

24 October 2024

Ref: E36788BTlet.Rev1-ASS

The Maronite Sisters of the Holy Family Village  
208 Wardell Road  
MARRICKVILLE, NSW, 2203

Attention: Phillip Ryan  
Email: [P.Ryan@maronitevillage.com.au](mailto:P.Ryan@maronitevillage.com.au)

**DESKTOP ACID SULFATE SOIL ASSESSMENT  
PROPOSED SENIORS CARE ACCOMMODATION FACILITY DEVELOPMENT  
28 MARRICKVILLE AVENUE & 46 PINE STREET, MARRICKVILLE, NSW**

## **1 INTRODUCTION**

The Maronite Sisters of the Holy Family Village ('the client') commissioned JK Environments (JKE) to undertake a desktop acid sulfate soil (ASS) assessment for the proposed seniors care accommodation facility development at 28 Marrickville Avenue and 46 Pine Street, Marrickville, NSW ('the site'). The site is identified as part of Lot 101 in DP1091233 and Lot 1 in DP980526. The site location is shown on Figure 1 and the investigation was confined to the proposed development area as shown on Figure 2 attached in the appendices.

This report has been prepared to support the lodgement of a State Significant Development Application (SSDA) for the proposed seniors care accommodation facility development.

A Preliminary Site Investigation (PSI)<sup>1</sup> was undertaken concurrently with this assessment by JKE. A summary of relevant information is provided throughout this report. JKE were also commissioned to prepare a dryland salinity assessment<sup>2</sup> and a surface and groundwater impact assessment report<sup>3</sup>, for the proposed development.

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<sup>1</sup> JKE, (2024a). *Report to The Maronite Sisters of the Holy Family Village, on Preliminary Site Investigation for Proposed Seniors Care Accommodation Facility Development, at 28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW.* (Report ref: E36788BTrpt, dated 24 October 2024) (referred to as PSI)

<sup>2</sup> JKE, (2024b). *Report to The Maronite Sisters of the Holy Family Village, on Dryland Salinity Assessment for Proposed Seniors Care Accommodation Facility Development, at 28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW.* (Report ref: E36788BTrpt2.Rev1, dated 24 October 2024) (referred to as SAL)

<sup>3</sup> JKE, (2024c). *Report to The Maronite Sisters of the Holy Family Village, on Surface and Groundwater Impact Assessment for Proposed Seniors Care Accommodation Facility Development, at 28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW.* (Report ref: E36788BTrpt3.Rev1-SGIA, dated 24 October 2024) (referred to as Salinity Report)





Our geotechnical division, JK Geotechnics (JKG) undertook a geotechnical investigation concurrently for the proposed development (Project reference 36788PE). This report should be read in conjunction with the JKE/JKG reports.

The assessment was generally undertaken in accordance with a JKE proposal (Ref: EP60445BT) of 24 April 2024 and written acceptance from the client by email of 6 June 2024.

The aim of the assessment was to make a preliminary assessment of the potential for ASS materials to be present, and to assess whether an ASS management plan (ASSMP) is required for the proposed development.

## **1.1 Assessment Guidelines and Background**

The ASS assessment and preparation of this report were undertaken with reference to the National Acid Sulfate Soil Guidance (2018) documents and the Acid Sulfate Soil Management Advisory Committee (ASSMAC) Acid Sulfate Soil Manual (1998)<sup>4</sup>.

ASS materials include potential acid sulfate soils (PASS or sulfidic soil materials) and actual acid sulfate soils (AASS or sulfuric soil materials). These are often found in the same profile, with AASS overlying PASS. AASS and PASS are defined further as follows:

- PASS are soil materials which contain Reduced Inorganic Sulfur (RIS) such as pyrite. The field pH of these soils in their undisturbed state is usually more than pH 4 and is commonly neutral to alkaline (pH 7–9). These soil materials are invariably saturated with water in their natural state. Their texture may be peat, clay, loam, silt or sand and is often dark grey in colour and soft in consistence, but these materials may also exhibit colours that are dark brown, or medium to pale grey to white; and
- AASS are soil materials which contained RIS such as pyrite that have undergone oxidation. This oxidation results in low pH (that is pH less than 4) and often a yellow (jarosite) and/or orange to red mottling (ferric iron oxides) in the soil profile. Actual ASS contains Actual Acidity, and commonly also contains RIS (the source of Potential Sulfuric Acidity) as well as Retained Acidity.

Further background information on ASS and the assessment process is provided in the appendices.

## **1.2 Proposed Development Details**

It is understood that the proposed development will involve construction of a four-storey seniors care accommodation facility underlain by a single level basement with a finished floor level at relative level (RL) 19m, which will require excavation to a maximum depth of approximately 5m below existing surface levels in the southern portion of the site. In the north-east portion of the site, minimal excavation is anticipated with refurbishment and extension of the existing building indicated on the provided plans. The building is proposed for Seniors Care Accommodation and supporting Administration Offices.

Plans provided to JKE are attached in the appendices.

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<sup>4</sup> Acid Sulfate Soils Management Advisory Committee (ASSMAC), (1998). *Acid Sulfate Soils Manual* (ASS Manual 1998)



### 1.3 Aim and Objectives

The primary aim of the desktop assessment was to identify the potential for ASS conditions to be encountered at the site in the context of the proposed development works. The assessment objective was to assess the need for preparing an ASS Management Plan (ASSMP) for the proposed development.

### 1.4 Scope of Work

The scope of work included the following:

- Review of site information including: regional geology and soil landscape; ASS risk; dryland salinity risk; registered groundwater bores; regional hydrogeology; topography; ecological constraints; and other information relevant to the assessment;
- Review of the ASS mapping provided in the Inner West Council Local Environment Plan 2022;
- Review of subsurface conditions encountered during the Preliminary Site Investigation (PSI); and
- Preparation of a report presenting the results of the desktop assessment.

The ASS assessment and preparation of this report were undertaken with reference to the National Acid Sulfate Soil Guidance (2018) documents and the Acid Sulfate Soil Management Advisory Committee (ASSMAC) Acid Sulfate Soil Manual (1998)<sup>5</sup>.

## 2 SITE INFORMATION

### 2.1 Site Information and Description

Table 2-1: Site Identification

<b>Site Address:</b>	28 Marrickville Avenue and 46 Pine Street, Marrickville, NSW
<b>Lot &amp; Deposited Plan:</b>	Lot 101 in DP1091233 and Lot 1 in DP980526
<b>Current Land Use:</b>	Seniors Housing (28 Marrickville Avenue) Residential (46 Pine Street)
<b>Site Area (m<sup>2</sup>):</b>	5,400
<b>Site Elevation (metres Australian Height Datum – mAHD approx.)</b>	21 to 24
<b>Geographical Location (decimal degrees) (approx.):</b>	Latitude: -33.9105197 Longitude: 151.145219
<b>Site Plans:</b>	Appendix A

The site is located in a predominantly residential area of Marrickville and is approximately 830m to the north-east of the Cooks River.

<sup>5</sup> Acid Sulfate Soils Management Advisory Committee (ASSMAC), (1998). *Acid Sulfate Soils Manual* (ASS Manual 1998)



The regional topography is characterised by a south-east facing hillside. The site itself is located towards the toe of the hillside and has a gentle slope towards the south at approximately 2° to 3°, following a similar grade to the surrounding landscape.

At the time of the inspection, the site comprised two properties:

- No. 28 Marrickville Avenue in the southern portion of the site, was seniors housing which included a two-storey brick building occupied the majority of the central area of this property. The building appeared to be of relatively recent construction (circa 25yrs +/-). An asphaltic concrete (AC) paved roadway extended around the southern and eastern perimeters of the building with vehicular access from Marrickville Avenue to the south-east; and
- No.46 Pine Street in the north-eastern portion of the site included a single storey residential brick building which occupied the north-east end of the property and also included a single carport and metal shed located on the northern side of the residence. A concrete paved driveway extended along the northern boundary from Pine Street and other concrete and tile paved pathways were also present around the building and gardens.

With the exception of St Maroun's College located to the immediate north-west of the southern portion of the site, the site was bounded by residential areas in all directions.

The land was not low-lying and there were no potential ASS (PASS) indicators nearby such as creeks, swamps, mangroves or wetlands etc.

## **2.2 Regional Geology**

Regional geological information was reviewed for the investigation. The information was sourced from the Lotsearch report attached in the appendices. Regional geological maps indicated that the site is indicated to be underlain by Ashfield Shale of the Wianamatta Group, which typically consists of black to dark grey shale and laminite.

## **2.3 Acid Sulfate Soil Risk Map**

A review of the acid sulfate soil (ASS) risk map prepared by Department of Land and Water Conservation (1997)<sup>6</sup> indicated that the site is not located within a risk area.

## **2.4 Inner West Council Local Environmental Plan (LEP) 2022**

A review of the Inner West LEP (2022) indicates that the site is not located in an ASS risk area.

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<sup>6</sup> Department of Land and Water Conservation, (1997). *1:25,000 Acid Sulfate Soil Risk Map (Series 9130N3, Ed 2)*

### 3 INVESTIGATION FINDINGS

#### 3.1 Subsurface Conditions Encountered during the PSI

A summary of the subsurface conditions encountered during the PSI is presented in the following table. Reference should be made to the borehole logs attached in the appendices for further details.

Table 3-1: Summary of Subsurface Conditions encountered during the PSI

Profile	Description
Pavement	Concrete pavers were encountered at the site surface in BH102 and BH104 during fieldwork. The pavers were approximately 110mm in thickness.
Fill	Fill was encountered at the surface or beneath the pavers in all boreholes and extended to depths of approximately 0.5mBGL to 1.1mBGL.  The fill typically comprised sandy silty clay, sand, sandy silt, silty clay, silty sandy clay or clayey sand with inclusions of igneous and ironstone gravels, metal fragments, sand, ash, organics, roots and root fibres.  Neither odours nor staining were encountered during fieldwork.
Natural Soil	Natural sandy and clayey residual soils were encountered beneath the fill material in all boreholes and extended to depths of between 1.4mBGL and 4.2mBGL.  Neither odours nor staining were encountered in the natural soils during fieldwork.
Bedrock	Sandstone bedrock was encountered in BH101, BH102, BH103 and BH104 during fieldwork from depths of approximately 2.5mBGL to 4.2mBGL.  Neither odours nor staining were encountered in the bedrock during fieldwork.
Groundwater	Groundwater seepage was encountered in BH6 and BH7 during drilling at depths of 0.6mBGL and 0.7mBGL respectively. All other boreholes remained dry on completion of auger drilling and a short time after.

### 4 ASSESSMENT CONCLUSION

Based on the information reviewed for this assessment, JKE are of the opinion that there is a relatively low potential for PASS materials to be disturbed during the proposed development works described in Section 1.2 of this report. This conclusion is based on the following:

- The ASS risk map indicates that the site is not located within an ASS risk area;
- The geological information indicates that the site is mapped as being underlain by Ashfield Shale. ASS are not usually associated with residual soil profiles;
- The JKE PSI indicated residual soils over shallow Hawkesbury Sandstone bedrock; and
- The site is located at approximately 21mAHD to 24mAHD, with excavations to extend to a minimum elevation of approximately +/-17m AHD. ASS are not usually associated with soil horizons above 5m AHD.



The proposed development does not include works that will lower the groundwater table below 1m AHD on nearby land. Based on this information, an ASSMP is not considered necessary for the proposed development.

## 5 LIMITATIONS

The report limitations are outlined below:

- JKE accepts no responsibility for any unidentified AASS or PASS issues at the site. Any unexpected problems/subsurface features that may be encountered during development works should be inspected by an environmental consultant as soon as possible;
- This report has been prepared based on site conditions which existed at the time of the investigation; scope of work and limitation outlined in the JKE proposal; and terms of contract between JKE and the client (as applicable);
- The conclusions presented in this report are based on investigation of conditions at specific locations, chosen to be as representative as possible under the given circumstances, visual observations of the site and immediate surrounds and documents reviewed as described in the report;
- Subsurface soil and rock conditions encountered between investigation locations may be found to be different from those expected. Groundwater conditions may also vary, especially after climatic changes;
- The investigation and preparation of this report have been undertaken in accordance with accepted practice for environmental consultants, with reference to applicable environmental regulatory authority and industry standards, guidelines and the assessment criteria outlined in the report;
- Where information has been provided by third parties, JKE has not undertaken any verification process, except where specifically stated in the report;
- JKE accept no responsibility for potentially asbestos containing materials that may exist at the site. These materials may be associated with demolition of pre-1990 constructed buildings or fill material at the site;
- JKE have not and will not make any determination regarding finances associated with the site;
- Additional investigation work may be required in the event of changes to the proposed development or landuse. JKE should be contacted immediately in such circumstances;
- This report has been prepared for the particular project described and no responsibility is accepted for the use of any part of this report in any other context or for any other purpose;
- Copyright in this report is the property of JKE. JKE has used a degree of care, skill and diligence normally exercised by consulting professionals in similar circumstances and locality. No other warranty expressed or implied is made or intended. Subject to payment of all fees due for the investigation, the client alone shall have a licence to use this report;
- If the client, or any person, provides a copy of this report to any third party, such third party must not rely on this report except with the express written consent of JKE; and
- Any third party who seeks to rely on this report without the express written consent of JKE does so entirely at their own risk and to the fullest extent permitted by law, JKE accepts no liability whatsoever, in respect of any loss or damage suffered by any such third party.



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If you have any questions concerning the contents of this letter please do not hesitate to contact us.

Kind Regards

A handwritten signature in black ink, appearing to read 'Katrina Taylor'.

Katrina Taylor  
Associate | Environmental Scientist

A handwritten signature in black ink, appearing to read 'Vittal Boggaram'.

Vittal Boggaram  
Principal Associate | Environmental Engineer

**Appendices:**

**Appendix A: Report Figures**

**Appendix B: Information on Acid Sulfate Soils**

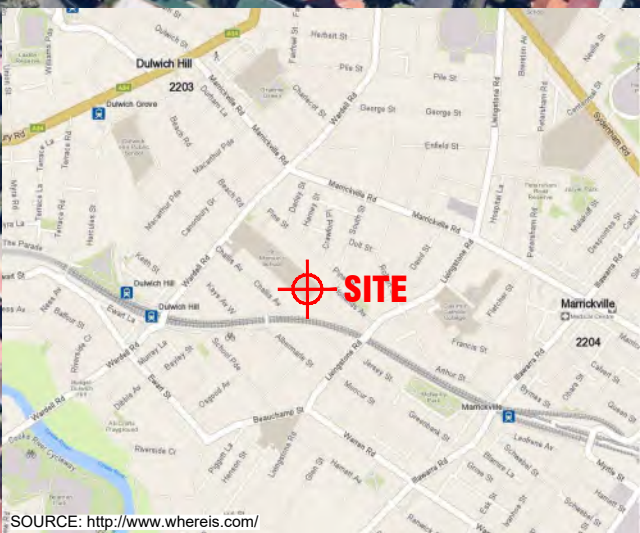
**Appendix C: Lotsearch Environmental Risk and Planning Report**

**Appendix D: Borehole Logs**



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## Appendix A: Report Figures



PLOT DATE: 5/08/2024 1:13:17 PM DWG FILE: K:\SC\EIS\JOB5\36000\S\EN\788BT\MARRICKVILLE\CAD\E36788BT.DWG

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM

Title: <b>SITE LOCATION PLAN</b>	
Location: 28 MARRICKVILLE AVENUE AND 46 PINE STREET, MARRICKVILLE, NSW	
Project No: E36788BT	Figure No: 1



This plan should be read in conjunction with the Environmental report.

**JK Environments**

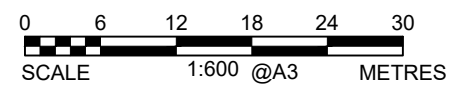


PLOT DATE: 7/08/2024 10:55:50 AM DWG FILE: K:\5C EIS JOBS\36000\3E36788BT MARRICKVILLE\CAD\E36788BT.DWG

**LEGEND**

- - - APPROXIMATE SITE BOUNDARY
- BH(Fill Depth) BOREHOLE LOCATION, NUMBER AND DEPTH OF FILL (m)
- + BH/MW(Fill Depth) BOREHOLE AND GROUNDWATER MONITORING WELL LOCATION, NUMBER AND DEPTH OF FILL (m)

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM



This plan should be read in conjunction with the Environmental report.

<b>Title: SAMPLE LOCATION PLAN</b>	
Location: 28 MARRICKVILLE AVENUE AND 46 PINE STREET, MARRICKVILLE, NSW	
Project No: E36788BT	Figure No: 2
<b>JKEnvironments</b>	





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## **Appendix B: Information on Acid Sulfate Soils**



## A. Background

Acid Sulfate Soil (ASS) is formed from iron rich alluvial sediments and sulfate (found in seawater) in the presence of sulfate reducing bacteria and plentiful organic matter. These conditions are generally found in mangroves, salt marsh vegetation or tidal areas and at the bottom of coastal rivers and lakes. ASS materials are distinguished from other soil or sediment materials (referred to as 'soil materials' throughout the National Acid Sulfate Soils Guidance) by having properties and behaviour that have either:

- 1) Been affected considerably by the oxidation of Reduced Inorganic Sulfur (RIS), or
- 2) The capacity to be affected considerably by the oxidation of their RIS constituents.

Acid sulfate soil materials include potential acid sulfate soils (PASS or sulfidic soil materials) and actual acid sulfate soils (AASS or sulfuric soil materials). These are often found in the same profile, with AASS overlying PASS. PASS and AASS are defined further below:

- PASS are soil materials which contain RIS such as pyrite. The field pH of these soils in their undisturbed state is usually more than pH 4 and is commonly neutral to alkaline (pH 7–9). These soil materials are invariably saturated with water in their natural state. Their texture may be peat, clay, loam, silt or sand and is often dark grey in colour and soft in consistence, but these materials may also exhibit colours that are dark brown, or medium to pale grey to white; and
- AASS are soil materials which contained RIS such as pyrite that have undergone oxidation. This oxidation results in low pH (that is pH less than 4) and often a yellow (jarosite) and/or orange to red mottling (ferric iron oxides) in the soil profile. Actual ASS contains Actual Acidity, and commonly also contains RIS (the source of Potential Sulfuric Acidity) as well as Retained Acidity.

## B. The ASS Planning Maps

The ASS planning maps provide an indication of the relative potential for disturbance of ASS to occur at locations within the council area. These maps do not provide an indication of the actual occurrence of ASS at a site or the likely severity of the conditions.

The maps are divided into five classes dependent upon the type of activities/works that if undertaken, may represent an environmental risk through the development of acidic conditions associated with ASS:

Table 1: Risk Classes

Risk Class	Description
Class 1	All works.
Class 2	All works below existing ground level and works by which the water table is likely to be lowered.
Class 3	Works at depths beyond 1m below existing ground level or works by which the water table is likely to be lowered beyond 1m below existing ground level.
Class 4	Works at depths beyond 2m below existing ground level or works by which the water table is likely to be lowered beyond 2m below existing ground level.
Class 5	Works within 500m of adjacent Class 1, 2, 3, 4 land which are likely to lower the water table below 1m AHD on the adjacent land.

### C. The ASS Risk Maps

The ASS risk maps provide an indication of the probability of occurrence of ASS materials at a particular location based on interpretation from geological and soil landscape maps. The maps provide classes based on high probability, low probability, no known occurrence and areas of disturbed terrain (site specific assessment necessary) and the likely depth at which ASS materials are likely to be encountered.

### D. Interpretation of ASS Field Tests

Tables A1 and A2 below provide some guidance on the interpretation of  $pH_F$  and  $pH_{FOX}$  test results, as detailed in the *National Acid Sulfate Soil Guidance: National acid sulfate soils sampling and identification methods manual* (2018):

Table A1: Interpretation of some  $pH_F$  test ranges

pH value	Result	Comments
$pH_F \leq 4$ , jarosite not observed in the soil layer/horizon	May indicate an AASS indicating previous oxidation of RIS or may indicate naturally occurring, non ASS soils.	Generally not conclusive as naturally occurring, non ASS soils, such as many organic soils (for example peats) and heavily leached soils, often also return $pH_F \leq 4$ .
$pH_F \leq 4$ , jarosite observed in the soil layer/horizon	The soil material is an AASS.	Jarosite and other iron precipitate minerals in ASS such as schwertmannite require a $pH < 4$ to form and indicate prior oxidation of RIS.
$pH_F > 7$	Expected in waterlogged, unoxidised, or poorly drained soils.	Marine muds commonly have a $pH > 7$ which reflects a seawater ( $pH 8.2$ ) influence. Oxidation of samples with $H_2O_2$ can help indicate if the soil materials contain RIS.

Source: Adapted from DER (2015a).

Table A2: Interpretation of  $pH_{FOX}$  test results

pH value and reaction	Result	Comments
Strong reaction of soil with $H_2O_2$ (that is X or V)	Useful indicator of the presence of RIS but cannot be used alone	Organic rich substrates such as peat and coffee rock, and soil constituents like manganese oxides, can also cause a reaction. Care must be exercised in interpreting these results. Laboratory analyses are required to confirm if appreciable RIS is present.
$pH_{FOX}$ value at least one unit below field $pH_F$ and strong reaction with $H_2O_2$ (that is X or V)	May indicate PASS	The difference between $pH_F$ and $pH_{FOX}$ is termed the $\Delta pH$ . Generally the larger the $\Delta pH$ the more indicative of PASS. The lower the final $pH_{FOX}$ the better the likelihood of an appreciable RIS content. For example, a change from $pH_F$ of 8 to $pH_{FOX}$ of 7 (that is a $\Delta pH$ of 1) would not indicate PASS, however, a unit change from $pH_F$ of 3.5 to $pH_{FOX}$ of 2.5 would be indicative of PASS. Laboratory analyses are required to confirm if appreciable RIS is present.



pH value and reaction	Result	Comments
pH <sub>FOX</sub> < 3, large ΔpH and a strong reaction with H <sub>2</sub> O <sub>2</sub> (that is X or V)	Strongly indicates PASS	The lower the pH <sub>FOX</sub> below 3, the greater the likelihood that appreciable RIS is present. A combination of all three parameters – pH <sub>FOX</sub> , ΔpH and reaction strength – gives the best indication of PASS. Laboratory analyses are required to confirm that appreciable RIS is present.
A pH <sub>FOX</sub> 3–4 and Low, Medium or Strong reaction with H <sub>2</sub> O <sub>2</sub>	Inconclusive	RIS may be present; however, organic matter may also be responsible for the decrease in pH. Laboratory analyses are required to confirm the presence of RIS.
pH <sub>FOX</sub> 4–5	Inconclusive	RIS may be present in small quantities, or poorly reactive under rapid oxidation, or the sample may contain shell/ carbonate which neutralises some or all acid produced on oxidation. Equally, the pH <sub>FOX</sub> value may be due to the production of organic acids with no RIS present. Laboratory analyses are required to confirm if appreciable RIS is present.
pH <sub>FOX</sub> > 5, small or no ΔpH, but Low, Medium or Strong reaction with H <sub>2</sub> O <sub>2</sub>	Inconclusive	For neutral to alkaline pHF with shell or white concretions, the fizz test with 1 M HCl can be used to identify the presence of carbonates. Laboratory analyses are required to confirm if appreciable RIS is present and further testing is required to confirm that effective self-neutralising materials are present.

Source: Adapted from DER (2015a).



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## **Appendix C: Lotsearch Environmental Risk and Planning Report**



# LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

**Date: 11 Jun 2024 09:09:43**

**Reference: LS057281 EP**

**Address: 28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204**

**Disclaimer:**

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

## Dataset Listing

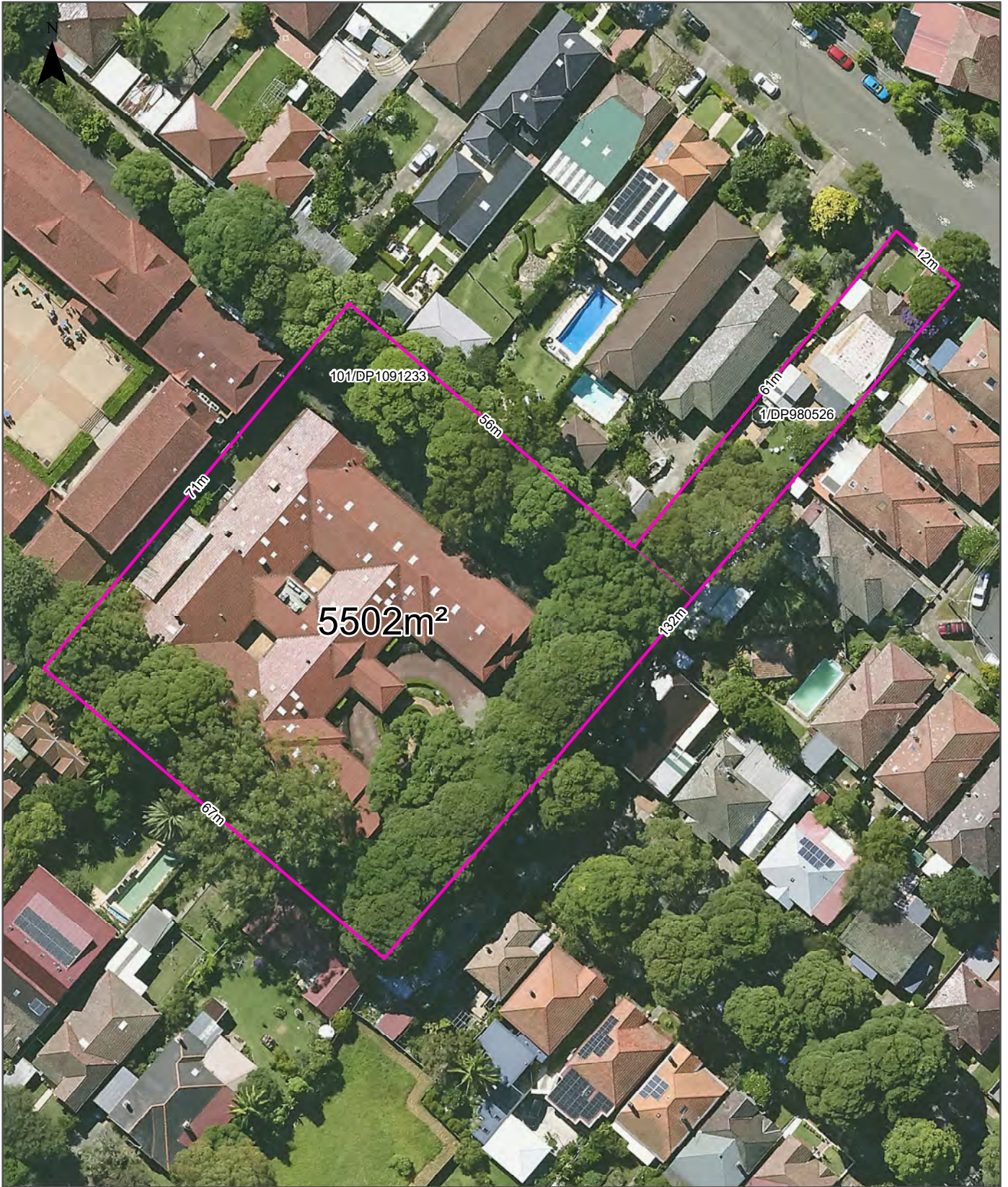
Datasets contained within this report, detailing their source and data currency:



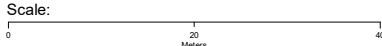
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	17/04/2024	17/04/2024	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	21/05/2024	21/05/2024	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority NSW	15/05/2024	10/05/2024	Monthly	1000m	0	0	4
Contaminated Land Records of Notice	Environment Protection Authority NSW	15/05/2024	15/05/2024	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority NSW	28/04/2024	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority NSW	15/05/2024	15/05/2024	Monthly	1000m	0	1	3
National Waste Management Facilities Database	Geoscience Australia	29/04/2024	29/11/2022	Annually	1000m	0	0	1
National Liquid Fuel Facilities	Geoscience Australia	20/09/2023	07/09/2020	Annually	1000m	0	0	2
EPA PFAS Investigation Program	Environment Protection Authority NSW	15/05/2024	21/11/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	16/05/2024	29/02/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	16/05/2024	29/02/2024	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	16/05/2024	16/05/2024	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	15/04/2024	15/04/2024	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	30/04/2024	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Australian Department of Defence	15/04/2024	15/04/2024	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority NSW	13/11/2023	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority NSW	15/05/2024	15/05/2024	Monthly	1000m	0	3	3
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority NSW	15/05/2024	15/05/2024	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority NSW	15/05/2024	15/05/2024	Monthly	1000m	0	0	4
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	100m	0	5	5
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	100m	-	5	5
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	250m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	250m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	16/04/2024	16/04/2024	Quarterly	1000m	1	1	79
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	16/04/2024	16/04/2024	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	16/04/2024	16/04/2024	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	06/05/2024	06/05/2024	Quarterly	1000m	0	0	4
State Forest	Forestry Corporation of NSW	12/12/2023	11/12/2023	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Geoscience Australia	17/04/2024	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 2018	NSW Department of Climate Change, Energy, the Environment and Water	28/05/2024	23/02/2018	Quarterly	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	28/05/2024	13/07/2022	Annually	2000m	0	0	46
NSW Seamless Geology Single Layer: Rock Units	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	1	1	5
NSW Seamless Geology Single Layer: Trendlines	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	2
NSW Seamless Geology Single Layer: Geological Boundaries and Faults	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Department of Regional NSW	26/04/2024	14/03/2024	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	12/01/2024	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	12/12/2023	27/07/2020	Annually	1000m	1	2	5
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Housing and Infrastructure	04/06/2024	03/05/2024	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	12/01/2024	21/02/2013	Annually	1000m	1	1	3
Dryland Salinity - National Assessment	Australian Bureau of Agricultural and Resource Economics and Sciences	03/06/2024	24/05/2024	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service	03/05/2024	03/05/2024	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Regional NSW	17/05/2024	17/05/2024	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Regional NSW	17/05/2024	17/05/2024	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Regional NSW	17/05/2024	17/05/2024	Monthly	1000m	10	10	10
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Housing and Infrastructure	04/06/2024	08/09/2023	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Housing and Infrastructure	04/06/2024	10/05/2024	Monthly	1000m	2	5	141
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	20/10/2023	13/04/2022	Annually	1000m	0	0	1
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	20/10/2023	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	26/04/2024	08/03/2024	Quarterly	1000m	0	0	3
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Housing and Infrastructure	04/06/2024	10/05/2024	Monthly	1000m	1	4	78
Bush Fire Prone Land	NSW Rural Fire Service	16/05/2024	12/03/2024	Monthly	1000m	0	0	0
NSW Native Vegetation Type Map	NSW Department of Climate Change, Energy, the Environment and Water	26/05/2023	12/12/2022	Quarterly	1000m	1	1	3
Ramsar Wetlands of Australia	Australian Department of Climate Change, Energy, the Environment and Water	16/05/2024	11/04/2024	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	0	0
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	0	0
NSW BioNet Species Sightings	NSW Department of Climate Change, Energy, the Environment and Water	29/11/2023	29/11/2023	Weekly	10000m	-	-	-

# Site Diagram

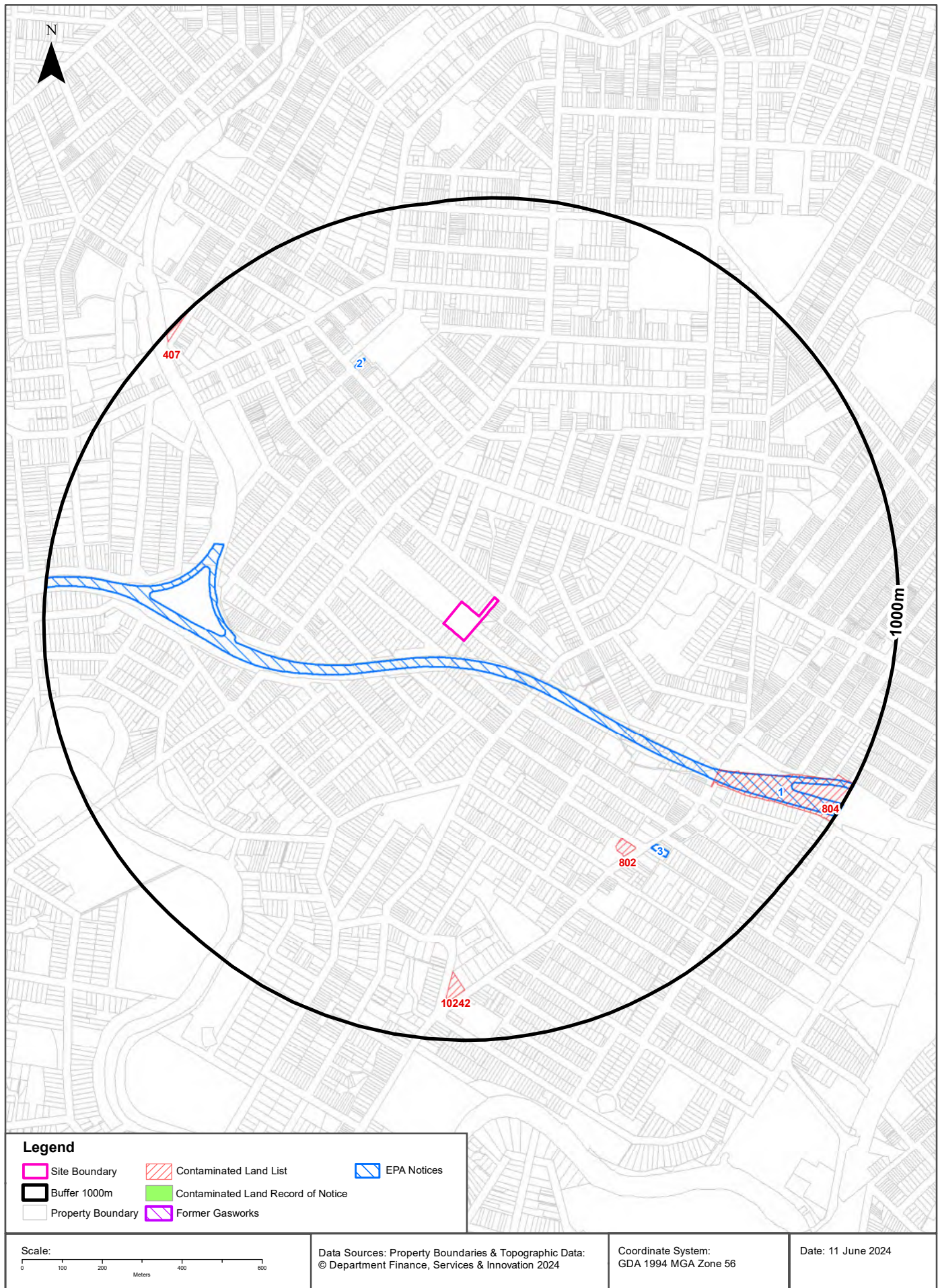
28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



<b>Legend</b>  Site Boundary  Internal Parcel Boundaries	<b>Total Area:</b> 5502m <sup>2</sup> <b>Total Perimeter:</b> 400m	<b>Scale:</b> 
	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.	Data Source Aerial Imagery: © Aerometrex Pty Ltd
		Date: 06 June 2024

# Contaminated Land

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Contaminated Land

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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
802	Former Mobil Service Station	384 Illawarra Road	Marrickville	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	630m	South East
804	RailCorp	361 Victoria Road	Marrickville	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	694m	South East
10242	Woolworths Petrol Service Station Marrickville	490 Illawarra Road	Marrickville	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	829m	South
407	Former Tyre Recapping	115-117 Constitution Road	Dulwich Hill	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	982m	North West

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.

# Contaminated Land

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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  
© State of New South Wales through the 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  
© State of New South Wales through the Environment Protection Authority

# Contaminated Land

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## EPA Notices

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

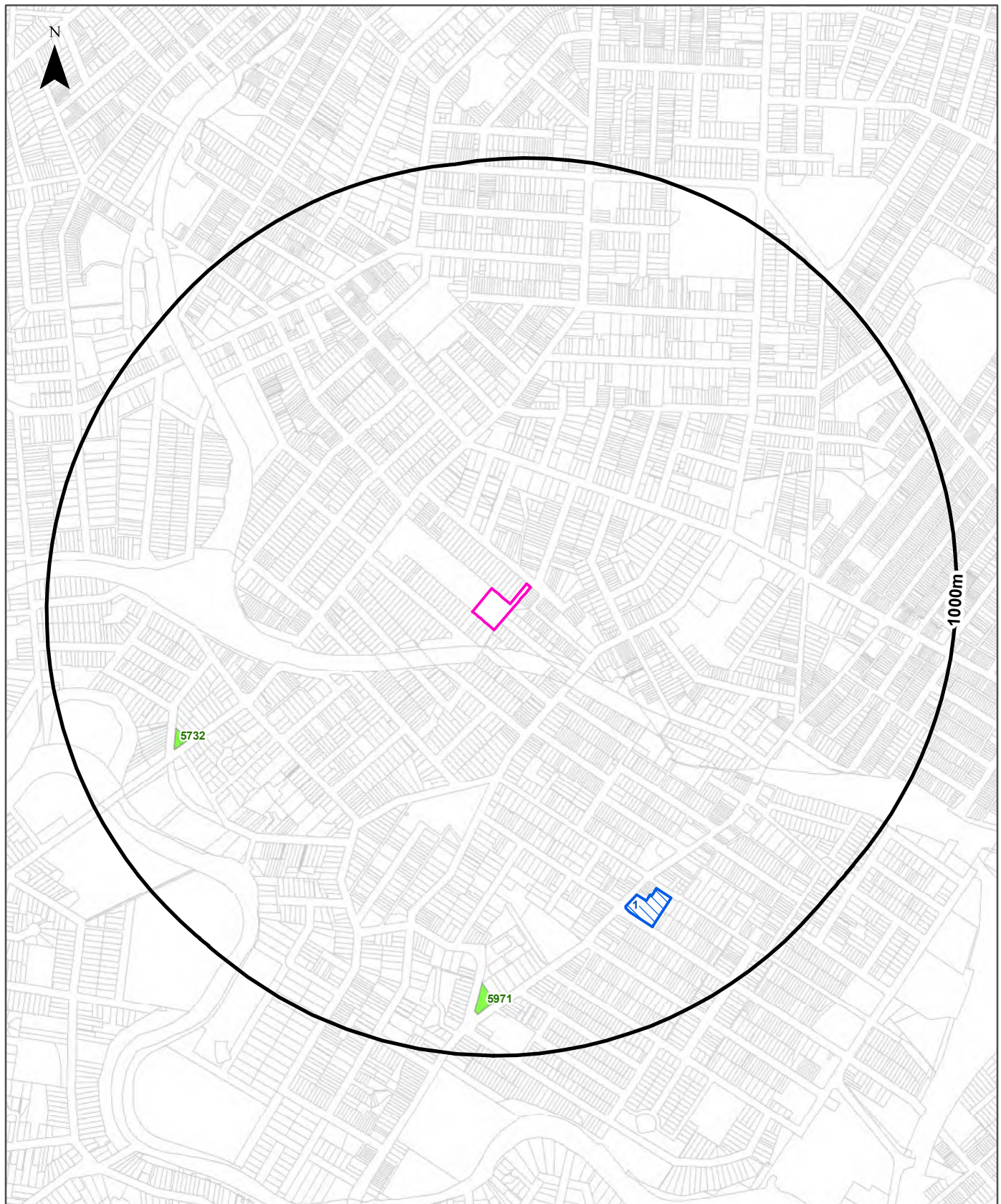
Map ID	Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
1	3173530755	Penalty Notice	SYDNEY TRAINS	SYDNEY TRAINS, HAYMARKET, NSW 1238	Issued	10/11/2021	Protection of the Environment Operations Act 1997 - 64(1)	Contravene condition of licence - Corporation	31/05/2021	Network of Features	45m	South
2	3085777072	Penalty Notice	CUONG NGUYEN	465 MARRICKVILLE ROAD, DULWICH HILL, NSW 2203	Issued	25/06/2015	Protection of the Environment Operations (Waste) Regulation 2014 - 54	Consignor fail to retain required records as prescribed - Individual	01/04/2015	Premise Match	643m	North West
3	<a href="#">1122021</a>	s.91 Clean Up Notice	HARI KRISNA PTY LTD		Issued	30/11/2010				Premise Match	697m	South East

NSW EPA Notice Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

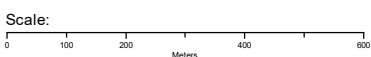
# Waste Management & Liquid Fuel Facilities

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## Legend

- Site Boundary
- Waste Management Facilities
- Buffer 1000m
- National Liquid Fuel Facilities
- Property Boundary



Data Sources: Property Boundaries & Topographic Data:  
© Department Finance, Services & Innovation 2024

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 11 June 2024

# Waste Management & Liquid Fuel Facilities

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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
1	WOOLWORTHS	WOOLWORTHS SUPERMARKET	463 ILLAWARRA ROAD, MARRICKVILLE	DROP-OFF	SOFT PLASTICS DROP-OFF FACILITY	OPERATIONAL	Premise Match	707m	South East

Source: Waste Management Facilities Database  
Creative Commons 4.0 © Commonwealth of Australia (Geoscience Australia) 2022

## National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
5732	BUDGET	BUDGET DULWICH HILL	299-303 WARDELL ROAD	DULWICH HILL	PETROL STATION	OPERATIONAL			Premise Match	734m	South West
5971	CALTEX WOOLWORTHS	CALTEX WOOLWORTHS MARRICKVILLE	490 ILLAWARRA ROAD	MARRICKVILLE	PETROL STATION	OPERATIONAL			Premise Match	829m	South

National Liquid Fuel Facilities Data Source: Geoscience Australia  
Creative Commons 4.0 © Commonwealth of Australia

# PFAS Investigation & Management Programs

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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  
© State of New South Wales through the 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

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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
- Pasmenco Lead Abatement Strategy Area

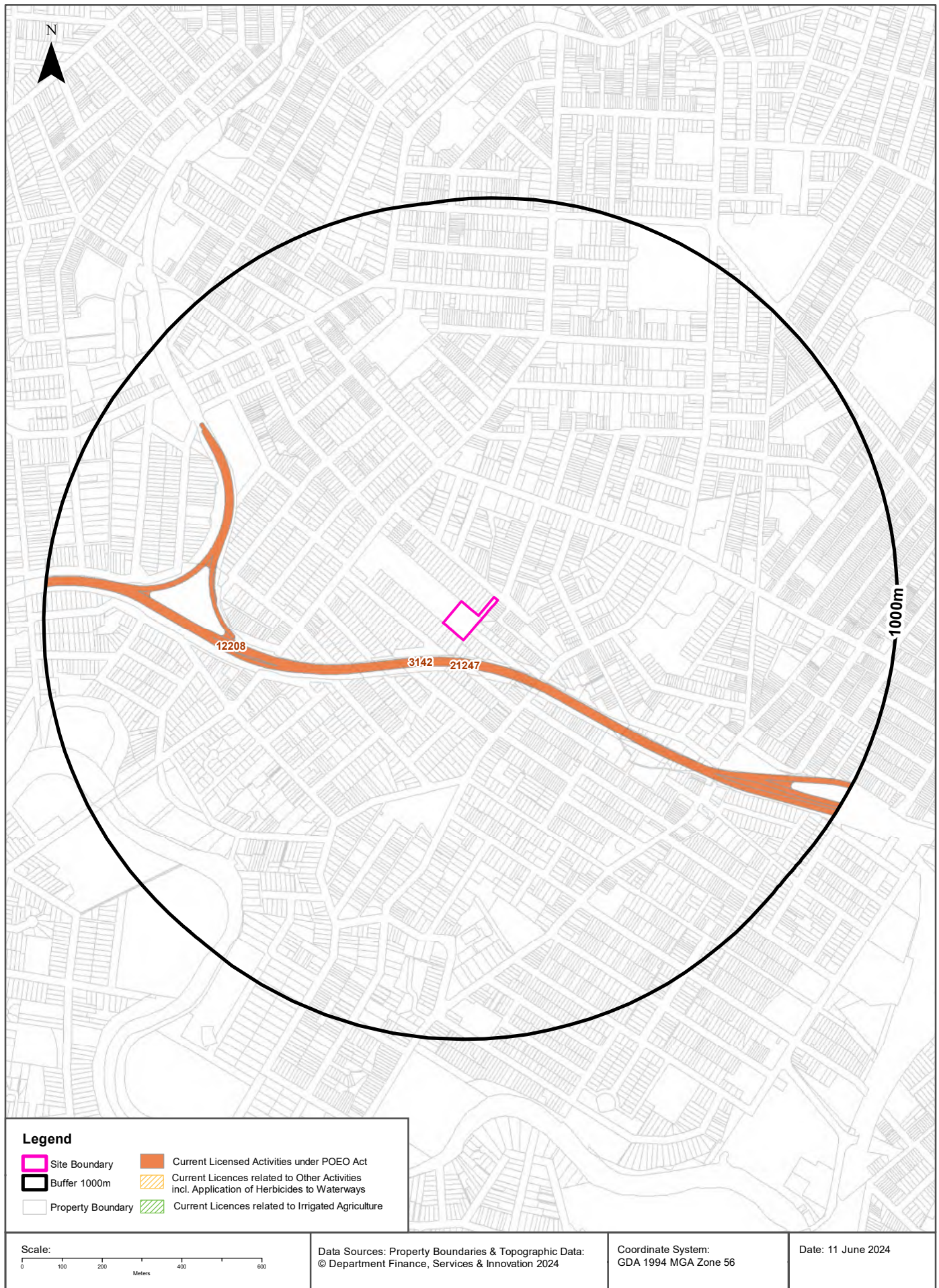
Sites within the dataset buffer:

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  
© State of New South Wales through the Environment Protection Authority

# Current EPA Licensed Activities

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## EPA Activities

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Licensed Activities under the POEO Act 1997

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

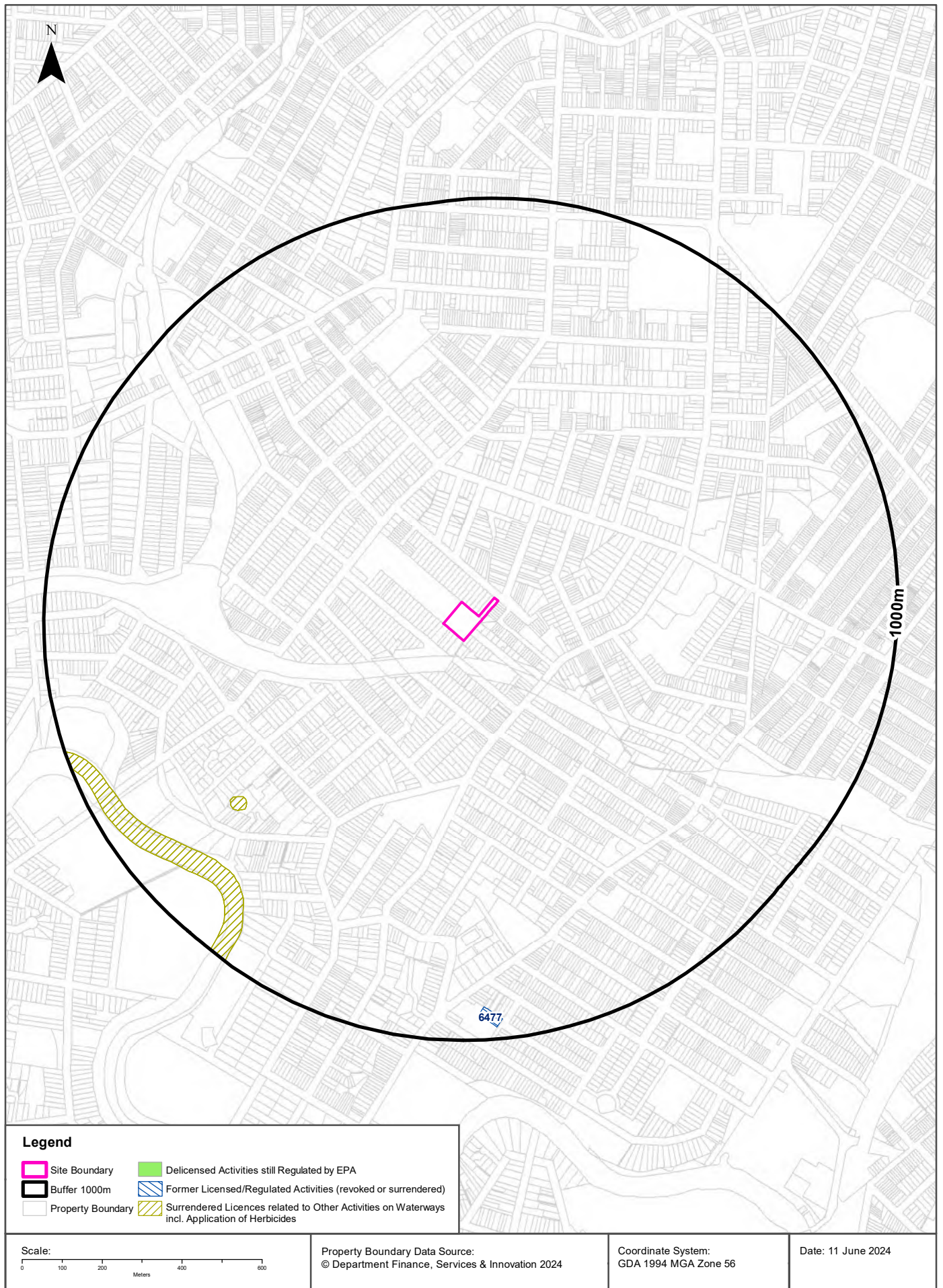
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
3142	AUSTRALIAN RAIL TRACK CORPORATION LIMITED		AUSTRALIAN RAIL TRACK CORPORATION (ARTC) NETWORK, SYDNEY, NSW 2001		Railway systems activities	Network of Features	45m	South West
12208	SYDNEY TRAINS		SYDNEY TRAINS, HAYMARKET, NSW 1238		Railway systems activities	Network of Features	45m	South
21247	Metro Trains Sydney Pty Ltd		SYDNEY METRO, ROUSE HILL, NSW 2155		Railway systems activities	Network of Features	54m	South West

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Delicensed & Former Licensed EPA Activities

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## EPA Activities

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### 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

© State of New South Wales through the 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:

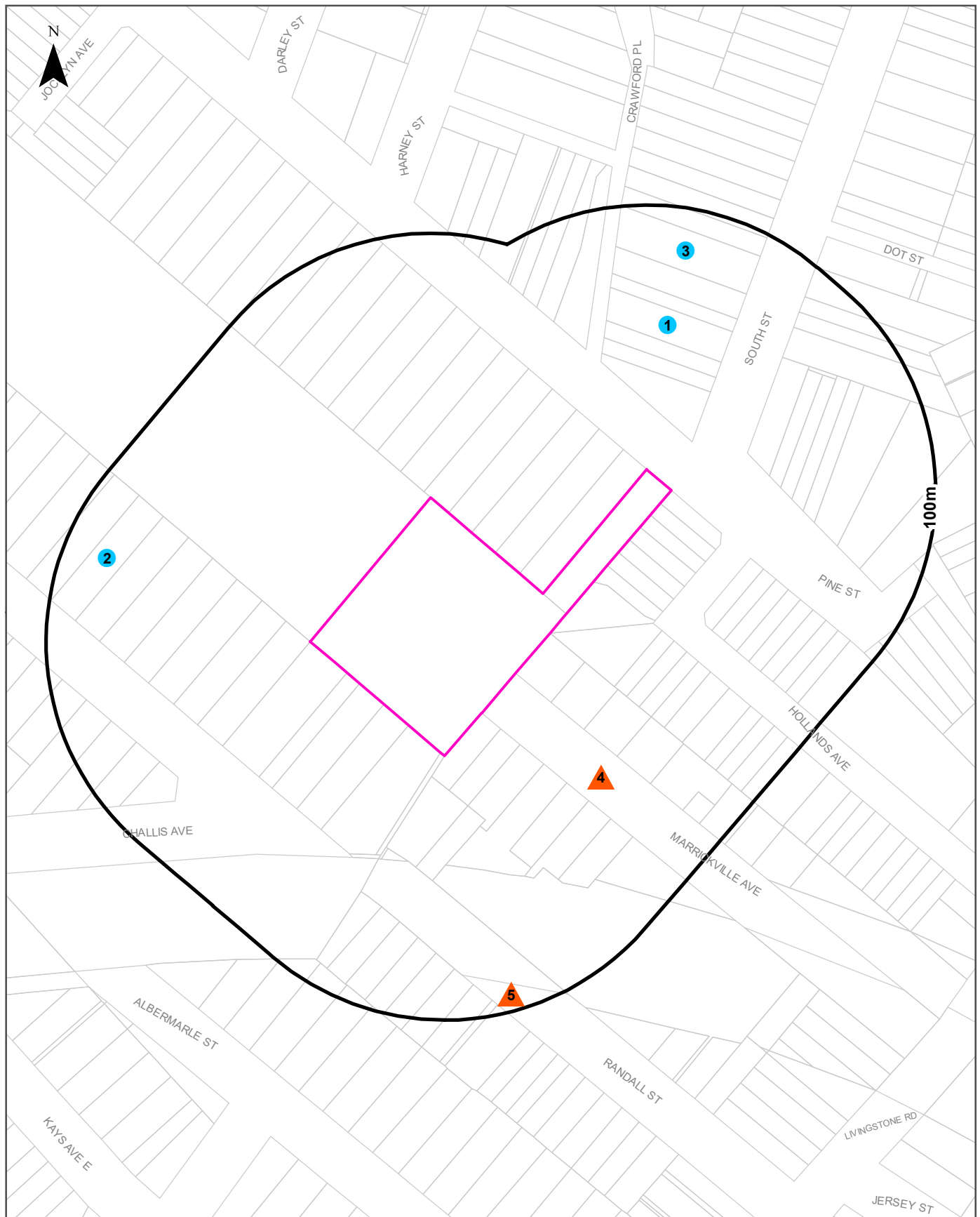
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	661m	South West
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	661m	South West
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	661m	South West
6477	MARRICKVILLE METALS PTY. LTD.	523A ILLAWARRA ROAD, MARRICKVILLE, NSW 2204	Surrendered	15/05/2000	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	917m	South

Former Licensed Activities Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Historical Business Directories

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



<b>Legend</b> <ul style="list-style-type: none"> <li><span style="border: 1px solid pink; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Site Boundary</li> <li><span style="border: 2px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Buffer 100m</li> <li><span style="border: 1px solid grey; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Property Boundary</li> <li><span style="color: blue; font-weight: bold;">●</span> Business directory records mapped to a specific premise</li> <li><span style="color: green; font-weight: bold;">■</span> Business directory records mapped to a road intersection</li> <li><span style="color: orange; font-weight: bold;">▲</span> Business directory records mapped to a road corridor</li> <li><span style="border: 1px dashed green; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Business directory records mapped to a general area</li> </ul>		Scale: 	Coordinate System: GDA 1994 MGA Zone 56  Date: 11 June 2024
Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018			

