerawang to Panorama (transmission line number 94X).

The objective of the Project is to generate new and dispatchable low carbon electricity supply for NSW. Subject to the necessary approvals, Edify anticipates construction of the Project to commence in financial year 2026/2027.

This technical report has been prepared to assess past and present potentially contaminating activities and land uses associated with the Project and its surrounds, the likelihood of contamination (which includes soils, groundwater, ground gas, surface water and sediments, where applicable) the potential contamination types and need for further investigation/ management.

To meet the objectives of this PSI, ERM conducted a desktop assessment of publicly available information for the Project area including relevant government databases and published soil, geology and topographic maps.

The preliminary conceptual site model (CSM) developed for the Project area as part of this PSI, concludes that the relative level of risk of contamination associated with current and historical land use practices is **Low** as summarised in the table below. The evaluation considered risk prior to implementation of any mitigation and management measures.

RELATIVE LEVEL OF RISK OF CONTAMINATION

AEC No.	Likelihood	Consequence (Extent, Severity, Duration)	Risk Rating
AEC-1 – Railway infrastructure	**Possible**	**Minor (1,4,2)**	**Low**
AEC-2 –Historical mining and exploration	**Possible**	**Minor (1,4,2)**	**Low**
AEC-3 – Agricultural land potentially impacted by historical herbicide and pesticide applications	**Possible**	**Minor (1,4,2)**	**Low**
AEC-4- Agricultural land potentially impacted by agricultural primary production activity	**Possible**	**Minor (1,4,2)**	**Low**

Based on the qualitative risk evaluation undertaken to inform the PSI, ERM recommends that an Unexpected Finds Procedure is developed and implemented for the Project's construction program (**Section 8**). The Unexpected Finds Procedure could also be implemented for future intrusive maintenance work during operation of the Project, if required. Risks outlined above can be successfully managed through the implementation of the Unexpected Finds Procedure.

Based on the **Low** risk-rating assigned to each of the areas of environmental concern (AEC) identified in this PSI, further investigation is not required prior to commencement of construction of the Project.

1. INTRODUCTION

1.1 GENERAL

Environmental Resources Management Australia Pty Ltd (ERM) has prepared this Preliminary Site Investigation (PSI) for the proposed Brewongle Solar Farm and battery energy storage system (BESS) ('the Project') on behalf of Edify Energy Pty Ltd. ('Edify' or the 'Applicant').

The Project area location, parcel boundaries and layout of the proposed development are illustrated within **Figures 1, 2 and 3, Appendix A** respectively.

1.2 PROJECT OVERVIEW

Edify proposes to construct, operate, maintain, and decommission the Brewongle Solar Farm and BESS in the rural locality of Brewongle, in the Bathurst Region of NSW, approximately 12 km from the Bathurst town centre. The Project area is located within the Bathurst Regional Local Government Area (LGA) across three separate lot parcels, which have been secured via an 'Option Agreement' between the host landowner and Edify. The Project area is located on land predominately used for agricultural activities.

The Project area comprises 299 hectares (ha), with an expected Impact Area of 154 ha. The Project involves the construction, operation, and where relevant, decommissioning of:

- A photovoltaic (PV) solar facility with an estimated capacity of up to 90 megawatt (MW) Alternating Current (AC);
- A BESS with a capacity of up to 90 MW/180 MW hour (MWh);
- Electrical reticulation; and
- Associated and ancillary infrastructure.

The Project is anticipated to connect into the existing TransGrid 132 kilovolt (kV) overhead transmission line, running from Wallerawang to Panorama (transmission line number 94X).

The Project is declared State Significant Development (SSD) under Clause 2.6(1) of the State Environmental Planning Policy (Planning Systems) 2021 (Planning Systems SEPP). The Applicant is seeking development consent for the Project under Part 4, Division 4.7 of the *Environmental Planning and Assessment Act 1979* (EP&A Act).

The objective of the Project is to generate new and dispatchable low carbon electricity supply for NSW. Subject to the necessary approvals, the Applicant anticipates construction of the Project to commence in financial year 2026/2027.

The Impact Area represents the maximum expected development footprint associated with the construction and operation of the Project. It consists of the area of land that will be disturbed during construction and operation of the Project. This will include infrastructure areas such as the BESS, switchyard, substation, associated facilities (e.g., laydown area, control building) and asset protection zones (APZs).

The final layout is subject to further design development and refinement. The Impact Area assessed in the Environmental Impact Statement (EIS) (ERM, 2025) has been sized/scaled to allow for flexibility to micro-site infrastructure and adjust the layout within the approved area.

1.3 OBJECTIVE OF THIS TECHNICAL REPORT

This technical report has been prepared to support the SSD Application for the Project and has assessed past and present potentially contaminating activities and land uses associated with the Project and its surrounds, the likelihood of contamination (which includes soils, groundwater, ground gas, surface water and sediments, where applicable) the potential contamination types and need for further investigation/ management.

2. METHOD OF ASSESSMENT

2.1 SCOPE OF WORK

The following scope of work was undertaken to prepare this PSI:

- Review of background information relating to the Project area, including:
  - Information relating to the proposed project layout;
  - Information relating to geological, hydrogeological, and environmental conditions within the Project area and surrounding area, including published soil, geology and topographic maps;
  - Historical aerial photographs;
  - Groundwater bore information;
  - Relevant government databases;
  - Licenced active and non-active environmentally relevant activities; and
  - Polyfluoroalkyl Substances (PFAS) investigation programs on-site and within the surrounding area;
- Development of a Preliminary Conceptual Site Model (CSM) and completion of a qualitative risk evaluation;
- Development of proposed risk mitigation and management measures; and
- Preparation of this report in accordance with guidance set out in the *National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013* ('the ASC NEPM') and *Consultants Reporting on Contaminated Land, Contaminated Land Guidelines* (NSW Environment Protection Authority, 2020) and other relevant guidance prepared or endorsed by the NSW Environment Protection Authority (EPA).

2.2 RELEVANT GUIDELINES AND STANDARDS

This PSI was undertaken with reference to relevant elements of the following guidelines and standards made or endorsed by the NSW EPA:

- Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG), October 2020. Guidelines for Assessing and Managing Water Quality in Temporary Waters, Smith, REW, Boulton, AJ, Baldwin, DS, Humphrey, CL, Butler, B & Halse (ANZG, 2020);
- Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 2018. Australian and New Zealand Environment Conservation Council (ANZECC) (ANZECC, 2018);
- Australian Drinking Water Guidelines (ADWG), 2011. National Water Quality Management Strategy. Australian Drinking Water Guidelines 6, 2011. Version 4.0. Updated June 2025 (ADWG, 2011);
- Australian and New Zealand Guidelines for Fresh and Marine Water Quality. Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia (ANZG, 2018);
- PFAS National Environmental Management Plan, Version 3.0. (Heads of Environment Protection Authority - HEPA, 2025). This is hereafter referred to as 'the PFAS NEMP 3.0';
- National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013, which is hereafter referred to as 'the ASC NEPM';

- Contaminated Land Management, Guidelines for the NSW Site Auditor Scheme (3rd edition). (NSW EPA, 2017); and
- Consultants Reporting on Contaminated Land, Contaminated Sites Guidelines (NSW EPA, 2020).

3. EXISTING ENVIRONMENT

3.1 PROJECT AREA IDENTIFICATION

Information that identifies the Project area is provided in **Table 3-1**, and illustrated in **Figure 1**, **Figure 2**, **Figure 3** of **Appendix A**.

TABLE 3-1 PROJECT AREA IDENTIFICATION

Item	Description
Project area location	**Figure 1, Appendix A.**
Project Area Address	315 Tarana Road, Brewongle, NSW, 2795
Local Government Area (LGA)	Bathurst Regional Council
Legal description	• Lot 1 DP 1236901 • Lot 2 DP 1236901 • Lot 1 DP 1206130 • Lot 126 and Lot 127 DP 755784
Project area	**Project area**: • Approximately 299 ha **Impact Area**: • Approximately 154 ha
Current zoning/site layout	The Project area is currently zoned for the following uses under the Bathurst Regional Local Environmental Plan 2014 (LEP); • Rural (RU1) for primary production; and • Special activities (SP2) for railway infrastructure.
Geographical coordinates	Approximate centre of the Project area - 33°28'0.42"S, 149°41'12.82"E

Project Area Layout	Key features of the Project area are presented in **Figure 2, Appendix A**. The Project area is characterised by the following features:
	• General agricultural improvements including troughs and lick feeders, grazing paddocks, a cattle yard, stock fences and gates, open pole barn, water pumps, water tanks, two surface water dams, ponds/bodies of water and unsealed access tracks;
	• A residential property recognised as 315 Tarana Road, Brewongle, NSW, 2795, located in the south-central portion of the Project Area, characterised by the following;
	  ° A large single-story house, with outbuildings to the east of the house including one large shed and one small shed;
	  ° Salt Water Creek, which is located in the northern portion of the Project Area and discharges to Macquarie River;
	  ° Tarana Road, which is adjacent to the southern boundary of the Project Area; and,
	  ° An active rail line (Main Western Railway Line), which is adjacent to the north-eastern boundary of the Project Area.

Current land use	Current land uses within the Project area primarily comprise of: • Agricultural primary production including the grazing of paddocks on rotation by livestock (sheep and cattle).

3.2 SURROUNDING LAND USES

A description of land uses surrounding the Project area is provided in **Table 3-2** and illustrated on **Figure 4** of **Appendix A**.

TABLE 3-2 SURROUNDING LAND USES

Direction from the Project Area	Description
North	• To the immediate north and north-east boundary of the Project area is the active Main Western railway line, beyond which is primarily rural/agricultural land with agricultural improvements (sheds, surface water dams/ponds, water tanks, fenced cattle yards). • One rural residential property is located approximately 600 m to the north-east and two rural residential properties are located approximately 2 km to the north (all possessing sheds and water tanks). A small unnamed creek is located approximately 1.7 km to the north-east of the Project area, which is a tributary of Salt Water Creek.
South	• To the immediate south of the Project area is Tarana Road, beyond which are two rural residential properties located approximately 100 m to the south with various agricultural improvements (water tanks, sheds, and one property possessing what appears to be a large surface water dam/pond). Rural/agricultural land is located further to the south. • Rural/agricultural land, and rural residential properties (with water tanks and sheds) are located across Tarana Road approximately 70 – 150 m to the south-west and south-east of the Project area. One of the properties to the south-west appears to include a small racecourse and horse stable, and all properties possess sheds and water tanks, as well as surface water dams/ponds. • A sand quarry is located approximately 1.7 km to the south-west. • Brewongle Train Station (now closed) is located approximately 1.5 km to the south-east followed by rural/agricultural land and rural residential properties located approximately 2 km to the south-east (with sheds and water tanks).
West	• To the immediate west of the Project area is an unpaved access road, followed by rural/agricultural land and Salt Water Creek approximately 500 m to the west. Beyond Salt Water Creek is rural/agricultural land with several dams/ponds, and two residential properties located approximately 1 km to the west (with several sheds and water tanks).
East	• To the immediate east of the Project area is rural/agricultural land with several dams/ponds, followed by the railway line approximately 960 m to the east, and a residential property located 1.3 km north-east (with several sheds and water tanks).

4. PROJECT AREA BACKGROUND INFORMATION

The following sections summarise the information obtained during the Project area background review. Publicly available information was reviewed and included as **Appendix B**.

A questionnaire was submitted by ERM to the landowner (via Edify); however, no response was received at the time of reporting. ERM notes that based on the details reviewed in the following sections, this is not considered to have affected the suitability of this report.

4.1 ENVIRONMENTAL SETTING

Information relating to the environmental setting of the Project area is presented within **Table 4-1** below, with reference to the figures provided within the desktop search results in **Appendix B**.

TABLE 4-1 ENVIRONMENTAL SETTING

Item	Description	
	Within the Project Area	**Surrounding Area**
Topography and Elevation	• Elevation within the Project area ranges from approximately 700 – 730 m Australian Height Datum (AHD). • The Project area comprises gently undulating hills, with a general slope towards the west-northwest in the direction of Salt Water Creek.	• Elevation within the land surrounding the Project area (within approximately 1,000 m) is highest to the north-east (approximately 770 m AHD) and slopes to the south-west (approximately 680 m AHD).

Geology	• Geology mapping (New South Wales Statewide Seamless Geology dataset version 2.4, NSW Department of Primary Industries and Regional Development (NSW DPIRD), 2024) indicated that the Project area is underlain by Carboniferous-aged Bathurst Granite.	Geology mapping (New South Wales Seamless Geology dataset version 2.4, NSW DPIRD, 2024) indicated the land surrounding the Project area (within approximately 1,000 m) is:
		• Mostly comprised of Carboniferous-aged Bathurst Granite; and,
		• Isolated igneous and sedimentary deposits which were identified to the south-west of the Project area. These areas consist of:
		  ° Quaternary aged alluvium, comprising of dominant clastic sediment lithology (approximately 234 m south-west);
		  ° Carboniferous aged Tarana to Biotite granite, comprising of a dominant granite lithology (approximately 804 m south-west); and
		  ° Carboniferous aged Tarana to porphyritic granite, comprising of a dominant granite lithology (approximately 827 m south-west).

Soil Profile	The soil landscapes across the Project area were identified by Soil Landscapes of Central and Eastern NSW (NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEW), 2020) to be:	The soil landscape within the surrounding area (1,000 m) was identified by Soil Landscapes of Central and Eastern NSW (NSW DCCEW, 2020) and Atlas of Australian Soils (ABARES, 2011) to be consistent with soils mapped within the Project area.

Item	Description	
	Within the Project Area	**Surrounding Area**
	• Primarily the Raglan soil landscape which is characterised by gently undulating to undulating slopes (680 -780 m elevations) on the Bathurst plains with residual deposits identified as shallow (30 cm) and predominantly red solodic soils with yellow solodic soils found on lower slopes and in drainage depressions. Massive red earths and yellow earths are also present. • Bathurst soil landscape was identified to the south-west of the Project area and is characterised by undulating to rolling slopes (650 – 850 m elevations) with residual soil deposits identified as non-calcic brown soils on upper slopes and yellow solodic soils on the lower slopes and in drainage lines. Sands and mottled yellow solodic soils are also present. • Macquarie soil landscape to the north of the Project area surrounding the Salt Water Creek which is characterised by alluvial floodplains and terraces with alluvial deposits identified as shallow (15 – 1.2 m deep) and predominantly as prairie soils, but also including earthy loams, siliceous sands and loams, Wiesenboden and black earths. The Atlas of Australian Soils (Australian Bureau of Agriculture and Resource and Sciences (ABARES), 2011) soil classification order for the Project area is broadly grouped into Chromosol on rolling country, characterised by hard neutral red soils, in association with hard neutral yellow mottled soils.	
Acid Sulfate Soils (ASS)	The soils within the Project area were identified by the Atlas of Australian Acid Sulfate Soils (CSIRO, 2013) as having an extremely low probability of occurrence (1 – 5% chance of occurrence) of ASS.	The soils within the Project area were identified by the Atlas of Australian Acid Sulfate Soils (CSIRO, 2013) as having an extremely low probability of occurrence (1 – 5% chance of occurrence) of ASS.
Drainage and Hydrology	• Based on a review of the Project area's topography as identified by Property Boundaries & Topographic Data (Department of Finance, Services & Innovation, 2025), surface water is expected to flow towards Salt Water Creek, located in the northern portion of the Project area. Salt Water Creek flows from north-east to south-west into Fish River, located approximately 2 km to the west of the	• Based on a review of the Project area's topography as identified by Property Boundaries & Topographic Data (Department of Finance, Services & Innovation, 2025) the surrounding land (within approximately 2,000 m) consists of mostly rural/agricultural land with both flat and undulating slopes. During periods of rainfall, runoff is expected to flow overland towards Salt Water Creek, Fish River, and

Item	Description	
	Within the Project Area	**Surrounding Area**
	Project area, which flows towards the south-west into Macquarie River. • During periods of rainfall, runoff either flows overland towards Salt Water Creek or towards impervious paved roads lining the southern Project area boundary (Tarana Rd), and or collects within various surface water dams/ponds across the Project area. Where impervious pavements are not present runoff infiltrates directly into the subsurface. Drainage infrastructure (i.e., stormwater drains, artificial drainage channels) have not been identified within the Project area. • Fish River is a major tributary of the Macquarie River and extends 119 km in length (Water NSW, 2025). Fish River delivers water as part of Fish River Water supply scheme, supplying water to Wallerawang and Mount Piper power stations, Oberon and Lithgow councils for domestic and industry use as well as approximately 230 properties along its length (WaterNSW, 2025).	impervious paved roads, or collect within surface water dams. Where impervious pavements are not present, runoff infiltrates directly into the subsurface.

Hydrogeology	The hydrogeological information reviewed - Hydrogeology Map of Australia (Geoscience Australia, 2019) indicated:
	• The aquifer underlying the Project area is fractured or fissured with low-to-moderate productivity;
	• No data was available regarding groundwater flow direction or elevation;
	• Groundwater is inferred to flow towards the south-west based on the topography of the Project area and surrounding area (Department of Finance, Services & Innovation, 2025); however, the topography varies (i.e., rolling hills), so local groundwater variations are possible.
		The publicly available groundwater bore register reviewed- National Groundwater Information (NGIS) Boreholes (Bureau of Meteorology (BOM); Water NSW, 2025) indicated:
		• There are a total of 17 registered groundwater bores for the purpose of stock/domestic use or water supply located within a 2,000 m radius of the Project area. There is one registered bore for groundwater monitoring located 792 m south-west of the Project area, and one registered bore for commercial and industrial use located 1305 m south-west of the Project area;
		• Most of the registered groundwater bores did not report standing water level (SWL) and elevation data; however, from the limited data available, SWLs reported by registered monitoring wells were:
		  ◦ 5.5 metres below ground level (m bgl) (GW801658) 792 m south-west of the Project area;
		  ◦ 7 m bgl (GW802908) 1014 m north;
		  ◦ 8 m bgl (GW805848) 1364 m north-east; and,
		  ◦ 10 m bgl (GW805114) 1225 m south-east.

Item	Description	
	Within the Project Area	**Surrounding Area**
Groundwater Dependent Ecosystems (GDEs)	Salt Water Creek was identified to be a high potential GDE as mapped by the Groundwater Dependent Ecosystem Atlas (BOM, 2020).	Vegetation identified by the NSW Native Vegetation Type Map (NSW DCCEW, 2024) as Southern Table and Grassy Box Woodland as well as Central and Southern Table River Oak Forest, located 110 m north and 766 m north-east of the Project Area, were identified to be a low potential GDE by the Groundwater Dependent Ecosystems Atlas (BOM, 2020).

Registered Groundwater Bores	The publicly available groundwater bore register - NGIS Boreholes (BOM; Water NSW, 2025) was reviewed and indicated:
	• There is one registered groundwater bore for stock and domestic use located on the Project area (GW052800) however SWL and elevation data were unavailable. Total well depth was recorded as 47.5 m bgl.
		The publicly available groundwater bore register was reviewed - NGIS Boreholes, BOM; Water NSW, 2025) and indicated:
		• There were a total of 17 registered groundwater bores for the purpose of stock/domestic use or water supply located within a 2,000 m radius of the Project area. There is one registered bore for groundwater monitoring located 792 m south-west of the Project area, and one registered bore for commercial and industrial use located 1305 m south-west of the Project area. There were no bores registered for drinking water use;
		• Most of the registered groundwater bores did not report SWL and elevation data; however, from the limited data available, SWLs reported by registered monitoring wells were:
		  ◦ 5.5 m bgl (GW801658) 792 m south-west of the Project area;
		  ◦ 7 m bgl (GW802908) 1014 m north;
		  ◦ 8 m bgl (GW805848) 1364 m north-east;
		  ◦ 10 m bgl (GW805114) 1225 m south-east;
		• Total well depths ranged from 2.1 m bgl (GW053895) to 120 m bgl (GW801658);
		• Most of the registered groundwater bores did not report salinity (total dissolved solids mg/L); however, from the limited data available, groundwater was primarily ranked as good (further elaboration of the term was unavailable), with the exception of one groundwater bore (GW037646) which was rated as fresh (0 - 1000 mg/L) located 1974 m south of the Project area.
		• Most groundwater bores did not report yield (L/s), however from the limited data available, yield (L/s) ranged between 0.650 L/s (GW802908) to 2.500 L/s (GW802728).

Item	Description	
	Within the Project Area	**Surrounding Area**
Heritage Items	No heritage items have been identified on the Project area based on a review of the following public registers: • The Commonwealth Heritage List (Australian Department of Climate Change, Energy, the Environment and Water (DCCEW, 2022); • National Heritage List (DCCEW, 2022); and, • State Heritage Register – Curtilages (NSW Department of Planning, Industry and Environment, 2025).	A historic homestead (Mayfield) is the only heritage item listed by NSW Environmental Planning Instrument (EPI) Heritage Bathurst Regional Local Environmental Plan 2014 (NSW Department of Planning Housing and Infrastructure) within 2,000 m of the Project area. Mayfield is located 679 m to the south-west of the Project area.
Natural Hazards	Bushfire prone land and bushfire history, as well as erosion (landslip, wind, water) and flood hazard and history have not been identified within the Project area, as discussed within the EIS (ERM, 2025).	Bushfire prone areas and bushfire history, as well as erosion (landslip, wind, water) and flood hazards and history have not been identified within the surrounding area (1,000 m) of the Project area, as discussed within the EIS (ERM, 2025).

4.2 HISTORICAL AERIAL PHOTOGRAPHS

A summary of historical aerial photographs reviewed is provided in **Table 4-2** below. Available aerial photographs from 1954 to 2024 were reviewed as part of this PSI.

Aerial photographs are provided within **Appendix B**.

TABLE 4-2 SUMMARY OF AERIAL PHOTOGRAPHS

Year	Summary of aerial photograph review	
	Within the Project Area	**Surrounding Areas (within approximately 1,000 m)**
1954	• The Project area appears to be used for agricultural purposes, with the vast majority being undeveloped. Rectangular plots are visible in some areas; • Salt Water Creek is visible in the northern portion of the Project area, with sparse vegetation bordering the creek. What appears to be an ephemeral creek is also visible in the south-eastern portion of the Project area, extending in a south-westerly direction; • Two clusters of buildings are pictured with access roads leading towards Tarana Road, with the properties surrounded by sparse vegetation. One cluster of buildings is visible in the south-central portion of the Project area (in the current location of the residential building and out-buildings), and the other cluster of buildings is located in the south-western portion of the Project area. A possible oval racing track is visible in the north-central portion of the Project area. Dams/ponds are visible to the east of each of the two clusters of buildings; and • An unknown dark-coloured, irregular-shaped area (approximately 150 m by 120 m) is visible in the north-eastern portion of the Project area. It does not appear to be associated with Salt	• The surrounding area appears to be used for agricultural purposes, with no major developments visible. A cluster of small buildings (possibly residential/rural) is visible approximately 500 m to the north-west of the Project area; • Sparse vegetation is visible on the land adjacent to the Project area on the north, which does not appear to have been cultivated; • The railway is visible adjacent to the north-eastern boundary of the Project area; • Salt Water Creek is visible to the north-east of the Project area, extending through the northern portion of the Project area and continuing to the north-west; • A large dam is visible approximately 400 m to the north-east of the Project area; • A tributary of Salt Water Creek is visible to the north-west of the Project area, likely flowing south into Salt Water Creek, and is surrounded by sparse vegetation; • The possibly ephemeral creek in the south-eastern portion of the Project area is visible extending to the east and south-west off-site; and • Tarana Road is visible adjacent to the southern boundary of the Project area.

Year	Summary of aerial photograph review	
	Within the Project Area	**Surrounding Areas (within approximately 1,000 m)**
	Water Creek or other surface water features such as dams, etc.	
1964	The Project area is largely unchanged from the 1954 aerial photograph except for: • A dam/pond is visible within the south-eastern portion of the Project area near the eastern boundary of the Project area. An additional dam/pond is visible to the north-west of the clusters of buildings located in the south-western portion of the Project area; • The oval racing track is no longer visible in the north-central portion of the Project area; • The unknown dark-coloured, irregular-shaped area (approximately 150 m by 120 m) visible in the 1954 aerial photograph in the north-eastern portion of the Project area appears as a lighter-coloured area with a possible small dam/pond in the centre.	The surrounding area appears largely unchanged from the 1954 aerial photograph, with the exception of the sparsely vegetated area to the north of the Project area showing evidence of cultivation.
1973	The Project area appears largely unchanged from the 1964 aerial photograph except for the following items: • The cluster of buildings in the south-eastern portion of the Project area is no longer visible; • Four new surface water dams/ponds are visible in the south-western, southern, north-eastern and central-western portions of the Project area; • The unknown dark-coloured, irregular-shaped area in the north-eastern portion of the Project area is darker-coloured than in the 1964 aerial photograph and appears to have grown in size; and • The northern portion of the Project area appears to have been cleared or is possibly affected by flooding from the adjacent Salt Water Creek.	The surrounding area appears largely unchanged from the 1964 aerial photograph, except for three dams/ponds visible approximately 150-500 m to the south of the Project area.

Year	Summary of aerial photograph review	
	Within the Project Area	**Surrounding Areas (within approximately 1,000 m)**
1984	The Project area appears largely unchanged from the 1973 aerial photograph except for the following item: • The unknown dark-coloured, irregular-shaped area in the north-eastern portion of the Project area is smaller in size compared to the 1973 aerial photograph, with a possible small dam/pond in the centre; and • Land has been cleared in the northern, south-western and south-eastern portions of the Project area.	The surrounding area appears largely unchanged from the 1973 aerial photograph, except for two additional dams/ponds being visible approximately 600-800 m to the north-east of the Project area and the dam/pond to the north-east of the Project area being significantly larger in size.
1993	The Project area appears largely unchanged from the 1984 aerial photograph except for the following items: • One additional small dam/pond is visible in the northern portion of the Project area; • Small stockpiles of material are visible in the northern portion of the Project area immediately south of Salt Water Creek, with possible machinery present; and • The unknown dark-coloured, irregular-shaped area in the north-eastern portion of the Project area appears to be vegetated and similar to surrounding areas, with a possible small dam/pond in the centre.	The surrounding area appears largely unchanged from the 1984 aerial photograph except for the following items: • One rural/residential building with an associated driveway is visible approximately 50 m to the south of the Project area on the southern side of Tarana Road; and • Construction work is visible near the south-west boundary of the Project area associated with Tarana Road.
2003	The Project area appears largely unchanged from the 1993 aerial photograph.	The surrounding area remains largely unchanged from the 1993 aerial photograph except for the following items: • One additional pond/dam is visible approximately 350 m to the north-west of the Project area on the northern side of Salt Water Creek; • The land directly to the north of the Project area across the railway appears to have been largely cleared, possibly due to livestock;

Year	Summary of aerial photograph review	
	Within the Project Area	**Surrounding Areas (within approximately 1,000 m)**
		• Two additional clusters of small buildings are visible to the south of the Project area on the southern side of Tarana Road; and • A dam/pond approximately 500 m to the south of the Project area appears to have been backfilled.
2014	The Project area appears largely unchanged from the 2003 aerial photograph, except for the following items: • The unknown dark-coloured, irregular-shaped area in the north-eastern portion of the Project area is lighter in colour than the surrounding area, possibly indicating it is dry and unvegetated; and • Other dams/ponds on the Project area also appear to be dry or smaller in extent compared to previous aerial photographs.	The surrounding area appears largely unchanged from the 2003 aerial photograph, with land and dams/ponds appearing to be dryer, and homestead/agricultural properties to the south, south-east and south-west of the Project area being more developed with vegetation present.
2024	The Project area appears largely unchanged from the 2014 aerial photograph, with the land and dams/ponds appearing to be less dry. The unknown dark-coloured area in the north-eastern portion of the Project area appears vegetated and similar to the surrounding area.	The surrounding area appears largely unchanged from the 2014 aerial photograph, noting land and dams/ponds appear significantly less dry.

4.3 HISTORICAL BUSINESS DIRECTORY

Historical business directories - Universal Business Directories (Hardie Grant Media Pty Ltd), were reviewed from 1950-1991 and did not identify any records for the Project Area or the surrounding area (500 m).

4.4 CONTAMINATED LAND REGISTERS

The NSW EPA Contaminated Land Public Record and Record of Notices were reviewed for current and former contaminated land records relating to the Project area or within 1,000 metres. No records or notices were identified.

4.5 NSW EPA LICENSES

The NSW EPA POEO Public Register was searched for current, surrendered or no longer in force licenses for activities conducted within the Project area and within 1,000 m as summarised in **Table 4-3** below.

TABLE 4-3 SUMMARY OF NSW EPA LICENSES WITHIN AND SURROUNDING THE PROJECT AREA

NSW EPA License No.	Status[1]	License Holder	Activity	Address and Location
Within the Project Area				
4653	Surrendered	Luhrmann Environment Management Pty Ltd	Other Activities / Non-Scheduled Activity - Application of Herbicides	Various Waterways throughout New South Wales, including Salt Water Creek and the unnamed creeks in the south-western and south-eastern portions of the Project Area
4838	Surrendered	Robert Orchard	Other Activities / Non-Scheduled Activity - Application of Herbicides	
6630	Surrendered	Sydney Weed & Pest Management Pty Ltd	Other Activities / Non-Scheduled Activity - Application of Herbicides	
Surrounding Areas				
13421	Issued	UGL Regional Linx Pty Ltd	Railway infrastructure activities	Country Regional Network, Orange, NSW 2800 (18 m north-east of the Project Area).
2231	Issued	Hynash Holdings Pty Ltd	Crushing, grinding or separating	3387 O'Connell Road, Brewongle, NSW 2795 (986 m south-west of the Project Area).

Notes:

(1) Issued – active license permitting operation of activity under specified conditions.

Surrendered – license holder has surrendered license when no longer required.

No longer in force - activity no longer requires a licence due to an amendment to Schedule 1 of the POEO Act.

4.6 NSW EPA ENVIRONMENT PROTECTION NOTICES

The NSW EPA POEO Public Register was reviewed for clean-up notices issued under the POEO Act for premises located on the Project area or within 1,000 m of the Project area. No records were identified.

4.7 ENVIRONMENTAL COMPLIANCE AND MANDATORY AUDITS

The NSW EPA POEO Public Register was reviewed for environmental audits issued under the POEO Act for premises located on the Project area or within 1,000 m of the Project area. No records were identified.

4.8 DEFENCE, MILITARY SITES AND UNEXPLODED ORDNANCE

The Defence Controlled Areas, Defence 3 Year Regional Contamination Investigation Program and National Unexploded Ordnance (UXO) records were reviewed premises located on the Project Area or within 2,000 m of the Project Area. No records were identified.

4.9 PFAS INVESTIGATION AND MANAGEMENT PROGRAMS

A search of NSW EPA, Australian Department of Defence and Airservices Australia records regarding investigation, remediation and management sites associated with known or potential PFAS use indicated that no premises were identified on the Project area or within 2,000 m of the Project area.

4.10 NATIVE VEGETATION

Native vegetation at the Project Area was assessed within *Streamlined Biodiversity Development Assessment Report* (EcoResolve, 2025) via desktop review and subsequent targeted field surveys. Desktop information on native vegetation from the NSW Department of Planning and Environment Native Vegetation Type Map is also provided within **Appendix B** for completeness; however, the assessment completed within EcoResolve (2025) is more applicable and specific to the Project area.

4.11 INFLOW DEPENDENT ECOSYSTEMS LIKELIHOOD

A search of the Bureau of Meteorology Groundwater Dependent Ecosystems Atlas identified inflow dependent ecosystems (IDE) on the Project area and within 1,000 m of the Project area. This information is summarised in **Table 4-4** below.

TABLE 4-4 INFLOW DEPENDENT ECOSYSTEMS

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Distance (m)
Within the Project Area				
Aquatic	**7**	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	River	0 m

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Distance (m)
Surrounding Areas				
Aquatic	9	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	River	24 m west
Terrestrial	6	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation	108 m north
Terrestrial	5	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation	179 m north
Terrestrial	10	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation	542 m north
Terrestrial	9	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation	631 m south-west
Terrestrial	7	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation	681 m north

4.12 SENSITIVE SPECIES

A search of the NSW BioNet Repository indicated that species with either a state or federal conservation status, or a sensitivity status had been sighted within 10 km of the Project area. These records are summarised in **Table 4-5** below**.**

TABLE 4-5 SENSITIVE SPECIES

Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status
Litoria aurea	Green and Golden Bell Frog	Not Sensitive	Endangered	Vulnerable
Litoria booroolongensis	Booroolong Frog	Not Sensitive	Endangered	Endangered
Anseranas semipalmata	Magpie Goose	Not Sensitive	Vulnerable	Not Listed
Anthochaera phrygia	Regent Honeyeater	Category 2	Critically Endangered	Critically Endangered
Aphelocephala leucopsis	Southern Whiteface	Not Sensitive	Vulnerable	Vulnerable
Apus pacificus	Fork-tailed Swift	Not Sensitive	Not Listed	Not Listed
Artamus cyanopterus cyanopterus	Dusky Woodswallow	Not Sensitive	Vulnerable	Not Listed

Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status
Calidris acuminata	Sharp-tailed Sandpiper	Not Sensitive	Vulnerable	Vulnerable
Calidris ferruginea	Curlew Sandpiper	Not Sensitive	Critically Endangered	Critically Endangered
Callocephalon fimbriatum	Gang-gang Cockatoo	Category 3	Endangered	Endangered
Calyptorhynchus lathami lathami	South-eastern Glossy Black-Cockatoo	Category 2	Vulnerable	Vulnerable
Circus assimilis	Spotted Harrier	Not Sensitive	Vulnerable	Not Listed
Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Not Sensitive	Vulnerable	Vulnerable
Coracina lineata	Barred Cuckoo-shrike	Not Sensitive	Vulnerable	Not Listed
Daphoenositta chrysoptera	Varied Sittella	Not Sensitive	Vulnerable	Not Listed
Epthianura albifrons	White-fronted Chat	Not Sensitive	Vulnerable	Not Listed
Falco subniger	Black Falcon	Not Sensitive	Vulnerable	Not Listed
Gallinago hardwickii	Latham's Snipe	Not Sensitive	Vulnerable	Vulnerable
Grantiella picta	Painted Honeyeater	Not Sensitive	Vulnerable	Vulnerable
Hieraaetus morphnoides	Little Eagle	Not Sensitive	Vulnerable	Not Listed
Hirundapus caudacutus	White-throated Needletail	Not Sensitive	Vulnerable	Vulnerable
Hylacola cauta	Shy Heathwren	Not Sensitive	Vulnerable	Not Listed
Melanodryas cucullata cucullata	South-eastern Hooded Robin	Not Sensitive	Endangered	Endangered
Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Not Sensitive	Vulnerable	Not Listed
Ninox connivens	Barking Owl	Category 3	Vulnerable	Not Listed
Ninox strenua	Powerful Owl	Category 3	Vulnerable	Not Listed
Parvipsitta pusilla	Little Lorikeet	Not Sensitive	Vulnerable	Not Listed
Petroica boodang	Scarlet Robin	Not Sensitive	Vulnerable	Not Listed
Petroica phoenicea	Flame Robin	Not Sensitive	Vulnerable	Not Listed
Pyrrholaemus sagittatus	Speckled Warbler	Not Sensitive	Vulnerable	Not Listed

Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status
Rostratula australis	Australian Painted Snipe	Not Sensitive	Endangered	Endangered
Stagonopleura guttata	Diamond Firetail	Not Sensitive	Vulnerable	Vulnerable
Stictonetta naevosa	Freckled Duck	Not Sensitive	Vulnerable	Not Listed
Keyacris scurra	Key's Matchstick Grasshopper	Not Sensitive	Endangered	Endangered
Paralucia spinifera	Purple Copper Butterfly, Bathurst Copper Butterfly	Not Sensitive	Endangered	Vulnerable
Chalinolobus dwyeri	Large-eared Pied Bat	Not Sensitive	Endangered	Endangered
Chalinolobus picatus	Little Pied Bat	Not Sensitive	Vulnerable	Not Listed
Dasyurus maculatus	Spotted-tailed Quoll	Not Sensitive	Vulnerable	Endangered
Falsistrellus tasmaniensis	Eastern False Pipistrelle	Not Sensitive	Vulnerable	Not Listed
Miniopterus orianae oceanensis	Large Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed
Myotis macropus	Southern Myotis	Not Sensitive	Vulnerable	Not Listed
Petaurus australis	Yellow-bellied Glider	Not Sensitive	Vulnerable	Vulnerable
Petaurus norfolcensis	Squirrel Glider	Not Sensitive	Vulnerable	Not Listed
Phascolarctos cinereus	Koala	Not Sensitive	Endangered	Endangered
Pteropus poliocephalus	Grey-headed Flying-fox	Not Sensitive	Vulnerable	Vulnerable
Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Not Sensitive	Vulnerable	Not Listed
Tympanocryptis mccartneyi	Bathurst Grassland Earless Dragon	Category 3	Critically Endangered	Critically Endangered
Eucalyptus aggregata	Black Gum	Not Sensitive	Vulnerable	Vulnerable

4.13 MINES AND QUARRIES

No mines or quarries (current, derelict or abandoned) were identified on the Project area or within 2,000 m of the Project area; however, the Statewide Seamless Geology for historical mining and exploration titles were reviewed and identified records for activities on the Project area and within 1,000 m of the Project area. Records are summarised below in **Table 4-6** below.

TABLE 4-6 HISTORICAL MINING & EXPLORATION TITLES

Title Reference	Title Holder	Start – End Date	Resource	Distance
Within the Project Area				
PEL0073	Wood, A.J.	Unknown	Petroleum	0 m
EL0260	Nickel Mines Limited	01.03.1970 – 01.03.1971	Minerals – Copper (Cu), Lead (Pb), Molybdenum (Mo), Zinc (Zn) and Silver (Ag).	
EL0958	Australian Oil & Gas Company Limited	01.12.1976 – 01.03.1978	Minerals – Cu, Pb, Zn, Ag	
It is noted that there was no other evidence of mining-related activities occurring on the Project area within the information reviewed as part of the PSI report.				
Surrounding Areas				
EL2732	Bathurst Brick Company Limited	03.12.1986 – 02.12.1990	Minerals - Granite Dimension Stone, Construction Materials	649 m south-west.
EL5378	Plato Mining Pty Ltd	01.11.1970 – 09.11.1999	Minerals	716 m south-west

4.14 PREVIOUS INVESTIGATIONS

No previous investigations were known to have been undertaken on the Project area at the time of this report.

5. SUMMARY OF DESKTOP REVIEW FINDINGS

Based on the desktop review presented in the preceding sections, the following Areas of Environmental Concern (AEC) have been identified which require further consideration:

- AEC-1 (Outside of the Project area) – Railway infrastructure located adjacent to the northern and north-eastern boundary of the Project area with the potential to have impacted the Project area in surrounding areas;
- AEC-2 (Within the Project area and outside of the Project area) – Historical mining and exploration;
- AEC-3 (Within the Project area and outside of the Project area) – Agricultural land potentially impacted by historical herbicide and pesticide applications; and
- AEC-4 (Within the Project area and outside of the Project area) – Agricultural land impacted by primary production activity.

A summary of the location and characteristics of each AEC is presented in **Table 5-1** and illustrated on **Figure 4, Appendix A**.

TABLE 5-1 AREAS OF ENVIRONMENTAL CONCERN

Area of Environmental Concern	Detail	Discussion/Comment
AEC-1 – Railway infrastructure	**Railway Infrastructure** An active railway is located adjacent to the northern and north-eastern boundary of the Project area and appears to have been in operation since at least the 1950s.	Activities associated with railways could have resulted in contamination occurring in soil, surface water and/or groundwater adjacent to the Project area, with potential for migration of contamination onto the Project area. COPCs include: • Petroleum hydrocarbons; • Polycyclic aromatic hydrocarbons (PAHs); • Solvents; • Heavy metals; • Herbicides and pesticides; and • Asbestos.
AEC-2 –Historical mining and exploration	**Historical Mining and Exploration Activity** Historical mining and exploration titles have been identified for the Project area and surrounding areas.	No specific mining activities were confirmed to have occurred on the Project area and in immediately surrounding areas; however, it is possible that limited activities could have occurred and that these activities could have resulted in contamination of soil, surface water and/or groundwater. COPCs include:

Area of Environmental Concern	Detail	Discussion/Comment
		• Petroleum hydrocarbons; • PAHs; • Solvents; • Heavy metals, particularly copper, lead, molybdenum, zinc and silver; and • Asbestos.
AEC-3 – Agricultural land potentially impacted by historical herbicide and pesticide applications	**Agricultural Land – Herbicide and Pesticide Applications** The Project area and surrounding areas have been associated with agricultural activity since at least the 1950s. Current licenses for herbicide and pesticide application were not identified for the Project area, however it is likely that herbicides and pesticides have been utilised on the Project Area and in surrounding areas during this time.	The use of herbicides and pesticides could have resulted in contamination of soil, surface water and/or groundwater on the Project area. COPCs include: • Herbicides; • Organochlorine and organophosphorus pesticides (OCP/OPPs); and • Heavy metals associated with herbicides and pesticides, particularly arsenic, copper, lead, cadmium, chromium, nickel, cobalt, zinc and mercury.
AEC-4- Agricultural Land potentially impacted by agricultural primary production activity	**Agricultural Land – Agricultural Primary Production Activity** The Project area and surrounding areas have been associated with agricultural activity since at least the 1950s. It is possible that fuels and degreasers were stored and/or used in relation to farm machinery/vehicle maintenance and that building construction/maintenance/demolition could have resulted in unlicensed disposal of waste materials on the Project area and in surrounding areas (i.e., buried waste), including animal carcasses.	No records regarding fuel/chemical use (with the exception of herbicides and pesticides noted in AEC-3) or historical unlicensed waste disposal were identified on the Project area or surrounding areas; however, it is possible these activities could have occurred and could have resulted in contamination of soil, surface water and/or groundwater on the Project aArea. COPCs include: • Petroleum hydrocarbons; • Solvents; • PAHs; • Polychlorinated biphenyls (PCBs); • Phenols; • Heavy metals; and • Asbestos.

6. PRELIMINARY CONCEPTUAL SITE MODEL

A preliminary CSM is a qualitative description of plausible mechanisms by which human and/or environmental receptors may be exposed to contamination. For exposure to be considered possible, some mechanism (a 'pathway') must exist by which impact from a given source can reach a given receptor. This is termed as a source-pathway-receptor (SPR) linkage.

- Where there is a connection between a **source** and a **receptor** there is potential for **exposure** to occur, and it is considered that there is a 'complete' pathway for exposure. Where the contaminant sources and receptors are not connected by pathways for exposure, it is considered that there is an 'incomplete' pathway for exposure;
- Pathways for exposure are considered **potentially complete** where sources of contamination are identified and receptors are identified, but where further investigation may be required to test whether a complete pathway for exposure is present; and
- Pathways for exposure are considered **unlikely to be complete** where the qualitative assessment demonstrates that either the source of contamination or the receptor is not present. However, there may be the need to obtain quantitative data to support that these pathways are incomplete.

The following sections summarise the preliminary CSM developed for the Project area.

6.1 POTENTIAL SOURCES OF CONTAMINATION

Based on a review of available information and the AECs identified in **Table 5-1,** the key potential sources of contamination identified within the Project area have been summarised in **Table 6-1** below.

TABLE 6-1 POTENTIAL SOURCES OF CONTAMINATION AND CONTAMINANTS OF POTENTIAL CONCERN

Area	Potential Sources of Contamination	COPCs
AEC-1	Railway infrastructure and operation	• Asbestos; • Total Recoverable Hydrocarbons (TRH); • PAHs; • Benzene, Toluene, Ethylbenzene, Xylene (BTEX); • Semi-volatile organic compounds (VOCs); • Volatile organic compounds (VOCs); • Heavy metals; and • OCPs/OPPs.
AEC-2	Mining activity, including operation and maintenance of associated plant and machinery	• Heavy metals; • TRH; • PAHs; • BTEX; • SVOCs; • VOCs; and • Asbestos
AEC-3	Historical and potentially current herbicide and pesticide application.	• Herbicides; • OCP/OPP; and • Heavy metals associated with herbicides and pesticides, particularly arsenic, copper, lead, cadmium, chromium, nickel, cobalt, zinc and mercury.
AEC-4	Primary production activity, including operation and maintenance of associated plant and machinery and unlicensed waste disposal (i.e., buried waste)	• Asbestos; • TRH; • BTEX; • SVOCs; • VOCs; • Heavy metals; • PAHs; • Phenols; and • Polychlorinated Biphenyls (PCBs).

6.2 POTENTIAL PATHWAYS

Environmental media potentially impacted by contamination arising from current/historical land use practices is summarised in **Table 6-2** below**.**

TABLE 6-2 DESCRIPTION OF POTENTIALLY IMPACTED MEDIA

Media	Potential Impacts
Soils/dust on- and offsite	• The most significant sources of soil contamination would be associated with deposition of metals from historical railway/mining activity, asbestos impacted infrastructure (railway or building/demolition material), where fuels/chemicals were used/stored, with soil impacts potentially extending to the underlying water table due to downward leaching; and • Surface impacts may be also associated with deposition/adsorption of contamination to soil from overland flow of impacted surface water.
Soil Vapour	• Soil vapour can become contaminated when volatile chemicals enter the soil. Subsurface sources may include underground storage tanks/sumps and contaminated soil and groundwater. If contaminated vapour enters a building, indoor air quality may be affected.
Surface water and sediment	• Primary impacts to surface water are likely to have occurred in areas where leaks or spills of fuels/chemicals/waste have occurred adjacent to where overland flow has occurred; and • Various COPCs may migrate, either dissolved or in colloidal suspension, in surface water that flows overland into nearby surface water bodies (Salt Water Creek and dams/ponds).
Groundwater on- and off-site	• Once impacts are present in shallow soils, they can migrate (leach) vertically downwards to underlying soils/groundwater; • As groundwater flows down-gradient from potential source areas, any COPCs present within shallow groundwater can be transported down-gradient of these source areas; and • Extraction and use of impacted groundwater may result in secondary accumulation of various COPCs in soil, sediment or surface water at the point of use.
Bioaccumulation	• Bioaccumulation of some contaminants (for example PCBs) through the food web is known to occur, with potential for increasing concentrations at higher trophic levels; • Aquatic bioaccumulation pathways, (e.g., from surface water into fish and through to birds), will generally report the most significant rates of bioaccumulation; and • Based on available data from several sites investigated in Australia, terrestrial bioaccumulation pathways, e.g., from soil into grass/pasture and through to livestock, will generally result in less significant rates of bioaccumulation.

6.3 POTENTIAL RECEPTORS

Potential receptors within the Project area and surrounding areas were identified to include:

- Future commercial/industrial on-site workers (following solar farm construction);
- On-site intrusive construction/maintenance workers undertaking subsurface work (during and following solar farm construction);
- Current and future residents/visitors in off-site residential properties;
- Off-site users of abstracted water (i.e., for drinking water, industrial, stock watering or irrigation purposes);
- On-site and off-site terrestrial ecosystems/organisms; and

- On-site and off-site aquatic ecosystems/organisms within Salt Water Creek and associated tributaries, including both ecological receptors and recreational human receptors.

6.4 POTENTIALLY COMPLETE SOURCE – PATHWAY – RECEPTOR LINKAGES

Potential sources of contamination, potentially affected media, potential transport pathways and associated potential receptors applicable to the Project area were identified within the preceding sections based on a review of the available information. The identified SPR linkages are presented in **Table 6-3**.

The development of the CSM is the fundamental step that describes the exposure pathway between the source of contamination, the receptor and exposure route or pathway (SPR). As part of the CSM, the linkages between these elements examines if a complete, potential or incomplete exposure pathway exists. The status of the exposure pathway determines the presence of risk to the environment and/or human health. Exposure pathway categories are summarised as follows:

- **Complete**: All elements are present. Actual risk exists;
- **Potentially complete**: One or more of the elements may not be present, and/or information is insufficient to eliminate or exclude the element. The potential for risk exists; and
- **Unlikely to be complete**: One or more of the elements are absent.

TABLE 6-3 SPR LINKAGE ASSESSMENT

Potential Sources	Media	Potential Pathway(s)	Potential Receptor(s)	Identified SPR Linkage	
				Human Health	Ecological
• AEC-1 – Railway infrastructure • AEC-2 –Historical mining and exploration • AEC-3 – Agricultural land potentially impacted by historical herbicide and pesticide applications • AEC-4- Agricultural Land potentially impacted by agricultural primary production activity	• Soil • Soil vapour • Groundwater • Surface water	Human Health: • Direct contact (all media); • Inhalation (vapours); and • Incidental ingestion (dust). Ecological: • Direct uptake (all media); and • Bioaccumulation and ingestion via the food web.	Human Health: • Future commercial/industrial on-site workers (following solar farm construction); • On-site intrusive construction/ maintenance workers undertaking subsurface work (during and following solar farm construction); • Current and future residents/ visitors in off-site residential properties; • Off-site users of abstracted water (i.e., for drinking water, industrial, stock watering or irrigation purposes); and • Recreational users of Salt Water Creek. Ecological: • Terrestrial ecological receptors; and • Aquatic ecological receptors in Salt Water Creek.	Based on a review of desktop information, ERM has made the following assessment of SPR linkages in relation to identified human receptors • Potential for inhalation of contaminated dust or asbestos fibres and direct contact/ incidental ingestion of contaminated soil or surface water during proposed construction works by onsite workers is considered **unlikely to be complete;** • Potential for direct contact/ingestion with contaminated surface water by offsite recreational users is considered **unlikely to be complete;** • Potential for dermal contact with contaminated soil or groundwater during proposed construction works by onsite workers is considered **unlikely to be complete;** • Potential for inhalation of vapours from contaminated soils/groundwater during proposed construction works by onsite workers is considered **unlikely to be complete;** • Potential for inhalation of contaminated dust by offsite users during the proposed construction works is considered **unlikely to be complete**. • Potential for off-site users of abstracted groundwater as drinking water, industrial water or stock water is considered **unlikely to be complete**.	Based on a review of desktop information, ERM has made the following assessment of SPR linkages in relation to identified ecological receptors: • Uptake of potential contamination by aquatic or terrestrial organisms due to surface water /groundwater flow into the adjacent Salt Water Creek during and after construction is considered **unlikely to be complete**; • Uptake of potential contamination by onsite ecological receptors due to potential soil contamination during and following construction is considered **unlikely to be complete**.

In summary, no complete or potentially complete SPR linkages were identified based on the information reviewed. Whilst it is possible that historical activities which may have occurred on the Project area or in surrounding areas could have resulted in contamination, there was no evidence that this had occurred and the potential risk to the identified receptors during construction and operation of the Project is considered to be low. The risk of unidentified contamination being encountered during the construction and operation of the Project can be mitigated via implementation of an Unexpected Finds Procedure.