# Historical Business Directories

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Business Directory Records 1950-1991 Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 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
1	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	R.E.M. Products, 33 South St, Marrickville.	41161	1950	Premise Match	48m	North East
2	ARCHITECTS	Ryan, M. S., 21 Challis Ave., Dulwich Hill	268490	1961	Premise Match	73m	West
	ARCHITECTS	Ryan, M. B., 21 Challis Ave., Dulwich Hill	2391	1950	Premise Match	73m	West
3	CHEMISTS- PHARMACEUTICAL	Cross, L. H., 29 South St., Marrickville	21431	1950	Premise Match	75m	North East
	HERBALISTS	Cross, L. H., 29 South St., Marrickville	62050	1950	Premise Match	75m	North East

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## Business Directory Records 1950-1991 Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 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
4	FOUNDERS-FERROUS	Dobson, H., 2 Marrickville Ave., Marrickville	47660	1950	Road Match	0m
	ROOFING MATERIAL MANUFACTURERS	Roof and Building Pty. Ltd., Works, Marrickville Ave., Marrickville	99682	1950	Road Match	0m
5	PUBLISHERS	Darwin Safari, 11 Randall St.	363202	1961	Road Match	83m
	CLOTHING MFRS. &/OR W'SALERS-LADIES' DRESSES & GOWNS	Taffs, R. H. Pty. Ltd., 11 Randall St.	290296	1961	Road Match	83m
	CLOTHING MFRS. &/OR WHOLESALERS-SPORTSWEAR	Taffs, R. H. Pty. Ltd., 11 Randall St.	291228	1961	Road Match	83m

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## Historical Business Directories

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### Dry Cleaners, Motor Garages & Service Stations 1948-1993 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.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

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

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

## Dry Cleaners, Motor Garages & Service Stations 1948-1993 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.

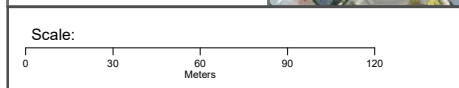
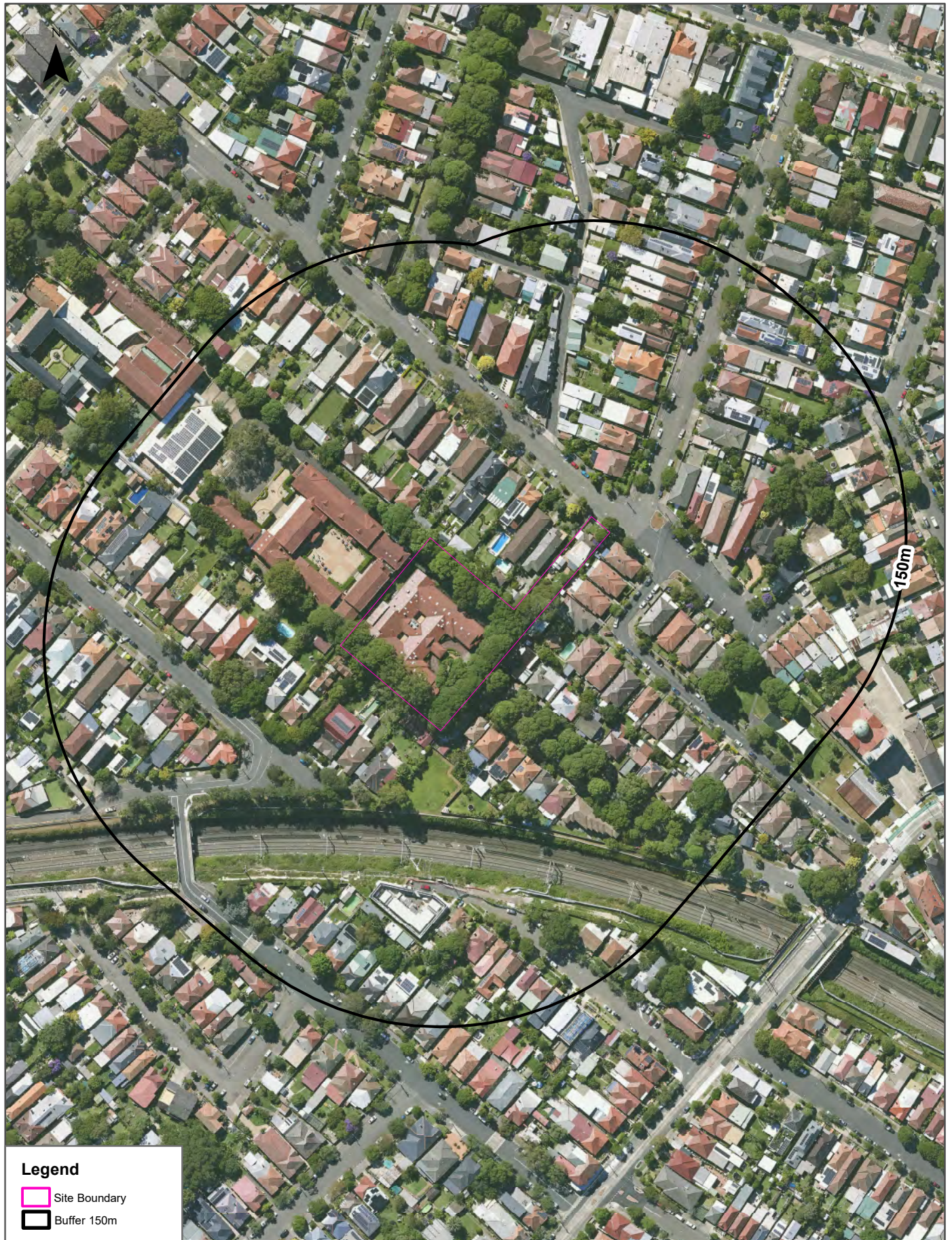
Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

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

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

# Aerial Imagery 2024

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



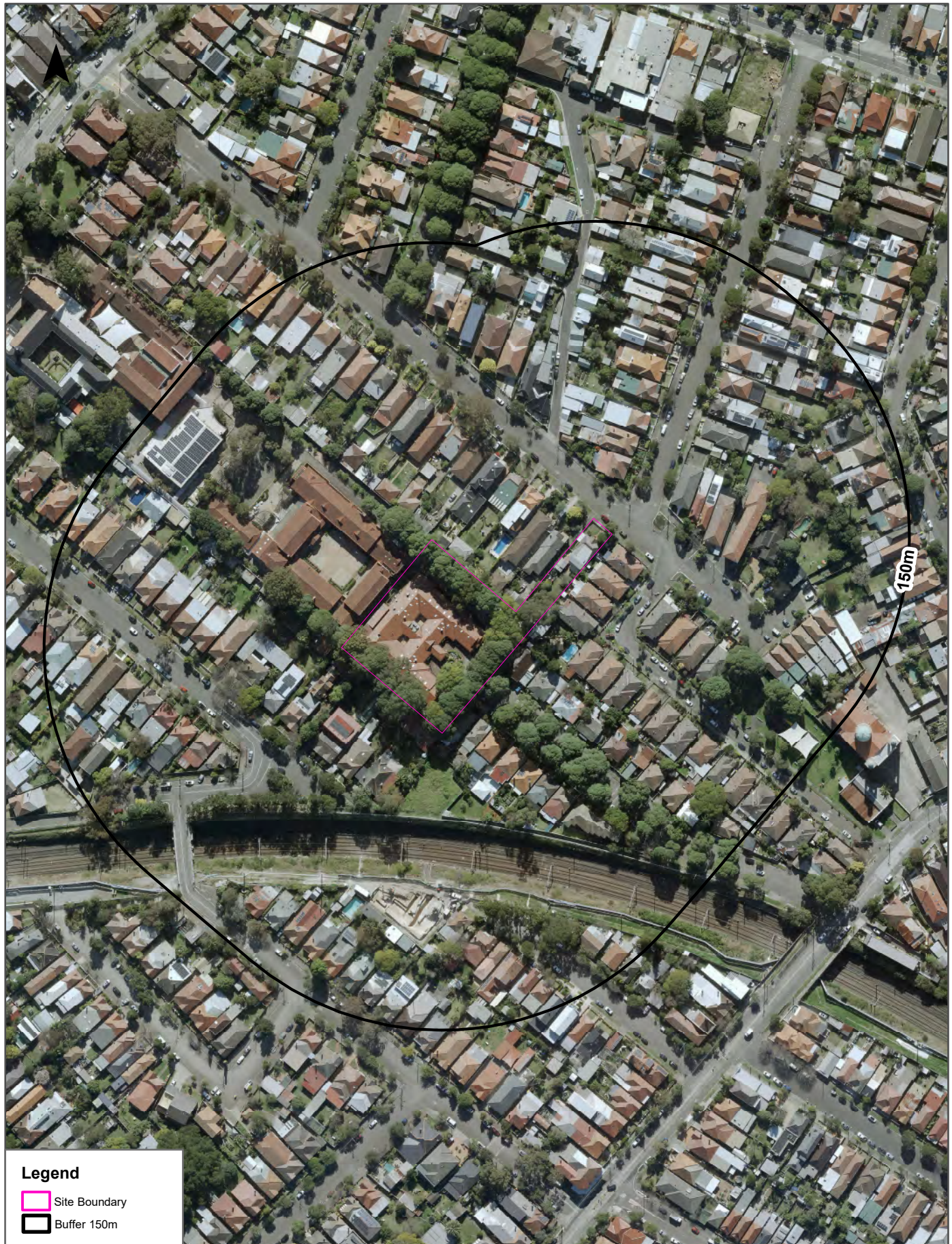
Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

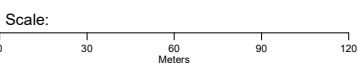
# Aerial Imagery 2021

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

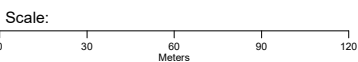
# Aerial Imagery 2018

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## Legend

-  Site Boundary
-  Buffer 150m



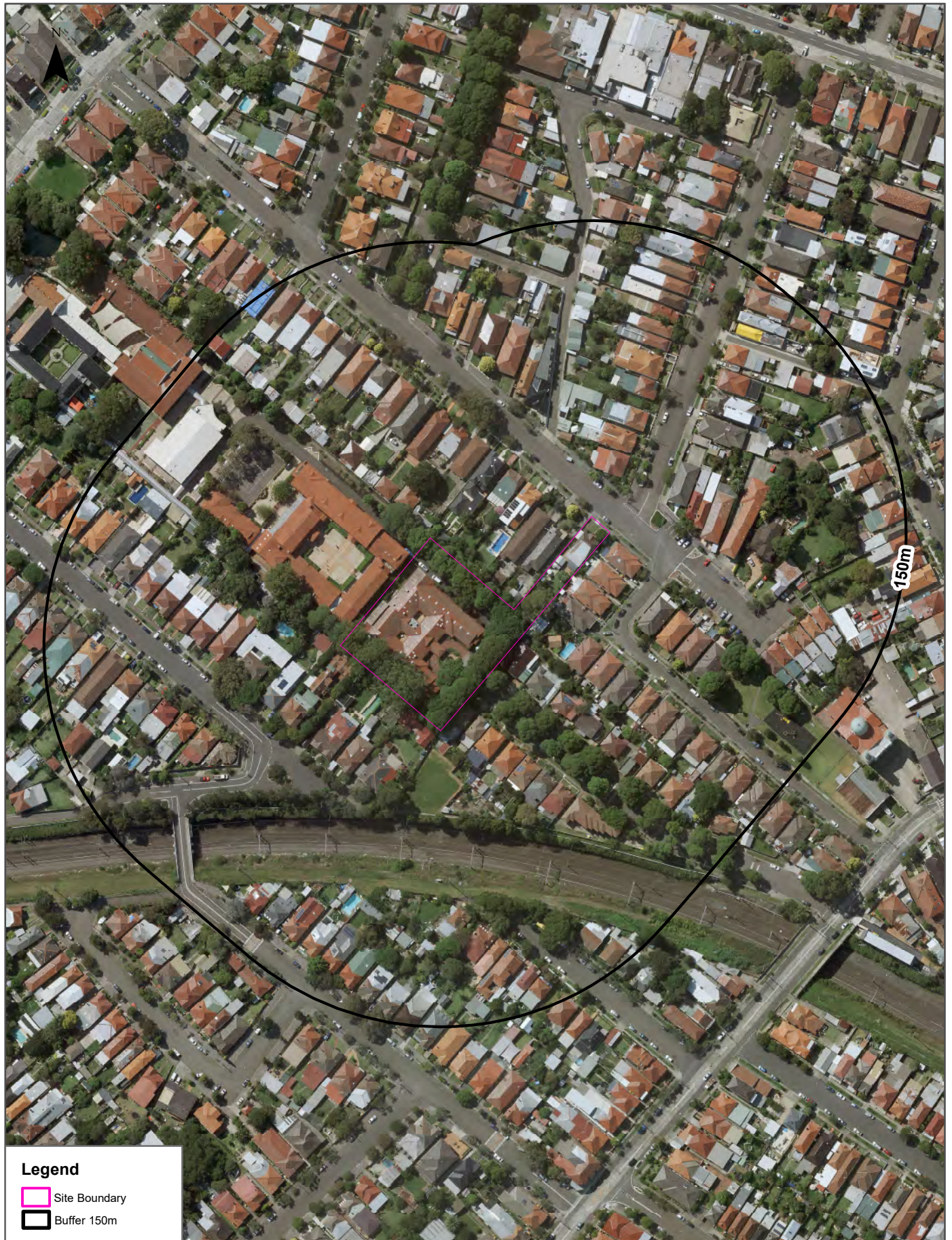
Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56


Date: 06 June 2024

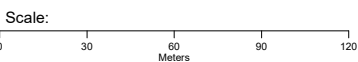
# Aerial Imagery 2015

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



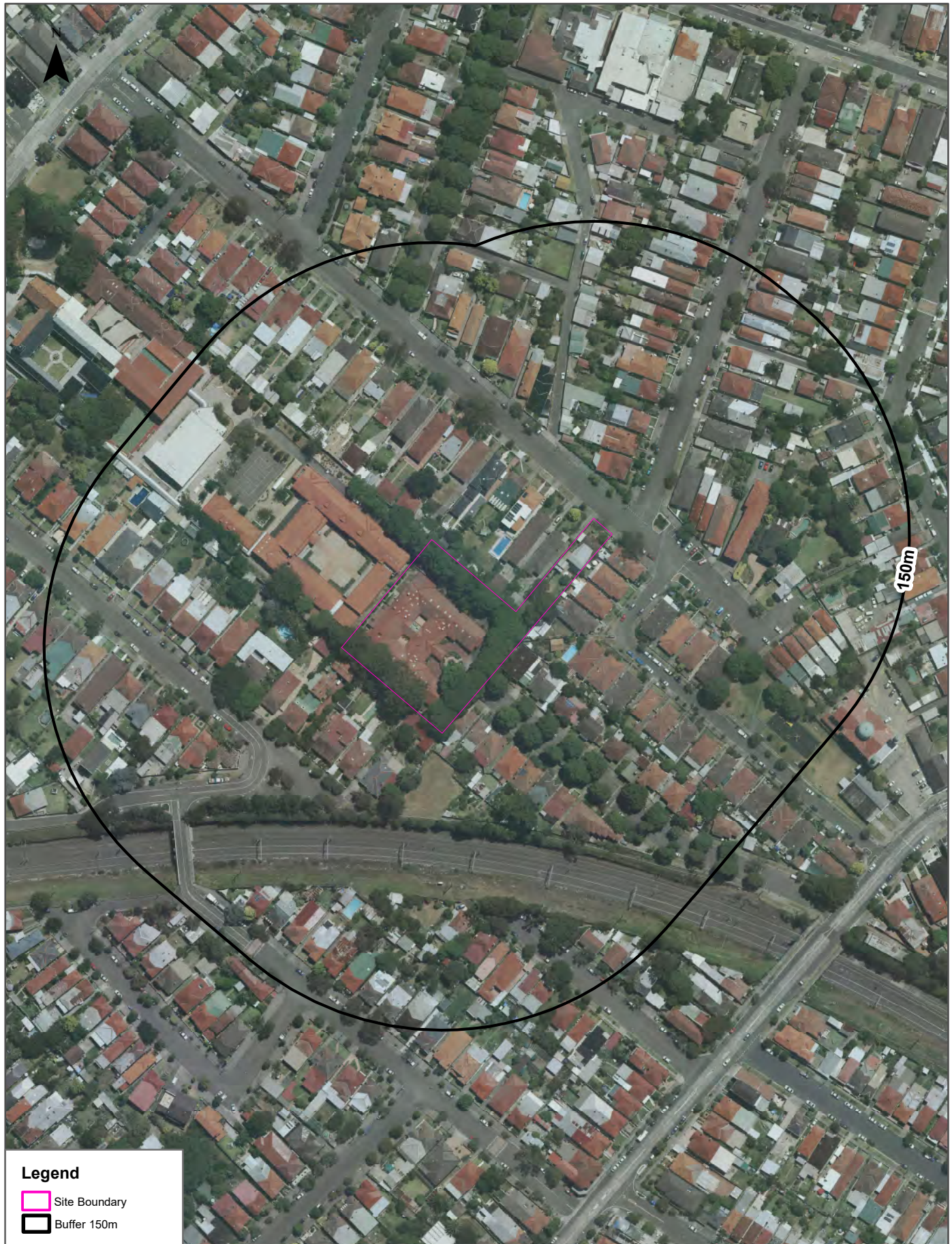
Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

# Aerial Imagery 2011

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## Legend

-  Site Boundary
-  Buffer 150m

Scale:  
0 30 60 90 120  
Meters

Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

# Aerial Imagery 2007

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## Legend

-  Site Boundary
-  Buffer 150m

Scale:  
0 30 60 90 120  
Meters

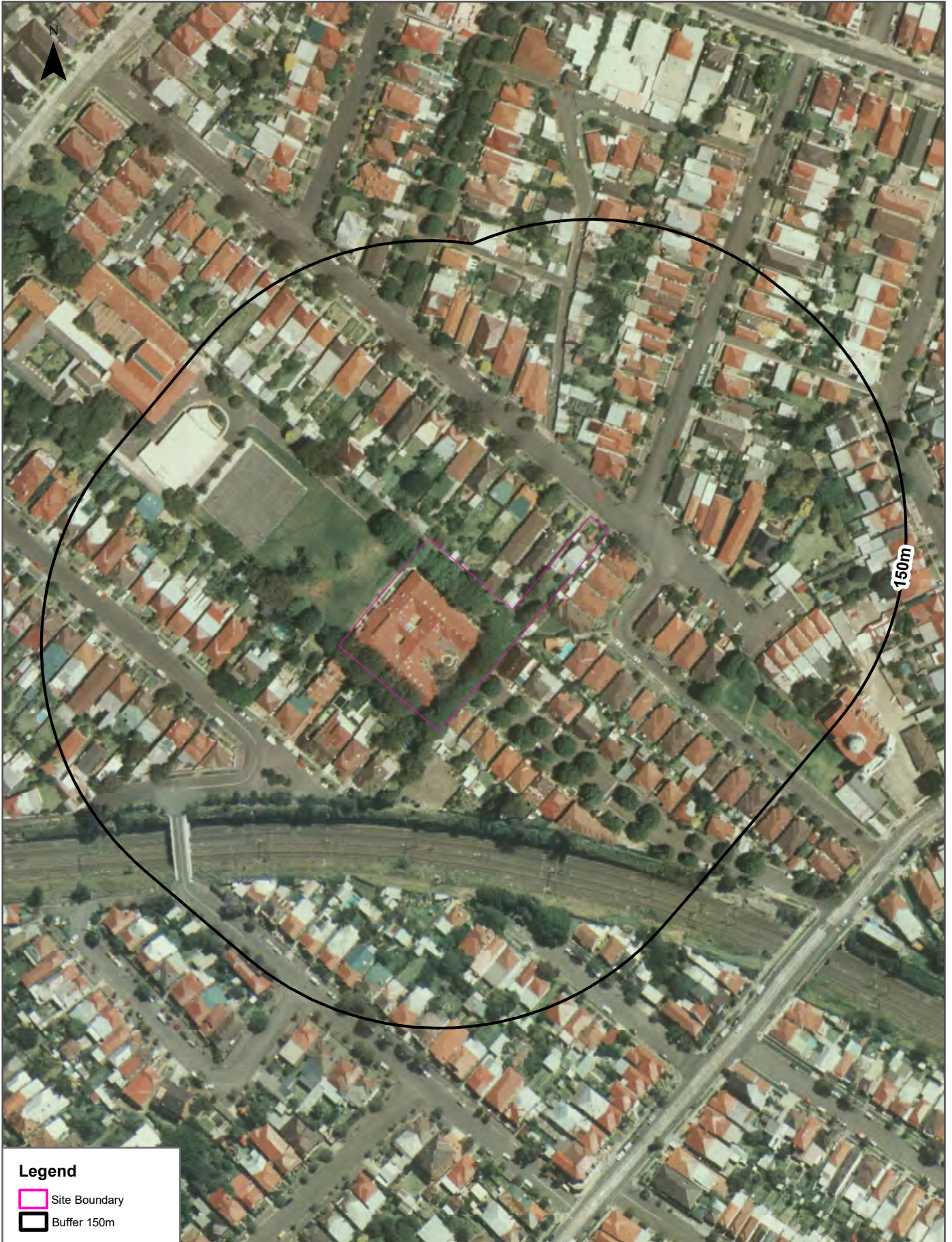
Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

# Aerial Imagery 2000

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m

Scale:  
0 30 60 90 120  
Meters

Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

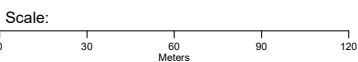
# Aerial Imagery 1994

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

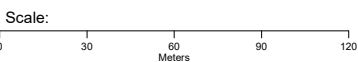
# Aerial Imagery 1991

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

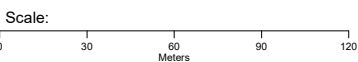
# Aerial Imagery 1986

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

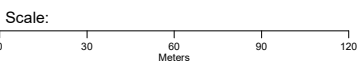
# Aerial Imagery 1982

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

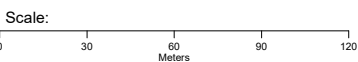
# Aerial Imagery 1978

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

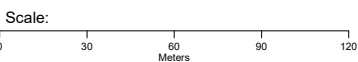
# Aerial Imagery 1970

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

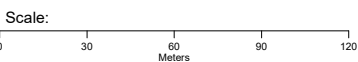
# Aerial Imagery 1965

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

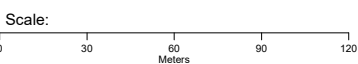
# Aerial Imagery 1961

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

# Aerial Imagery 1955, 1956

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## Legend

-  Site Boundary
-  Buffer 150m

Scale:  
0 30 60 90 120  
Meters

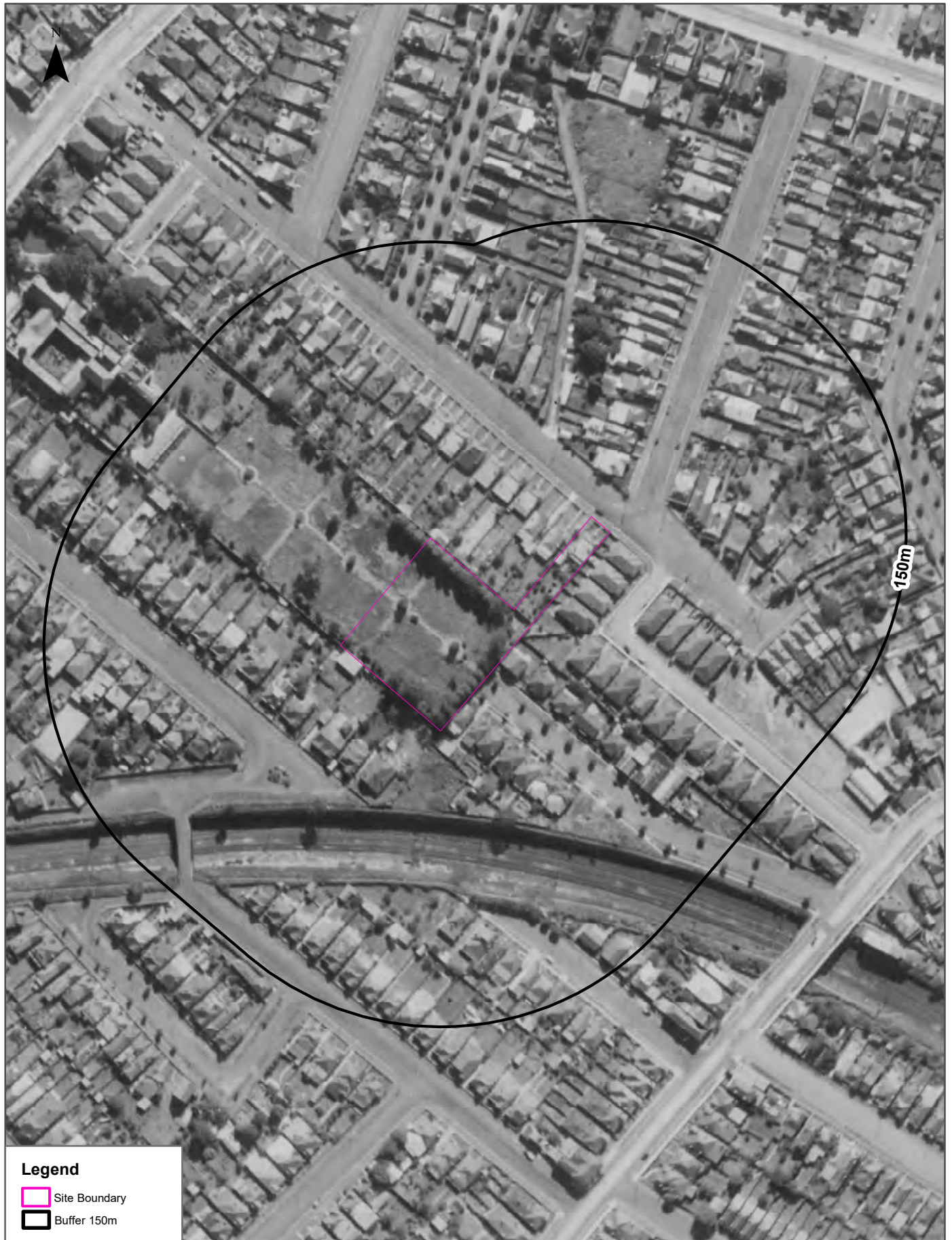
Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

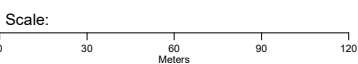
# Aerial Imagery 1951

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery:  
© NSW Department of Customer Service