7. QUALITATIVE EVALUATION OF RISK

The risk evaluation process adopted for the Project Area is consistent with *AS/NZS ISO 31000:2018 Risk Management – Guidelines*. The following tasks have been undertaken to identify, analyse and evaluate risks associated with current and historical use of the Project area and surrounding land resulting in potential impacts to human health, ecological values, and the broader receiving environment:

- Use of existing conditions and identification of applicable legislation and policy to establish the context for the risk evaluation;
- Development of likelihood and consequence criteria and a risk matrix;
- Consideration of construction and operational activities in the context of existing conditions to determine risk pathways;
- Identification of standard controls and requirements to mitigate identified risks; and
- Assignment of likelihood and consequence ratings for each risk to determine risk ratings for the Project area and proposed activities.

It is noted that the evaluation considers risk **prior to implementation of any mitigation and management measures**. Mitigation and management measures to manage / mitigate identified risks are discussed in **Section 8**.

7.1 RATING RISK

Risk ratings have been assessed by considering the consequences and likelihood of an event occurring. In assessing the consequence, the extent, severity and duration of the risk were considered.

7.1.1 ASSIGNING THE CONSEQUENCES OF RISK

'Consequence' refers to the maximum credible outcome of an event affecting an asset, value or use and the associated criteria have been assigned based on the maximum credible consequence of the risk pathway occurring. Where there is uncertainty or incomplete information, a conservative assessment adopting the precautionary principle has been made based on the maximum credible consequence.

Consequence criteria have been developed to consider the following characteristics, as summarised below in **Table 7-1.**

Severity was assigned a greater weighting than extent and duration as this is considered to be the most important characteristic.

Each risk pathway was assigned a value for each of the three characteristics, which was added together to provide an overall consequence rating as indicated in **Table 7-2** below.

TABLE 7-1 CONSEQUENCE CRITERIA

Characteristic	Factor	Value
Extent of impact	Wider region – contamination may migrate from Site boundary	4
	Contamination may extend to multiple site areas	3
	Contamination limited to the Project Area boundary but may extend up to 100 m	2
	Localised hotspots	1
Severity of impact	**Very High** • A very high degree of impact on an environmental asset, value or use of moderate or higher significance, or • A very high number of impacts on environmental assets, values or uses, or • Impacts on environmental assets, values or uses of a very high significance.	8
	High • A high degree of impact on an environmental asset, value or use of moderate or higher significance, or • A high number of impacts on environmental assets, values or uses; or • Impacts on environmental assets, values or uses of a high significance.	6
	Medium • A moderate degree of impact on an environmental asset, value or use of moderate or higher significance, or • A moderate number of impacts on environmental assets, values or uses, or • Impacts on environmental assets, values or uses of a moderate significance.	4
	Low • A low degree of impact on an environmental asset, value or use, or • A low number of impacts on environmental assets, values or uses, or • Impacts on environmental assets, values or uses of a lower significance.	2
	Very Low • A very low degree of impact on an environmental asset, value or use, or • A very low number of impacts on environmental assets, values or uses, or • Impacts on environmental assets, values or uses of a very low significance.	0
Duration of threat	Permanent (> 7 years)	4
	Long-term (>2 to 7 years)	3
	Medium-term (>3 month to 2 years)	2
	Short-term (0 to 3 months)	1

TABLE 7-2 CONSEQUENCE RATINGS

Value Total	2-4	5-7	8-10	11-13	14-16
Overall consequence	Negligible	Minor	Moderate	Major	Severe

7.1.2 ASSIGNING THE LIKELIHOOD OF RISKS

'Likelihood' refers to the chance of an event happening and the maximum credible consequence occurring from that event. The likelihood criteria used for this risk rating are presented in **Table 7-3** below.

TABLE 7-3 LIKELIHOOD CRITERIA

Likelihood	Description
Planned	The event is certain to occur or is associated with a planned event/maintenance activity etc.
Almost certain	The event is almost certain to occur one or more times in a year.
Likely	The event is likely to occur several times within a five-year timeframe.
Possible	The event may occur once within a five-year timeframe.
Unlikely	The event may occur under unusual circumstances but is not expected.
Rare	The event is very unlikely to occur but may occur in exceptional circumstances (i.e. once within a 100-year timeframe).

7.1.3 RISK MATRIX AND RISK RATING

Risk levels were assessed using the matrix presented in **Table 7-4** below.

TABLE 7-4 RISK MATRIX

Likelihood	Consequence				
	Negligible	Minor	Moderate	Major	Severe
Rare	Very low	Very low	Low	Medium	Medium
Unlikely	Very low	Low	Low	Medium	High
Possible	Low	Low	Medium	High	High
Likely	Low	Medium	Medium	High	Very high
Almost Certain/ Has Occurred	Low	Medium	High	Very high	Very high
Planned*	Planned				

*ERM notes that 'planned' likelihood was utilised (where required) to assess the risk of contamination resulting from a proposed activity to assess the level of environmental management that may be required.

7.1.4 RISK EVALUATION AND TREATMENT

The risk evaluation process was used as a screening tool to prioritise potential impacts and the subsequent level of assessment to be undertaken as part of potential further assessment. For example, an issue that was given a risk level of 'medium' or higher or was identified as a planned event with a consequence of 'minor' or higher, would be assigned a higher priority for assessment than a 'low' risk.

7.2 RISK EVALUATION METHODOLOGY

The methodology for the risk evaluation comprised the following:

- Summarising existing conditions with respect to potentially contaminated media (i.e., soil, groundwater, surface water, etc.) including specific information regarding known potential sources of contamination;
- Identifying potential environmental impacts associated with historical and current land uses including potential spills or leaks, and releases of vapour and/or ground gases;
- Identification of potential human health and ecological receptors of contamination exposed through historical or current land use;
- Identification of migration pathways and exposure routes by which contamination is exposed or released to human or ecological receptors by operational activities. Potential exposure routes for human and terrestrial/aquatic organisms are ingestion, inhalation and/or dermal contact. Each are dependent upon the contaminant involved and its properties;
- Identification of approaches to manage any other contamination encountered or generated during construction; and
- Identification of existing data and information relating to contamination exposed or released to the environment through historical and current land uses.

7.3 RISK EVALUATION

The following section assesses the specific risks from contamination associated with current and historical land use practices for each of the AECs identified within this PSI. The outcomes of the risk evaluation are presented within **Table 7-5** below.

TABLE 7-5 RISK EVALUATION - CONTAMINATION

AEC No.	Comments from this Investigation	Likelihood	Consequence (Extent, Severity, Duration)	Risk Rating
AEC-1 – Railway infrastructure	Based on the outcomes of the CSM presented within Section 6, no potentially complete or complete SPR linkages were identified. Whilst it is possible that historical activities which may have occurred on the Project Area or in surrounding areas could have resulted in contamination, there was no evidence that this had occurred.	**Possible**	**Minor (1,4,2)**	**Low**
AEC-2 –Historical mining and exploration	Based on the outcomes of the CSM presented within Section 6, no potentially complete or complete SPR linkages were identified. Whilst it is possible that historical activities which may have occurred on the Project Area or in surrounding areas could have resulted in contamination, there was no evidence that this had occurred.	**Possible**	**Minor (1,4,2)**	**Low**
AEC-3 – Agricultural land potentially impacted by historical herbicide and pesticide applications	Based on the outcomes of the CSM presented within Section 6, no potentially complete or complete SPR linkages were identified. Whilst it is possible that historical activities which may have occurred on the Project area or in surrounding areas could have resulted in contamination, there was no evidence that this had occurred.	**Possible**	**Minor (1,4,2)**	**Low**
AEC-4- Agricultural land potentially impacted by agricultural primary production activity	Based on the outcomes of the CSM presented within Section 6, no potentially complete or complete SPR linkages were identified. Whilst it is possible that historical activities which may have occurred on the Project Area or in surrounding areas could have resulted in contamination, there was no evidence that this had occurred.	**Possible**	**Minor (1,4,2)**	**Low**

8. MITIGATION AND MANAGEMENT MEASURES

The preliminary CSM was developed for the Project area based on the outcomes of the information reviewed as part of this PSI and was presented within **Section 6.** In consideration of the risk evaluation presented within **Section 7**, ERM considers that there is a low risk to human health and/or sensitive ecological receptors associated with current and historical land use practices undertaken within the five AECs.

ERM considers that the low risks discussed in **Section 7** can be successfully managed through the implementation of the mitigation measures outlined herein.

Mitigation measures to manage identified potential impacts are outlined in **Table 8-1** below.

TABLE 8-1 MITIGATION MEASURES - CONTAMINATION

Objective	Mitigation Measure	Timing
Managing unexpected contamination during construction	An Unexpected Finds Procedure should be developed as part of the Construction Environmental Management Plan (CEMP) and implemented during construction of the project. The Unexpected Finds Procedure should include requirements for cessation of works within the affected area until after the following has occurred: • Inspection of the suspected contamination by a qualified contaminated land specialist; • Collection of samples for analysis based on observations (soil, groundwater, surface water, etc.), followed by laboratory analysis; • Assessment of laboratory analytical results against applicable land use or waste classification criteria in accordance with applicable statutory guidelines; and • Management of the contamination in accordance with applicable statutory guidelines.	• Construction • Operation (intrusive maintenance work) – if required based on observations during construction

Based on the low risk rating assigned to each of the AECs identified within this PSI, it is considered that further investigation is not required prior to commencement of construction of the Project.

9. CONCLUSIONS AND RECOMMENDATIONS

The objective of this PSI was to assess past and present potentially contaminating activities and land uses associated with the Project and its surrounds, the likelihood of contamination (which includes soils, groundwater, ground gas, surface water and sediments, where applicable) the potential contamination types and need for further investigation/ management.

This technical report provides an assessment of the potential for contamination to be present at the Project area associated with current and historical land use practices and has been prepared to support the State Significant Development Application for the Project.

Based on the preliminary CSM developed for the Project area as part of this PSI, ERM classified the relative level of risk of contamination associated with current and historical land use practices as summarised in **Table 9-1** below. The evaluation considered risk **prior to implementation of any mitigation and management measures**.

TABLE 9-1 RELATIVE LEVEL OF RISK OF CONTAMINATION

AEC No.	Likelihood	Consequence (Extent, Severity, Duration)	Risk Rating
AEC-1 – Railway infrastructure	**Possible**	**Minor (1,4,2)**	**Low**
AEC-2 –Historical mining and exploration	**Possible**	**Minor (1,4,2)**	**Low**
AEC-3 – Agricultural land potentially impacted by historical herbicide and pesticide applications	**Possible**	**Minor (1,4,2)**	**Low**
AEC-4- Agricultural land potentially impacted by agricultural primary production activity	**Possible**	**Minor (1,4,2)**	**Low**

Based on the qualitative risk evaluation undertaken as part of this PSI, ERM recommends that an Unexpected Finds Procedure be developed and implemented for the Project's construction program as detailed within **Section 8**. The Unexpected Finds Procedure could also be implemented for future intrusive maintenance work associated with ongoing operation of the Project, if required. It is considered that the risks outlined above can be successfully managed through the implementation of the Unexpected Finds Procedure described above.

Based on the low risk rating assigned to each of the AECs identified within this PSI, it is considered that further investigation is not required prior to commencement of construction of the Project.

10. REFERENCES

AS/NZS ISO 31000:2018. Risk Management – Guidelines

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11. STATEMENT OF LIMITATIONS

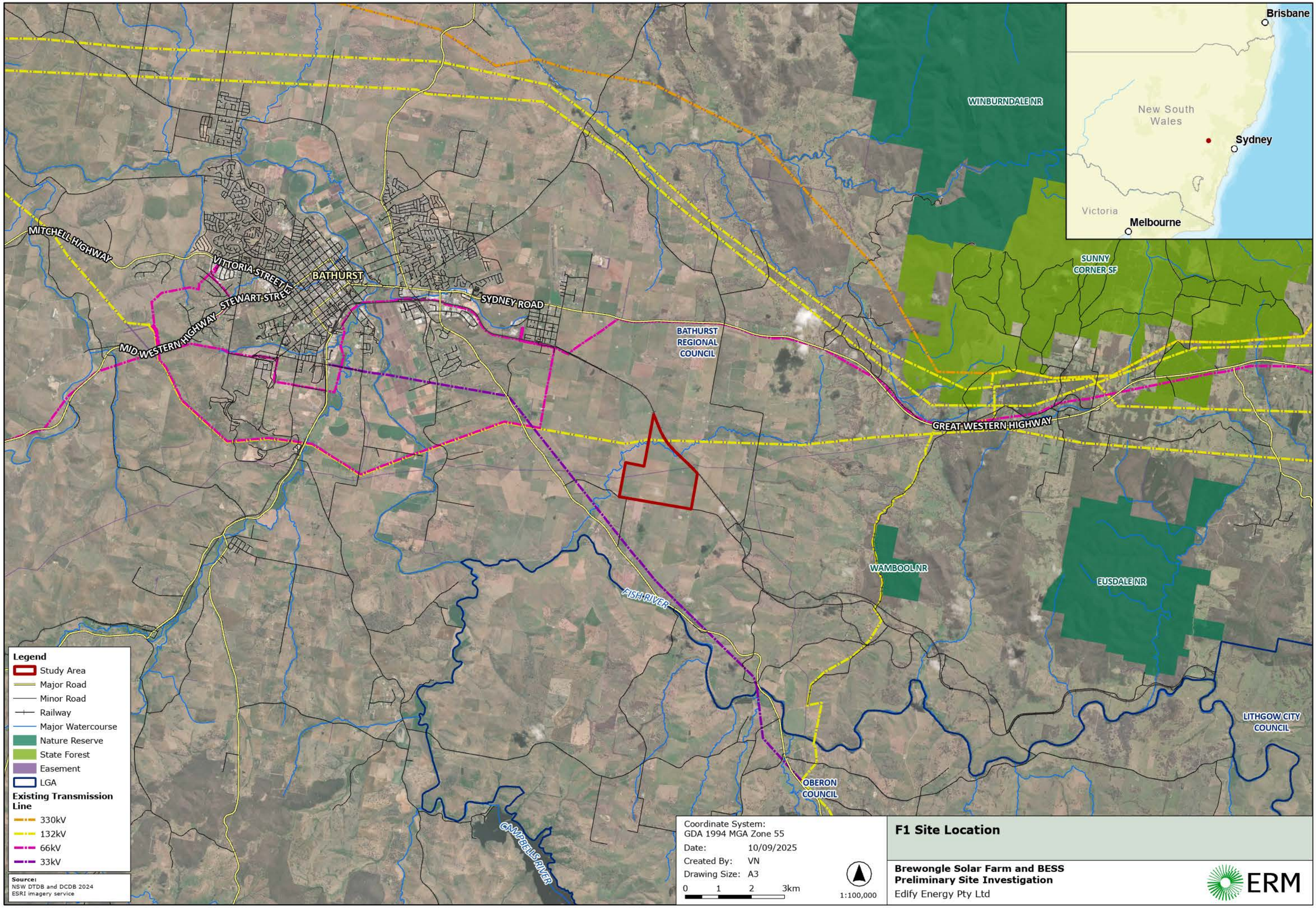
ERM performed the services in line with the objectives detailed above in a manner consistent with the normal level of care and expertise exercised by members of the environmental consulting profession. No warranties, expressed or implied, are made. In addition, it should be noted that, due to time and access constraints, no guarantee or warranty is implied, or can be given, that compliance with all environmental legislation will or can be identified.

This report is not intended to be used for the purposes of tendering, programming of works, refurbishment works, or demolition works unless used in conjunction with a specification detailing the extent of the works. To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only.

All conclusions regarding the properties are the professional opinions of the ERM personnel involved with the project, subject to the qualifications made above. While normal assessments of data reliability have been made, ERM assumes no responsibility or liability for errors in any data obtained from third parties (e.g. third-party reports), statements from sources outside of ERM, or developments resulting from situations outside the scope of this project.

ERM is not engaged in environmental consulting and reporting for the purpose of advertising, sales, promoting, or endorsement of any client interests, including raising investment capital, recommending investment decisions, or other publicity purposes. The Client acknowledges that this report is for the exclusive use of the Client, its representatives and advisers and investors, lenders, underwriters and financiers who agreed to execute a reliance letter, and the Client agrees that ERM's report or correspondence will not be, except as set forth herein, used or reproduced in full or in part for such promotional purposes, and may not be used or relied upon in any prospectus or offering circular.

APPENDIX A FIGURES

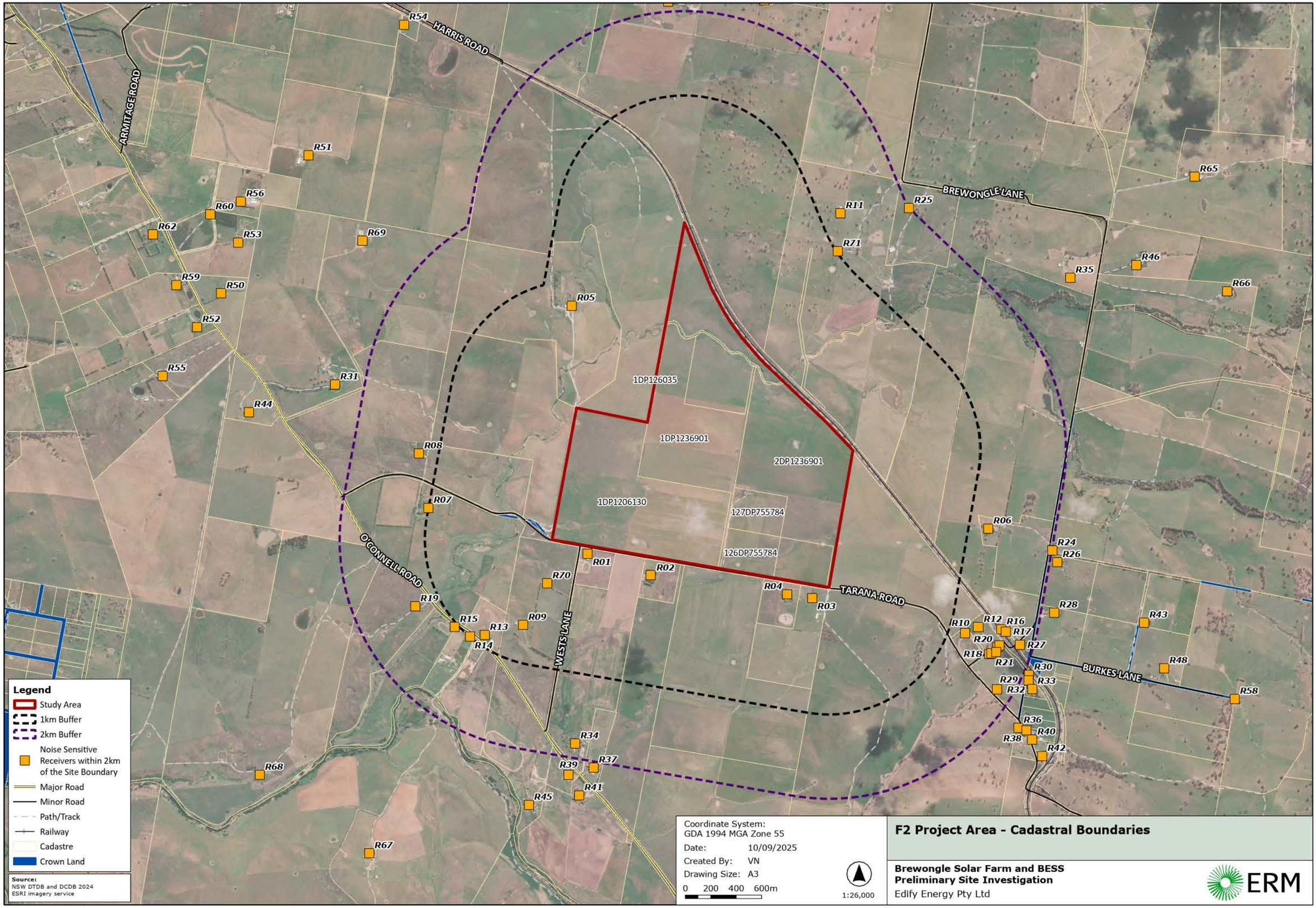


F1 Site Location

Brewongle Solar Farm and BESS
Preliminary Site Investigation
Edify Energy Pty Ltd

ERM

0735137_BSF_PSI_R0.aprx



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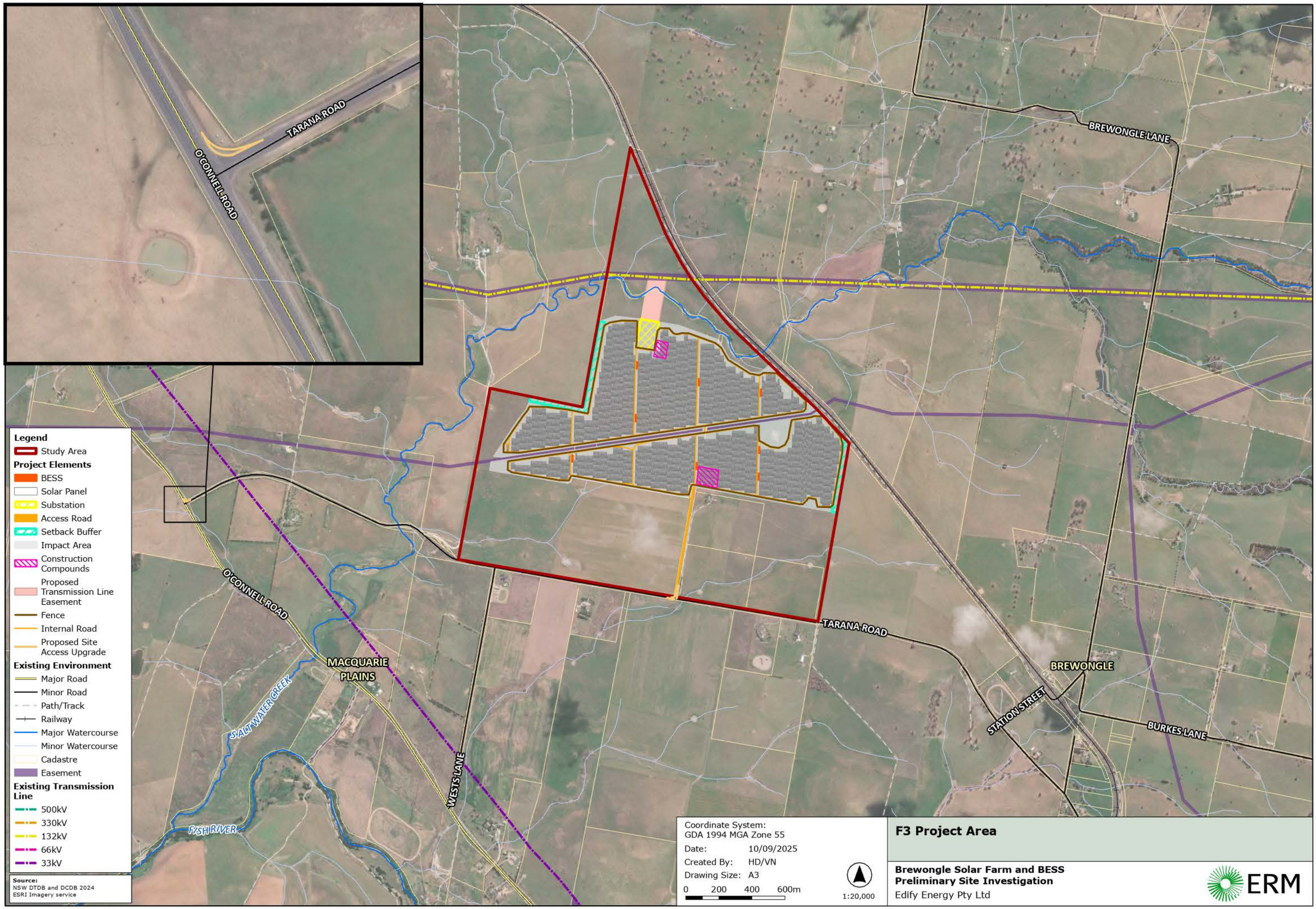

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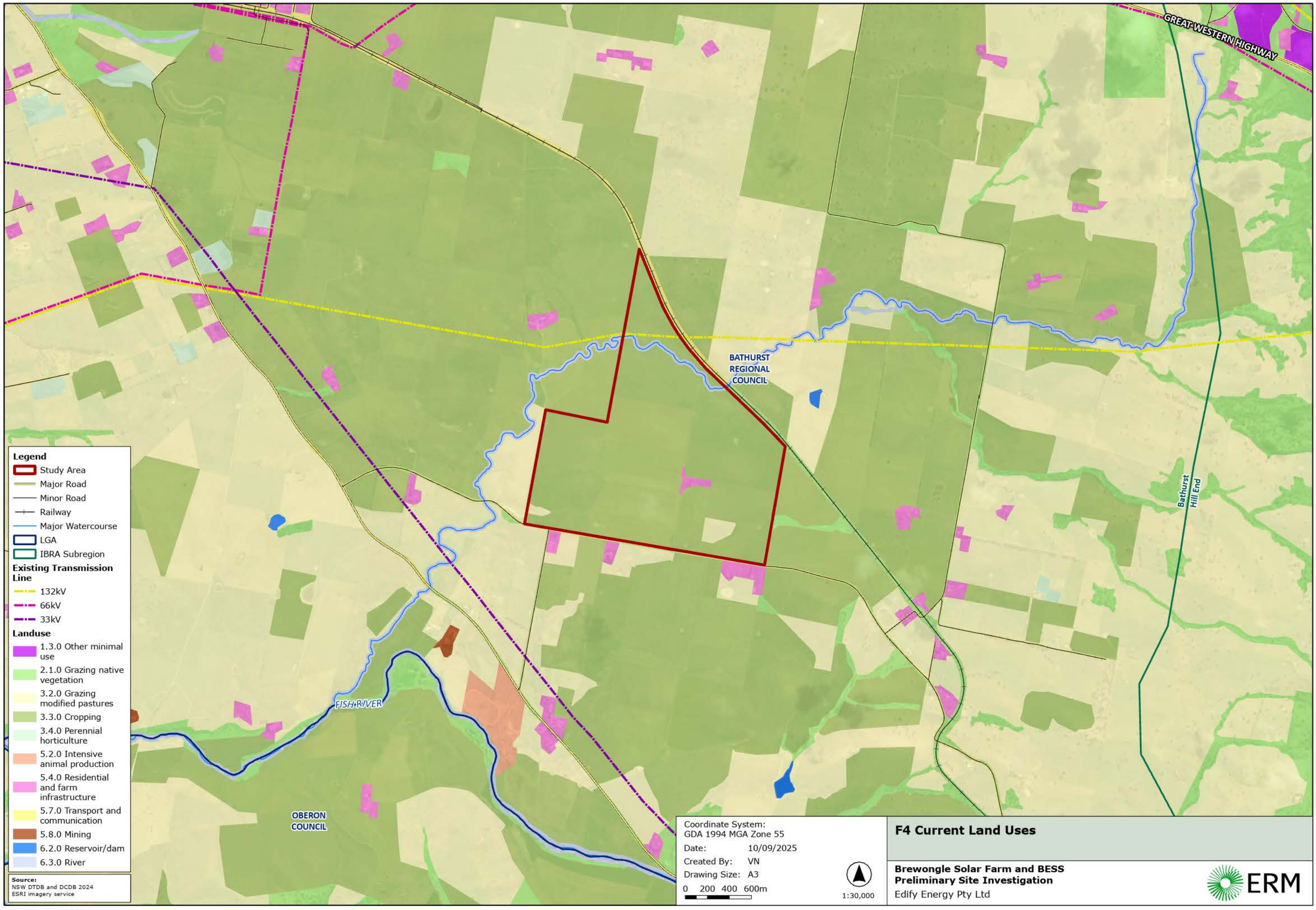

F4 Current Land Uses

Brewongle Solar Farm and BESS
Preliminary Site Investigation
Edify Energy Pty Ltd

ERM

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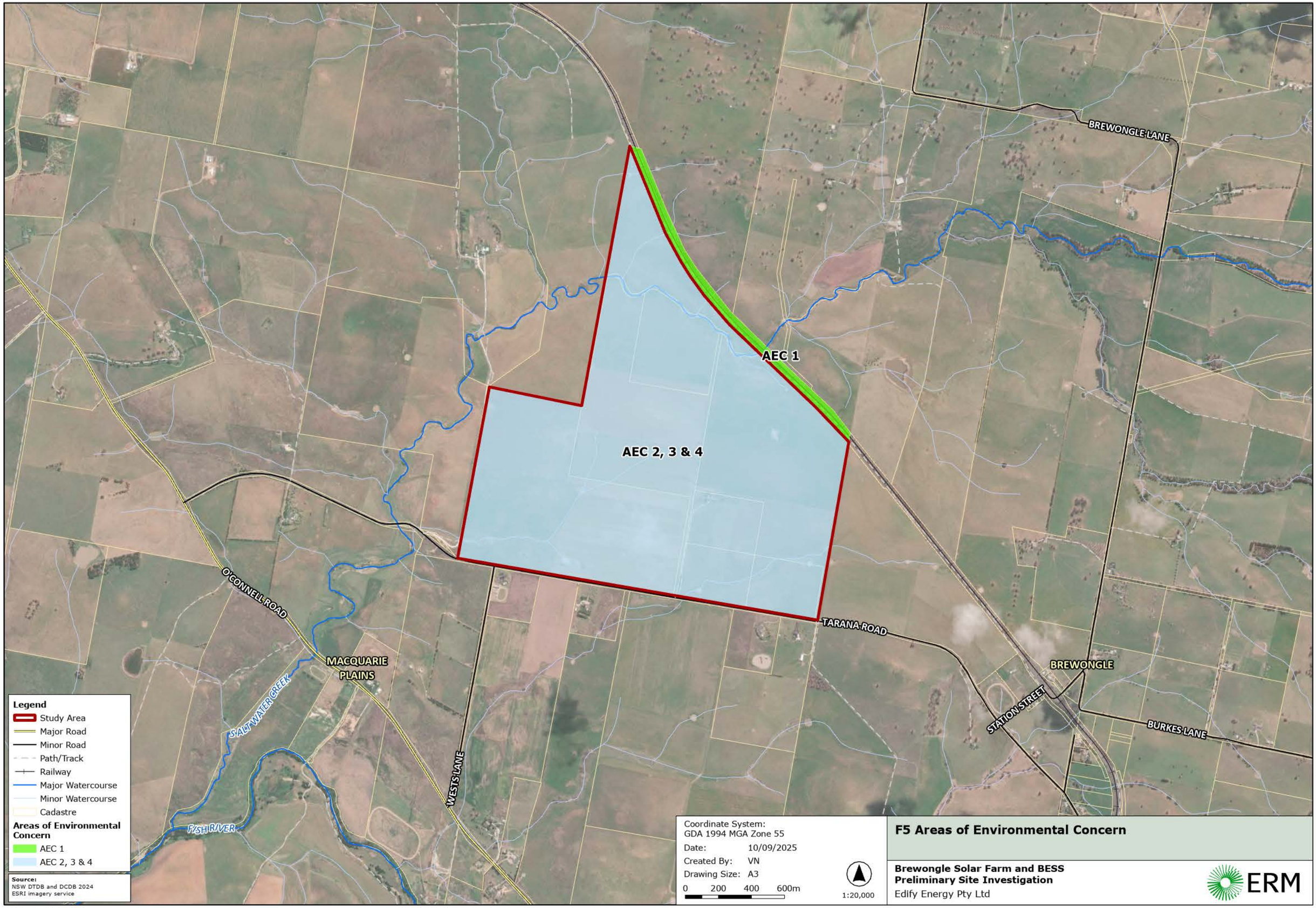

F5 Areas of Environmental Concern

Brewongle Solar Farm and BESS
Preliminary Site Investigation
Edify Energy Pty Ltd

ERM

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APPENDIX B DESKTOP SEARCH RESULTS

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 27 Aug 2025 16:56:11

Reference: LS094812 EP

Address: Tarana Road, Brewongle, NSW 2795

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

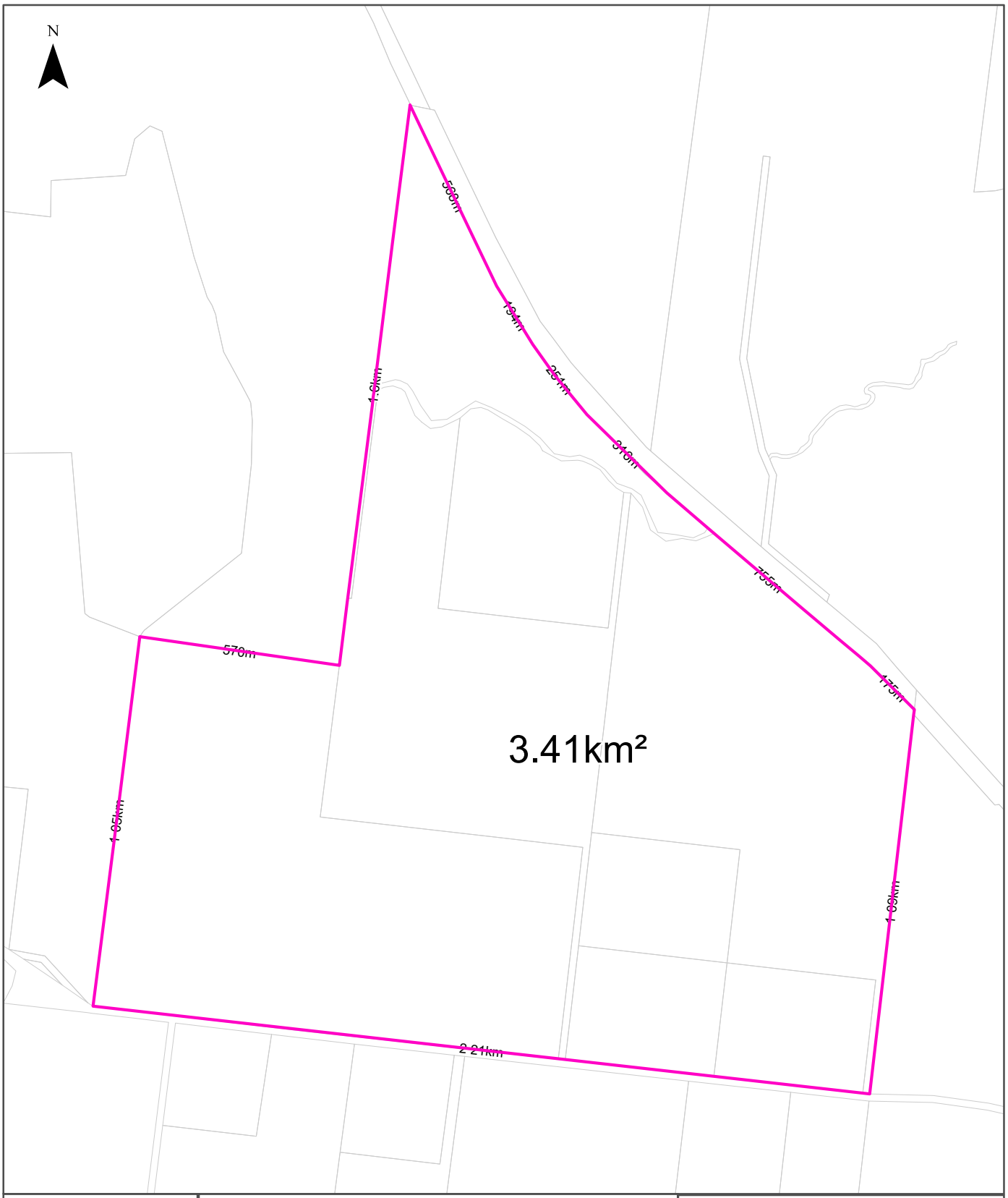
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	30/07/2025	30/07/2025	Monthly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	20/05/2025	20/05/2025	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority NSW	13/08/2025	08/07/2025	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority NSW	13/08/2025	13/08/2025	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority NSW	14/08/2025	23/06/2025	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority NSW	04/08/2025	04/08/2025	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	30/05/2025	19/01/2023	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	16/10/2024	19/01/2023	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority NSW	01/08/2025	05/02/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	14/08/2025	14/08/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	14/08/2025	14/08/2025	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	14/08/2025	21/05/2025	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	15/07/2025	15/07/2025	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	14/08/2025	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Australian Department of Defence	15/07/2025	15/07/2025	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority NSW	28/11/2024	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority NSW	25/08/2025	25/08/2025	Monthly	1000m	0	1	2
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority NSW	25/08/2025	25/08/2025	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority NSW	25/08/2025	25/08/2025	Monthly	1000m	3	3	3
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	1	1	6
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	2	2	4
State Forest	Forestry Corporation of NSW	18/12/2024	11/11/2024	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Geoscience Australia	22/04/2025	19/08/2019	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024	NSW Department of Climate Change, Energy, the Environment and Water	08/08/2025	28/06/2024	Quarterly	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	30/05/2025	04/03/2025	Annually	2000m	1	1	18
NSW Seamless Geology Single Layer: Rock Units	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	1	1	4
NSW Seamless Geology Single Layer: Geological Boundaries and Faults	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	1	1	1
NSW Seamless Geology Single Layer: Trendlines	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	0	0	2
NSW Seamless Geology Single Layer: Fold Axes	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Department of Primary Industries and Regional Development	05/05/2025	30/09/2015	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	15/01/2025	17/02/2011	Annually	1000m	1	1	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Climate Change, Energy, the Environment and Water	18/12/2024	27/07/2020	Annually	1000m	3	3	3
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Housing and Infrastructure	31/07/2025	09/05/2025	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	15/01/2025	21/02/2013	Annually	1000m	1	1	1
Dryland Salinity - National Assessment	Australian Bureau of Agricultural and Resource Economics and Sciences	03/06/2025	15/04/2025	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service	18/08/2025	18/08/2025	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Primary Industries and Regional Development	08/08/2025	08/08/2025	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Primary Industries and Regional Development	08/08/2025	08/08/2025	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Primary Industries and Regional Development	08/08/2025	08/08/2025	Monthly	1000m	3	3	5
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Housing and Infrastructure	31/07/2025	08/09/2023	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Housing and Infrastructure	31/07/2025	25/07/2025	Monthly	1000m	1	3	5
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	18/08/2025	25/07/2025	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Housing and Infrastructure	31/07/2025	25/07/2025	Monthly	1000m	0	0	1
Bush Fire Prone Land	NSW Rural Fire Service	30/07/2025	29/07/2025	Monthly	1000m	0	0	0
NSW Native Vegetation Type Map	NSW Department of Climate Change, Energy, the Environment and Water	28/05/2025	04/10/2024	Quarterly	1000m	4	4	10
Ramsar Wetlands of Australia	Australian Department of Climate Change, Energy, the Environment and Water	19/05/2025	05/03/2025	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	19/06/2024	Annually	1000m	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	30/06/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000m	1	1	2
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000m	1	2	7
NSW BioNet Species Sightings	NSW Department of Climate Change, Energy, the Environment and Water	29/07/2025	29/07/2025	Monthly	10000m	-	-	-

Site Diagram

Tarana Road, Brewongle, NSW 2795



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 3.41km²

Total Perimeter: 8.78km

Disclaimers:

Measurements are approximate only and may have been simplified or smaller lengths removed for readability.

Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Scale:

0 75 150 300 450 600 750

Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 27 August 2025

Contaminated Land

Tarana Road, Brewongle, NSW 2795

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
N/A	No records in buffer								

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority

Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority

EPA Notices

Penalty Notices, s.91 & s.92 Clean up Notices and s.96 Prevention Notices within the dataset buffer:

Map ID	Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
N/A	No records in buffer											

NSW EPA Notice Data Source: Environment Protection Authority

Waste Management & Liquid Fuel Facilities

Tarana Road, Brewongle, NSW 2795

National Waste Management Facilities Database

Sites on the National Waste Management Facilities Database within the dataset buffer:

Map ID	Owner	Name	Address	Management Type	Facility Type	Status	Loc Conf	Dist	Dir
N/A	No records in buffer								

Source: Waste Management Facilities Database

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
N/A	No records in buffer										

National Liquid Fuel Facilities Data Source: Geoscience Australia

PFAS Investigation & Management Programs

Tarana Road, Brewongle, NSW 2795

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites and Unexploded Ordnance

Tarana Road, Brewongle, NSW 2795

Defence Controlled Areas (DCA)

Defence Controlled Areas provided by the Department of Defence within the dataset buffer:

Site ID	Location Name	Loc Conf	Dist	Dir
N/A	No records in buffer			

Defence Controlled Areas, Data Custodian: Department of Defence, Australian Government

Defence 3 Year Regional Contamination Investigation Program (RCIP)

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

National Unexploded Ordnance (UXO)

Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
N/A	No records in buffer							

National Unexploded Ordnance (UXO), Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

Tarana Road, Brewongle, NSW 2795

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

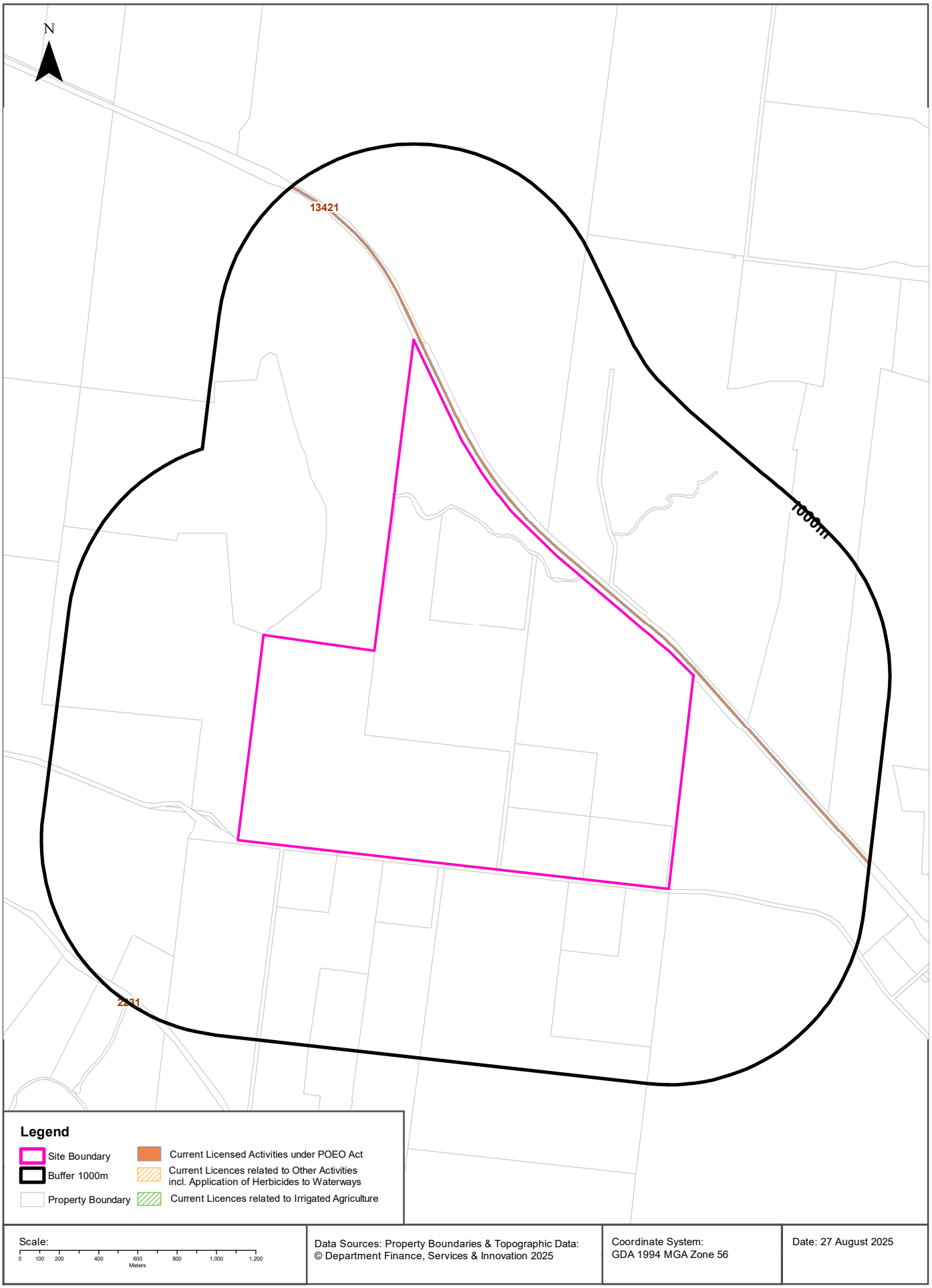
Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority

Current EPA Licensed Activities

Tarana Road, Brewongle, NSW 2795



EPA Activities

Tarana Road, Brewongle, NSW 2795

Licensed Activities under the POEO Act 1997

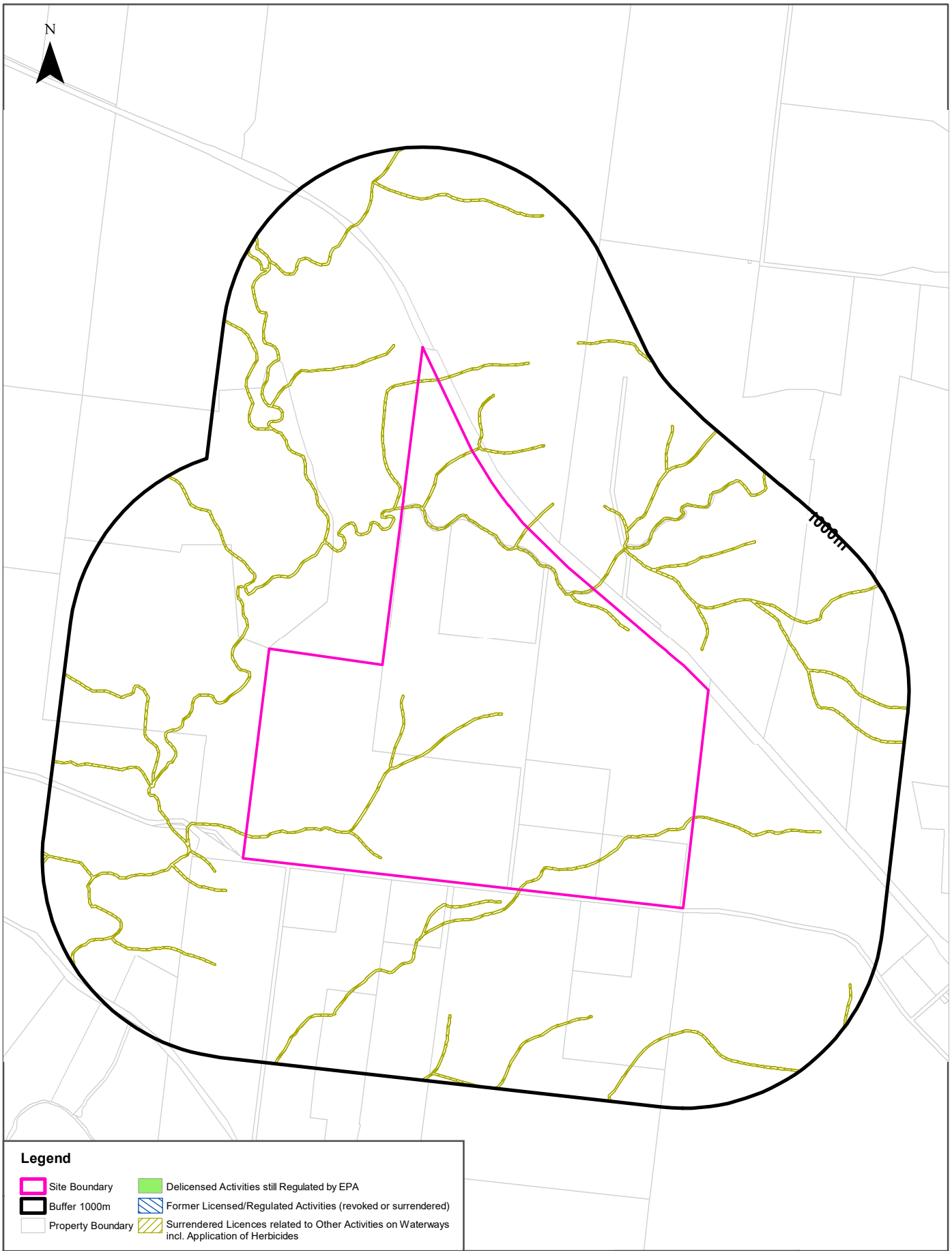
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
13421	UGL REGIONAL LINX PTY LTD		COUNTRY REGIONAL NETWORK, ORANGE, NSW 2800		Railway systems activities	Network of Features	18m	North East
2231	HYNASH HOLDINGS PTY LTD	G & T LOGISTICS OBERON ROAD	3387 O'CONNELL ROAD, BREWONGLE, NSW 2795	BATHURST	Crushing, grinding or separating	Premise Match	986m	South West

POEO Licence Data Source: Environment Protection Authority

Delicensed & Former Licensed EPA Activities

Tarana Road, Brewongle, NSW 2795



EPA Activities

Tarana Road, Brewongle, NSW 2795

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

Delicensed Activities Data Source: Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site

Former Licensed Activities Data Source: Environment Protection Authority

Historical Business Directories

Tarana Road, Brewongle, NSW 2795

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1982, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

Business Directory Records 1950-1991
Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

Historical Business Directories

Tarana Road, Brewongle, NSW 2795

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

Dry Cleaners, Motor Garages & Service Stations
Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