Coordinate System:  
GDA 1994 MGA Zone 56



Date: 06 June 2024

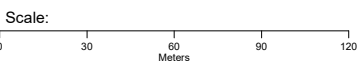
# Aerial Imagery 1943

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

-  Site Boundary
-  Buffer 150m



Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 06 June 2024

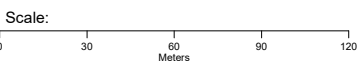
# Aerial Imagery 1930

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



### Legend

- Site Boundary
- Buffer 150m



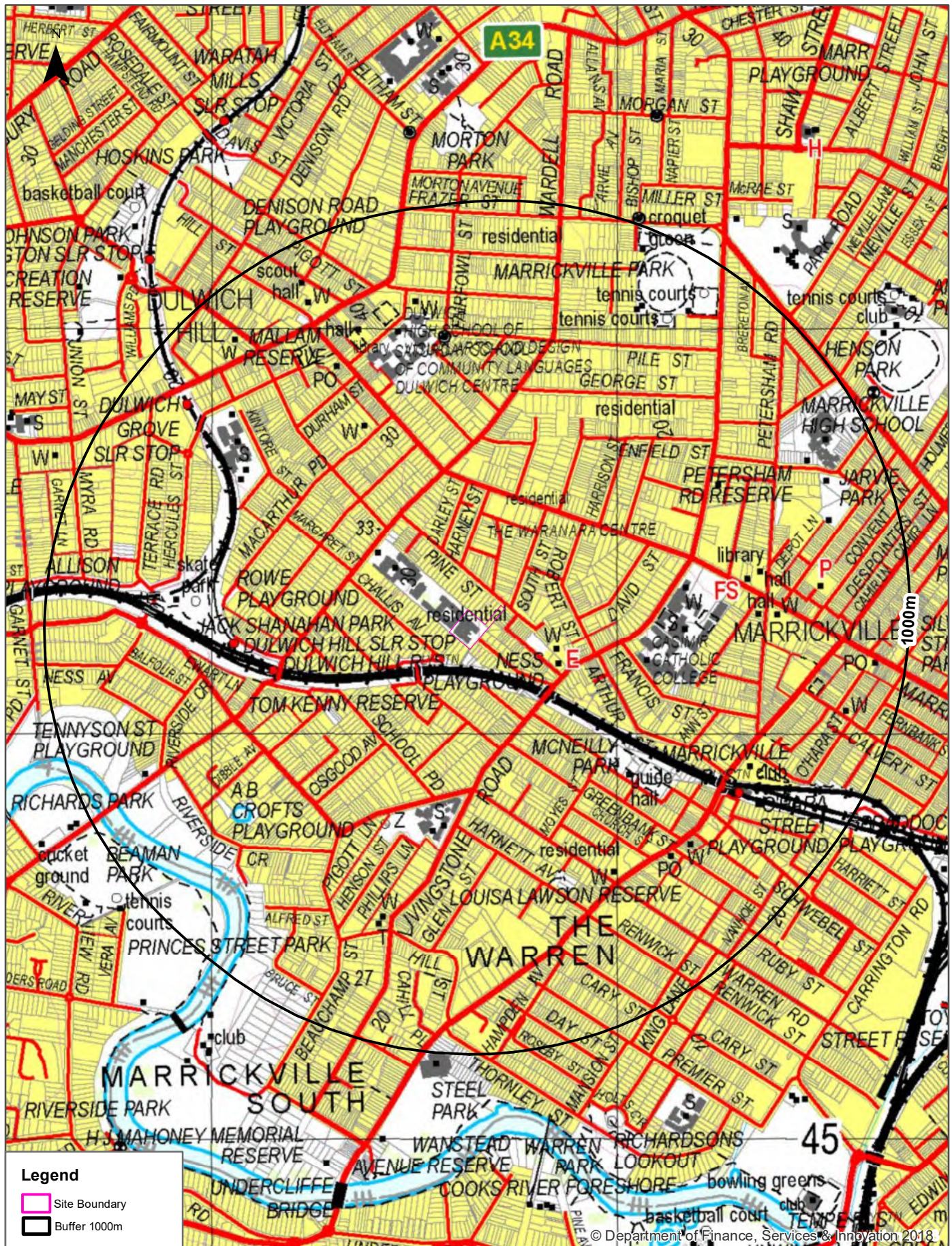
Data Sources: Aerial Imagery:  
© Geoscience Australia

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 06 June 2024

# Topographic Map 2015

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



Scale: 0 150 300 450 600 Meters	Data Sources: Topographic Map Data © NSW Land and Property Information	Coordinate System: GDA 1994 MGA Zone 56	Date: 11 June 2024
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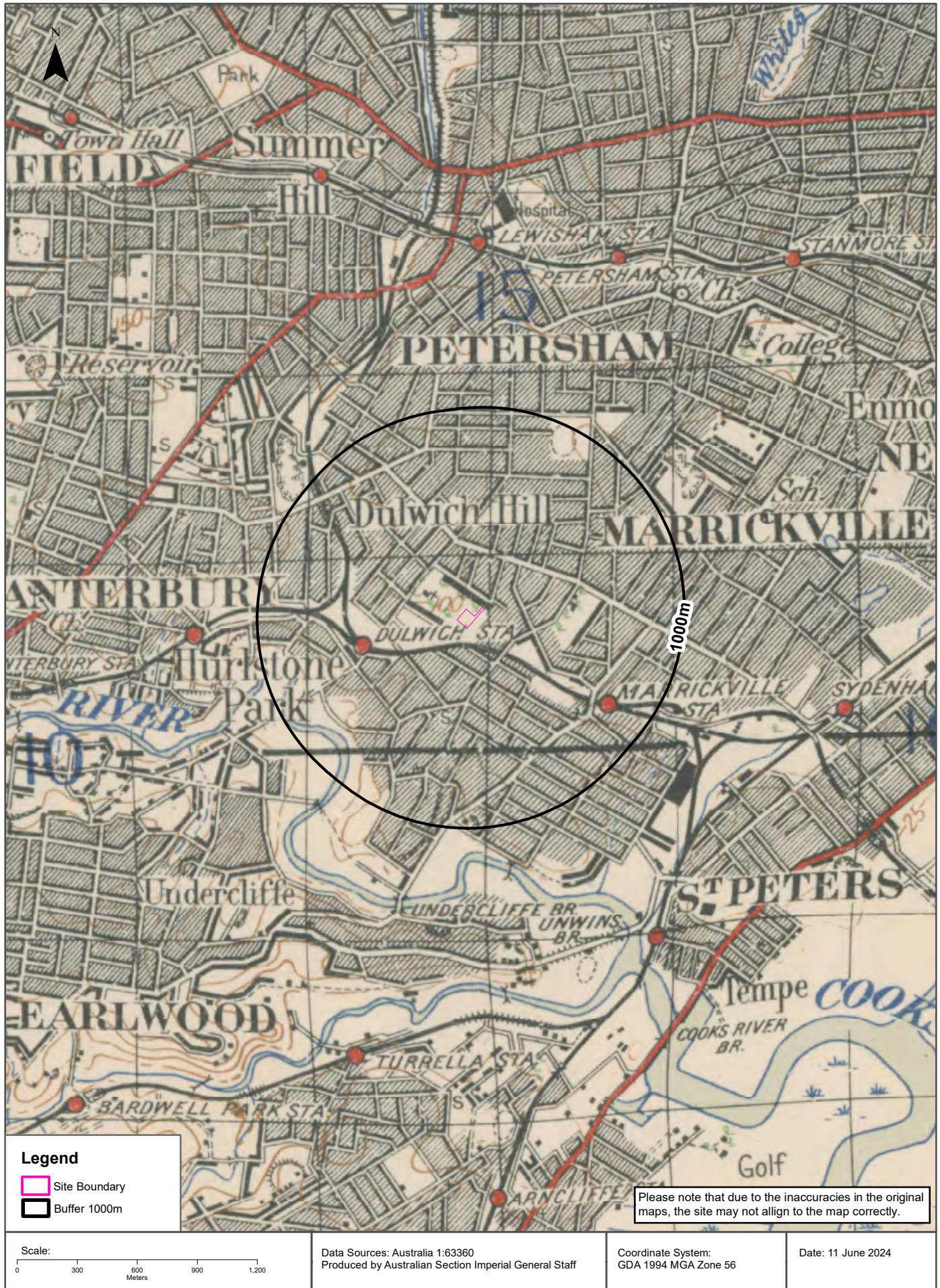
# Historical Map 1975

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



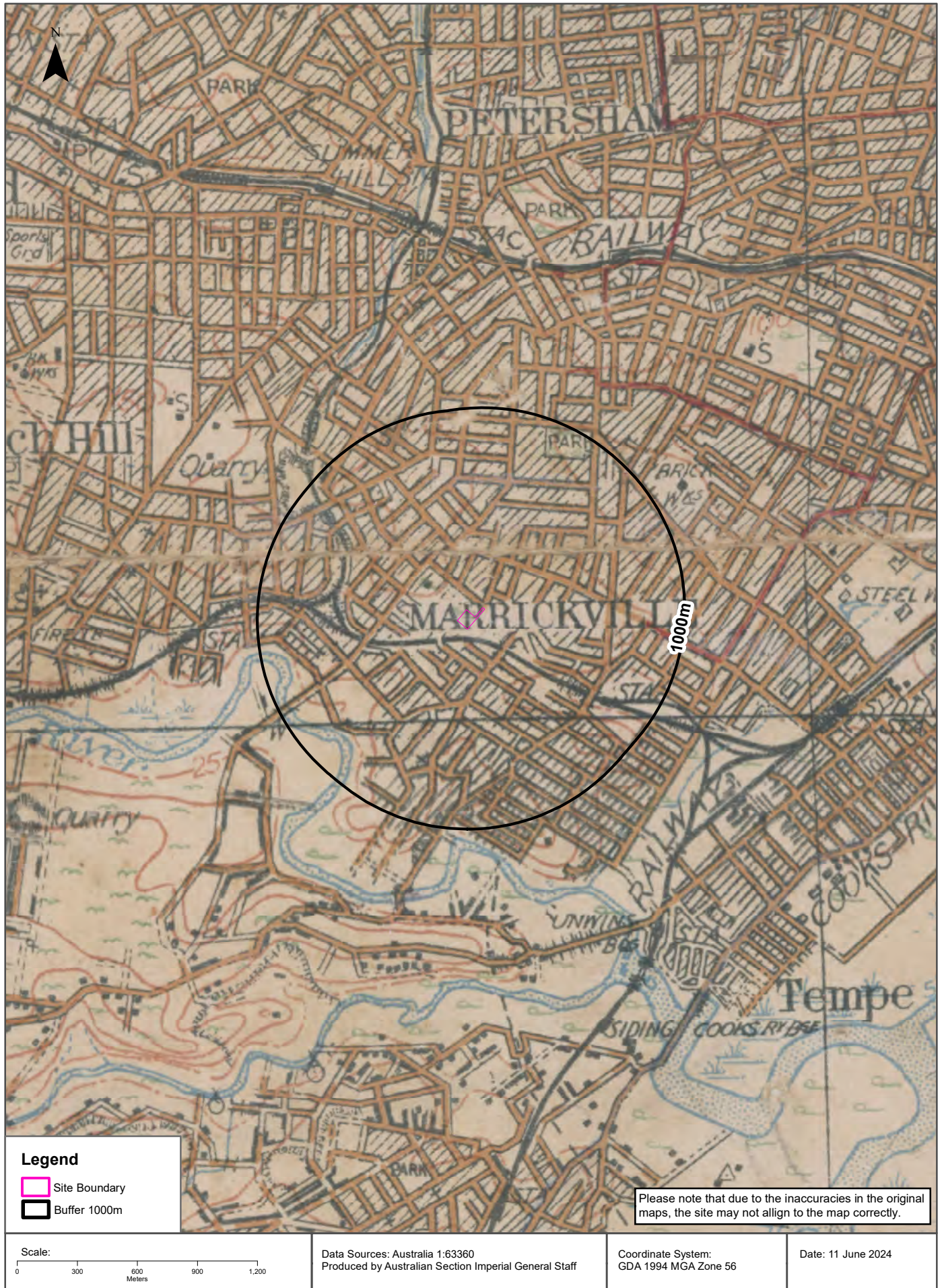
# Historical Map c.1936

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



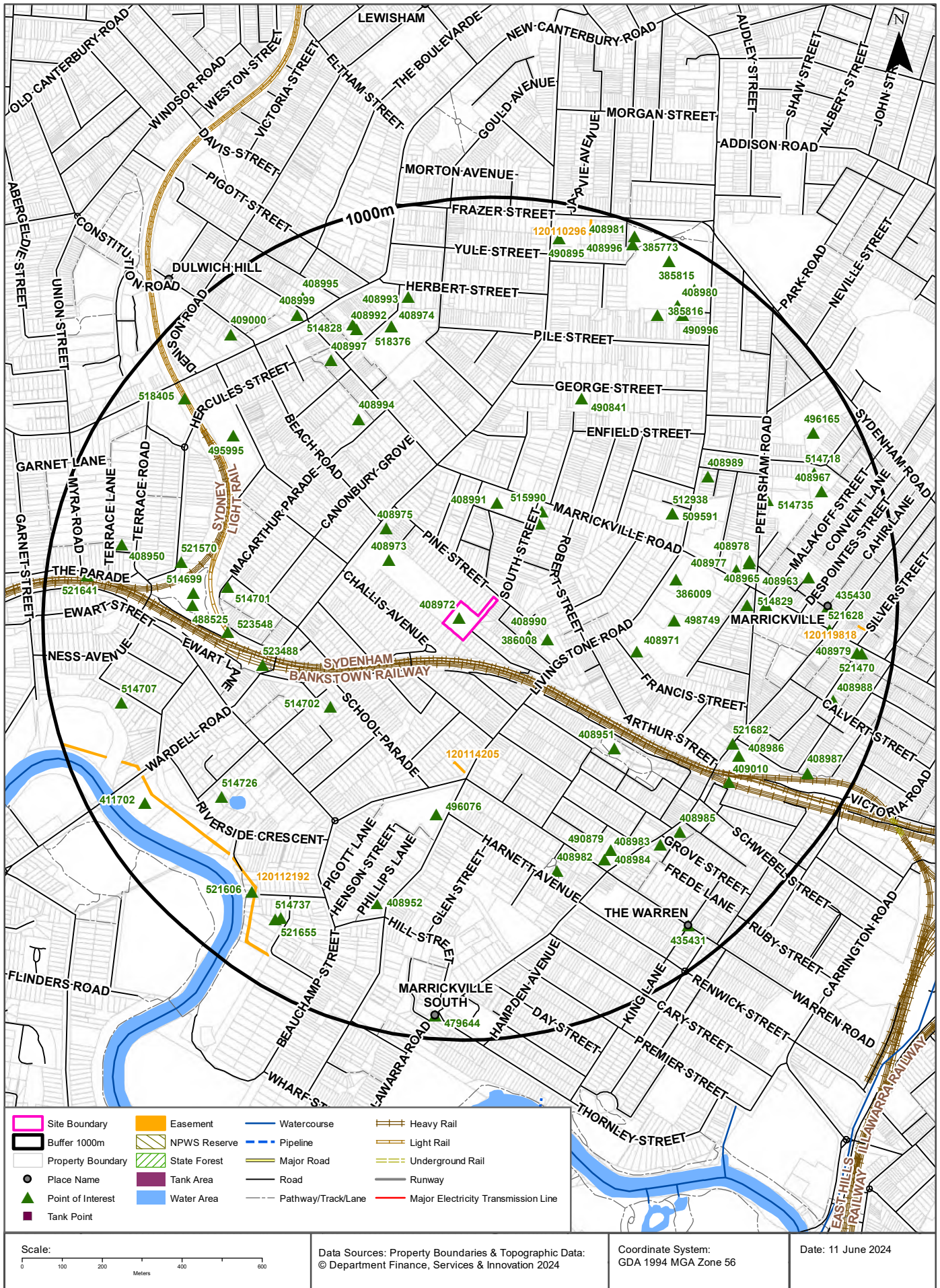
# Historical Map c.1917

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Topographic Features

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Topographic Features

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
408972	Nursing Home	THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE	0m	On-site
408990	Park	NESS PLAYGROUND	116m	East
386008	Place Of Worship	SAINT NICHOLAS	160m	East
408973	Combined Primary-Secondary School	ST MAROUN'S COLLEGE	205m	North West
519082	Special School	WARANARA SCHOOL-SENIOR CAMPUS	217m	North East
408991	Nursing Home	COLUMBIA AGED CARE SERVICES-ACACIA CENTRE	236m	North
515990	Special School	WARANARA SCHOOL	246m	North East
408975	Park	GILBERT BARRY RESERVE	261m	North West
514702	Park	TOM KENNY RESERVE	350m	South West
408971	High School	CASIMIR CATHOLIC COLLEGE	370m	East
496076	Primary School	MARRICKVILLE WEST PUBLIC SCHOOL	440m	South
498749	Primary School	ST BRIGIDS CATHOLIC PRIMARY SCHOOL	445m	East
386009	Place Of Worship	PARISH OF ST BRIGID'S	449m	East
408951	Park	MCNEILLY PARK	463m	South East
523488	Railway Station	DULWICH HILL RAILWAY STATION	463m	West
509591	Community Medical Centre	MARRICKVILLE HEALTH CENTRE	488m	North East
512938	Community Medical Centre	MARRICKVILLE EARLY CHILDHOOD HEALTH CENTRE	488m	North East
408994	Place Of Worship	DULWICH HILL BAPTIST CHURCH	523m	North West
523548	Railway Station	DULWICH HILL SLR STOP	538m	West
490841	Nursing Home	WILLANDRA RESIDENTIAL AGED CARE FACILITY	543m	North East
514701	Park	ROWE PLAYGROUND	546m	West
408977	Fire Station	MARRICKVILLE FIRE STATION	601m	East
408989	Community Facility	GREEK MACEDONIAN CLUB	610m	North East
408982	Park	LOUISA LAWSON RESERVE	622m	South
514829	Community Facility	HERB GREEDY HALL	624m	East
488525	Park	JACK SHANAHAN PARK	628m	West
514699	Sports Court	SKATE PARK	629m	West
408965	Community Facility	MARRICKVILLE TOWN HALL	636m	East
408978	Library	MARRICKVILLE LIBRARY	638m	East
490879	Nursing Home	UNITING THOMAS ROSEBY LODGE MARRICKVILLE	641m	South East
408984	Place Of Worship	MARRICKVILLE UNITING CHURCH	652m	South East

Map Id	Feature Type	Label	Distance	Direction
521570	Park	ALLISON PLAYGROUND	671m	West
408964	Place Of Worship	MARRICKVILLE ROAD CHURCH	672m	East
408997	Post Office	DULWICH HILL POST OFFICE	686m	North West
521682	Locality	LITTLE VIETNAM	689m	South East
408952	Place Of Worship	SEVENTH DAY ADVENTIST CHURCH	693m	South
514726	Park	A B CROFTS PLAYGROUND	703m	South West
495995	Primary School	DULWICH HILL PUBLIC SCHOOL	703m	North West
518376	High School	SATURDAY SCHOOL OF COMMUNITY LANGUAGES DULWICH CEN	709m	North
408974	High School	DULWICH HIGH SCHOOL OF VISUAL ARTS AND DESIGN	709m	North
408983	Post Office	MARRICKVILLE SOUTH POST OFFICE	710m	South East
408986	Club	MARRICKVILLE RSL CLUB	718m	South East
514735	Park	PETERSHAM RD RESERVE	719m	East
408985	Place Of Worship	CHURCH OF CHRIST	723m	South East
408992	Library	DULWICH HILL LIBRARY	729m	North
409010	Railway Station	MARRICKVILLE RAILWAY STATION	736m	South East
514828	Community Facility	SEAVIEW ST HALL	743m	North
408993	Place Of Worship	HOLY TRINITY CHURCH	774m	North
408963	Police Station	MARRICKVILLE POLICE STATION	780m	East
385816	Sports Court	TENNIS COURTS	816m	North East
521606	Park	ALFRED STREET PLAYGROUND	822m	South West
408999	Park	MALLAM RESERVE	826m	North West
435430	Suburb	MARRICKVILLE	827m	East
408950	Park	ALLISON PLAYGROUND	827m	West
514707	Park	BETTY SPEARS PLAYGROUND	828m	West
521655	Park	PRINCES STREET PLAYGROUND	831m	South West
521628	Locality	LITTLE GREECE	833m	East
514737	Park	PRINCES STREET PARK	841m	South West
490996	Retirement Village	PATRICK MINAHAN VILLAGE	849m	North East
514718	Community Facility	MARRICKVILLE YOUTH RESOURCE CENTRE	853m	North East
408967	Park	JARVIE PARK	855m	East
518405	Railway Station	DULWICH GROVE SLR STOP	856m	North West
408995	Place Of Worship	SALVATION ARMY CHURCH	857m	North West
408980	Community Facility	MARRICKVILLE DISTRICTS LAWN TENNIS CLUB	862m	North East
411702	Park	RICHARDS PARK	869m	South West
408988	Place Of Worship	SILVER STREET BAPTIST MISSION	876m	East
409000	Place Of Worship	UNITING CHURCH	882m	North West
408987	Park	O'HARA STREET PLAYGROUND	888m	South East

Map Id	Feature Type	Label	Distance	Direction
496165	High School	MARRICKVILLE HIGH SCHOOL	893m	North East
521641	Park	PARADE PLAYGROUND	898m	West
435431	Urban Place	THE WARREN	909m	South East
521470	Park	O'HARA STREET PLAYGROUND	909m	East
490895	Nursing Home	MAYBANKE AGED CARE PLUS CENTRE	912m	North
385815	Sports Court	TENNIS COURTS	919m	North East
408979	Post Office	MARRICKVILLE POST OFFICE	921m	East
479644	Urban Place	MARRICKVILLE SOUTH	940m	South
385773	Park	MARRICKVILLE PARK	947m	North East
408996	Community Facility	MARRICKVILLE CROQUET CLUB	948m	North East
408981	Sports Field	CROQUET GREEN	968m	North East

Topographic Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Topographic Features

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### 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					

Tanks Data Source: © Land and Property Information (2015)

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## 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
120114205	Primary	Undefined		304m	South
120112192	Primary	Undefined		785m	South West
120119818	Primary	Undefined		904m	East
120110296	Primary	Undefined		937m	North

Easements Data Source: © Land and Property Information (2015)

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# Topographic Features

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## State Forest

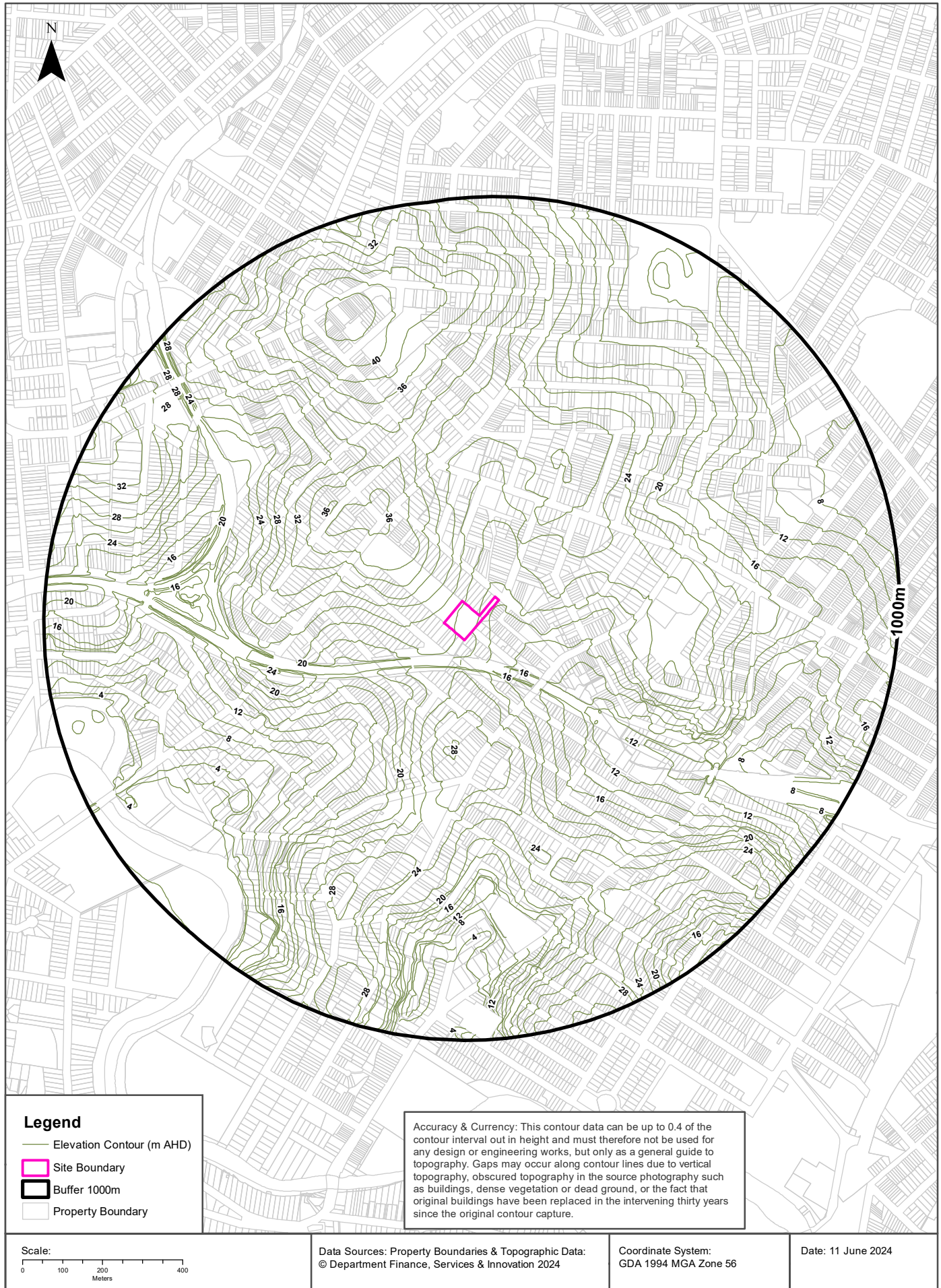
What State Forest exist within the dataset buffer?