Aerial Imagery 2024

Tarana Road, Brewongle, NSW 2795

Scale:
0 180 360 540 720
Meters

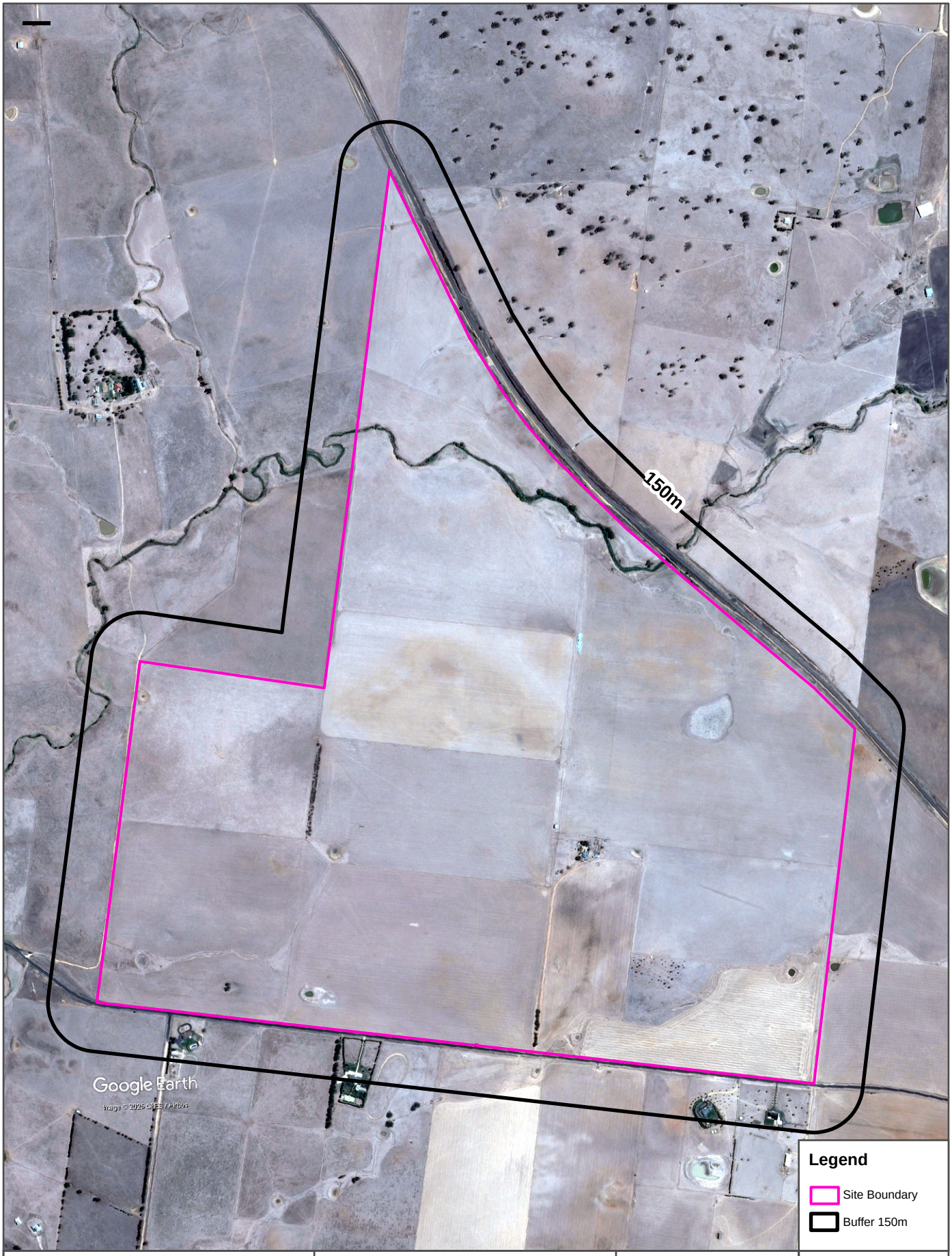
Data Source Aerial Imagery: © 2025 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 August 2025

Aerial Imagery 2014

Tarana Road, Brewongle, NSW 2795



Scale:
0 180 360 540 720
Meters

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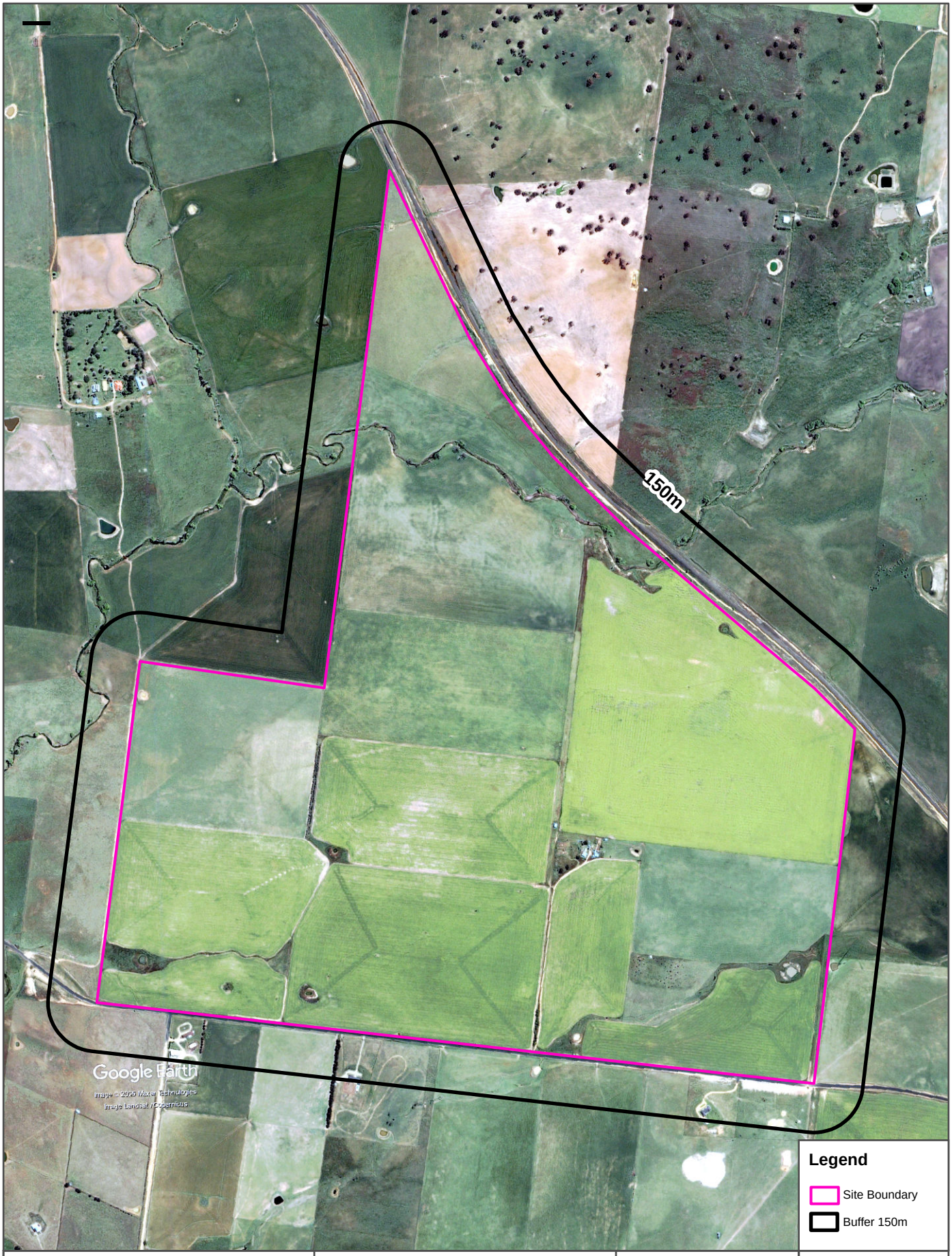
Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 August 2025

Aerial Imagery 2003

Tarana Road, Brewongle, NSW 2795



Scale:
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Meters

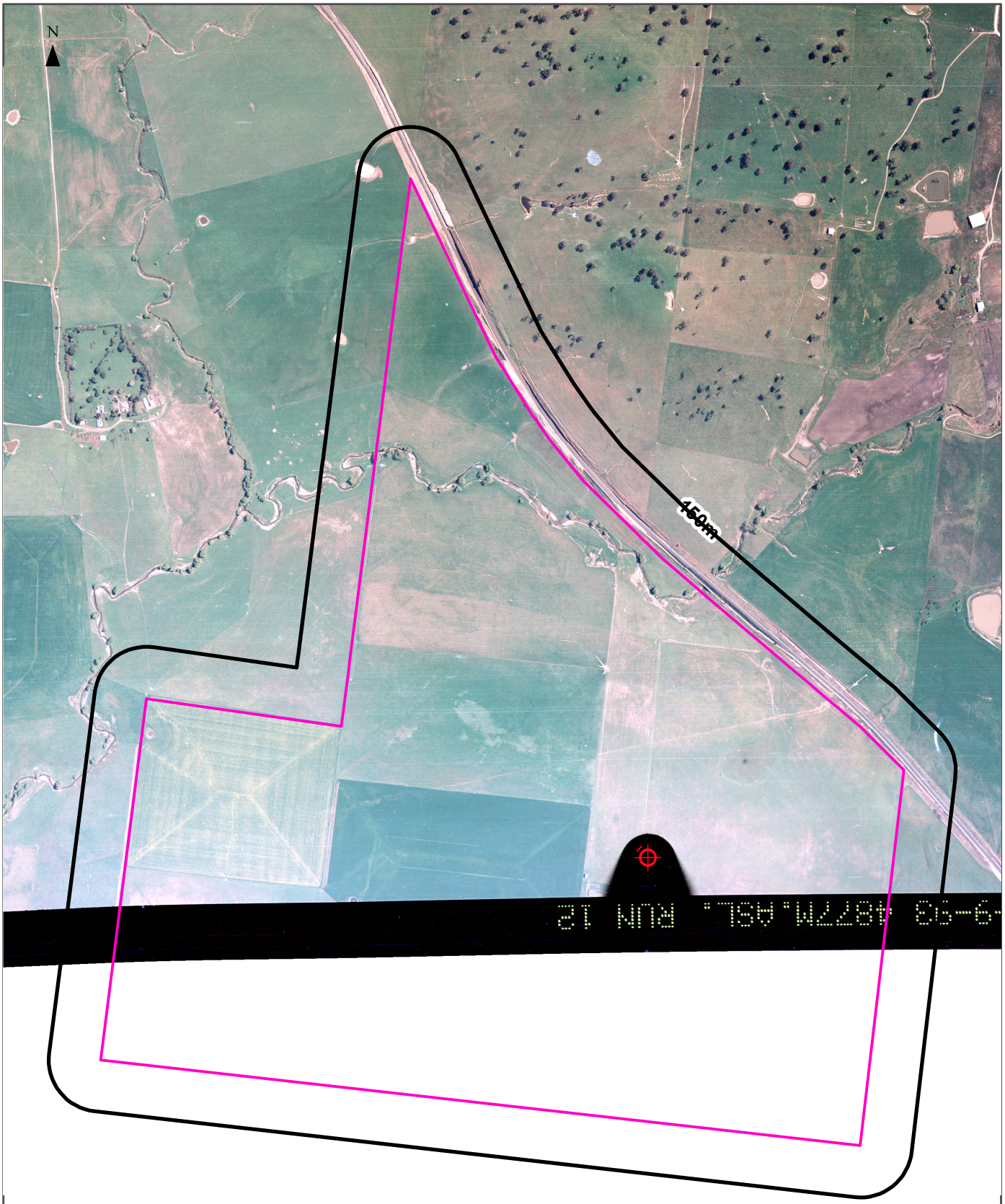
Data Source Aerial Imagery: © 2025 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 August 2025

Aerial Imagery 1993

Tarana Road, Brewongle, NSW 2795



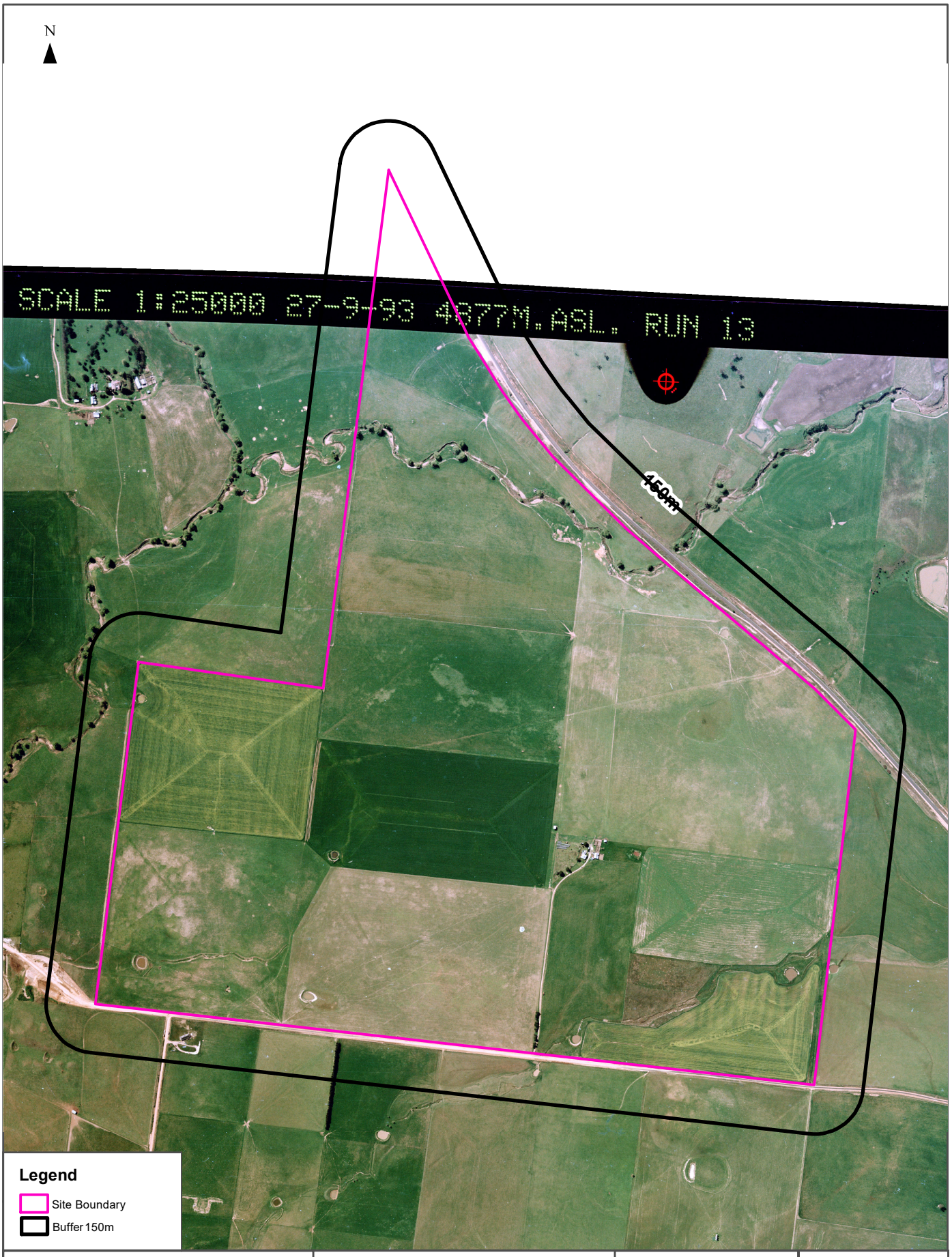
Legend

- Site Boundary
- Buffer 150m

Scale:	Data Source Aerial Imagery:	Coordinate System:	Date: 01 September 2025
0 180 360 540 720 Meters	© NSW Department of Customer Service	GDA 1994 MGA Zone 56	

Aerial Imagery 1993

Tarana Road, Brewongle, NSW 2795



Scale:
0 180 360 540 720
Meters

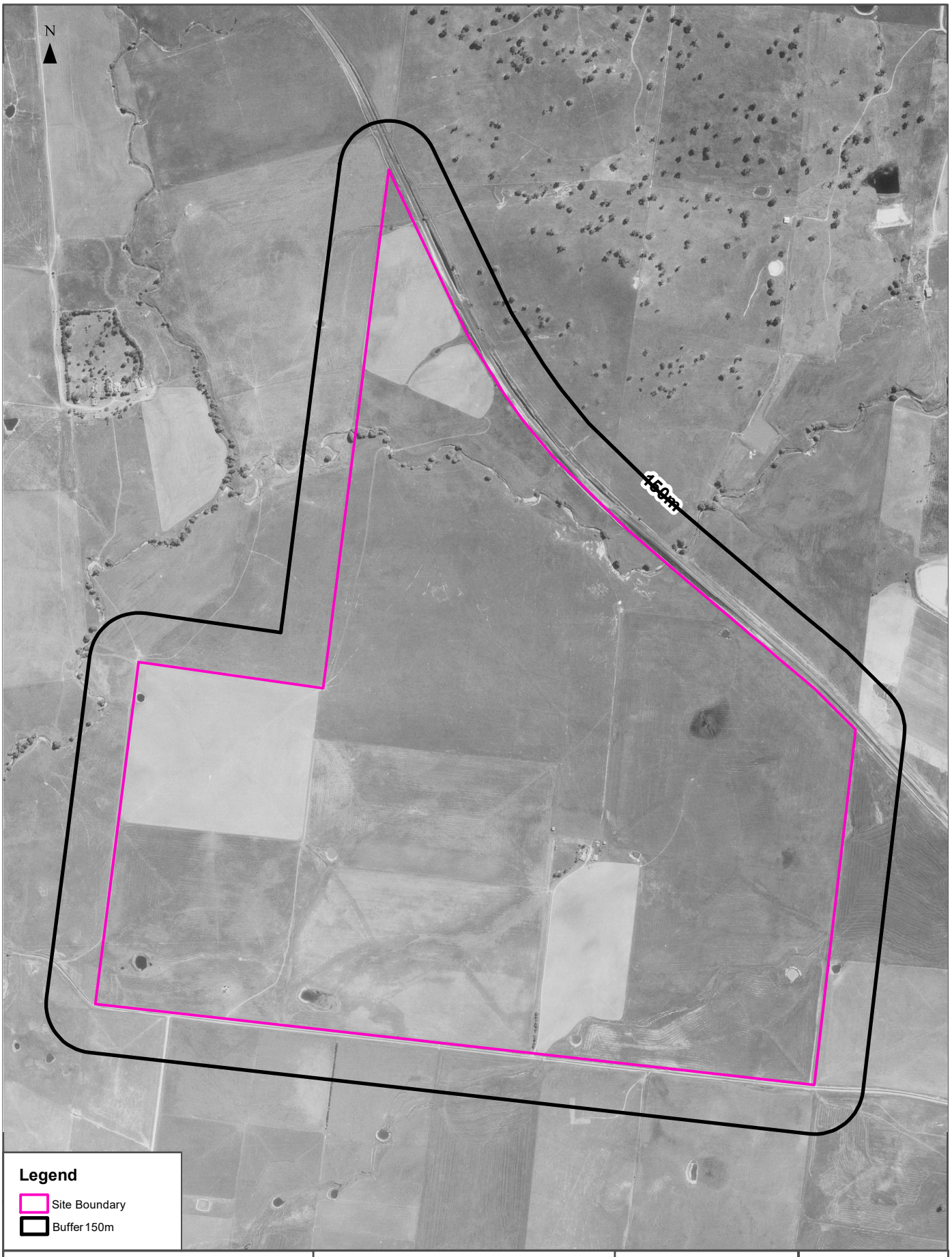
Data Source Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 01 September 2025

Aerial Imagery 1984

Tarana Road, Brewongle, NSW 2795



Scale:
0 180 360 540 720
Meters

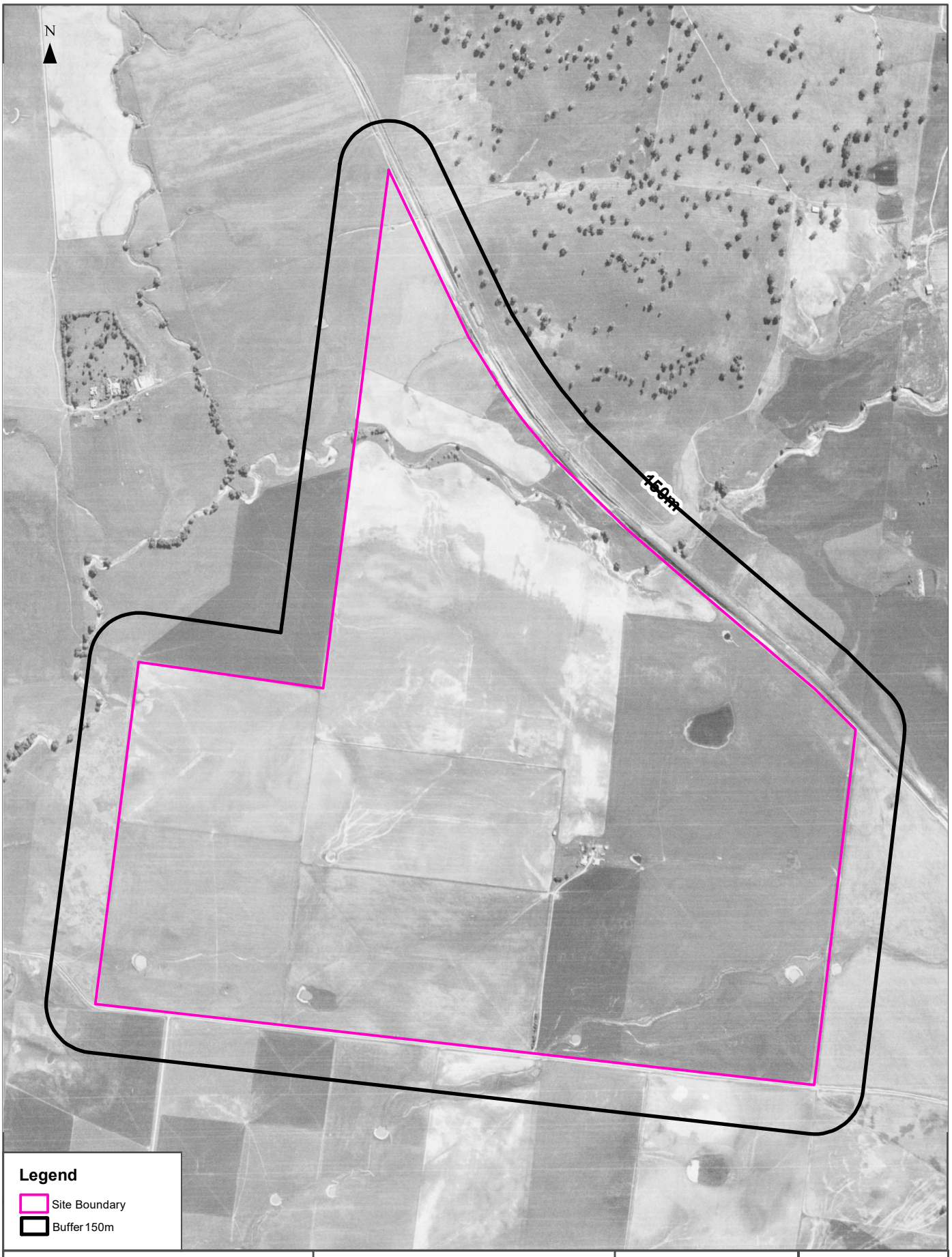
Data Source Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 01 September 2025

Aerial Imagery 1973

Tarana Road, Brewongle, NSW 2795



Aerial Imagery 1964

Tarana Road, Brewongle, NSW 2795

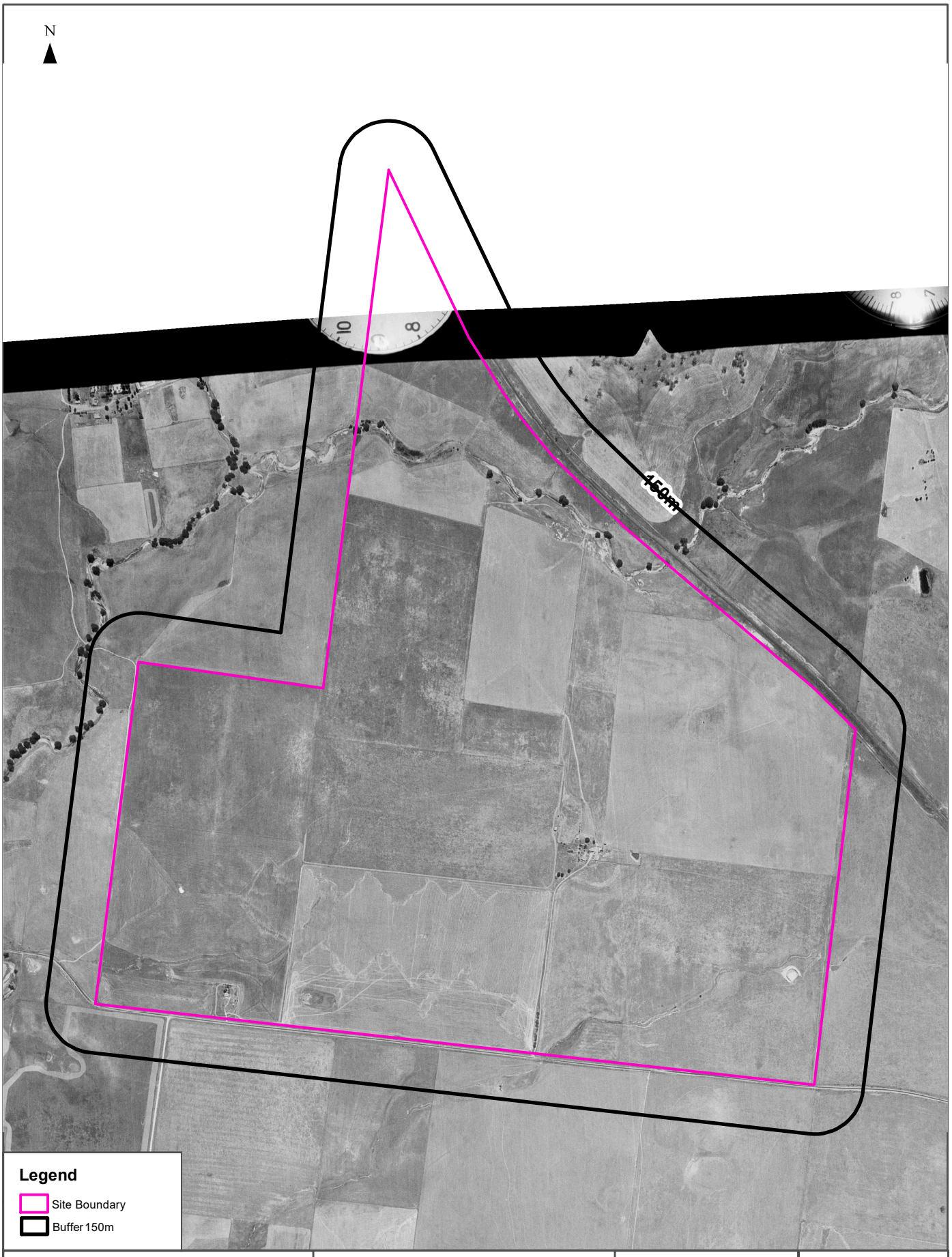
Legend

- Site Boundary
- Buffer 150m

Scale:	Data Source Aerial Imagery:	Coordinate System:	Date: 01 September 2025
0 180 360 540 720 Meters	© NSW Department of Customer Service	GDA 1994 MGA Zone 56	

Aerial Imagery 1964

Tarana Road, Brewongle, NSW 2795



Scale:
0 180 360 540 720
Meters

Data Source Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 01 September 2025

Aerial Imagery 1954

Tarana Road, Brewongle, NSW 2795

Scale:
0 180 360 540 720
Meters

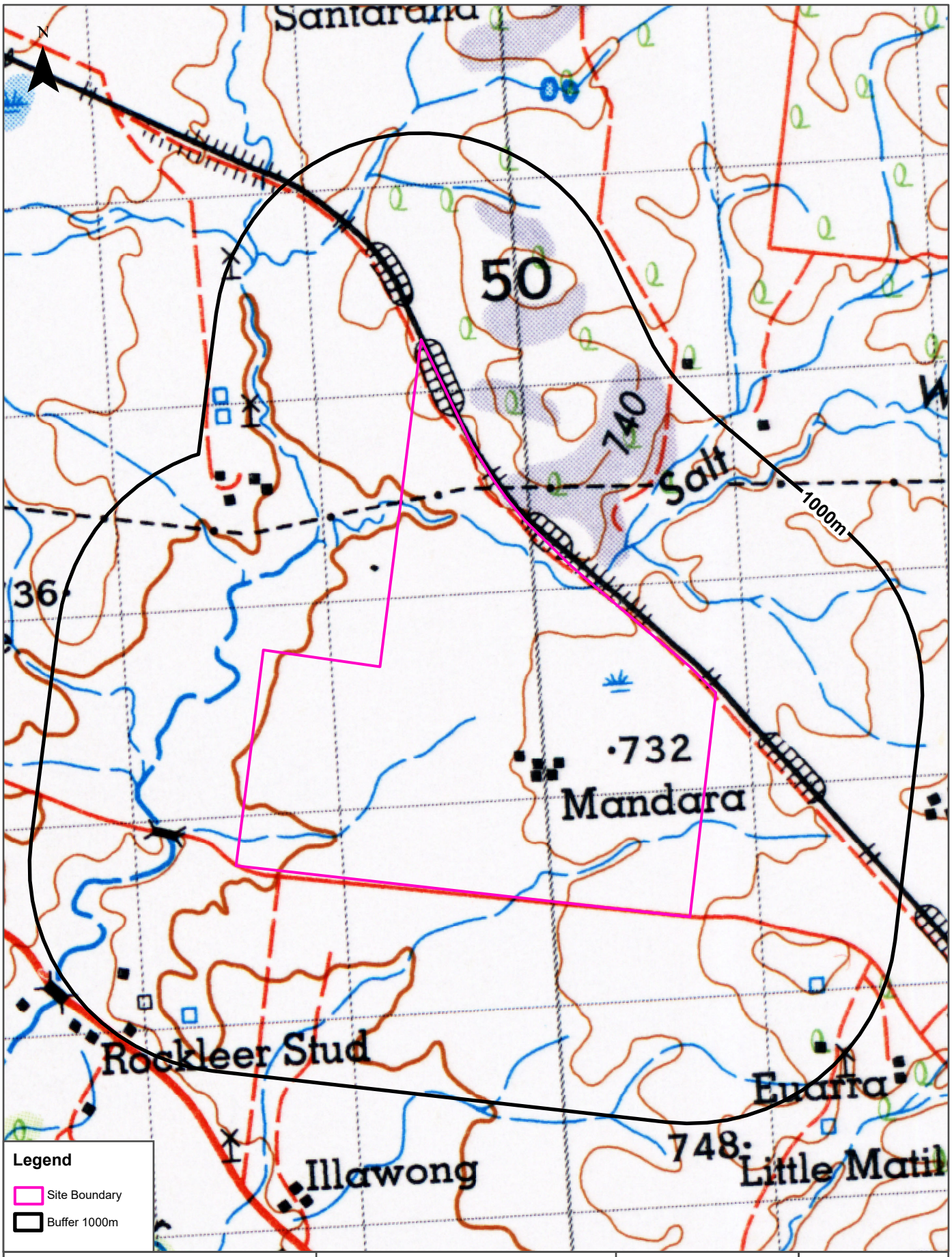
Data Source Aerial Imagery: © 2025 Geoscience Australia

Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 August 2025

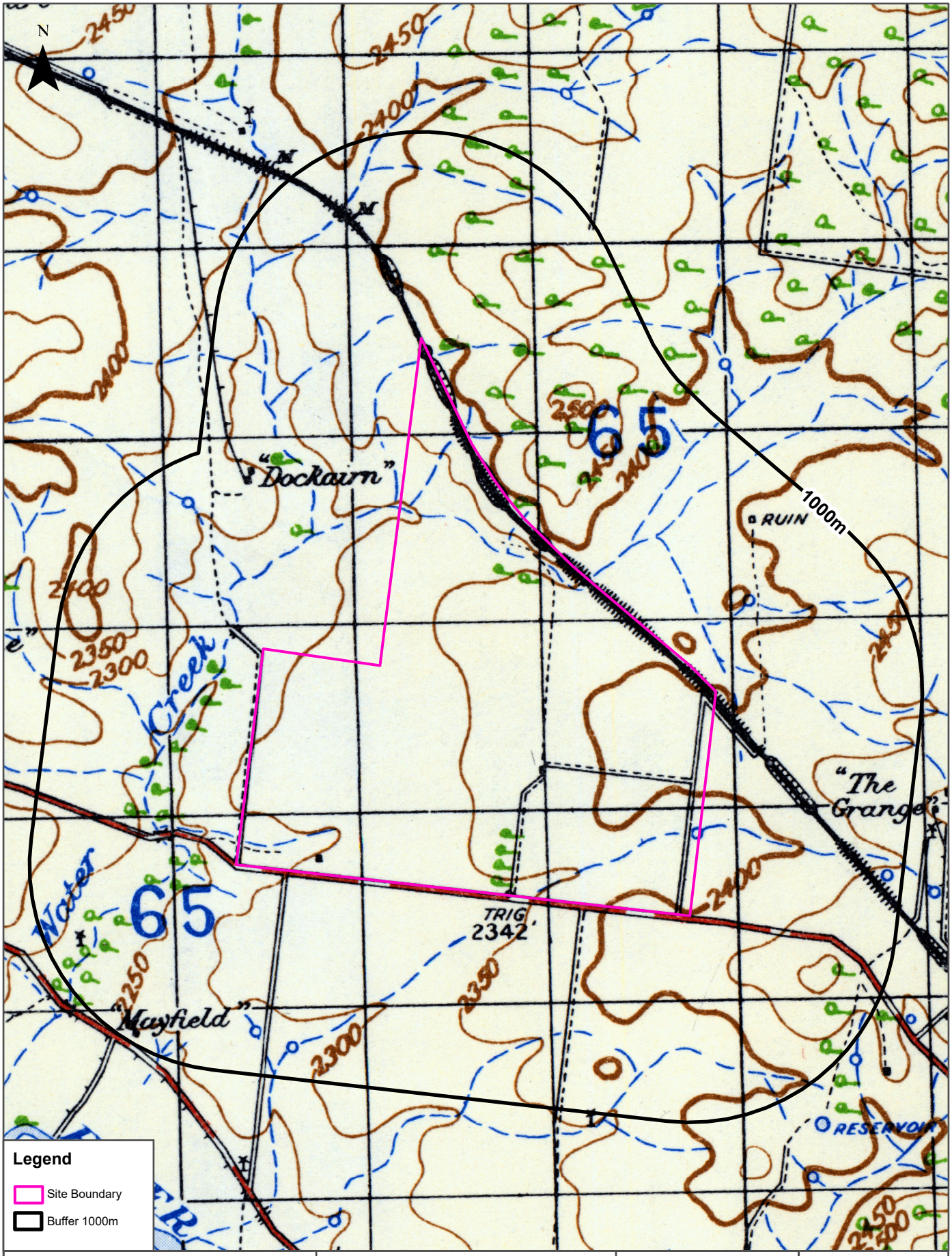
Historical Map 1975

Tarana Road, Brewongle, NSW 2795



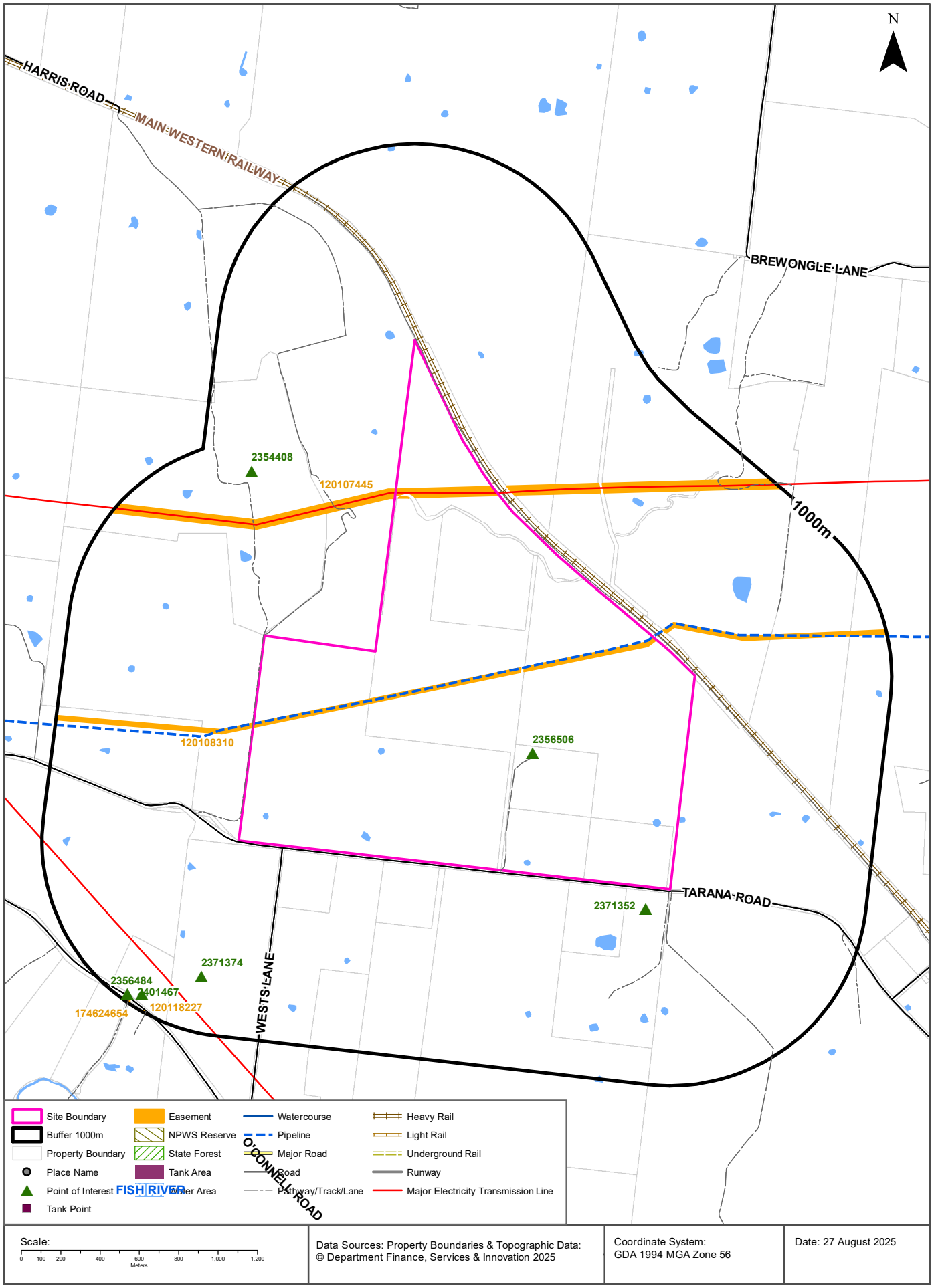
Historical Map c.1936

Tarana Road, Brewongle, NSW 2795



Topographic Features

Tarana Road, Brewongle, NSW 2795



Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2025

Coordinate System:
GDA 1994 MGA Zone 56

Date: 27 August 2025

Topographic Features

Tarana Road, Brewongle, NSW 2795

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
2356506	Homestead	MANDARA	0m	On-site
2371352	Homestead	WESTPOINT	111m	South East
2371374	Homestead	MACQUARIE	717m	South West
2354408	Homestead	DOCKAIRNE	741m	North West
2356484	Homestead	MAYFIELD	925m	South West
2401467	Rural Place	MACQUARIE PLAINS	964m	South West

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Major Easements

What Major Easements exist within the dataset buffer?
Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120107445	Primary	Undefined		0m	On-site
120108310	Primary	Undefined		0m	On-site
174624654	Primary	Right of way		987m	South West
120118227	Primary	Undefined		993m	South West

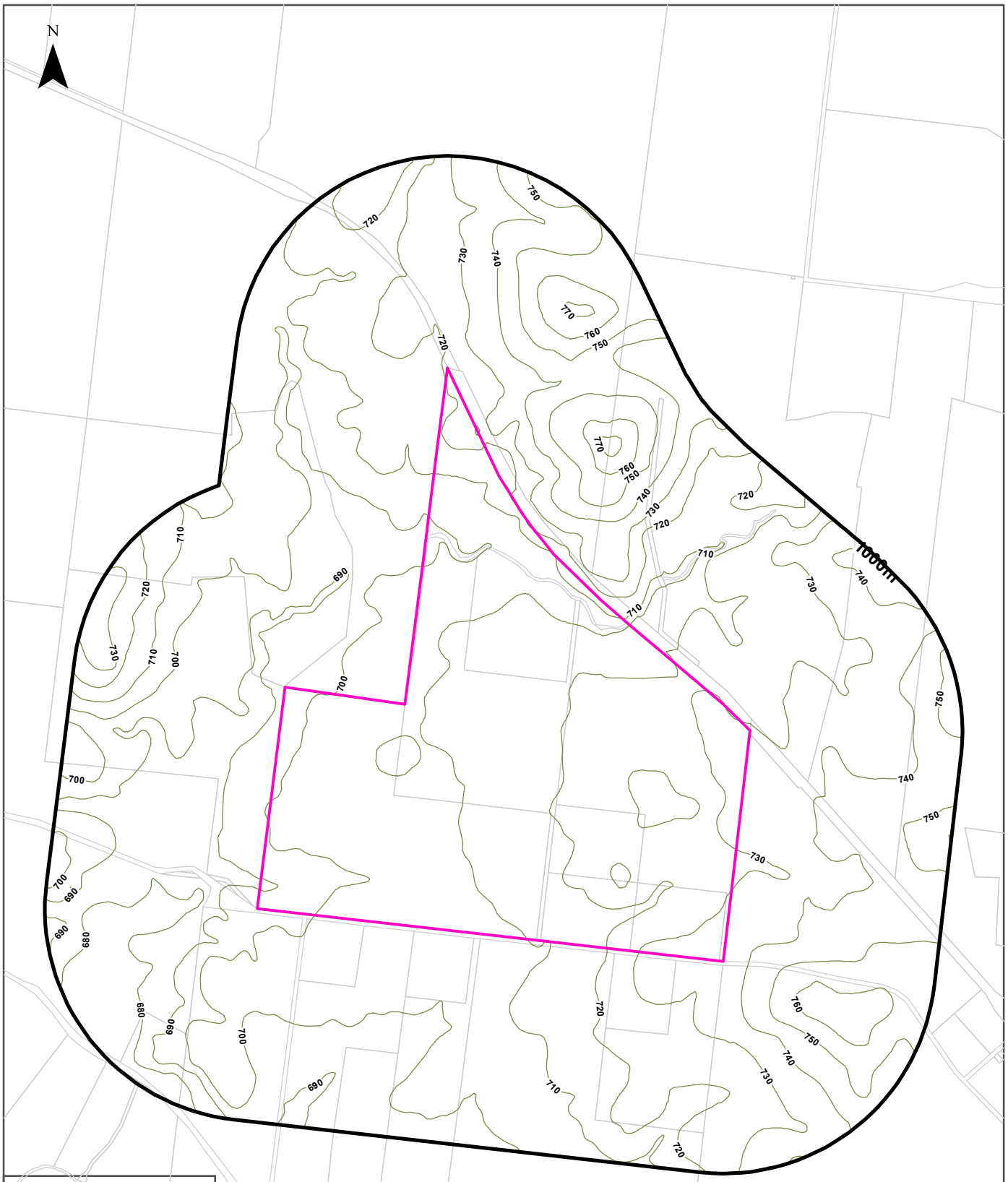
State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

Elevation Contours (m AHD)

Tarana Road, Brewongle, NSW 2795



Accuracy & Currency: This contour data can be up to 0.4 of the contour interval out in height and must therefore not be used for any design or engineering works, but only as a general guide to topography. Gaps may occur along contour lines due to vertical topography, obscured topography in the source photography such as buildings, dense vegetation or dead ground, or the fact that original buildings have been replaced in the intervening thirty years since the original contour capture.

Scale: 0 100 200 400 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025	Coordinate System: GDA 1994 MGA Zone 56	Date: 27 August 2025

Hydrogeology & Groundwater

Tarana Road, Brewongle, NSW 2795

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Fractured or fissured, extensive aquifers of low to moderate productivity	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024

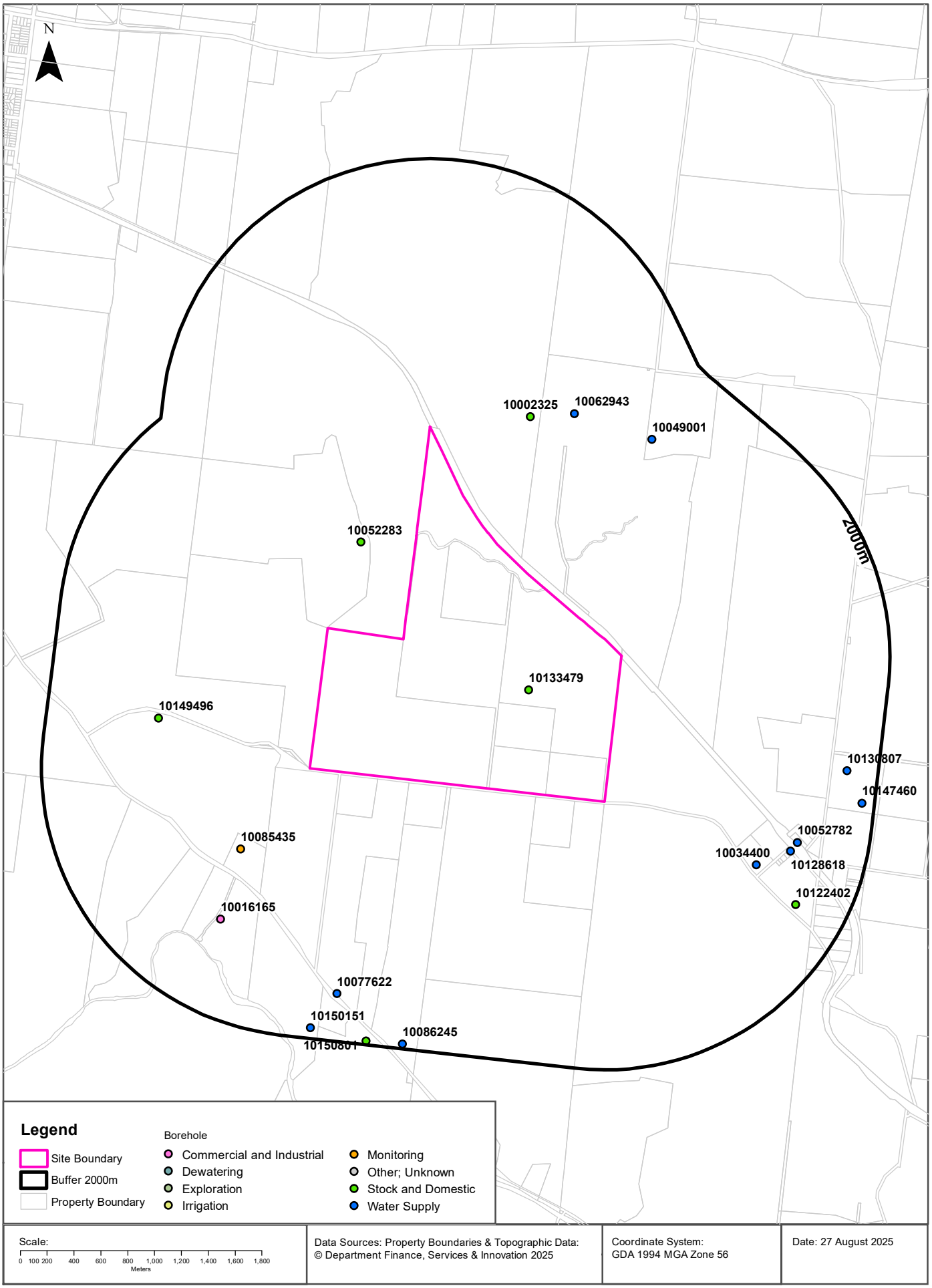
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

Tarana Road, Brewongle, NSW 2795



Hydrogeology & Groundwater

Tarana Road, Brewongle, NSW 2795

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10133479	GW052800	Stock and Domestic	Unknown	01/04/1980	47.50		AHD	Good			0m	On-site
10052283	GW060485	Stock and Domestic	Unknown	01/05/1986	38.10		AHD				402m	North West
10002325	GW031913	Stock and Domestic	Unknown	01/10/1969	28.30		AHD				707m	North
10085435	GW801658	Monitoring	Functioning	24/09/2002	120.00		AHD		1.895	5.50	792m	South West
10062943	GW802908	Water Supply	Functioning	12/01/2005	20.00		AHD		0.650	7.00	1014m	North
10149496	GW051136	Stock and Domestic	Unknown	01/08/1980	39.60		AHD				1165m	West
10034400	GW805114	Water Supply	Functioning	20/10/2012	65.00		AHD		1.233	10.00	1225m	South East
10016165	GW053895	Commercial and Industrial	Unknown	01/01/1979	2.10		AHD				1305m	South West
10049001	GW805848	Water Supply	Functioning	21/04/2017	48.00		AHD			8.00	1364m	North East
10128618	GW060560	Water Supply	Unknown		39.60		AHD				1436m	South East
10052782	GW060647	Water Supply	Unknown	01/01/1985	42.70		AHD				1469m	South East
10122402	GW031352	Stock and Domestic	Unknown	01/01/1965	30.80		AHD	Good			1620m	South East
10077622	GW802728	Water Supply	Functioning	31/12/1969			AHD		2.500		1647m	South West
10130807	GW034933	Water Supply	Unknown	01/10/1972	70.10		AHD				1769m	East
10147460	GW034786	Water Supply	Unknown	01/12/1972	31.00		AHD	Good			1908m	East
10150151	GW020743	Water Supply	Unknown	01/11/1963	19.80		AHD	Good			1922m	South West
10086245	GW800648	Water Supply	Functioning	15/06/1998	45.70		AHD				1964m	South
10150801	GW037646	Stock and Domestic	Unknown	01/06/1973	39.60		AHD	Fresh			1974m	South

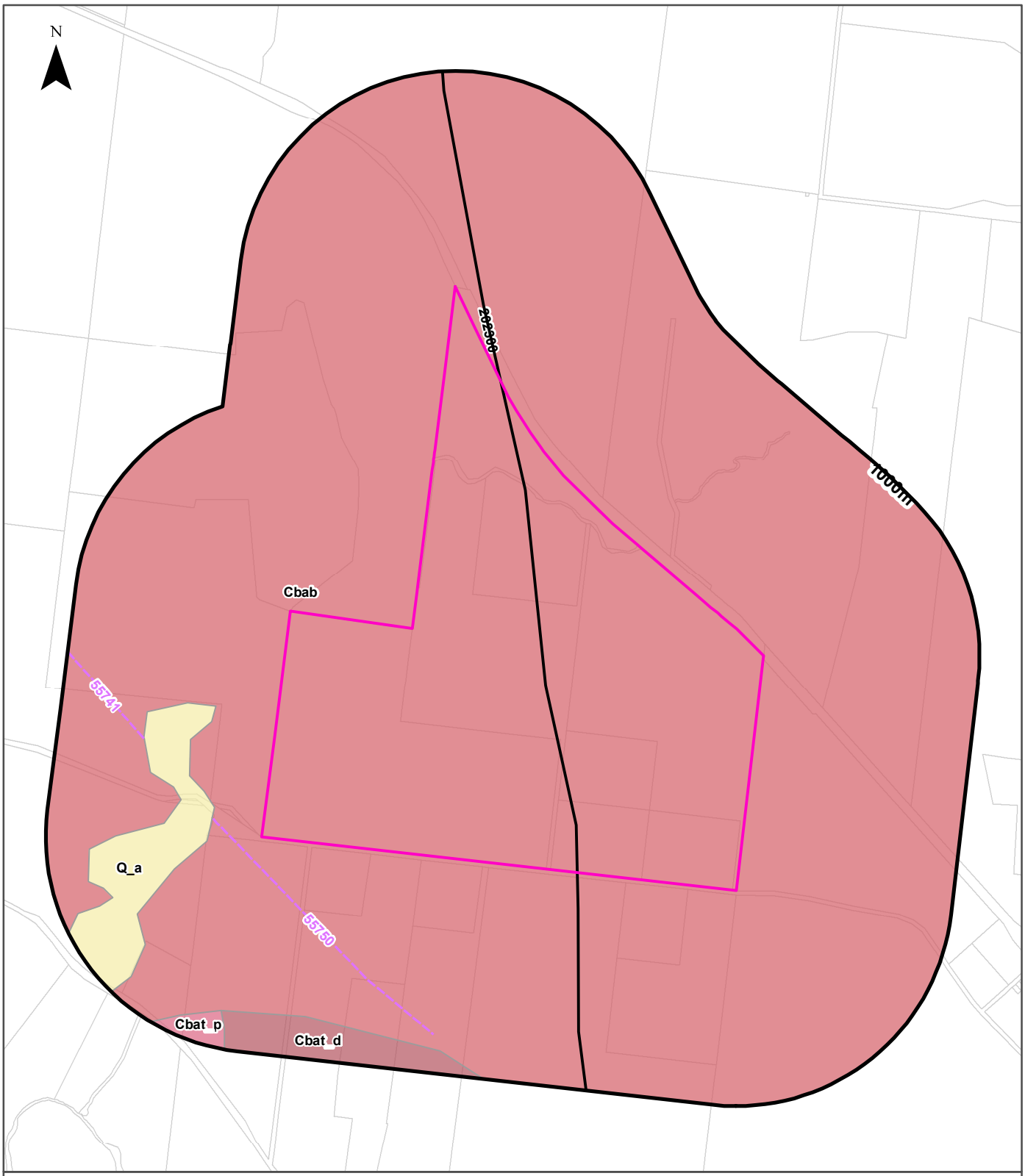
Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