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

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Elevation Contours (m AHD)

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Hydrogeology & Groundwater

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	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 2018

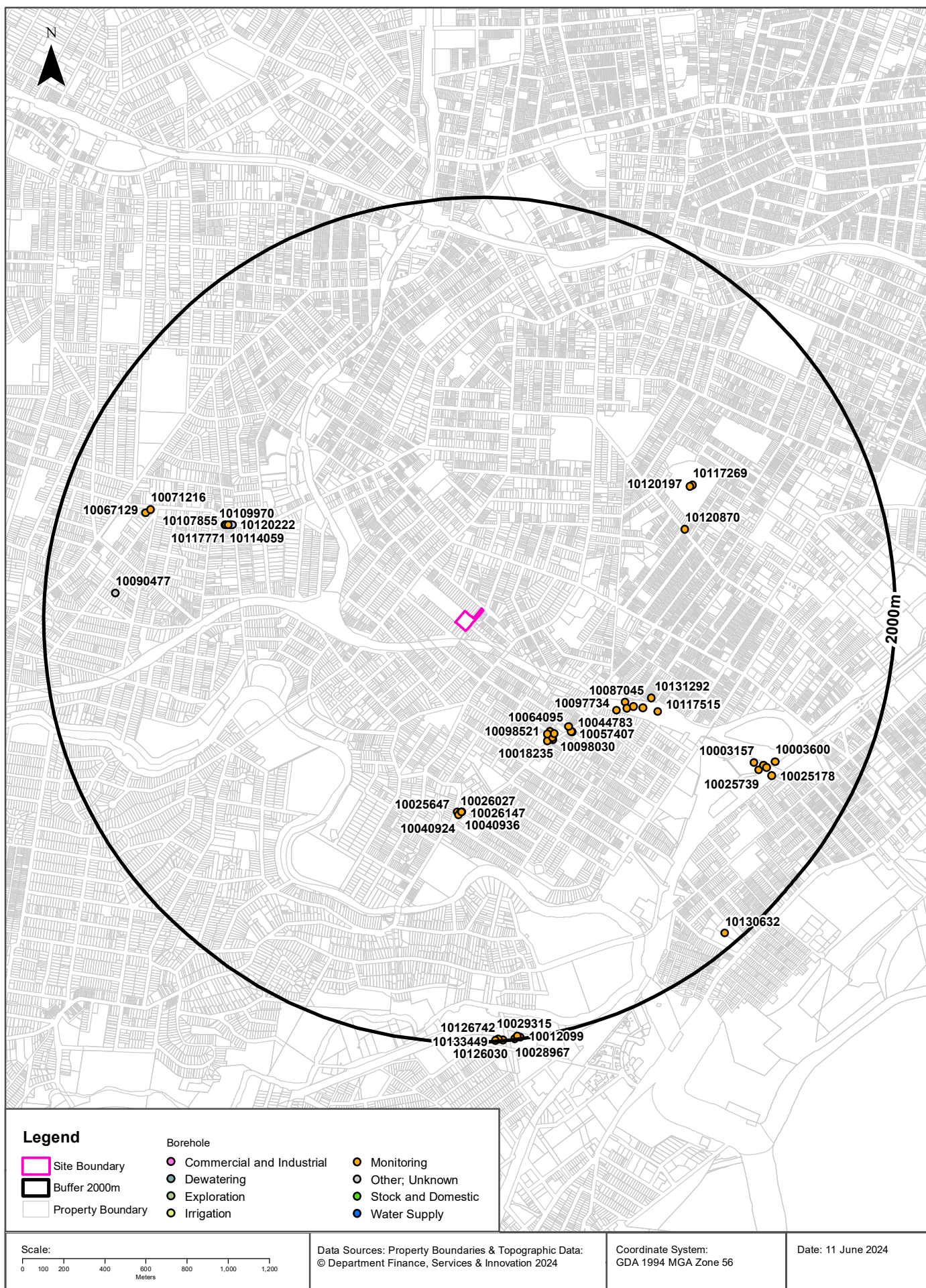
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

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

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

# Groundwater Boreholes

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Hydrogeology & Groundwater

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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
10084851	GW110013	Monitoring	Unknown	15/07/2005	5.00		AHD				639m	South East
10098521	GW110012	Monitoring	Unknown	18/09/2003	8.00		AHD				641m	South East
10118844	GW110014	Monitoring	Unknown	15/07/2005	7.00		AHD				661m	South East
10095173	GW110010	Monitoring	Unknown	18/09/2003	8.50		AHD				667m	South East
10018402	GW107406	Monitoring	Unknown	15/07/2005	5.00		AHD				670m	South East
10098030	GW110011	Monitoring	Unknown	18/09/2003	8.70		AHD				671m	South East
10018235	GW107407	Monitoring	Unknown	15/07/2005	7.00		AHD			6.00	679m	South East
10064095	GW112123	Monitoring	Functional	18/09/2003	8.50		AHD				685m	South East
10057407	GW112121	Monitoring	Functional	18/09/2003	8.00		AHD				708m	South East
10044783	GW112122	Monitoring	Functional	18/09/2003	8.70		AHD				713m	South East
10097734	GW110119	Monitoring	Unknown	16/01/2006	3.50		AHD			1.50	811m	South East
10087045	GW110120	Monitoring	Unknown	16/01/2006	6.00		AHD			3.00	822m	South East
10092543	GW110118	Monitoring	Unknown	16/01/2006	6.00		AHD			2.00	846m	South East
10088328	GW110121	Monitoring	Unknown	16/01/2006	3.50		AHD			3.00	867m	South East
10025647	GW111970	Monitoring	Functional	30/05/2012	4.00		AHD				881m	South
10026147	GW111972	Monitoring	Functional	31/05/2012	4.00		AHD				883m	South
10040936	GW111971	Monitoring	Functional	31/05/2012	4.00		AHD				883m	South
10026027	GW111973	Monitoring	Functional	11/02/2013	4.50		AHD				886m	South
10040924	GW111969	Monitoring	Functional	30/05/2012	4.50		AHD				897m	South
10098292	GW110122	Monitoring	Unknown	16/01/2006	3.50		AHD			2.50	910m	South East
10131292	GW114825	Monitoring	Functional	16/12/2014	4.99		AHD	379.4		2.71	922m	South East
10117515	GW114824	Monitoring	Functional	16/12/2014	4.59		AHD	226.4		2.57	982m	South East
10120870	GW111692	Monitoring	Functional	12/01/2012	1.30		AHD			0.50	1057m	North East
10120197	GW111686	Monitoring	Functional	12/01/2012	3.50		AHD			1.55	1171m	North East
10120222	GW115571	Unknown	Unknown				AHD				1181m	West
10117269	GW111687	Monitoring	Functional	12/01/2012	4.25		AHD			2.50	1186m	North East
10109970	GW115570	Unknown	Unknown				AHD				1190m	West
10117771	GW115569	Monitoring	Functional	11/02/2013	8.00		AHD				1197m	West
10114059	GW115567	Monitoring	Functional	11/02/2013	8.00		AHD				1207m	West

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
10107855	GW115572	Unknown	Unknown				AHD				1212m	West
10003157	GW115004	Monitoring	Functional	19/12/2011	6.00		AHD			4.00	1510m	South East
10025739	GW115003	Monitoring	Functional	19/12/2011	5.50		AHD			4.00	1548m	South East
10026448	GW115002	Monitoring	Functional	20/12/2011	5.50		AHD			4.00	1556m	South East
10033845	GW115001	Monitoring	Functional	20/12/2011	6.00		AHD			4.00	1575m	South East
10071216	GW114780	Monitoring	Functional	01/01/2010	7.00		AHD				1577m	West
10067129	GW114779	Monitoring	Functional	01/01/2010	6.00		AHD				1593m	West
10003600	GW115005	Monitoring	Functional	20/12/2011	6.00		AHD			4.00	1598m	South East
10025178	GW115000	Monitoring	Functional	20/12/2011	6.00		AHD				1616m	South East
10090477	GW102402	Unknown	Unknown	01/01/1996	90.00		AHD				1655m	West
10130632	GW112336	Monitoring	Functional	01/01/2009	10.40		AHD				1936m	South East
10029315	GW115016	Monitoring	Functional	03/06/2011	4.00		AHD				1986m	South
10126742	GW107755	Monitoring	Unknown	05/10/2005	4.80		AHD			1.80	1991m	South
10012099	GW115017	Monitoring	Functional	03/06/2011	4.00		AHD				1994m	South
10028967	GW115015	Monitoring	Functional	03/06/2011	4.00		AHD				1997m	South
10126030	GW107753	Monitoring	Unknown	04/10/2005	5.00		AHD			1.30	1997m	South
10133449	GW107756	Monitoring	Unknown	04/10/2005	5.00		AHD			1.90	1998m	South

Borehole Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Hydrogeology & Groundwater

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Driller's Logs

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

NGIS Bore ID	Drillers Log	Distance	Direction
10084851	0.00m-0.50m BITUMEN,CONCRETE,FILL,CLAY BROWN 0.50m-1.50m CLAY ORANGE BROWN,STIFF,FIRM,DAMP.LOW PLASTICITY,GRAVEL 1.50m-4.00m AS ABOVE,BROWN,SOME SILT,CLAY 4.00m-5.00m AS ABOVE,MOIST	639m	South East
10098521	0.00m-1.50m ASPHALT,GRAVELSAND L/BROWN, SANDY CLAY 1.50m-8.00m SANDSTONE,BROWN ORANGE TO LIGHT GREY	641m	South East
10118844	0.00m-1.50m BITUMEN,CONCRETE,FILL,CLAY,GRAVEL 1.50m-3.00m WEATHERED SANDSTONE,SOME SILT 3.00m-4.00m IRONSTONE BANDS 4.00m-6.00m WEATHERED SANDSTONE.GRAVEL AND SILT 6.00m-7.00m AS ABOVE,WET	661m	South East
10095173	0.00m-0.10m ASPHALT,ROAD SURFACE 0.10m-0.20m GRAVEL 0.20m-0.30m CLAY BROWN 0.30m-1.00m CLAY BROWN ORANGE 1.00m-7.50m SANDSTONE BROWN ORANGE 7.50m-7.60m CLAY SANDY BROWN ORANGE 7.60m-8.50m SANDSTONE LIGHT BROWN	667m	South East
10018402	0.00m-1.50m CLAY,ORANGE BROWN 1.50m-4.00m WEATHERED SANDSTONE 4.00m-5.00m WEATHERED SANDSTONE,MOIST	670m	South East
10098030	0.00m-1.00m ASPHALT,GRAVEL,SAND, 1.00m-8.70m SANDSTONE,MAROON TO LIGHT BROWN,SANDY CLAY	671m	South East
10018235	0.00m-1.50m CLAY,ORANGE,L/BROWN 1.50m-7.00m WEATHERED SANDSTONE,SOME SILT	679m	South East
10097734	0.00m-3.50m CLAY	811m	South East
10087045	0.00m-6.00m CLAY	822m	South East
10092543	0.00m-6.00m CLAY	846m	South East
10088328	0.00m-3.50m CLAY	867m	South East
10025647	0.00m-0.10m FILL,BRICK 0.10m-0.15m FILL,SAND 0.15m-0.50m SANDY CLAY 0.50m-1.00m SANDY CLAY BROWN WHITE 1.00m-1.50m SANDY CLAY DARK BROWN 1.50m-4.00m CLAYEY SAND,COARSE GRAINED	881m	South
10026147	0.00m-0.10m FILL,BRICK 0.10m-0.15m FILL,ROADBASE 0.15m-0.30m FILL,SANDY CLAY 0.30m-0.40m CONCRETE 0.40m-0.50m CLAYEY SAND,FINE GRAINED 0.50m-1.00m CLAYEY SAND,SOME PLASTICITY CLAY 1.00m-4.00m SANDY CLAY,M/PASTICITY,BLACK	883m	South
10040936	0.00m-0.10m FILL,BRICK 0.10m-0.15m FILL,SAND,LIGHT BROWN 0.15m-0.50m SANDY CLAY 0.50m-1.00m SANDY CLAY,HIGH PLASTICITY,BLACK 1.00m-4.00m SANDY CLAY M/PLASTICITY,LIGHT BROWN	883m	South
10026027	0.00m-0.10m FILL,BRICK 0.10m-0.15m FILL,ROADBASE 0.15m-0.50m FILL,CLAYEY SAND 0.50m-1.00m FILL, SANDY CLAY 1.00m-1.30m FILL CLAYEY SAND 1.30m-1.40m FILL,CLAYEY SAND FINE TO COARSE GRAINED 1.40m-4.50m CLAYEY SAND,BROWN,SOME PLASTICITY	886m	South
10040924	0.00m-0.50m SAND COARSE GRAINED 0.50m-1.00m SAND VERY COARSE,GRAINED 1.00m-1.50m CLAY M/PLASTICITY,BLACK 1.50m-4.50m CLAYEY SAND,COARSE GRAINED	897m	South
10098292	0.00m-3.50m CLAY	910m	South East

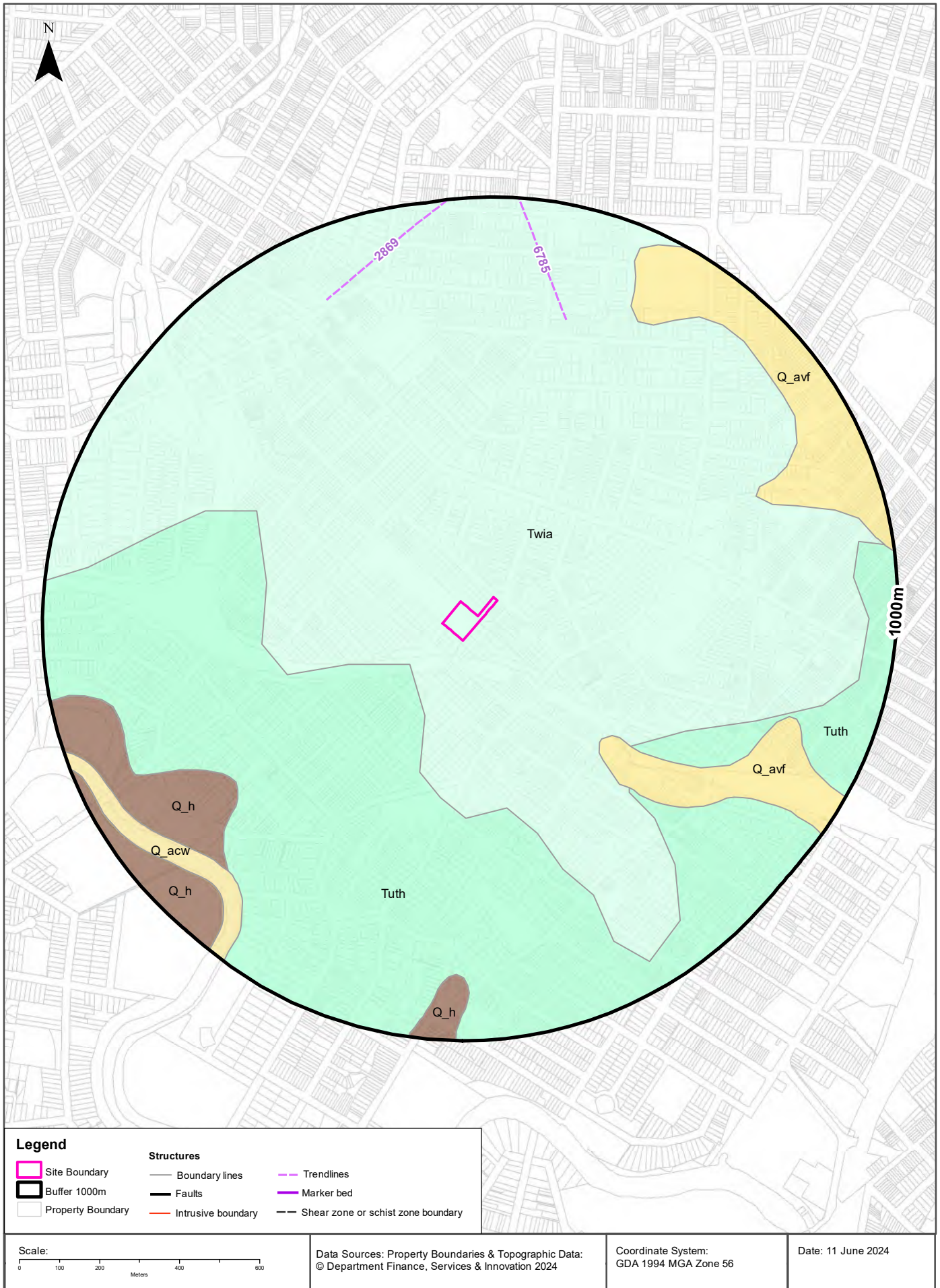
NGIS Bore ID	Drillers Log	Distance	Direction
10131292	0.00m-0.25m FILL SANDY SILT 0.25m-0.60m FILL,SAND BROWN MOIST 0.60m-1.00m FILL CLAY DARK BROWN 1.00m-2.00m CLAY BROWN MOIST MED.STIFF 2.00m-2.40m WATER STRIKE AT2.0 m 2.40m-3.60m SAND LIGHT BROWN 3.60m-4.59m CLAY GREY BROWN,WET	922m	South East
10117515	0.00m-0.30m FILL SANDY SILT 0.30m-0.50m FILL SANDY CLAY 0.50m-0.70m NATURAL SILTY CLAY 0.70m-1.40m CLAY BROWN ORANGE 1.40m-2.70m CLAY GREY MOIST 2.70m-3.90m SAND GREY SATURATED MEDIUM GRAIN 3.90m-4.99m REFUSAL WITH PUSHTUBE AT3.9	982m	South East
10120870	0.00m-0.20m TOPSOIL BROWN SOFT 0.20m-0.60m CLAY BTOWN LOOSE WET 0.60m-1.30m CLAY SOFT VERY WET	1057m	North East
10120197	0.00m-0.40m FILL,CLAY BANDS,BROWN 0.40m-1.20m SILTY CLAY,BEIGE,HIGH PLASTICITY,FIRM 1.20m-2.50m SILTY CLAY,BEIGE,SOFT,H/PLASTICITY 2.50m-3.50m CLAY GREY,FIRM,DRY	1171m	North East
10117269	0.00m-1.90m FILL, SANDY GRAVEL DARK,SOFT 1.90m-2.70m SILTY CLAY,RED/ORANGE,STIFF 2.70m-3.00m SILTY CLAY,RED,ORANGE,SOFT 3.00m-4.25m SILTY CLAY BEIGE,VERY MOIST,SOFT	1186m	North East
10003157	0.00m-1.50m SANDY FILL COARSE GRAINED,MAJOR GRAVELS,CONCRETE 1.50m-2.00m SANDY FILL BROWN, GRAVELS AND SANDSTONE 2.00m-4.20m CLAY WITH ROCK,GREY BLACK,SAND 4.20m-5.20m SAND WITH ROCK DARK BROWN,CLAY 5.20m-6.00m CLAY GREY SOFT,WET	1510m	South East
10025739	0.00m-1.00m CLAYEY SAND FILL,GREY AND ORANGE 1.00m-3.00m SANDY FILL BROWN,MED TO COARSE GRAINED 3.00m-4.20m SANDY CLAY GREY MOIST TO WET 4.20m-5.50m CLAY GREY WET	1548m	South East
10026448	0.00m-1.00m FILL, SANDY CLAY,GREY,MAJOR GRAVELS 1.00m-2.80m CLAYEY SANDY FILL,BROWN AND GREY 2.80m-4.20m SANDY CLAY ,GREY,MOIST TO WET 4.20m-5.50m CLAY GREY,WET,SOFT	1556m	South East
10033845	0.00m-0.70m FILL, SAND FILL,BROWN,GRAVELS,SANDSTONE 0.70m-3.00m FILL, SANDY CLAY,MIXED GRAVEL 3.00m-4.20m SANDY CLAY 4.20m-6.00m SANDY CLAY GREY SOFT,LOW PLASTICITY	1575m	South East
10003600	0.00m-1.00m CLAY SAND FILL,MIXED GRAVEL INCLUSIONS. 1.00m-2.20m SANDY CLAY,SANDSTONE 2.20m-4.20m CLAYEY SAND DARK BROWN 4.20m-6.00m CLAY,GREY AND DARK BROWN	1598m	South East
10025178	0.00m-0.30m FILL, GRAVELLY SAND DARK BROWN 0.30m-1.50m SANDY FILL. DARL GREY AND BLACK 1.50m-2.30m SANDY FILL, MOIST, GRAVELS 2.30m-2.60m CLAY ORANGE, TRACE RED FIRM 2.60m-6.00m SANDY CLAY GREY FIRM TO SOFT,MOIST	1616m	South East
10130632	0.00m-0.20m CONCRETE 0.20m-0.70m FILL 0.70m-10.40m SANDSTONE	1936m	South East
10029315	0.00m-0.20m CONCRETE SLAB 0.20m-0.60m GRAVELLY SAND BROWN. MINOR CLAY 0.60m-1.50m GRAVEL/COBBLE.BROKEN CONCRETE 1.50m-2.00m SAND GREY BROWN WET 2.00m-2.60m SANDY CLAY BROWN/GREY WET 2.60m-2.80m SAND LIGHT GREY 2.80m-3.30m CLAY YELLOW ORANGE 3.30m-4.00m CLAY DENSE.RED/BROWN	1986m	South
10126742	0.00m-1.80m FILL,SAND,GRAVEL,CLAY &BRICKS 1.80m-2.10m CLAY DARK GREY/SAND 2.10m-3.30m CLAY BROWN,SOME FINE SAND 3.30m-4.80m CLAY GREY AND RED	1991m	South
10012099	0.00m-0.40m FILL, TOPSOIL BROWN SAND,SOME GRAVEL 0.40m-0.60m SAND YELLOW,MOIST BROKEN BRICK/GRAVEL 0.60m-0.80m FILL BROWN SAND SOME GRAVEL 0.80m-1.00m FILL SAND GRAVEL,COARSE 1.00m-1.40m FILL CORE LOSS.RECOVERED SAMPLE SAND BROWN WET 1.40m-2.00m SAND COARSE GREY YELLOW WET 2.00m-2.40m CLAY GREY WET VERY PLASTIC 2.40m-2.70m SAND GREY COARSE 2.70m-3.50m CLAY YELLOW GREY WET,DENSE 3.50m-4.00m SAND GREY COARSE,WET NOT PLASTIC	1994m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10028967	0.00m-0.10m CONCRETE SLAB 0.10m-0.40m FILL, DARK BROWN SAND,SOME CLAY/GRAVEL 0.40m-0.70m SAND / CLAY / GRAVEL 0.70m-1.00m SAND DARK BROWN,SOME GRAVEL 1.00m-1.30m CLAY YELLOW RED BROWN 1.30m-1.50m BROWN SANDY CLAY MATERIAL 1.50m-2.00m SAND GREY WET,LOOSE 2.00m-2.80m SAND, GREY MINOR CLAY,WET,LOOSE 2.80m-3.50m CLAY MOTTLED RED 3.50m-3.60m SANDY CLAY,GREY 3.60m-4.00m CLAY GREY , DENSE. PLASTIC	1997m	South
10126030	0.00m-1.30m FILL,SAND ASH,GRAVEL AND CLAY 1.30m-3.50m SANDY CLAY GREY &SAND LENSES 3.50m-3.80m CLAY BROWN 3.80m-4.90m SANDY CLAY,GREY,& LENSES 4.90m-6.00m SAND,LIGHT,GREY,M/GRAIN	1997m	South
10133449	0.00m-1.40m FILL,GRAVEL,SND,COAL SILT 1.40m-3.20m SANDY CLAY,GREY AND RED 3.20m-5.00m CLAY RED,BROWN,SOME GREY	1998m	South

Drill Log Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Geology

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Geology

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Twia	Ashfield Shale	Black to light grey shale and laminite.	\Wianamatta Group\ \Ashfield Shale\ \	Middle Triassic (base) to Middle Triassic (top)	Shale	0m
Tuth	Hawkesbury Sandstone	Medium- to coarse-grained quartz sandstone with minor shale and laminite lenses.	\Ungrouped Triassic units\ \Hawkesbury Sandstone\ \	Anisian (base) to Anisian (top)	Sandstone	132m
Q_avf	Alluvial fan deposits	Fluvially-deposited quartz-lithic sand, silt, gravel, clay.	\Alluvium\ \Alluvial valley deposits\ \Alluvial fan deposits\ \	Quaternary (base) to Now (top)	Clastic sediment	424m
Q_h	Anthropogenic deposits	Anthropocene deposits varying from large man-made clasts (concrete blocks to building demolition rubble) to quarried natural boulders, with interstitial sand-sized to clay matrix.	\Anthropogenic deposits\ \\ \	Quaternary (base) to Now (top)	Anthropogenic material	651m
Q_acw	Alluvial channel deposits - subaqueous	Fluvially deposited sand, gravel, silt, clay.	\Alluvium\ \Alluvial channel deposits\ \Alluvial channel deposits - subaqueous\ \	Quaternary (base) to Now (top)	Clastic sediment	819m

## Linear Geological Structures

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

Map ID	Feature Description	Map Sheet Name	Distance
6785	Dyke or vein	Sydney 1:100,000 Geological Sheet	716m
2869	Dyke or vein	Sydney 1:100,000 Geological Sheet	825m

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

Map ID	Boundary Type	Description	Map Sheet Name	Distance
No Features				

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW  
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# Naturally Occurring Asbestos Potential

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Naturally Occurring Asbestos Potential

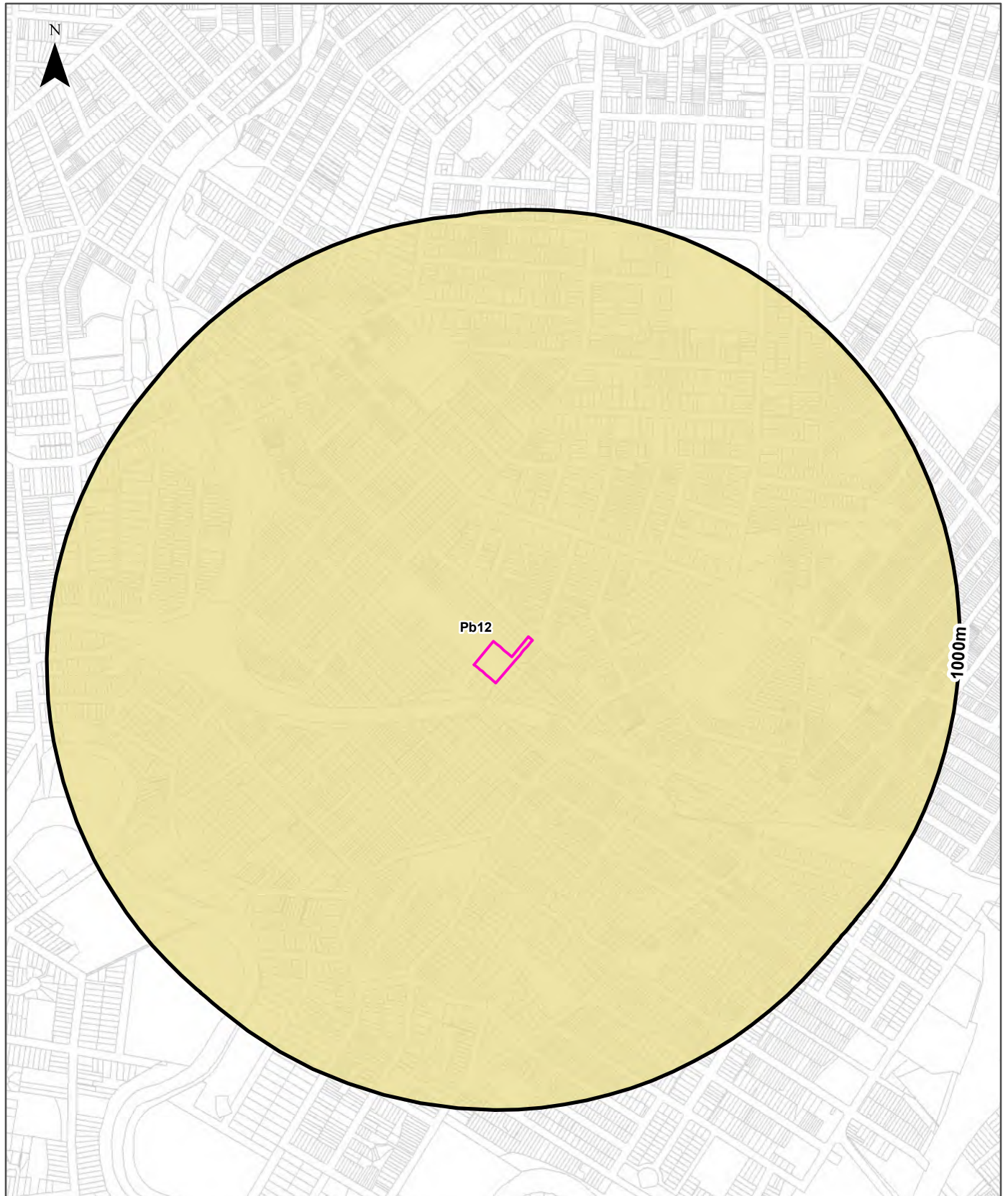
Naturally Occurring Asbestos Potential within the dataset buffer:

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: © State of New South Wales through NSW Department of Industry, Resources & Energy

# Atlas of Australian Soils

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



<b>Legend</b>		<b>Australian Soil Classification Orders</b>				
Site Boundary	Anthrosol	Dermosol	Kandosol	Podosol	Tenosol	No Data
Buffer 1000m	Calcarosol	Ferrosol	Kurosol	Rudosol	Vertosol	
Property Boundary	Chromosol	Hydrosol	Organosol	Sodosol	Lake	
<b>Scale:</b> 		Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2024		Coordinate System: GDA 1994 MGA Zone 56		Date: 11 June 2024

# Soils

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Atlas of Australian Soils

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

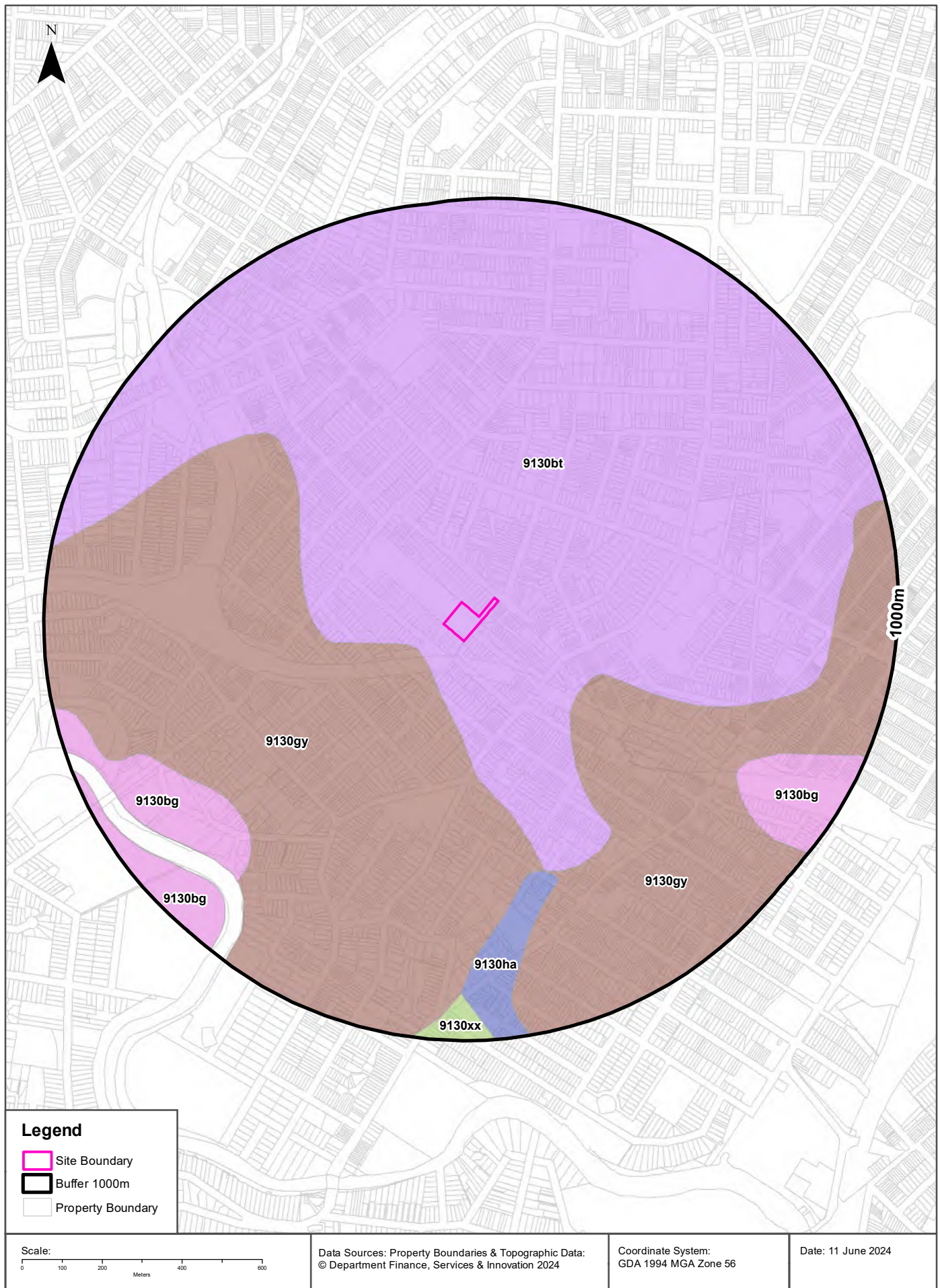
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Pb12	Kurosol	Gently rolling to rounded hilly country with some steep slopes and broad valleys: chief soils are hard acidic red soils (Dr2.21) with hard neutral and acidic yellow mottled soils (Dy3.42 and Dy3.41) on lower slopes and in valleys. Associated are small areas of various soils including (Gn3.54) on some ridges, (Dr3.31) on some slopes; (Dr2.23) in saddles and some mid-slope positions, and some low-lying swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Small areas of other soils such as (Db1.2) are likely throughout.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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# Soil Landscapes of Central and Eastern NSW

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## Soils

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### Soil Landscapes of Central and Eastern NSW

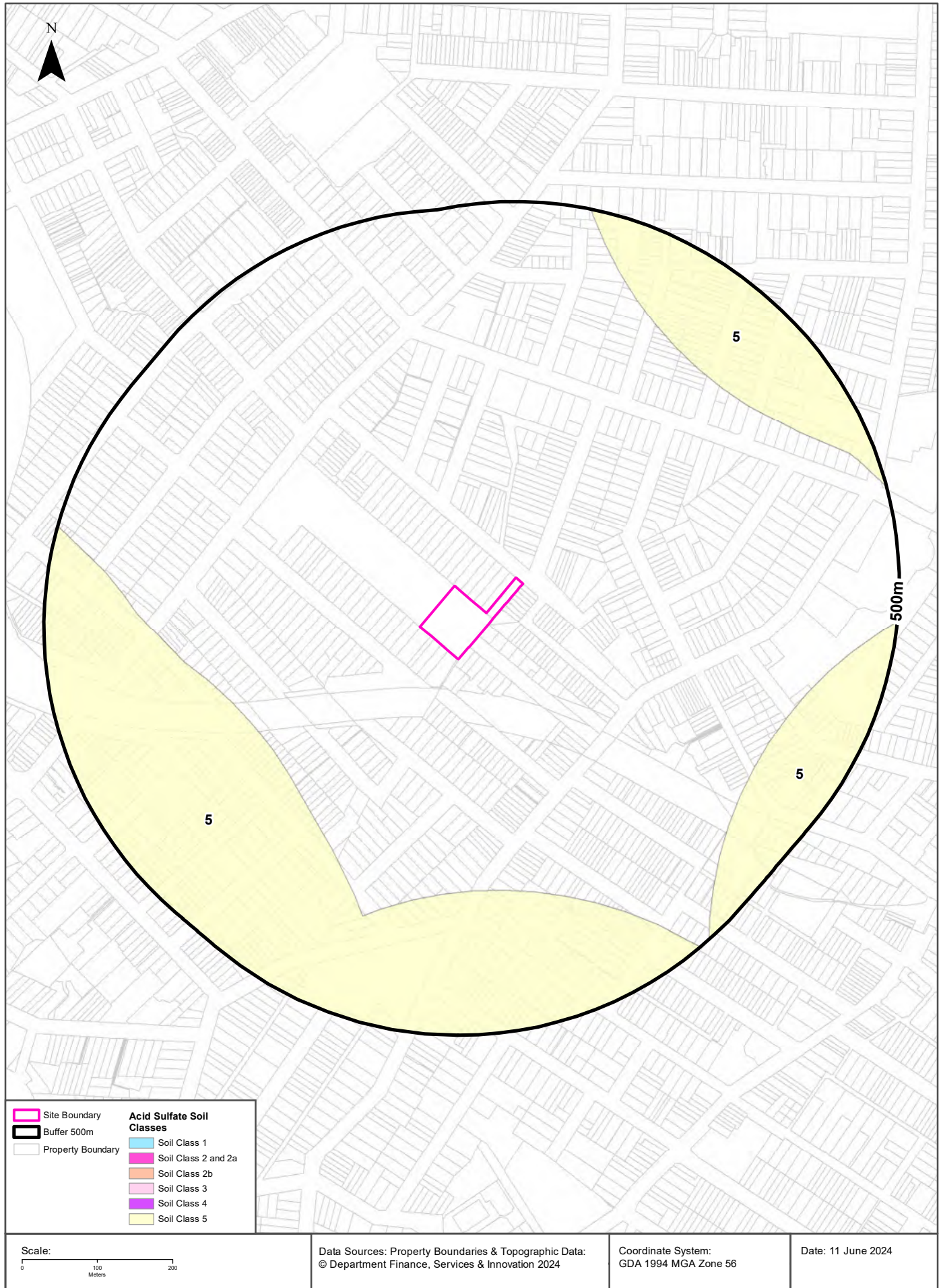
Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
<a href="#">9130bt</a>	Blacktown	0m	On-site
<a href="#">9130gy</a>	Gymea	92m	South West
<a href="#">9130ha</a>	Hawkesbury	602m	South
<a href="#">9130bg</a>	Birrong	696m	South West
<a href="#">9130xx</a>	Disturbed Terrain	881m	South

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment  
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# Acid Sulfate Soils

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Acid Sulfate Soils

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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		

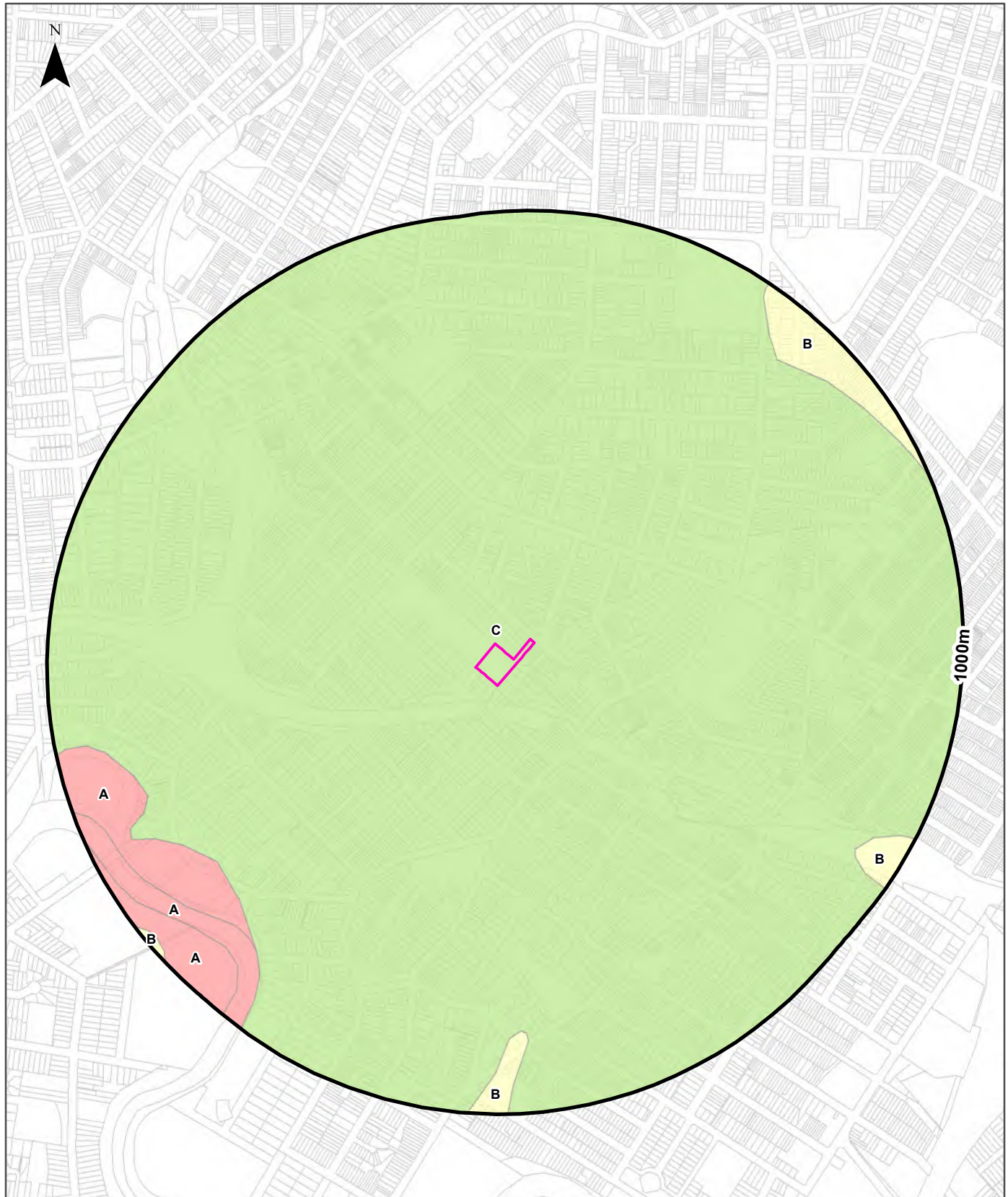
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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# Atlas of Australian Acid Sulfate Soils

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



<b>Legend</b>		<b>Probability of occurrence of Acid Sulfate Soils</b>	
Site Boundary	A. High (>70%)	C. Extremely Low (1-5%)	No Data
Buffer 1000m	B. Low (6-70%)	D. No Chance (0%)	
Property Boundary			
<b>Scale:</b> 0 100 200 400 600 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2024	Coordinate System: GDA 1994 MGA Zone 56	Date: 11 June 2024

## Acid Sulfate Soils

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### 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
A	High Probability of occurrence. >70% chance of occurrence.	755m	South West
B	Low Probability of occurrence. 6-70% chance of occurrence.	807m	South

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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# Dryland Salinity

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Mining Subsidence Districts

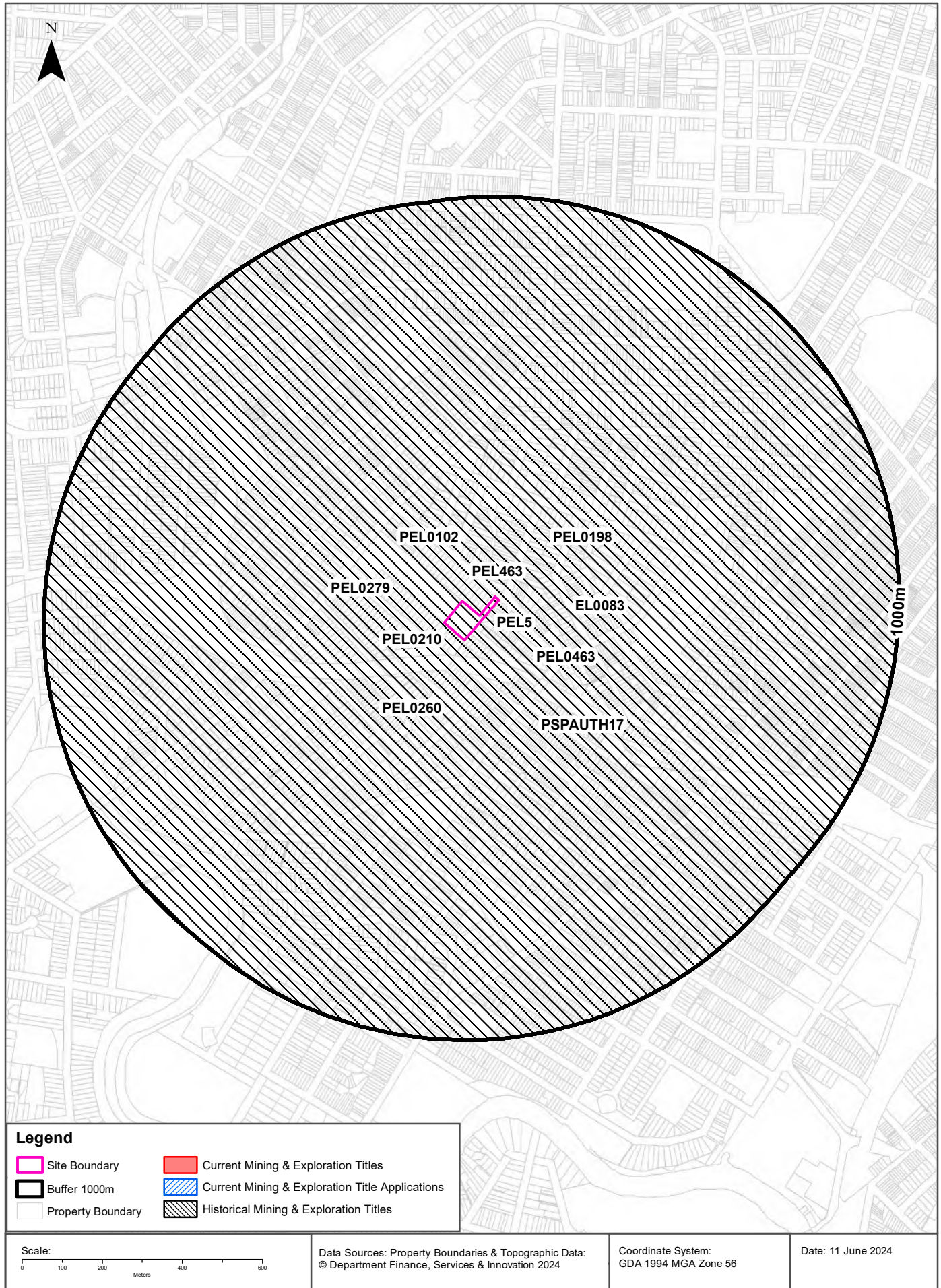
Mining Subsidence Districts within the dataset buffer:

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

Mining Subsidence District Data Source: © Land and Property Information (2016)  
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# Mining & Exploration Titles

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Mining

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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: © State of New South Wales through NSW Department of Industry

## 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: © State of New South Wales through NSW Department of Industry

# Mining

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL0198	JOHN STREVENS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	20070803	20080703	PETROLEUM	Petroleum	0m	On-site
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	19670201	19680201	MINERALS		0m	On-site
PEL463	DART ENERGY (APOLLO) PTY LTD	20081022	20130227	MINERALS		0m	On-site
PEL5	AGL UPSTREAM INVESTMENTS PTY LIMITED	19931111	20011210	MINERALS		0m	On-site
PEL0463	DART ENERGY (APOLLO) PTY LTD	20091010	20150603	PETROLEUM	Petroleum	0m	On-site
PEL0279	THE ELECTRICITY COMMISSION OF NSW (TRADING AS PACIFIC POWER)	19910504	19931111	PETROLEUM	Petroleum	0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	19810909	19930803	PETROLEUM	Petroleum	0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

# State Environmental Planning Policy

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## State Significant Precincts

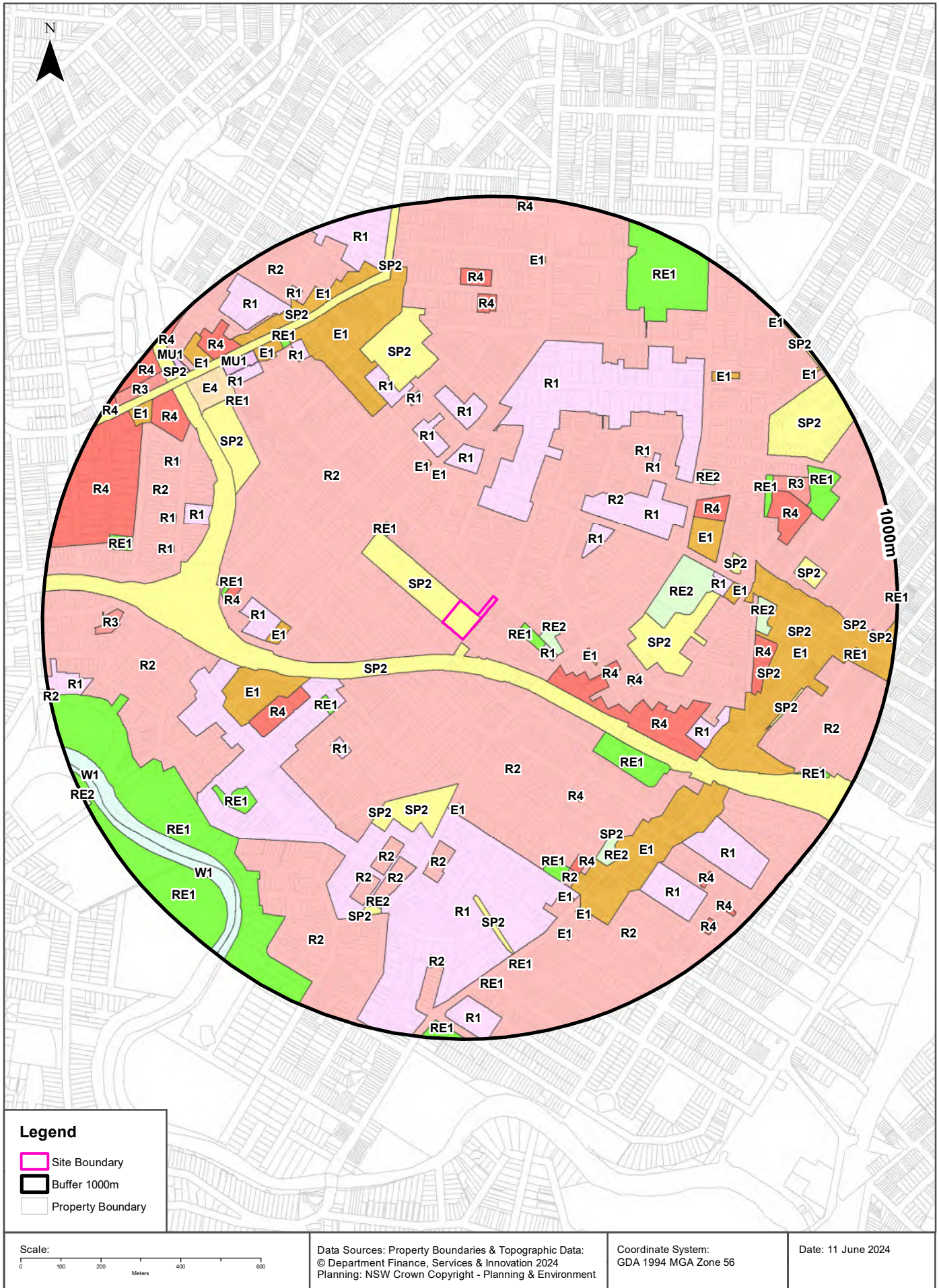
What SEPP State Significant Precincts exist within the dataset buffer?

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

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment  
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# EPI Planning Zones

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



# Environmental Planning Instrument

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## 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
SP2	Infrastructure	Educational Establishments	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	0m	On-site
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	0m	On-site
SP2	Infrastructure	Rail Infrastructure Facilities	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	9m	South West
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	82m	South
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	88m	East
RE2	Private Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	138m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	163m	South East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	203m	North East
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	226m	South East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	235m	North East
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	246m	North West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	255m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	294m	South
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	306m	North East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	309m	North
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	310m	North
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	316m	East
SP2	Infrastructure	Educational Establishments	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	334m	East
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	337m	North
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	339m	South West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	357m	West
SP2	Infrastructure	Educational Establishments	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	360m	South
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	364m	North
RE2	Private Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	370m	East
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	379m	West
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	380m	North East
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	380m	South West
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	382m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	387m	South West
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	403m	West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	409m	South
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	419m	South East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	421m	North
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	462m	South East
SP2	Infrastructure	Electricity Transmission and Distribution	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	476m	South West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	492m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	499m	North East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	504m	North
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	506m	South
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	509m	North East
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	510m	West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	512m	North
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	515m	North
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	523m	South

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	531m	West
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	532m	North East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	536m	East
SP2	Infrastructure	Educational Establishments	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	545m	North
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	562m	West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	563m	East
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	565m	South
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	579m	South East
RE2	Private Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	584m	North East
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	584m	South
SP2	Infrastructure	Emergency Services Facilities	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	586m	East
SP2	Infrastructure	Educational Establishments	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	605m	North West
SP2	Infrastructure	Electricity Transmission and Distribution	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	608m	South East
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	610m	South East
RE2	Private Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	612m	South East
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	614m	South
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	615m	East
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	627m	South
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	630m	South East
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	631m	South
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	633m	West
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	640m	South West
SP2	Infrastructure	Sewerage System	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	640m	South
RE2	Private Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	649m	East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	651m	East
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	674m	South
RE2	Private Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	682m	South
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	696m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	696m	West
SP2	Infrastructure	Local Road	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	701m	East
SP2	Infrastructure	Telecommunications Facilities	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	702m	South
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	704m	East
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	710m	North
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	713m	West
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	718m	North West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	730m	South
R3	Medium Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	739m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	740m	South East
SP2	Infrastructure	Emergency Services Facilities	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	742m	East
SP2	Infrastructure	Local Road	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	743m	East
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	743m	South West
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	744m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	745m	South East
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	746m	North West
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	749m	North East
SP2	Infrastructure	Local Road	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	751m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	755m	North West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	759m	South

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E4	General Industrial		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	764m	North West
SP2	Infrastructure	Educational Establishments	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	765m	North East
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	766m	North West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	766m	North East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	767m	North West
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	771m	North West
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	776m	North
MU1	Mixed Use		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	783m	North West
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	792m	North West
SP2	Infrastructure	Classified Road	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	792m	North West
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	793m	South
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	798m	West
R3	Medium Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	799m	West
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	803m	West
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	807m	East
SP2	Infrastructure	Road and Traffic Facilities	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	812m	North West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	812m	North West
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	812m	South
W1	Natural Waterways		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	819m	South West
W1	Natural Waterways		Canterbury-Bankstown Local Environmental Plan 2023	23/06/2023	23/06/2023	28/07/2023		830m	South West
R2	Low Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	839m	North West
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	840m	North West
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	840m	North West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	842m	North

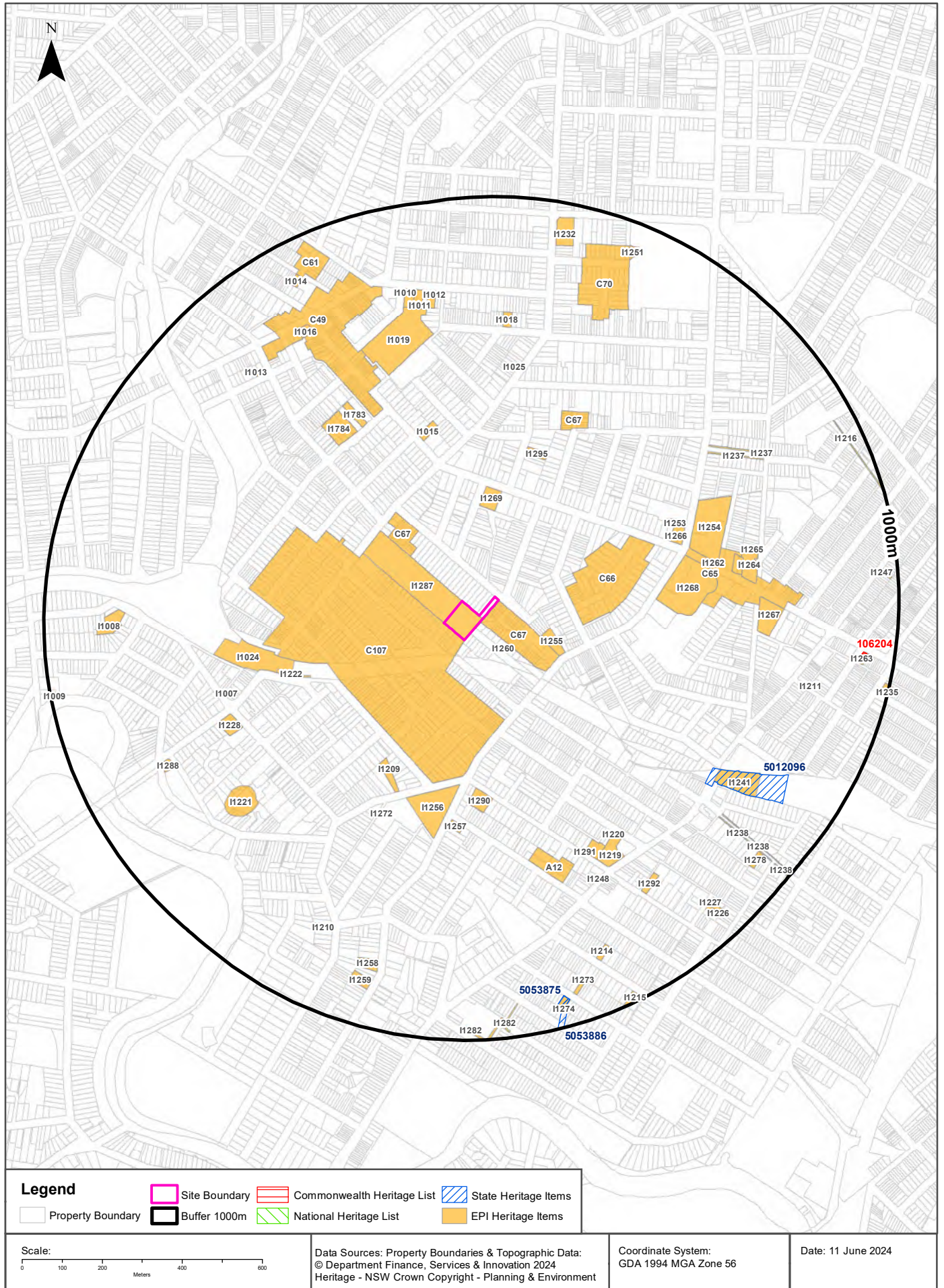
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	845m	South East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	847m	North
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	849m	South
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	856m	North West
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	860m	South East
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	862m	North West
RE1	Public Recreation		Canterbury-Bankstown Local Environmental Plan 2023	23/06/2023	23/06/2023	28/07/2023		866m	South West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	885m	North West
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	885m	West
MU1	Mixed Use		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	887m	North West
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	889m	East
R1	General Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	891m	South
SP2	Infrastructure	Local Road	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	893m	East
SP2	Infrastructure	Rail Infrastructure Facilities	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	899m	North West
R3	Medium Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	913m	North West
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	926m	South East
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	927m	South East
SP2	Infrastructure	Local Road	Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	934m	East
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	941m	North West
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	960m	North East
E1	Local Centre		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	973m	North East
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	974m	North
R4	High Density Residential		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	982m	North West
RE2	Private Recreation		Canterbury-Bankstown Local Environmental Plan 2023	23/06/2023	23/06/2023	28/07/2023		987m	South West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Inner West Local Environmental Plan 2022	28/04/2023	28/04/2023	05/05/2023	Map Amendment No 1	998m	East