NGIS Bore ID	Drillers Log	Distance	Direction
10133479	0.00m-0.30m Topsoil 0.30m-18.30m Granite Decomposed 18.30m-47.50m Granite Water Supply	0m	On-site
10052283	0.00m-0.60m Topsoil 0.60m-38.10m Granite Decomposed Water Supply	402m	North West
10002325	0.00m-0.61m Earth 0.61m-28.35m Granite Decomposed Water Supply	707m	North
10085435	0.00m-0.50m Topsoil 0.50m-6.00m Clay, red 6.00m-18.00m Sand & Gravel 18.00m-18.50m Decopmosed Granite 18.50m-119.00m Granite, pink 119.00m-120.00m Granite, grey	792m	South West
10062943	0.00m-0.50m Topsoil 0.50m-6.00m Clay 6.00m-20.00m Gravel, sandy	1014m	North
10149496	0.00m-0.60m Topsoil 0.60m-5.00m Clay 5.00m-28.00m Granite Decomposed Water Supply 28.00m-40.00m Granite	1165m	West
10034400	0.00m-10.00m Granite; decomposed, brown & fine mica 10.00m-57.00m Granite; decomposed, grey 57.00m-65.00m Granite; plack/white, fresh	1225m	South East
10128618	0.00m-0.60m Topsoil 0.60m-2.40m Clay 2.40m-39.60m Granite Decomposed Water Supply	1436m	South East
10052782	0.00m-1.50m Clay Soil 1.50m-42.70m Granite Decomposed Water Supply	1469m	South East
10122402	0.00m-0.91m Clay 0.91m-5.18m Gravel 5.18m-8.53m Sand Decomposed 8.53m-30.78m Granite Decomposed Water Supply	1620m	South East
10130807	0.00m-0.91m Topsoil 0.91m-2.13m Clay 2.13m-8.22m Clay Sandy 8.22m-16.15m Granite Decomposed 16.15m-16.76m Quartz 16.76m-21.33m Granite Decomposed 21.33m-70.10m Granite Black Hard	1769m	East
10147460	0.00m-0.30m Topsoil 0.30m-7.62m Clay 7.62m-21.34m Granite Decomposed 21.34m-31.09m Granite Water Supply	1908m	East
10150151	0.00m-4.27m Loam Sand 0.00m-4.27m Gravel 4.27m-15.24m Granite Decomposed Water Supply 15.24m-19.81m Granite Hard Water Supply	1922m	South West
10086245	0.00m-0.30m Topsoil 0.30m-36.80m Granite, decomposed 36.80m-45.70m Granite	1964m	South
10150801	0.00m-0.30m Topsoil 0.30m-2.43m Clay 2.43m-3.65m Granite Sandy Decomposed 2.43m-3.65m Pebbles Clean 3.65m-11.88m Gravel 3.65m-11.88m Sand Clean Water Supply 11.88m-39.62m Granite Pink Water Supply 11.88m-39.62m Some Broken Bands	1974m	South

Geology

Tarana Road, Brewongle, NSW 2795



Legend

Linear Geological Structures and Boundaries

- Site Boundary
- Report Buffer
- Property Boundary
- Trendline
- Fold Axis
- Geological Boundary
- Marker Bed
- Faulted Boundary
- Shear Zone or Schist Zone Boundary
- Miscellaneous Boundary
- Water/Coastline Boundary
- State/Territory Border

Scale: 0 100 200 400 600 800 1,000 1,200 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 27 August 2025

Geology

Tarana Road, Brewongle, NSW 2795

Geological Units

Geological units within the dataset buffer:

Code	Unit Name	Description	Stratigraphy	Age Range	Dominant Lithology	Dist	Dir
Cbab	Bathurst Granite	Coarse-grained, porphyritic biotite granite.	Bathurst Supersuite/Bathurst Suite//Bathurst Granite//	Carboniferous (Mississippian) (base) to Carboniferous (top)	Granite	0m	On-site
Q_a	Alluvium	Unconsolidated grey to brown to beige humic (±)micaceous silty clay, quartz-(±)lithic silt, fine- to medium-grained quartz-rich to quartz-lithic sand, polymictic pebble to cobble gravel (as sporadic lenses); sporadic palaeosol horizons.	/Alluvium////	Quaternary (base) to Now (top)	Clastic sediment	234m	South West
Cbat_d	Tarana Granite - biotite granite (phase 3)	Coarse-grained, equigranular biotite granite (phase 3).	Bathurst Supersuite/Bathurst Suite//Tarana Granite/Tarana Granite - biotite granite (phase 3)/	Carboniferous (Mississippian) (base) to Carboniferous (Mississippian) (top)	Granite	804m	South West
Cbat_p	Tarana Granite - porphyritic biotite granite (phase 2)	Coarse-grained, porphyritic biotite granite (phase 2).	Bathurst Supersuite/Bathurst Suite//Tarana Granite/Tarana Granite - porphyritic biotite granite (phase 2)/	Carboniferous (Mississippian) (base) to Carboniferous (Mississippian) (top)	Granite	827m	South West

Linear Geological Structures

Fault and shear or schist zone boundaries within the dataset buffer:

Map ID	Boundary Type	Feature Description	Fault Dip Angle	Fault Dip Direction	Dist	Dir
202300	Faulted boundary	Fault, position approximate	Unknown	Unknown	0m	On-site

Trendlines within the dataset buffer:

Map ID	Feature Description	Observation Method	Structure Name	Dist	Dir
55750	Lineament: structural feature of unknown origin, interpreted from geophysics	Inferred		104m	South West
55741	Lineament: structural feature of unknown origin, interpreted from geophysics	Inferred		597m	West

Fold axes within the dataset buffer:

Map ID	Feature Description	Observation Method	Structure Name	Dist	Dir
NA	No records in buffer				

Marker beds within the dataset buffer:

Map ID	Feature Description	Rock Unit Description	Dist	Dir
NA	No records in buffer			

Naturally Occurring Asbestos Potential

Tarana Road, Brewongle, NSW 2795

Naturally Occurring Asbestos Potential

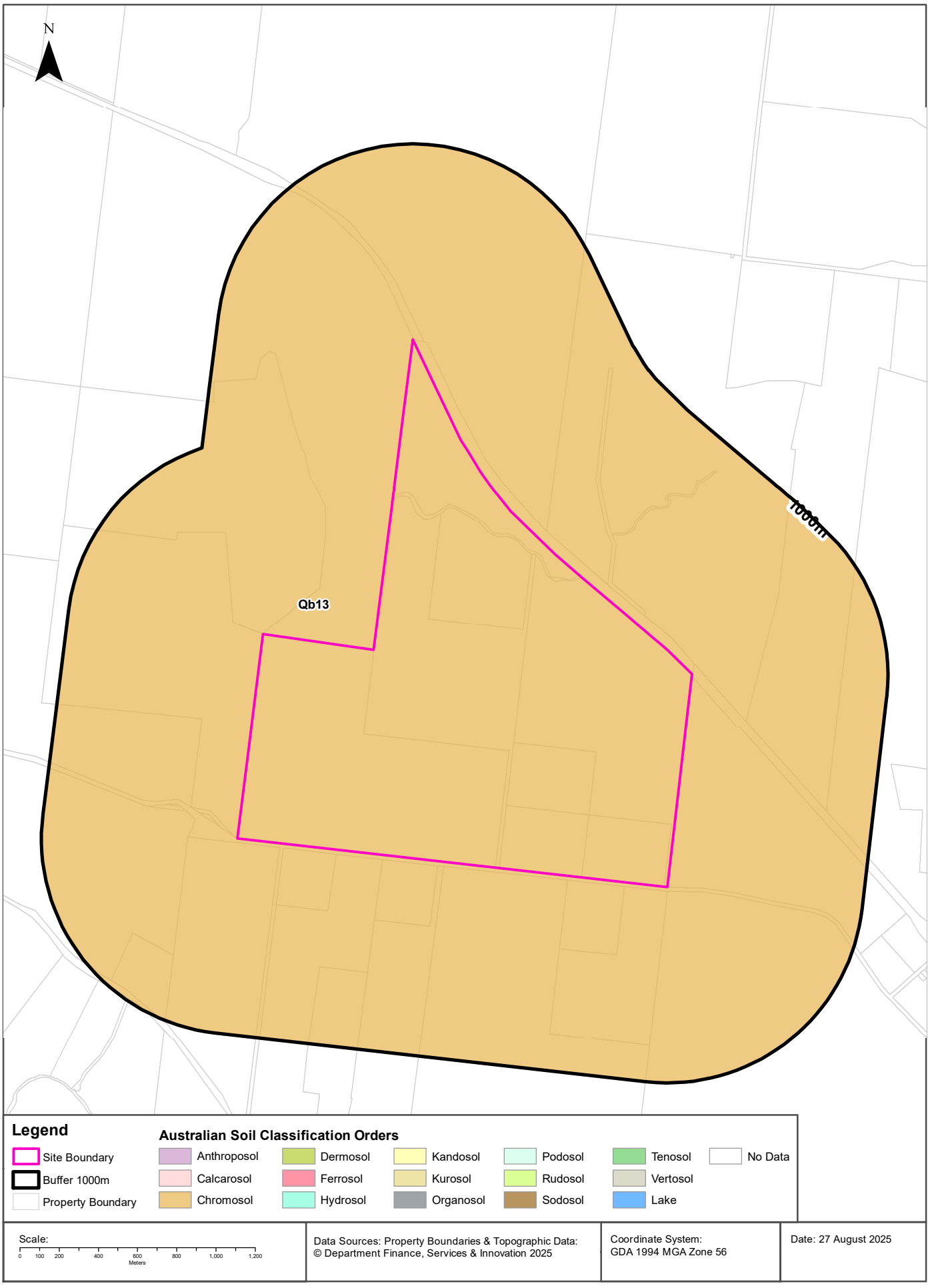
Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development

Atlas of Australian Soils

Tarana Road, Brewongle, NSW 2795



Soils

Tarana Road, Brewongle, NSW 2795

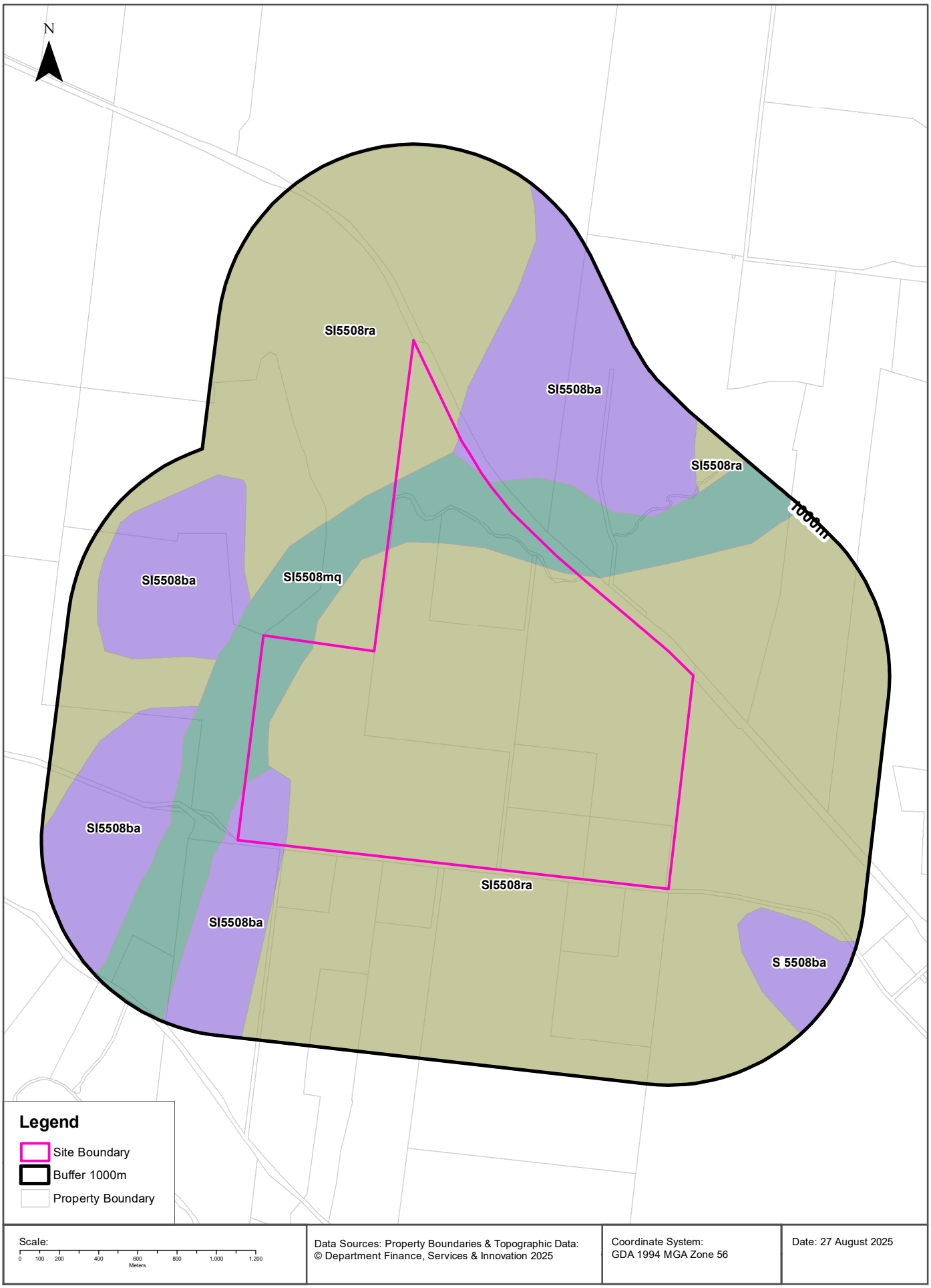
Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Qb13	Chromosol	Rolling country: chief soils are hard neutral red soils (Dr2.22 and Dr2.42) in association with hard neutral yellow mottled soils (Dy3.42 and Dy3.22). As mapped, areas of units Gb7 and Qb12 are included. Data are limited.	0m	On-site

Soil Landscapes of Central and Eastern NSW

Tarana Road, Brewongle, NSW 2795



Soil Landscapes of Central and Eastern NSW

Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
SI5508ra	Raglan	0m	On-site
SI5508mq	Macquarie	0m	On-site
SI5508ba	Bathurst	0m	On-site

Acid Sulfate Soils

Tarana Road, Brewongle, NSW 2795

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

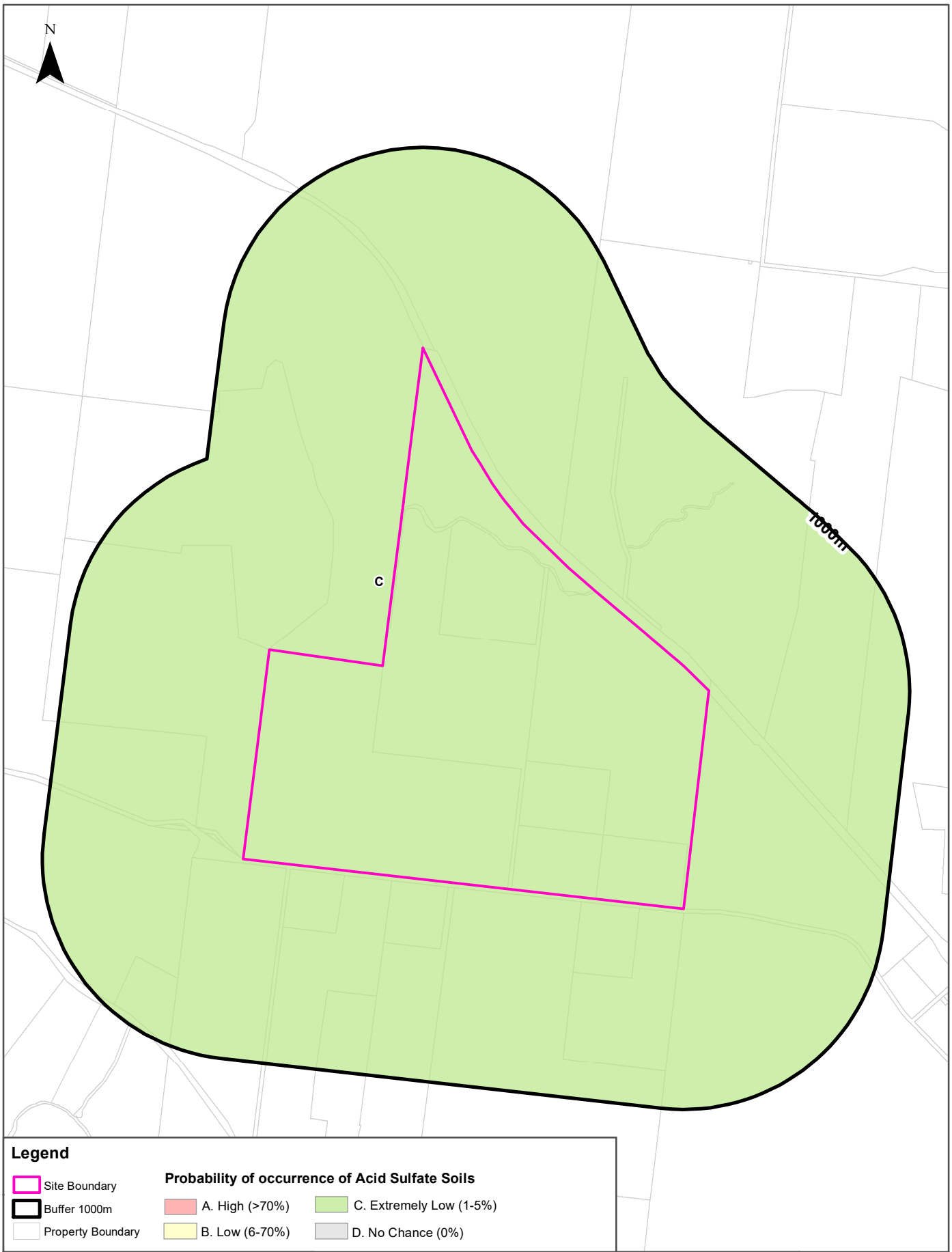
Soil Class	Description	EPI Name
N/A		

If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

Atlas of Australian Acid Sulfate Soils

Tarana Road, Brewongle, NSW 2795



Legend

- Site Boundary
- Buffer 1000m
- Property Boundary

Probability of occurrence of Acid Sulfate Soils

- A. High (>70%)
- B. Low (6-70%)
- C. Extremely Low (1-5%)
- D. No Chance (0%)

Scale: 0 100 200 400 600 800 1,000 1,200 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 27August 2025

Acid Sulfate Soils

Tarana Road, Brewongle, NSW 2795

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site

Dryland Salinity

Tarana Road, Brewongle, NSW 2795

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit
The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.
In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

Tarana Road, Brewongle, NSW 2795

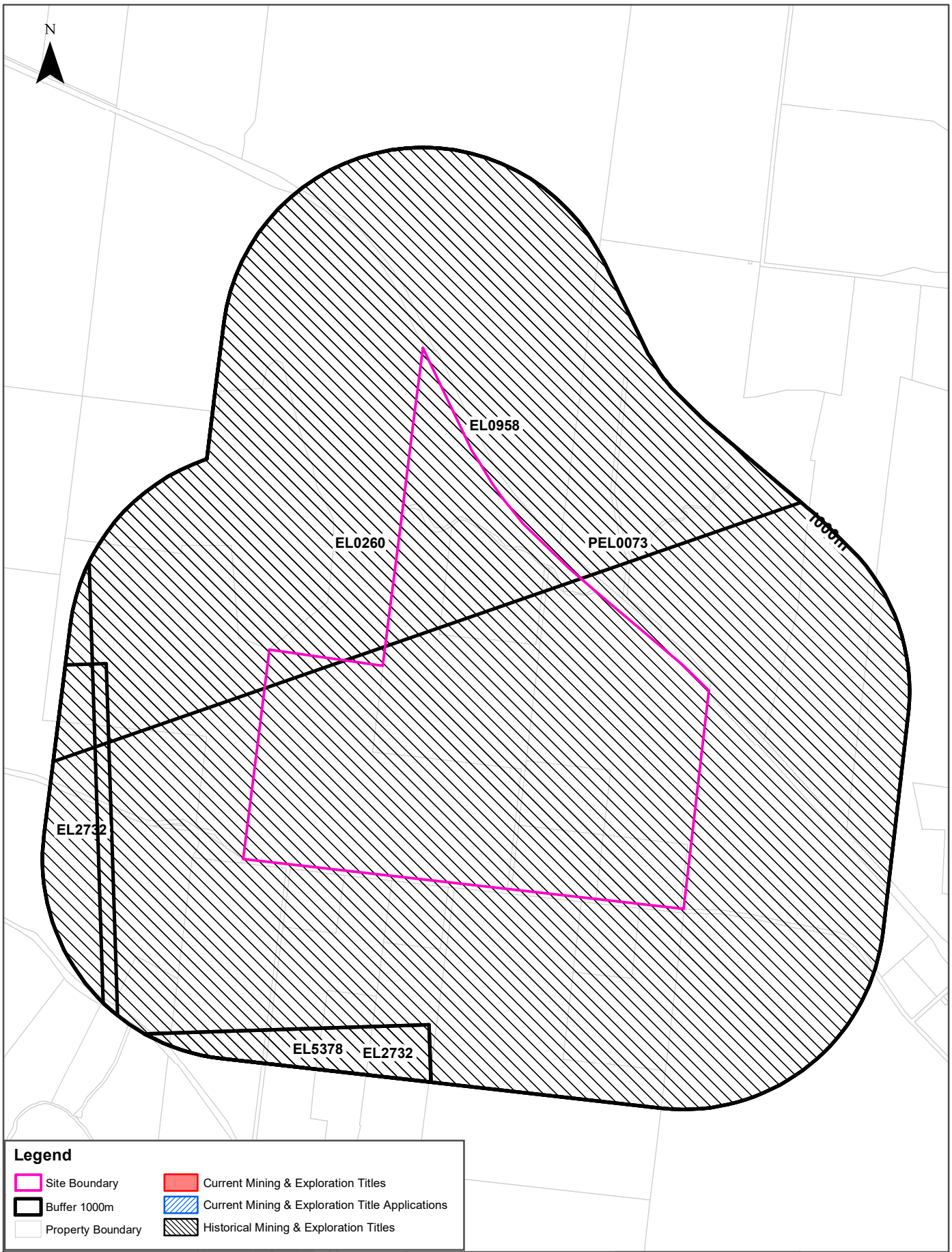
Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining & Exploration Titles

Tarana Road, Brewongle, NSW 2795



Scale:
0 100 200 400 600 800 1,000 1,200
Meters

Data Sources: Property Boundaries & Topographic Data:
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 27 August 2025

Mining

Tarana Road, Brewongle, NSW 2795

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL0073	WOOD, A.J.			PETROLEUM	Petroleum	0m	On-site
EL0958	AUSTRALIAN OIL & GAS CORPORATION LIMITED	19761201	19780301	MINERALS	Cu Pb Zn Ag	0m	On-site
EL0260	NICKEL MINES LIMITED	19700301	19710301	MINERALS	Cu Mo Pb Zn Ag	0m	On-site
EL2732	BATHURST BRICK COMPANY LIMITED	19861203	19901202	MINERALS	Granite Dimension Stone, Construction Materials	649m	South West
EL5378	PLATO MINING PTY LTD	19971110	19991109	MINERALS		716m	South West

Historical Mining & Exploration Titles Data Source: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development