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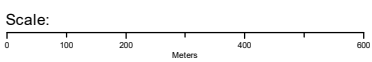
# Heritage Items

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



## Legend

- Property Boundary
- Site Boundary
- Commonwealth Heritage List
- State Heritage Items
- National Heritage List
- EPI Heritage Items
- Buffer 1000m



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

Coordinate System:  
 GDA 1994 MGA Zone 56

Date: 11 June 2024

## Heritage

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### 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
106204	Marrickville Post Office	274A Marrickville Rd, Marrickville NSW	1/12/025/0027	Historic	Listed place	22/08/2012	916m	East

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch  
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### 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  
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### 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
5012096	Marrickville Railway Station group	Bankstown railway, Marrickville	INNER WEST	02/04/1999	01186	2389	680m	South East
5053875	Sewer Vent and Cottages	24, 26 Premier Street Marrickville	INNER WEST	15/11/2002	01636	2050	922m	South
5053886	Western Outfall Main Sewer (Rockdale to Homesbush)	Valda Avenue (off south side of Kogarah Golf Course) Arncliffe	BAYSIDE	15/11/2002	01647	2060	922m	South

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage  
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## 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
I1287	Maronite Sisters Convent and High School (former Carmelite Convent), including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	0m	On-site
C107	South Dulwich Hill Heritage Conservation Area	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	0m	West
C67	Inter-War Group Heritage Conservation Area Hollands Avenue; Jocelyn Avenue and Woodbury Street	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	0m	East
I1260	Electricity substation No 154 (whole site)	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	82m	South East
I1255	St Nicholas Greek Orthodox Church, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	138m	East
C66	David Street Heritage Conservation Area	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	168m	East
C67	Inter-War Group Heritage Conservation Area Hollands Avenue; Jocelyn Avenue and Woodbury Street	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	173m	North West
I1269	Federation Arts and Crafts style mansion Parklands, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	216m	North
I1209	Federation Queen Anne style house The Glen	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	353m	South West
I1222	Turpentine - Ironbark Forest Understory	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	360m	West
I1256	Marrickville West Public School, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	360m	South
I1295	Victorian villa Colchester, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	364m	North East
I1290	Group of 3 Victorian filigree style villas, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	369m	South
I1024	Dulwich Hill Railway Station Group, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	387m	West
C65	Civic Precinct Heritage Conservation Area	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	392m	East
I1268	St Brigid's Church, Hall, Monastery, Shrine and Grounds, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	392m	East
I1015	Victorian italianate style villa Allerton, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	412m	North
I1257	Victorian filigree style villa, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	448m	South

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
C67	Inter-War Group Heritage Conservation AreaHollands Avenue; Jocelyn Avenue and Woodbury Street	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	448m	North East
I1266	Edwardian HouseMontrose, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	451m	East
I1253	Federation Queen Anne mansionand coach housePenston Hall, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	460m	North East
I1272	Electricity substation No 283 (whole site)	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	476m	South West
I1254	Former Marrickville Hospital site and Victorian cottage, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	493m	East
I1784	Houses - group of four	Item - General	Local	Inner West Local Environmental Plan 2022	16/02/2024	16/02/2024	16/02/2024	496m	North West
I1783	Dulwich Hill Baptist Church	Item - General	Local	Inner West Local Environmental Plan 2022	16/02/2024	16/02/2024	16/02/2024	501m	North West
C49	Dulwich Hill Commercial Precinct Heritage Conservation Area	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	512m	North West
I1262	Letter Box	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	544m	East
A12	Harnleigh Archaeological site	Item - Archaeological	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	548m	South
I1007	Electricity substation No 238 (building only)	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	565m	West
I1228	Group of 3 inter-war Georgian Revival style residential flat buildings Rothesay (No 66), Windsor (No 68) and Warwick (No 70), including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	567m	South West
I1025	Electricity substation No 169 (whole site)	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	571m	North
I1265	Marrickville Fire Station, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	586m	East
I1291	Pair of Victorian villas, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	591m	South East
I1019	Dulwich Hill High School, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	594m	North
I1264	Marrickville Town Hall, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	608m	East
I1220	Electricity substation No 221 (whole site)	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	608m	South East
I1219	Roseby Memorial Church, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	612m	South East
I1221	Dibble Avenue Waterhole	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	634m	South West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1237	Brick footpath paving and Canary Island palms	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	637m	North East
I1237	Brick footpath paving and Canary Island palms	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	649m	North East
I1267	St Clement's Church, Hall and Rectory, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	649m	East
I1018	Victorian italianate style villaMalvern, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	674m	North
I1248	Red pillar post box	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	682m	South East
I1241	Marrickville Railway Station group, including interiors	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	694m	South East
C70	Porters Brickworks Estate Heritage Conservation Area	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	732m	North
I1012	Victorian filigree style villaFairview, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	736m	North
I1011	The Rectory, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	739m	North
I1010	Holy Trinity Church of England, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	744m	North
I1292	Victorian Italianate style villa, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	747m	South East
I1013	Electricity substation No 96 (whole site)	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	759m	North West
I1288	Victorian cottage, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	762m	South West
I1016	Gladstone Hotel, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	767m	North West
I1238	Stonewalling, terracing and street planting	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	768m	South East
I1238	Stonewalling, terracing and street planting	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	771m	South East
I1210	Victorian filigree style houseHeatherbrae, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	785m	South West
I1008	Gladstone Hall, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	799m	West
I1211	Electricity substation No 151 (whole site)	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	803m	East
I1258	Edwardian villaLaurel-Bank, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	826m	South
I1214	Pair of Victorian period semi-detached houses "Waratah" (No. 17) and "Essendene/Elmside" (No. 19)	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	835m	South
I1259	Spanish Mission style house, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	870m	South

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
C61	Lewisham Estate Heritage Conservation Area	Conservation Area - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	883m	North West
I1014	Memorial Boy Scout headquarters, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	887m	North West
I1232	Booth House, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	892m	North
I1227	Stone house, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	895m	South East
I1273	Victorian filigree style free-standing villa	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	895m	South
I1226	Victorian style cottage, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	898m	South East
I1278	Sandstone stonemasons cottages, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	899m	South East
I1251	Federation house, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	906m	North East
I1263	Former Marrickville Post Office, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	908m	East
I1282	Quarry and stone-walling	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	917m	South
I1274	Sewer ventilation stack and two adjoining Federation cottages, including interiors	Item - General	State	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	922m	South
I1282	Quarry and stone-walling	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	946m	South
I1216	Brick drain	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	946m	North East
I1238	Stonewalling, terracing and street planting	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	950m	South East
I1247	Victorian style house, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	955m	East
I1215	Victorian villa, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	971m	South East
I1235	Former Marrickville Police Station, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	980m	East
I1009	Federation Arts and Crafts style houseLeonardi, including interiors	Item - General	Local	Inner West Local Environmental Plan 2022	12/08/2022	12/08/2022	16/02/2024	986m	West

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## Natural Hazards

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### 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		

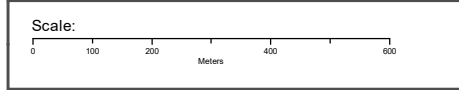
NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

# Ecological Constraints - Vegetation & Ramsar Wetlands

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204



Site Boundary	Dry Sclerophyll Forests (Shrub/grass sub-formation)	Semi-arid Woodlands (Grassy sub-formation)
Report Buffer	Dry Sclerophyll Forests (Shrubby sub-formation)	Semi-arid Woodlands (Shrubby sub-formation)
Property Boundary	Forested Wetlands	Wet Sclerophyll Forests (Grassy sub-formation)
Ramsar Wetland	Freshwater Wetlands	Wet Sclerophyll Forests (Shrubby sub-formation)
<b>Native Vegetation</b>		
Alpine Complex	Grasslands	Non vegetated
Arid Shrublands (Acacia sub-formation)	Grassy Woodlands	Unattributed
Arid Shrublands (Chenopod sub-formation)	Heathlands	Not classified
Rainforests	Saline Wetlands	Other



Data Sources: Property Boundaries & Topographic Data:  
© Department Finance, Services & Innovation 2024

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 11 June 2024

# Ecological Constraints

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
3396556	Not classified	(Not classified) Not classified	Not classified	0m	On-site
3396821	Saline Wetlands	(Saline Wetlands) Grey Mangrove-River Mangrove Forest	Mangrove Swamps	821m	South West
3396762	Forested Wetlands	(Forested Wetlands) Estuarine Swamp Oak Twig-rush Forest	Coastal Floodplain Wetlands	880m	South West

Native Vegetation Type Map : NSW Department of Planning and Environment 2022

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## Ecological Constraints

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### 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					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

## Ecological Constraints

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

### 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  
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# Ecological Constraints

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology  
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# Ecological Constraints

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology  
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# Ecological Constraints

28 Marrickville Avenue & 46 Pine Street, Marrickville, NSW 2204

## NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	<i>Crinia tinnula</i>	Wallum Froglet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Amphibia	<i>Litoria aurea</i>	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	<i>Actitis hypoleucos</i>	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Anseranas semipalmata</i>	Magpie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Anthochaera phrygia</i>	Regent Honeyeater	Critically Endangered	Category 2	Critically Endangered	
Animalia	Aves	<i>Apus pacificus</i>	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Ardenna grisea</i>	Sooty Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	<i>Ardenna pacifica</i>	Wedge-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	<i>Ardenna tenuirostris</i>	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Arenaria interpres</i>	Ruddy Turnstone	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Artamus cyanopterus cyanopterus</i>	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Botaurus poiciloptilus</i>	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	<i>Burhinus grallarius</i>	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris alba</i>	Sanderling	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris canutus</i>	Red Knot	Not Listed	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris ferruginea</i>	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris melanotos</i>	Pectoral Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	<i>Calidris ruficollis</i>	Red-necked Stint	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris tenuirostris</i>	Great Knot	Vulnerable	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	Vulnerable	Category 3	Endangered	
Animalia	Aves	<i>Calyptorhynchus banksii banksii</i>	Red-tailed Black-Cockatoo (coastal subspecies)	Critically Endangered	Category 2	Not Listed	
Animalia	Aves	<i>Calyptorhynchus banksii samueli</i>	Red-tailed Black-Cockatoo (inland subspecies)	Vulnerable	Category 2	Not Listed	
Animalia	Aves	<i>Calyptorhynchus lathami lathami</i>	South-eastern Glossy Black-Cockatoo	Vulnerable	Category 2	Vulnerable	
Animalia	Aves	<i>Certhionyx variegatus</i>	Pied Honeyeater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Charadrius leschenaultii</i>	Greater Sand-plover	Vulnerable	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Charadrius mongolus	Lesser Sand-plover	Vulnerable	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius veredus	Oriental Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chlidonias leucopterus	White-winged Black Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Cuculus optatus	Oriental Cuckoo	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Diomedea exulans	Wandering Albatross	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Endangered Population, Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Erythrotriorchis radiatus	Red Goshawk	Endangered	Category 2	Endangered	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Gelochelidon nilotica	Gull-billed Tern	Not Listed	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Grantiella picta	Painted Honeyeater	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	Limicola falcinellus	Broad-billed Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa lapponica baueri	Bar-tailed Godwit (baueri)	Not Listed	Not Sensitive	Vulnerable	
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Manorina melanotis	Black-eared Miner	Critically Endangered	Not Sensitive	Endangered	
Animalia	Aves	Motacilla flava	Yellow Wagtail	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Listed	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius minutus	Little Curlew	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pezoporus wallicus wallicus	Eastern Ground Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Phaethon lepturus	White-tailed Tropicbird	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Philomachus pugnax	Ruff	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pterodroma leucoptera leucoptera	Gould's Petrel	Vulnerable	Not Sensitive	Endangered	
Animalia	Aves	Pterodroma nigripennis	Black-winged Petrel	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pterodroma solandri	Providence Petrel	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus magnificus	Wompoo Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stercorarius parasiticus	Arctic Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stercorarius pomarinus	Pomarine Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sterna hirundo	Common Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sternula albifrons	Little Tern	Endangered	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Sula dactylatra	Masked Booby	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Thalassarche melanophris	Black-browed Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Critically Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Tringa brevipes	Grey-tailed Tattler	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa incana	Wandering Tattler	Not Listed	Not Sensitive	Not Listed	JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	<i>Tringa nebularia</i>	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tringa stagnatilis</i>	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tyto novaehollandiae</i>	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Tyto tenebrosa</i>	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Xenus cinereus</i>	Terek Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Insecta	<i>Petalura gigantea</i>	Giant Dragonfly	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Arctocephalus forsteri</i>	New Zealand Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Arctocephalus pusillus doriferus</i>	Australian Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Cercartetus nanus</i>	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Chalinolobus dwyeri</i>	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	<i>Dasyurus viverrinus</i>	Eastern Quoll	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	<i>Dugong dugon</i>	Dugong	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Eubalaena australis</i>	Southern Right Whale	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Macrotis lagotis</i>	Bilby	Extinct	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Miniopterus australis</i>	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Miniopterus orianae oceanensis</i>	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Myotis macropus</i>	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Notomys cervinus</i>	Fawn Hopping-mouse	Extinct	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Notomys mitchellii</i>	Mitchell's Hopping-mouse	Extinct	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Perameles nasuta</i>	Long-nosed Bandicoot	Endangered Population	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Phascolarctos cinereus</i>	Koala	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	<i>Pseudomys gracilicaudatus</i>	Eastern Chestnut Mouse	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Saccolaimus flaviventris</i>	Yellow-bellied Sheathtail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Aspidites ramsayi</i>	Woma	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Caretta caretta</i>	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	<i>Chelonia mydas</i>	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	<i>Dermochelys coriacea</i>	Leatherback Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	<i>Diplodactylus platyurus</i>	Eastern Fat-tailed Gecko	Endangered	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Eretmochelys imbricata</i>	Hawksbill Turtle	Not Listed	Not Sensitive	Vulnerable	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Reptilia	<i>Eulamprus leuraensis</i>	Blue Mountains Water Skink	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	<i>Hoplocephalus bitorquatus</i>	Pale-headed Snake	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Hoplocephalus stephensii</i>	Stephens' Banded Snake	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Pseudonaja modesta</i>	Ringed Brown Snake	Endangered	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Tiliqua occipitalis</i>	Western Blue-tongued Lizard	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Varanus rosenbergi</i>	Rosenberg's Goanna	Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	<i>Camarophyllopsis kearneyi</i>		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe aurantipes</i>		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe austropratensis</i>		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe lanecovensensis</i>		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe reesiaie</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Acacia bynoeana</i>	Bynoe's Wattle	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Acacia gordonii</i>		Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Acacia prominens</i>	Gosford Wattle	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	<i>Acacia pubescens</i>	Downy Wattle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Acacia terminalis</i> subsp. Eastern Sydney	Sunshine wattle	Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Allocasuarina portuensis</i>	Nielsen Park She-oak	Endangered	Category 3	Endangered	
Plantae	Flora	<i>Amperea xiphoclada</i> var. <i>pedicellata</i>		Extinct	Not Sensitive	Extinct	
Plantae	Flora	<i>Caladenia tessellata</i>	Thick Lip Spider Orchid	Endangered	Category 2	Vulnerable	
Plantae	Flora	<i>Callistemon linearifolius</i>	Netted Bottle Brush	Vulnerable	Category 3	Not Listed	
Plantae	Flora	<i>Darwinia biflora</i>		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Dichanthium setosum</i>	Bluegrass	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Doryanthes palmeri</i>	Giant Spear Lily	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Epacris purpurascens</i> var. <i>purpurascens</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Eucalyptus fracta</i>	Broken Back Ironbark	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Eucalyptus leucoxylon</i> subsp. <i>pruinosa</i>	Yellow Gum	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Eucalyptus pulverulenta</i>	Silver-leafed Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Eucalyptus scoparia</i>	Wallangarra White Gum	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Genoplesium baueri</i>	Bauer's Midge Orchid	Endangered	Category 2	Endangered	
Plantae	Flora	<i>Hibbertia puberula</i>		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	<i>Isotoma fluviatilis</i> subsp. <i>fluviatilis</i>		Not Listed	Category 3	Extinct	
Plantae	Flora	<i>Macadamia integrifolia</i>	Macadamia Nut	Not Listed	Not Sensitive	Vulnerable	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Macadamia tetraphylla	Rough-shelled Bush Nut	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Maundia triglochinooides		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Endangered	Category 3	Endangered	
Plantae	Flora	Pimelea curviflora var. curviflora		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Pomaderris prunifolia	Plum-leaf Pomaderris	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Prostanthera marifolia	Seaforth Mintbush	Critically Endangered	Category 3	Critically Endangered	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Critically Endangered	Not Sensitive	Critically Endangered	
Plantae	Flora	Senecio spathulatus	Coast Groundsel	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Senna acclinis	Rainforest Cassia	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Tetradlea glandulosa		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Tetradlea juncea	Black-eyed Susan	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Tylophora woollsii	Cryptic Forest Twiner	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Wahlenbergia multicaulis	Tadgell's Bluebell	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Wilsonia backhousei	Narrow-leafed Wilsonia	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Zannichellia palustris		Endangered	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.

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LC Code	Location Confidence
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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
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As Supplied	Spatial data supplied by provider

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## Appendix D: Borehole Logs

## BOREHOLE LOG

**Client:** THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE  
**Project:** PROPOSED SENIORS HOUSING DEVELOPMENT  
**Location:** 28 MARRICKVILLE AVENUE, MARRICKVILLE, NSW

**Job No.:** 36788PE      **Method:** SPIRAL AUGER      **R.L. Surface:** ~22.7 m  
**Date:** 5/7/24      **Datum:** AHD  
**Plant Type:** JK205      **Logged/Checked By:** K.R./M.E.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
DRY ON COMPLETION OF AUGERING  AFTER AUGER COMPLETION ON 22/7/24										FILL: Sandy silty clay, low plasticity, dark brown, trace of metal fragments, roots and root fibres.	w>PL			MULCH COVER
					N = 3 1,2,1	22			SC	Silty clayey SAND: fine to medium grained, yellow brown and light brown.	M	L		RESIDUAL
							1		CL	Silty sandy CLAY: low plasticity, light brown, fine to medium grained sand.	w>PL	F		
					N = 12 3,5,7	21			CI	Silty CLAY: medium plasticity, light brown and orange, trace of fine grained sand.		St	150 160 180	
							2			Silty CLAY: medium plasticity, red brown and light grey, trace of fine grained sand.				
					N=SPT 11/ 100mm REFUSAL	20			-	SANDSTONE: fine to medium grained, red brown, light grey and orange brown.	HW	VL - L		HAWKESBURY SANDSTONE  LOW TO MODERATE 'TC' BIT RESISTANCE
					19									
						4								
						18								
						5								
						17								
						16				REFER TO CORED BOREHOLE LOG				'TC' BIT REFUSAL

JK 9.02.4 LIB.GLB Log JK AUGERHOLE - MASTER 36788PE MARRICKVILLE.GPJ <-DrawingFiles> 20/09/2024 08:39 10.01.00.01 D:\geot\lib\and\in\shu\tool\_dgd\lib JK 9.02.4 2019-05-31 Proj JK 9.01.0 2016-03-20

## CORED BOREHOLE LOG

**Client:** THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE  
**Project:** PROPOSED SENIORS HOUSING DEVELOPMENT  
**Location:** 28 MARRICKVILLE AVENUE, MARRICKVILLE, NSW

**Job No.:** 36788PE      **Core Size:** NMLC      **R.L. Surface:** ~22.7 m  
**Date:** 5/7/24      **Inclination:** VERTICAL      **Datum:** AHD  
**Plant Type:** JK205      **Bearing:** N/A      **Logged/Checked By:** K.R./M.E.

Water Loss/Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, texture and fabric, features, inclusions and minor components	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS				Formation	
									SPACING (mm)		DESCRIPTION Type, orientation, defect shape and roughness, defect coatings and seams, openness and thickness			
								600	200	60	20	Specific	General	
			17		START CORING AT 5.72m									
			6		NO CORE 1.82m									
			16											
			7											
			15		Extremely Weathered sandstone: silty sandy CLAY, low plasticity, red brown, fine to medium grained sand.	XW	(Hd)							
			8		SANDSTONE: fine to medium grained, red brown and orange brown, bedded at 0-10°.	MW	VL - L	+0.20					(8.13m) CS, 0°, 20 mm.t	
			14		SANDSTONE: fine to medium grained, light grey and orange brown, bedded at 0-5°.			+0.30					(8.49m) CS, 0°, 20 mm.t	
			9		SANDSTONE: fine to medium grained, light grey and grey, bedded at 0-10°.			+0.10					(9.37m) Be, 0°, P, S, Clay Vn	
			13				M	+0.60						
			10		END OF BOREHOLE AT 9.86 m									
			12											
			11											
			11											

JK 9.02.4 LIB.GLB Log JK CORED BOREHOLE - MASTER - 36788PE MARRICKVILLE.GPJ <-DrawingFile>> 2008/2024 08:40 10.01.00.01 D:\getLab and In Situ Tool - DGD\ Lib. JK 9.02.4 2019-05-31 Proj JK 9.01.0 2018-03-20

## BOREHOLE LOG

**Client:** THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE  
**Project:** PROPOSED SENIORS HOUSING DEVELOPMENT  
**Location:** 28 MARRICKVILLE AVENUE, MARRICKVILLE, NSW

**Job No.:** 36788PE      **Method:** SPIRAL AUGER      **R.L. Surface:** ~22.9 m  
**Date:** 4/7/24      **Datum:** AHD  
**Plant Type:** JK205      **Logged/Checked By:** K.R./M.E.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks	
	ES	U50	DB	DS											
DRY ON COMPLETION OF AUGERING  ON COMPLETION OF CORING 22/7/24										CONCRETE PAVERS: 110mm.t FILL: Sand, fine to medium grained, yellow brown, trace of root fibres.	M				
					N = 5 1,2,3	22	1		CL	Silty sandy CLAY: low plasticity, orange brown mottled light brown, fine to medium grained sand, trace of root fibres.	w>PL	F	50 50 60	RESIDUAL	
					N = 10 2,4,6	21	2					St	140 150 140		
						20	3		CI	Silty sandy CLAY: medium plasticity, red brown and orange brown, fine to medium grained sand.			St - Vst	210 180 190	HP TESTING ON REMOULDED SAMPLE
					N=SPT 10/ 10mm REFUSAL	19	4		-	Extremely Weathered sandstone: silty sandy CLAY, medium plasticity, light grey, fine to medium grained sand.	XW	Hd		HAWKESBURY SANDSTONE LOW 'TC' BIT RESISTANCE	
						17	6			SANDSTONE: fine to medium grained, grey and red brown.	HW	VL - L		MODERATE RESISTANCE	
					16				REFER TO CORED BOREHOLE LOG				HIGH RESISTANCE 'TC' BIT REFUSAL ON BEDROCK		

JK 9.02.4 LIB.GLB Log JK AUGERHOLE - MASTER 36788PE MARRICKVILLE.GPJ -<DrawingFiles> 20/09/2024 08:39 10.01.00.01 Datalog Lib and In Situ Tool\_DGD Lib JK 9.02.4 2019-05-31 Proj JK 9.01.0 2018-03-20

## CORED BOREHOLE LOG

**Client:** THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE  
**Project:** PROPOSED SENIORS HOUSING DEVELOPMENT  
**Location:** 28 MARRICKVILLE AVENUE, MARRICKVILLE, NSW

**Job No.:** 36788PE      **Core Size:** NMLC      **R.L. Surface:** ~22.9 m  
**Date:** 4/7/24      **Inclination:** VERTICAL      **Datum:** AHD  
**Plant Type:** JK205      **Bearing:** N/A      **Logged/Checked By:** K.R./M.E.