State Environmental Planning Policy

Tarana Road, Brewongle, NSW 2795

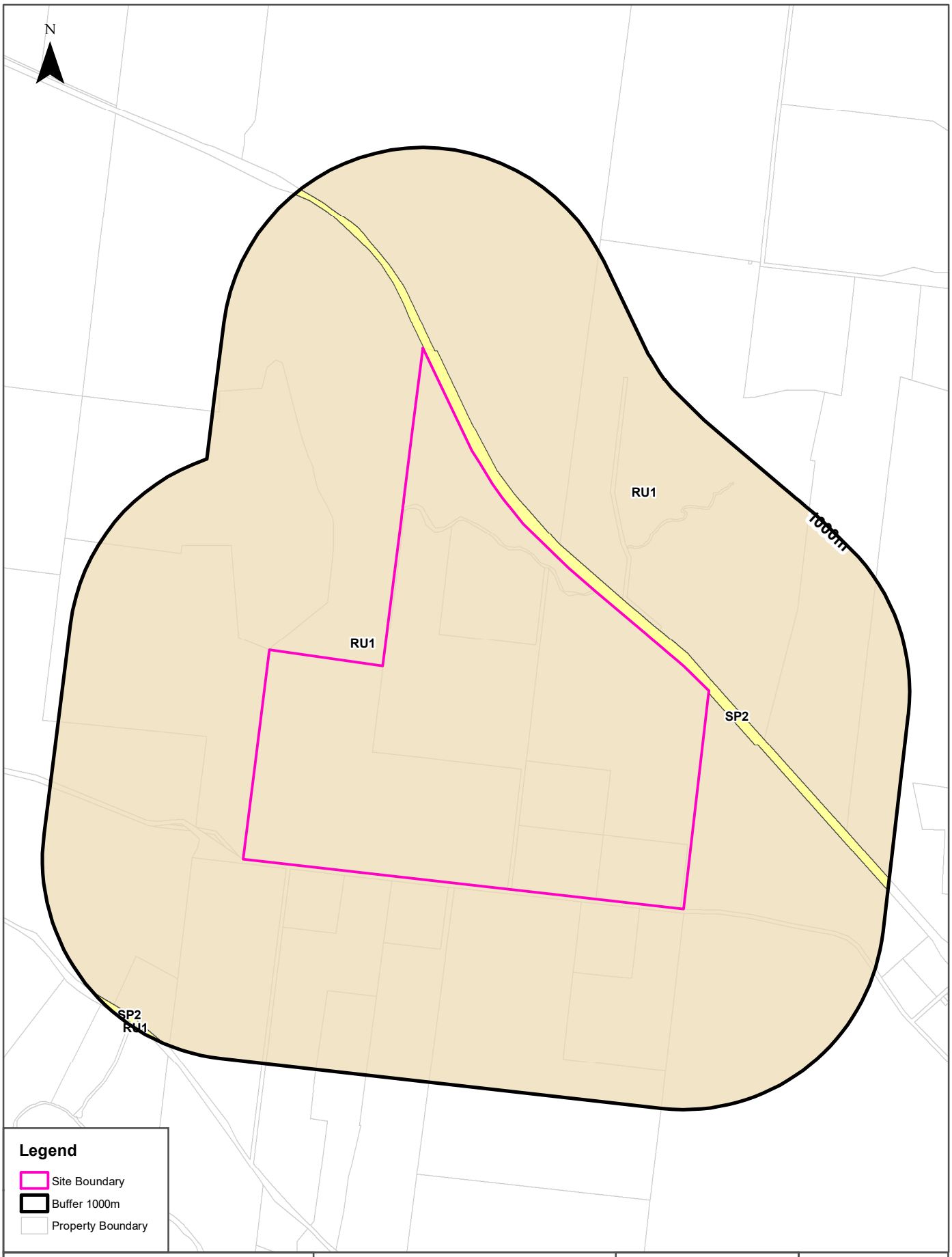
State Significant Precincts

What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

EPI Planning Zones

Tarana Road, Brewongle, NSW 2795



Data Sources: Property Boundaries & Topographic Data:
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Planning: NSW Crown Copyright - Planning & Environment

Coordinate System:
GDA 1994 MGA Zone 56

Date: 27 August 2025

Environmental Planning Instrument

Tarana Road, Brewongle, NSW 2795

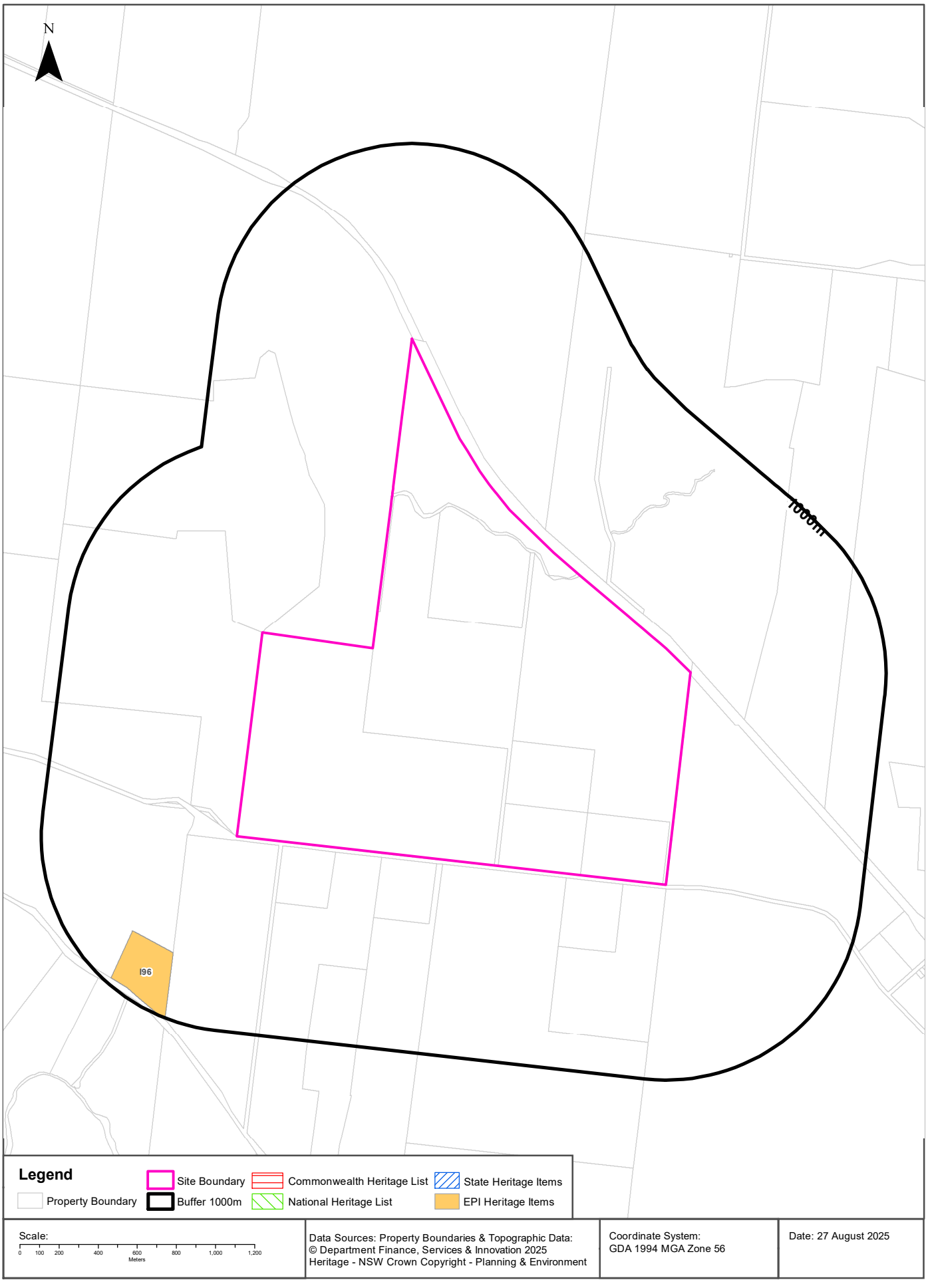
Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU1	Primary Production		Bathurst Regional Local Environmental Plan 2014	21/04/2023	26/04/2023	12/05/2023	Map Amendment No 3	0m	On-site
SP2	Infrastructure	Railway	Bathurst Regional Local Environmental Plan 2014	21/04/2023	26/04/2023	12/05/2023	Map Amendment No 3	0m	North East
RU1	Primary Production		Bathurst Regional Local Environmental Plan 2014	21/04/2023	26/04/2023	12/05/2023	Map Amendment No 3	42m	North East
SP2	Infrastructure	Classified Road	Bathurst Regional Local Environmental Plan 2014	21/04/2023	26/04/2023	12/05/2023	Map Amendment No 3	956m	South West
RU1	Primary Production		Bathurst Regional Local Environmental Plan 2014	21/04/2023	26/04/2023	12/05/2023	Map Amendment No 3	986m	South West

Heritage Items

Tarana Road, Brewongle, NSW 2795



Heritage

Tarana Road, Brewongle, NSW 2795

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch

National Heritage List

What are the National Heritage List Items located within the dataset buffer?
Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch

State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage

Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I96	Mayfield	Item - General	Local	Bathurst Regional Local Environmental Plan 2014	19/11/2014	19/11/2014	10/02/2023	679m	South West

Heritage Data Source: NSW Crown Copyright - Planning & Environment

Natural Hazards

Tarana Road, Brewongle, NSW 2795

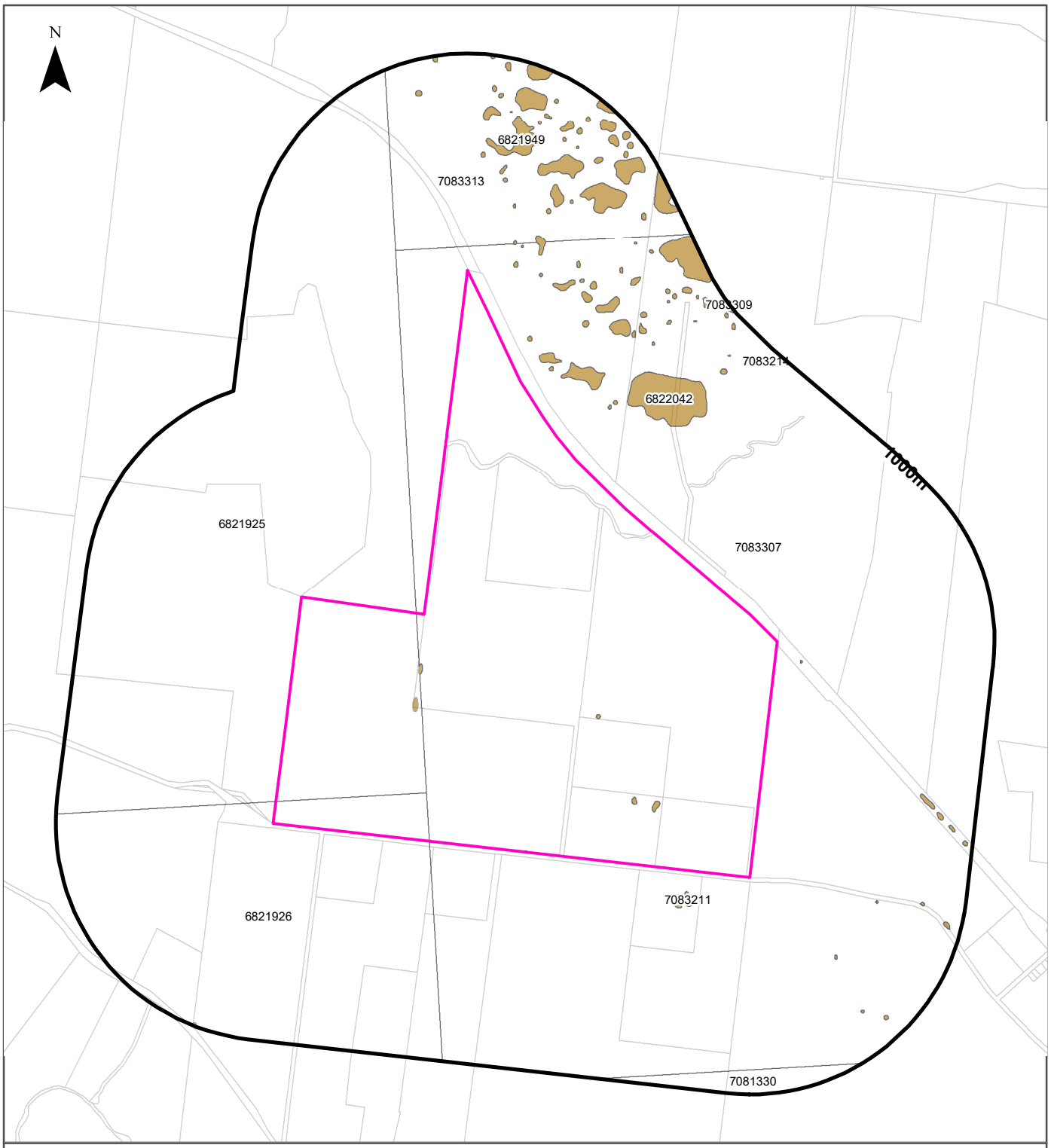
Bush Fire Prone Land

What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
No records in buffer		

Ecological Constraints - Vegetation & Ramsar Wetlands

Tarana Road, Brewongle, NSW 2795



- Site Boundary
- ReportBuffer
- Property Boundary
- Ramsar Wetland

Native Vegetation

- Alpine Complex
- Arid Shrublands (Acacia sub-formation)
- Arid Shrublands (Chenopod sub-formation)
- Dry Sclerophyll Forests (Shrub/grass sub-formation)
- Dry Sclerophyll Forests (Shrubby sub-formation)
- Forested Wetlands
- Freshwater Wetlands
- Grasslands
- Grassy Woodlands
- Heathlands
- Rainforests
- Saline Wetlands
- Semi-arid Woodlands (Grassy sub-formation)
- Semi-arid Woodlands (Shrubby sub-formation)
- Wet Sclerophyll Forests (Grassy sub-formation)
- Wet Sclerophyll Forests (Shrubby sub-formation)
- Non vegetated
- Unattributed
- Not classified
- Other

Scale: 0 100 200 400 600 800 1,000 1,200 1,400 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 27 August 2025

Ecological Constraints

Tarana Road, Brewongle, NSW 2795

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
6821925	Not classified	(Not classified) Not classified	Not classified	0m	On-site
6821926	Not classified	(Not classified) Not classified	Not classified	0m	On-site
7083211	Grassy Woodlands	(Grassy Woodlands) Southern Tableland Grassy Box Woodland	Southern Tableland Grassy Woodlands	0m	On-site
7083307	Not classified	(Not classified) Not classified	Not classified	0m	On-site
7083313	Not classified	(Not classified) Not classified	Not classified	110m	North
6822042	Grassy Woodlands	(Grassy Woodlands) Southern Tableland Grassy Box Woodland	Southern Tableland Grassy Woodlands	112m	North
6821949	Not classified	(Not classified) Not classified	Not classified	641m	North
7083214	Forested Wetlands	(Forested Wetlands) Central and Southern Tableland River Oak Forest	Eastern Riverine Forests	766m	North East
7081330	Not classified	(Not classified) Not classified	Not classified	883m	South East
7083309	Not classified	(Not classified) Not classified	Not classified	996m	North East

Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

Map ID	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ecological Constraints

Tarana Road, Brewongle, NSW 2795

Collaborative Australian Protected Areas Database - Terrestrial

Protected areas in terrestrial environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Collaborative Australian Protected Areas Database - Marine

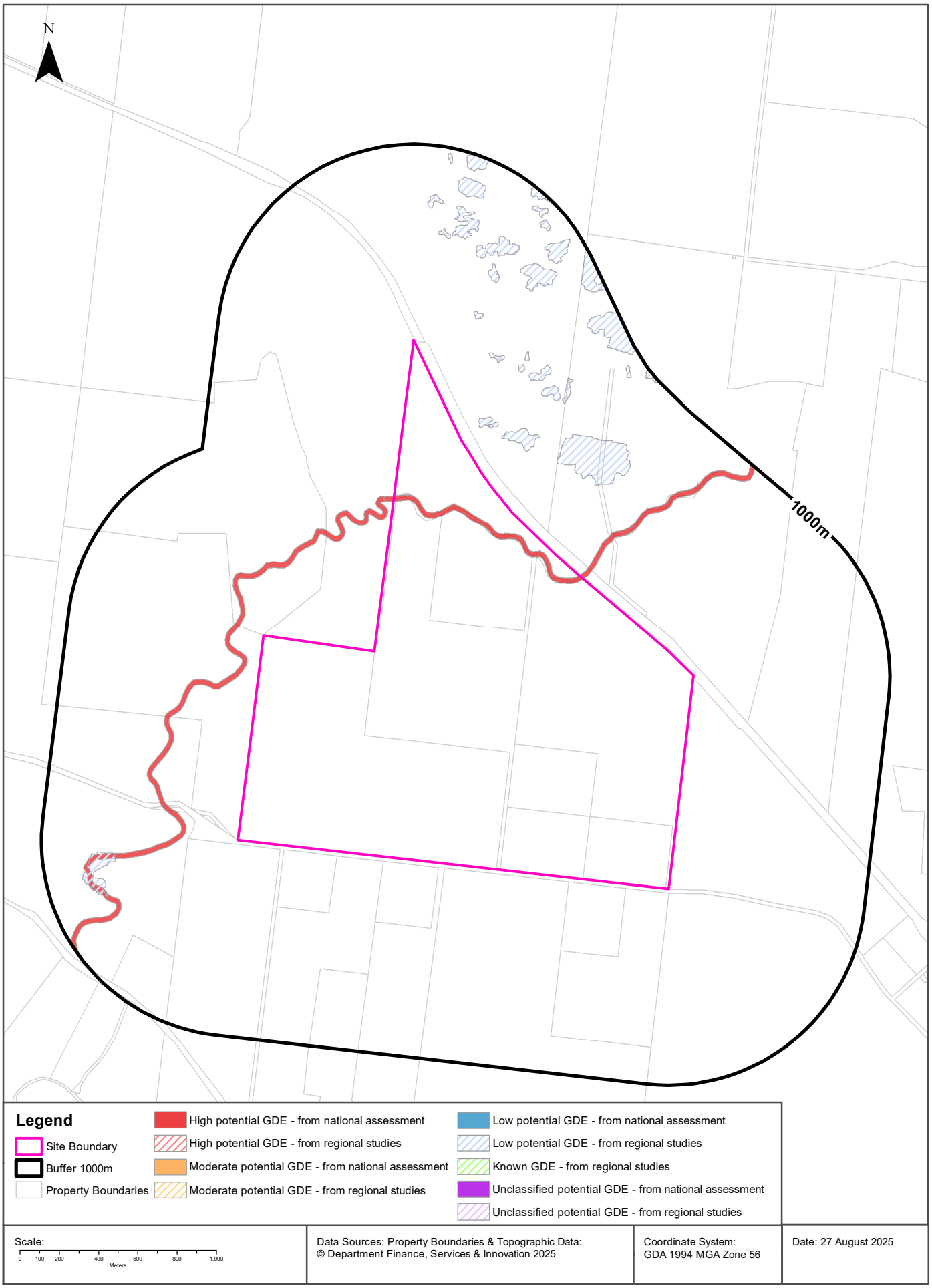
Protected areas in marine environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Source: Collaborative Australian Protected Areas Database (CAPAD) 2022

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

Tarana Road, Brewongle, NSW 2795



Ecological Constraints

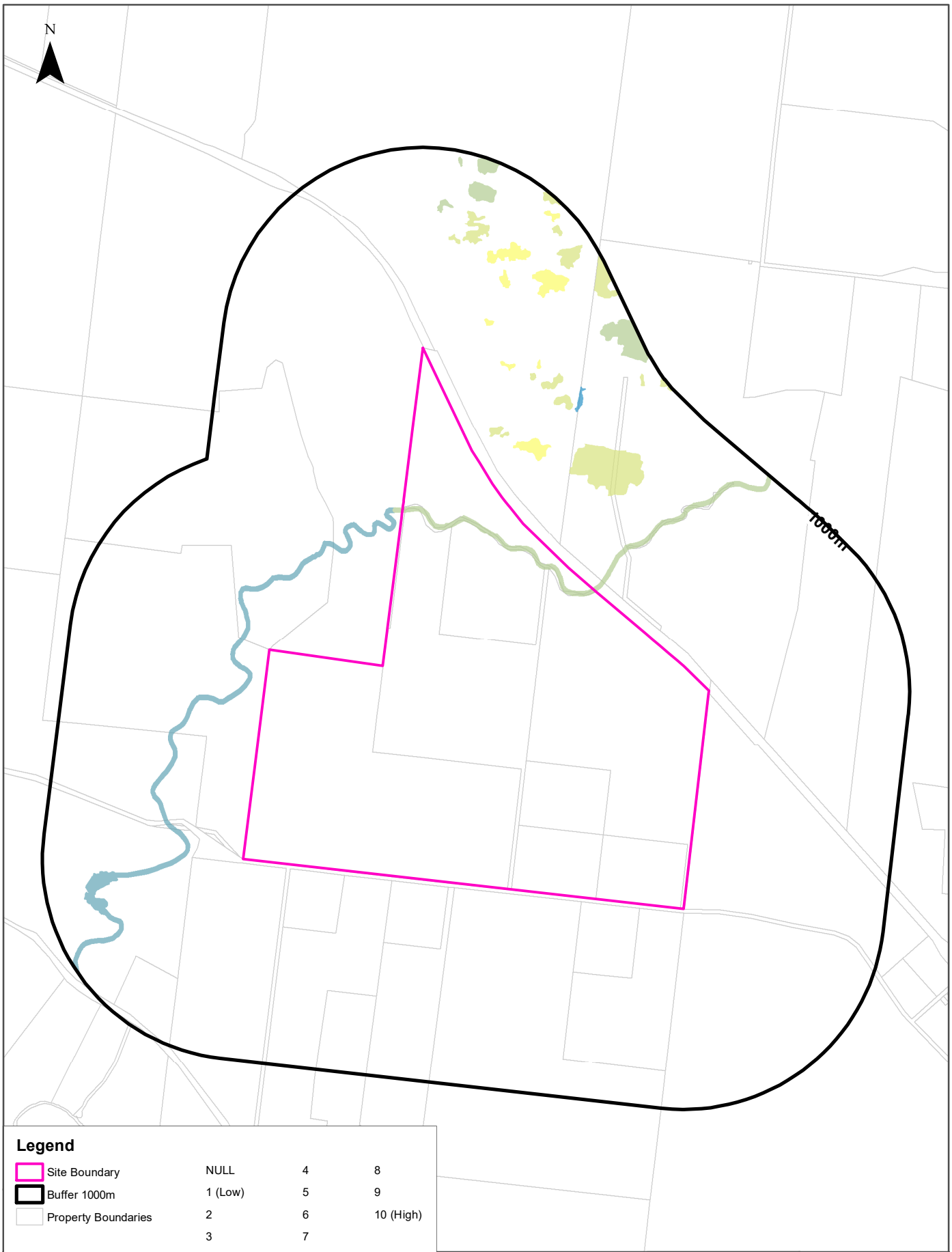
Tarana Road, Brewongle, NSW 2795

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic	High potential GDE - from national assessment	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	River		0m	On-site
Terrestrial	Low potential GDE - from regional studies	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation		108m	North

Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Tarana Road, Brewongle, NSW 2795



Ecological Constraints

Tarana Road, Brewongle, NSW 2795

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic	7	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	River		0m	On-site
Aquatic	9	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	River		24m	West
Terrestrial	6	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation		108m	North
Terrestrial	5	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation		179m	North
Terrestrial	10	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation		542m	North
Terrestrial	9	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation		631m	South West
Terrestrial	7	Granitic and basaltic tablelands and minor lowlands; includes the Canobolas dissected volcanic pile.	Vegetation		681m	North

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

Ecological Constraints

Tarana Road, Brewongle, NSW 2795

NSW BioNet Species Sightings

Species sightings from the NSW BioNet Repository that have either a state or federal conservation status, or a sensitivity status, and are within 10 km of the site:
Note: This data does not include NSW Category 1 sensitive species.

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Not Sensitive	Endangered	Vulnerable	
Animalia	Amphibia	Litoria booroolongensis	Booroolong Frog	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Category 2	Critically Endangered	Critically Endangered	
Animalia	Aves	Aphelocephala leucopsis	Southern Whiteface	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Not Sensitive	Critically Endangered	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Category 3	Endangered	Endangered	
Animalia	Aves	Calyptorhynchus lathami lathami	South-eastern Glossy Black-Cockatoo	Category 2	Vulnerable	Vulnerable	
Animalia	Aves	Circus assimilis	Spotted Harrier	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Coracina lineata	Barred Cuckoo-shrike	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;JAMBA
Animalia	Aves	Grantiella picta	Painted Honeyeater	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hylacola cauta	Shy Heathwren	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Melanodryas cucullata cucullata	South-eastern Hooded Robin	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Category 3	Vulnerable	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Parvipsitta pusilla	Little Lorikeet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pyrrholaemus sagittatus	Speckled Warbler	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Not Sensitive	Vulnerable	Not Listed	
Animalia	Insecta	Keyacris scurra	Key's Matchstick Grasshopper	Not Sensitive	Endangered	Endangered	
Animalia	Insecta	Paralucia spinifera	Purple Copper Butterfly, Bathurst Copper Butterfly	Not Sensitive	Endangered	Vulnerable	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Chalinolobus picatus	Little Pied Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Not Sensitive	Vulnerable	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Tympanocryptis mccartneyi	Bathurst Grassland Earless Dragon	Category 3	Critically Endangered	Critically Endangered	
Plantae	Flora	Eucalyptus aggregata	Black Gum	Not Sensitive	Vulnerable	Vulnerable	

Source: NSW BioNet Species Sightings

Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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