Water Loss/Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, texture and fabric, features, inclusions and minor components	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS		Formation	
									SPACING (mm)	DESCRIPTION Type, orientation, defect shape and roughness, defect coatings and seams, openness and thickness		
								600 200 60 20	Specific	General		
					START CORING AT 6.28m							
					NO CORE 0.38m							
	100% RETURN		16		SANDSTONE: fine to medium grained, red brown and light grey, bedded at 0-5°.	HW	VL - L	0.30				
	20% RETURN		15					0.10				
	100% RETURN		14		SANDSTONE: fine to medium grained, red brown, orange brown and light grey, bedded at 0-10°.			0.10				
			13					0.40				
			12					0.30				
			11					0.10				
			10		END OF BOREHOLE AT 9.24 m							
									600 200 60 20			

JK 9.02.4 LIB.GLB Log JK CORED BOREHOLE - MASTER\_36788PE MARRICKVILLE.GPJ <-DrawingFile>> 2008/2024.08.40 10.01.00.01 D:\git\Lab and In Situ Tool - DGD\Lab JK 9.02.4 2019-05-31 Proj JK 0.01.0.2018-03-20

## BOREHOLE LOG

**Client:** THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE  
**Project:** PROPOSED SENIORS HOUSING DEVELOPMENT  
**Location:** 28 MARRICKVILLE AVENUE, MARRICKVILLE, NSW

**Job No.:** 36788PE      **Method:** SPIRAL AUGER      **R.L. Surface:** ~24.3 m  
**Date:** 5/7/24 TO 8/7/24      **Datum:** AHD  
**Plant Type:** JK205      **Logged/Checked By:** K.R./M.E.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
DRY ON COMPLETION OF AUGERING  ON COMPLETION OF CORING  ON 22/7/24						24				FILL: Sandy silty clay, low plasticity, dark brown, fine grained sand, trace of roots and root fibres.	w<PL			MULCH COVER
					N = 8 3,4,4		1		CI	Silty sandy CLAY: medium plasticity, yellow brown and light brown, fine to medium grained sand.	w>PL	F	80 80 80	RESIDUAL
					N = 13 5,6,7		2			Silty CLAY: medium plasticity, light brown mottled orange brown, trace of fine grained sand.		St	160 140 160	
					N=SPT 7/ 50mm REFUSAL		3		-	SANDSTONE: fine to medium grained, light grey and orange brown, with iron indurated bands and extremely weathered bands.	DW	VL		HAWKESBURY SANDSTONE  LOW 'TC' BIT RESISTANCE
							4							VERY HIGH RESISTANCE FOR 700mm
							5							GROUNDWATER MONITORING WELL INSTALLED TO 11.55m. CLASS 18 MACHINE SLOTTED 50mm DIA. PVC STANDPIPE 3.55m TO 11.55m. CASING 0.1m TO 3.55m. 2mm SAND FILTER PACK 2.5m TO 11.55m. BENTONITE SEAL 0.13m TO 2.5m. COMPLETED WITH A CONCRETED GATIC COVER.
						6				SANDSTONE: fine to medium grained, light grey. REFER TO CORED BOREHOLE LOG	MW	M		HIGH RESISTANCE
						18								

JK 9.024 LIB.GLB Log JK AUGERHOLE - MASTER 36788PE MARRICKVILLE.GPJ <-DrawingFiles> 20/09/2024 08:39 10.01.00.01 Dargel Lab and In Situ Tool - DGD Lib JK 9.024 2019-05-31 Proj JK 9.010 2018-03-20

## CORED BOREHOLE LOG

**Client:** THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE  
**Project:** PROPOSED SENIORS HOUSING DEVELOPMENT  
**Location:** 28 MARRICKVILLE AVENUE, MARRICKVILLE, NSW

**Job No.:** 36788PE      **Core Size:** NMLC      **R.L. Surface:** ~24.3 m  
**Date:** 5/7/24 TO 8/7/24      **Inclination:** VERTICAL      **Datum:** AHD  
**Plant Type:** JK205      **Bearing:** N/A      **Logged/Checked By:** K.R./M.E.

Water Loss/Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, texture and fabric, features, inclusions and minor components	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	SPACING (mm)	DEFECT DETAILS		Formation
										Specific	General	
		19			START CORING AT 5.65m							
			6		Extremely Weathered sandstone: sandy CLAY, low plasticity, light grey, fine to medium grained sand.	XW	Hd	0.90				
		18			SANDSTONE: fine to medium grained, light grey, red brown and orange brown, bedded at 0-10°.	MW	M	0.90			(6.12m) Be, 5°, P, R, Cn (6.30m) Be, 5°, P, R, Cn (6.52m) Be, 5°, P, R, Cn	
		7					L - M	0.30			(6.88m) Be, 0°, P, R, Cb Vn	
		17			SANDSTONE: fine to coarse grained, red brown, orange brown and light grey, bedded at 0-5°.			0.40			(7.21m) Be, 5°, P, R, Clay Vn (7.34m) Be, 5°, P, R, Clay Vn (7.42m) Be, 5°, P, R, Clay Vn	
		8						0.30			(7.75m) Be, 0°, P, R, Clay Ct	
		16			Extremely Weathered sandstone: clayey SAND, fine to medium grained sand, light grey.	XW	D	0.20			(8.13m) Be, 0°, P, R, Fe Ct	
		9			SANDSTONE: fine to medium grained, orange brown, and light grey, bedded at 0-5°.	MW	L - M	0.30			(8.84m) XWS, 0°, 20 mm.t (8.95m) XWS, 0°, 10 mm.t	
		15						0.50			(9.28m) Ji, 70° (9.46m) Be, 0°, P, R, Cb Sn (9.53m) Be, 0°, P, R, Clay Vn	
		10						0.30			(10.00m) XWS, 0°, 7 mm.t	
		14			SANDSTONE: fine to coarse grained, light grey, bedded at 0-15°.			0.40				
		11			SANDSTONE: fine to medium grained, light grey, bedded at 0-5°.	HW	VL - L	0.30			(10.82m) XWS, 0°, 10 mm.t (10.85m) J, 60 - 70°, Un, R, Clay Vn	
		13						0.10			(11.34m) XWS, 0°, 60 mm.t	
					SANDSTONE: fine to medium grained,		L	0.20			(11.82m) Be, 0°, P, R, Clay Vn	

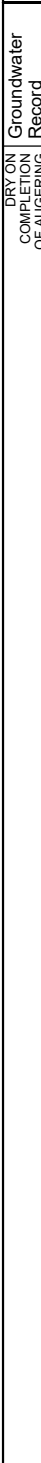


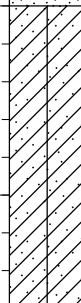
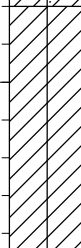

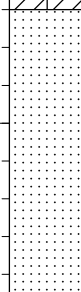
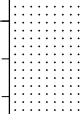
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## BOREHOLE LOG

**Client:** THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE  
**Project:** PROPOSED SENIORS HOUSING DEVELOPMENT  
**Location:** 28 MARRICKVILLE AVENUE, MARRICKVILLE, NSW

**Job No.:** 36788PE      **Method:** SPIRAL AUGER      **R.L. Surface:** ~22.0 m  
**Date:** 4/7/24      **Datum:** AHD  
**Plant Type:** JK205      **Logged/Checked By:** K.R./M.E.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
DRY ON COMPLETION OF AUGERING 										CONCRETE PAVERS: 110mm.t				
					N = 14 7,8,6	21	1		SP	FILL: Silty clay, medium plasticity, grey, trace of fine to medium grained igneous gravel, and fine to medium grained sand.	w<PL			
										SAND: fine grained, yellow brown.	M			POSSIBLY FILL
					N = 8 3,4,4	20	2		CL	Silty sandy CLAY: low plasticity, orange brown mottled light brown and light grey, fine to medium grained sand.	w>PL	VSt	200 220 220	RESIDUAL
					N = 21 8,11,10	19	3		CI	Silty CLAY: medium plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel, and root fibres.	w<PL	Hd	460 480 450	
						18	4			Silty CLAY: medium plasticity, light grey.				
				N > 26 8,16,10/ 30mm REFUSAL	17	5		-	Extremely Weathered sandstone: sandy CLAY, low plasticity, light grey, fine to medium grained sand.	XW	Hd	>600 >600 >600	HAWKESBURY SANDSTONE  VERY LOW 'TC' BIT RESISTANCE	
					16	6			SANDSTONE: fine to medium grained, light grey.	HW	VL - L		LOW TO MODERATE RESISTANCE	
										END OF BOREHOLE AT 6.50 m				

JK 9.02.4 LIB.GLB Log JK AUGERHOLE - MASTER 36788PE MARRICKVILLE.GPJ <-DrawingFiles> 20/09/2024 08:39 10.01.00.01 Datagel Lib and In Situ Tool - DGD Lib JK 9.02.4 2019-05-31 Proj JK 9.01.0 2018-03-20



## ENVIRONMENTAL LOG

Log No.  
**BH105**  
1/1

Environmental logs are not to be used for geotechnical purposes

<b>Client:</b>	THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE
<b>Project:</b>	PROPOSED SENIORS HOUSING DEVELOPMENT
<b>Location:</b>	28 MARRICKVILLE AVENUE & 46 PINE STREET, MARRICKVILLE, NSW

<b>Job No.:</b> E36788BT	<b>Method:</b> HAND AUGER	<b>R.L. Surface:</b> N/A
<b>Date:</b> 4/7/24	<b>Datum:</b> -	
<b>Plant Type:</b> -	<b>Logged/Checked by:</b> O.B./T.H.	

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPLETION						0	[Cross-hatched pattern]		FILL: Silty sandy clay, medium plasticity, brown, fine to medium grained sand, trace of roots and root fibres.	w <sub>z</sub> PL			GRASS COVER SCREEN: 10.90kg 0-0.1m, NO FCF SCREEN: 12.45kg 0.1-0.6m, NO FCF
						0.5			FILL: Clayey sand, fine to medium grained, light grey and brown.	W			SCREEN: 2.60kg (<10L) 0.6-0.9m, NO FCF
						1	[Diagonal pattern]	CI	Sandy CLAY: medium plasticity, brown mottled orange brown, fine to medium grained sand.	w>PL			RESIDUAL
						1.5			END OF BOREHOLE AT 1.4m				
						2							
						2.5							
						3							
						3.5							



## ENVIRONMENTAL LOG

Log No.  
**BH106**  
1/1

Environmental logs are not to be used for geotechnical purposes

SDUP101: 0-0.1

<b>Client:</b>	THE MARONITE SISTERS OF THE HOLY FAMILY VILLAGE
<b>Project:</b>	PROPOSED SENIORS HOUSING DEVELOPMENT
<b>Location:</b>	28 MARRICKVILLE AVENUE & 46 PINE STREET, MARRICKVILLE, NSW

<b>Job No.:</b> E36788BT	<b>Method:</b> HAND AUGER	<b>R.L. Surface:</b> N/A
<b>Date:</b> 4/7/24	<b>Datum:</b> -	
<b>Plant Type:</b> -	<b>Logged/Checked by:</b> O.B./T.H.	

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	FS	ASS	ASB	SAL									
DRY ON COMPLETION						0			FILL: Silty sandy clay, medium plasticity, brown, fine to medium grained sand, trace of ironstone gravel, ash, roots and root fibres.	w <sub>≈</sub> PL			GRASS COVER
						0.5				w>PL			SCREEN: 13.10kg 0-0.1m, NO FCF SCREEN: 10.98kg 0.1-1.1m, NO FCF
						1		CI-CH	Silty CLAY: medium to high plasticity, light brown and orange brown, trace of ironstone gravel.	w <sub>≈</sub> PL			RESIDUAL
						1.5			END OF BOREHOLE AT 1.5m				
						2							
						2.5							
						3							
						3.5							



# ENVIRONMENTAL LOGS EXPLANATION NOTES

## INTRODUCTION

These notes have been provided to amplify the environmental report in regard to classification methods, field procedures and certain matters relating to the logging of soil and rock. Not all notes are necessarily relevant to all reports.

Where geotechnical borehole logs are utilised for environmental purpose, reference should also be made to the explanatory notes included in the geotechnical report. Environmental logs are not suitable for geotechnical purposes.

The ground is a product of continuing natural and man-made processes and therefore exhibits a variety of characteristics and properties which vary from place to place and can change with time. Environmental studies include gathering and assimilating limited facts about these characteristics and properties in order to understand or predict the behaviour of the ground on a particular site under certain conditions. This report may contain such facts obtained by inspection, excavation, probing, sampling, testing or other means of investigation. If so, they are directly relevant only to the ground at the place where and time when the investigation was carried out.

## DESCRIPTION AND CLASSIFICATION METHODS

The methods of description and classification of soils and rocks used in this report are based on Australian Standard 1726:2017 'Geotechnical Site Investigations'. In general, descriptions cover the following properties – soil or rock type, colour, structure, strength or density, and inclusions. Identification and classification of soil and rock involves judgement and the Company infers accuracy only to the extent that is common in current geoenvironmental practice.

Soil types are described according to the predominating particle size and behaviour as set out in the attached soil classification table qualified by the grading of other particles present (eg. sandy clay) as set out below:

Soil Classification	Particle Size
Clay	< 0.002mm
Silt	0.002 to 0.075mm
Sand	0.075 to 2.36mm
Gravel	2.36 to 63mm
Cobbles	63 to 200mm
Boulders	> 200mm

Non-cohesive soils are classified on the basis of relative density, generally from the results of Standard Penetration Test (SPT) as below:

Relative Density	SPT 'N' Value (blows/300mm)
Very loose (VL)	< 4
Loose (L)	4 to 10
Medium dense (MD)	10 to 30
Dense (D)	30 to 50
Very Dense (VD)	> 50

Cohesive soils are classified on the basis of strength (consistency) either by use of a hand penetrometer, vane shear, laboratory testing and/or tactile engineering examination. The strength terms are defined as follows.

Classification	Unconfined Compressive Strength (kPa)	Indicative Undrained Shear Strength (kPa)
Very Soft (VS)	≤ 25	≤ 12
Soft (S)	> 25 and ≤ 50	> 12 and ≤ 25
Firm (F)	> 50 and ≤ 100	> 25 and ≤ 50
Stiff (St)	> 100 and ≤ 200	> 50 and ≤ 100
Very Stiff (VSt)	> 200 and ≤ 400	> 100 and ≤ 200
Hard (Hd)	> 400	> 200
Friable (Fr)	Strength not attainable – soil crumbles	

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc. Where relevant, further information regarding rock classification is given in the text of the report. In the Sydney Basin, 'shale' is used to describe fissile mudstone, with a weakness parallel to bedding. Rocks with alternating inter-laminations of different grain size (eg. siltstone/claystone and siltstone/fine grained sandstone) are referred to as 'laminite'.

## INVESTIGATION METHODS

The following is a brief summary of investigation methods currently adopted by the Company and some comments on their use and application. All methods except test pits, hand auger drilling and portable Dynamic Cone Penetrometers require the use of a mechanical rig which is commonly mounted on a truck chassis or track base.

**Test Pits:** These are normally excavated with a backhoe or a tracked excavator, allowing close examination of the insitu soils and 'weaker' bedrock if it is safe to descend into the pit. The depth of penetration is limited to about 3m for a backhoe and up to 6m for a large excavator. Limitations of test pits are the problems associated with disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact the backfill during construction or to design and construct the

structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

**Hand Auger Drilling:** A borehole of 50mm to 100mm diameter is advanced by manually operated equipment. Refusal of the hand auger can occur on a variety of materials such as obstructions within any fill, tree roots, hard clay, gravel or ironstone, cobbles and boulders, and does not necessarily indicate rock level.

**Continuous Spiral Flight Augers:** The borehole is advanced using 75mm to 115mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling and insitu testing. This is a relatively economical means of drilling in clays and in sands above the water table. Samples are returned to the surface by the flights or may be collected after withdrawal of the auger flights, but they can be very disturbed and layers may become mixed. Information from the auger sampling (as distinct from specific sampling by SPTs or undisturbed samples) is of limited reliability due to mixing or softening of samples by groundwater, or uncertainties as to the original depth of the samples. Augering below the groundwater table is of even lesser reliability than augering above the water table.

**Rock Augering:** Use can be made of a Tungsten Carbide (TC) bit for auger drilling into rock to indicate rock quality and continuity by variation in drilling resistance and from examination of recovered rock cuttings. This method of investigation is quick and relatively inexpensive but provides only an indication of the likely rock strength and predicted values may be in error by a strength order. Where rock strengths may have a significant impact on construction feasibility or costs, then further investigation by means of cored boreholes may be warranted.

**Wash Boring:** The borehole is usually advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be assessed from the cuttings, together with some information from “feel” and rate of penetration.

**Mud Stabilised Drilling:** Either Wash Boring or Continuous Core Drilling can use drilling mud as a circulating fluid to stabilise the borehole. The term ‘mud’ encompasses a range of products ranging from bentonite to polymers. The mud tends to mask the cuttings and reliable identification is only possible from intermittent intact sampling (eg. from SPT and U50 samples) or from rock coring, etc.

**Continuous Core Drilling:** A continuous core sample is obtained using a diamond tipped core barrel. Provided full core recovery is achieved (which is not always possible in very low strength rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation. In rocks, NMLC or HQ triple tube core barrels, which give a core of about 50mm and 61mm diameter, respectively, is usually used with water flush. The length of core recovered is compared to the length drilled and any length not recovered is shown as NO CORE. The location of NO CORE recovery is determined on site by the supervising engineer; where the location is uncertain, the loss is placed at the bottom of the drill run.

**Standard Penetration Tests:** Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils, as a means of indicating density or strength and also of obtaining a relatively undisturbed sample. The test procedure is

described in Australian Standard 1289.6.3.1–2004 (R2016) ‘*Methods of Testing Soils for Engineering Purposes, Soil Strength and Consolidation Tests – Determination of the Penetration Resistance of a Soil – Standard Penetration Test (SPT)*’.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63.5kg hammer with a free fall of 760mm. It is normal for the tube to be driven in three successive 150mm increments and the ‘N’ value is taken as the number of blows for the last 300mm. In dense sands, very hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

- In the case where full penetration is obtained with successive blow counts for each 150mm of, say, 4, 6 and 7 blows, as

N = 13  
4, 6, 7

- In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as

N > 30  
15, 30/40mm

The results of the test can be related empirically to the engineering properties of the soil.

A modification to the SPT is where the same driving system is used with a solid 60° tipped steel cone of the same diameter as the SPT hollow sampler. The solid cone can be continuously driven for some distance in soft clays or loose sands, or may be used where damage would otherwise occur to the SPT. The results of this Solid Cone Penetration Test (SCPT) are shown as ‘N<sub>c</sub>’ on the borehole logs, together with the number of blows per 150mm penetration.

## LOGS

The borehole or test pit logs presented herein are an interpretation of the subsurface conditions, and their reliability will depend to some extent on the frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will enable the most reliable assessment, but is not always practicable or possible to justify on economic grounds. In any case, the boreholes or test pits represent only a very small sample of the total subsurface conditions.

The terms and symbols used in preparation of the logs are defined in the following pages.

Interpretation of the information shown on the logs, and its application to design and construction, should therefore take into account the spacing of boreholes or test pits, the method of drilling or excavation, the frequency of sampling and testing and the possibility of other than ‘straight line’ variations between the boreholes or test pits. Subsurface conditions between boreholes or test pits may vary significantly from conditions encountered at the borehole or test pit locations.



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## GROUNDWATER

Where groundwater levels are measured in boreholes, there are several potential problems:

- Although groundwater may be present, in low permeability soils it may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes and may not be the same at the time of construction.
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must be washed out of the hole or 'reverted' chemically if reliable water observations are to be made.

More reliable measurements can be made by installing standpipes which are read after the groundwater level has stabilised at intervals ranging from several days to perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from perched water tables or surface water.

## FILL

The presence of fill materials can often be determined only by the inclusion of foreign objects (eg. bricks, steel, etc) or by distinctly unusual colour, texture or fabric. Identification of the extent of fill materials will also depend on investigation methods and frequency. Where natural soils similar to those at the site are used for fill, it may be difficult with limited testing and sampling to reliably assess the extent of the fill.

The presence of fill materials is usually regarded with caution as the possible variation in density and material type is much greater than with natural soil deposits. Consequently, there is an increased risk of adverse environmental characteristics or behaviour. If the volume and nature of fill is of importance to a project, then frequent test pit excavations are preferable to boreholes.

## LABORATORY TESTING

Laboratory testing has not been undertaken to confirm the soil classification and rock strengths indicated on the environmental logs unless noted in the report.

## SYMBOL LEGENDS

### SOIL



FILL



TOPSOIL



CLAY (CL, CI, CH)



SILT (ML, MH)



SAND (SP, SW)



GRAVEL (GP, GW)



SANDY CLAY (CL, CI, CH)



SILTY CLAY (CL, CI, CH)



CLAYEY SAND (SC)



SILTY SAND (SM)



GRAVELLY CLAY (CL, CI, CH)



CLAYEY GRAVEL (GC)



SANDY SILT (ML, MH)



PEAT AND HIGHLY ORGANIC SOILS (Pt)

### ROCK



CONGLOMERATE



SANDSTONE



SHALE/MUDSTONE



SILTSTONE



CLAYSTONE



COAL



LAMINITE



LIMESTONE



PHYLLITE, SCHIST



TUFF



GRANITE, GABBRO



DOLERITE, DIORITE



BASALT, ANDESITE



QUARTZITE

### OTHER MATERIALS



BRICKS OR PAVERS



CONCRETE



ASPHALTIC CONCRETE

## CLASSIFICATION OF COARSE AND FINE GRAINED SOILS

Major Divisions		Group Symbol	Typical Names	Field Classification of Sand and Gravel	Laboratory Classification	
Coarse grained soil (more than 68% of soil excluding oversize fraction is greater than 0.075mm)	GRAVEL (more than half of coarse fraction is larger than 2.36mm)	GW	Gravel and gravel-sand mixtures, little or no fines	Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	$C_u > 4$ $1 < C_c < 3$
		GP	Gravel and gravel-sand mixtures, little or no fines, uniform gravels	Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	Fails to comply with above
		GM	Gravel-silt mixtures and gravel-sand-silt mixtures	'Dirty' materials with excess of non-plastic fines, zero to medium dry strength	≥ 12% fines, fines are silty	Fines behave as silt
		GC	Gravel-clay mixtures and gravel-sand-clay mixtures	'Dirty' materials with excess of plastic fines, medium to high dry strength	≥ 12% fines, fines are clayey	Fines behave as clay
	SAND (more than half of coarse fraction is smaller than 2.36mm)	SW	Sand and gravel-sand mixtures, little or no fines	Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	$C_u > 6$ $1 < C_c < 3$
		SP	Sand and gravel-sand mixtures, little or no fines	Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	Fails to comply with above
		SM	Sand-silt mixtures	'Dirty' materials with excess of non-plastic fines, zero to medium dry strength	≥ 12% fines, fines are silty	N/A
		SC	Sand-clay mixtures	'Dirty' materials with excess of plastic fines, medium to high dry strength	≥ 12% fines, fines are clayey	

**Laboratory Classification Criteria**

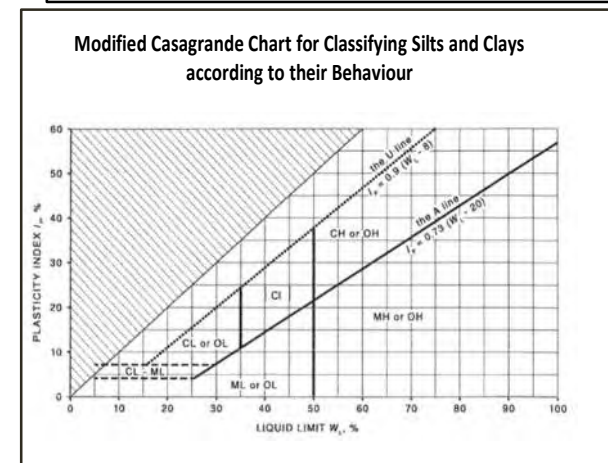
A well graded coarse grained soil is one for which the coefficient of uniformity  $C_u > 4$  and the coefficient of curvature  $1 < C_c < 3$ . Otherwise, the soil is poorly graded. These coefficients are given by:

$$C_u = \frac{D_{60}}{D_{10}} \quad \text{and} \quad C_c = \frac{(D_{30})^2}{D_{10} D_{60}}$$

Where  $D_{10}$ ,  $D_{30}$  and  $D_{60}$  are those grain sizes for which 10%, 30% and 60% of the soil grains, respectively, are smaller.


- NOTES:**
- For a coarse grained soil with a fines content between 5% and 12%, the soil is given a dual classification comprising the two group symbols separated by a dash; for example, for a poorly graded gravel with between 5% and 12% silt fines, the classification is GP-GM.
  - Where the grading is determined from laboratory tests, it is defined by coefficients of curvature ( $C_c$ ) and uniformity ( $C_u$ ) derived from the particle size distribution curve.
  - Clay soils with liquid limits  $> 35\%$  and  $\leq 50\%$  may be classified as being of medium plasticity.
  - The U line on the Modified Casagrande Chart is an approximate upper bound for most natural soils.

Major Divisions		Group Symbol	Typical Names	Field Classification of Silt and Clay			Laboratory Classification
				Dry Strength	Dilatancy	Toughness	
fine grained soils (more than 35% of soil excluding oversize fraction is less than 0.075mm)	SILT and CLAY (low to medium plasticity)	ML	Inorganic silt and very fine sand, rock flour, silty or clayey fine sand or silt with low plasticity	None to low	Slow to rapid	Low	Below A line
		CL, CI	Inorganic clay of low to medium plasticity, gravelly clay, sandy clay	Medium to high	None to slow	Medium	Above A line
		OL	Organic silt	Low to medium	Slow	Low	Below A line
	SILT and CLAY (high plasticity)	MH	Inorganic silt	Low to medium	None to slow	Low to medium	Below A line
		CH	Inorganic clay of high plasticity	High to very high	None	High	Above A line
		OH	Organic clay of medium to high plasticity, organic silt	Medium to high	None to very slow	Low to medium	Below A line
	Highly organic soil	Pt	Peat, highly organic soil	–	–	–	–





## LOG SYMBOLS

Log Column	Symbol	Definition		
Groundwater Record		Standing water level. Time delay following completion of drilling/excavation may be shown.		
		Extent of borehole/test pit collapse shortly after drilling/excavation.		
		Groundwater seepage into borehole or test pit noted during drilling or excavation.		
Samples	ES	Sample taken over depth indicated, for environmental analysis.		
	U50	Undisturbed 50mm diameter tube sample taken over depth indicated.		
	DB	Bulk disturbed sample taken over depth indicated.		
	DS	Small disturbed bag sample taken over depth indicated.		
	ASB	Soil sample taken over depth indicated, for asbestos analysis.		
	ASS	Soil sample taken over depth indicated, for acid sulfate soil analysis.		
	SAL	Soil sample taken over depth indicated, for salinity analysis.		
	PFAS	Soil sample taken over depth indicated, for analysis of Per- and Polyfluoroalkyl Substances.		
Field Tests	N = 17 4, 7, 10	Standard Penetration Test (SPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration. 'Refusal' refers to apparent hammer refusal within the corresponding 150mm depth increment.		
	N <sub>c</sub> =	5	Solid Cone Penetration Test (SCPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration for 60° solid cone driven by SPT hammer. 'R' refers to apparent hammer refusal within the corresponding 150mm depth increment.	
		7		
		3R		
VNS = 25 PID = 100	Vane shear reading in kPa of undrained shear strength. Photoionisation detector reading in ppm (soil sample headspace test).			
Moisture Condition (Fine Grained Soils)	w > PL	Moisture content estimated to be greater than plastic limit.		
	w ≈ PL	Moisture content estimated to be approximately equal to plastic limit.		
	w < PL	Moisture content estimated to be less than plastic limit.		
	w ≈ LL	Moisture content estimated to be near liquid limit.		
	w > LL	Moisture content estimated to be wet of liquid limit.		
	(Coarse Grained Soils)	D	DRY – runs freely through fingers.	
M		MOIST – does not run freely but no free water visible on soil surface.		
W		WET – free water visible on soil surface.		
Strength (Consistency) Cohesive Soils	VS	VERY SOFT – unconfined compressive strength ≤ 25kPa.		
	S	SOFT – unconfined compressive strength > 25kPa and ≤ 50kPa.		
	F	FIRM – unconfined compressive strength > 50kPa and ≤ 100kPa.		
	St	STIFF – unconfined compressive strength > 100kPa and ≤ 200kPa.		
	VSt	VERY STIFF – unconfined compressive strength > 200kPa and ≤ 400kPa.		
	Hd	HARD – unconfined compressive strength > 400kPa.		
	Fr	FRIABLE – strength not attainable, soil crumbles.		
	( )	Bracketed symbol indicates estimated consistency based on tactile examination or other assessment.		
Density Index/ Relative Density (Cohesionless Soils)		<b>Density Index (I<sub>D</sub>) Range (%)</b>	<b>SPT 'N' Value Range (Blows/300mm)</b>	
	VL	VERY LOOSE	≤ 15	0 – 4
	L	LOOSE	> 15 and ≤ 35	4 – 10
	MD	MEDIUM DENSE	> 35 and ≤ 65	10 – 30
	D	DENSE	> 65 and ≤ 85	30 – 50
	VD	VERY DENSE	> 85	> 50
	( )	Bracketed symbol indicates estimated density based on ease of drilling or other assessment.		



Log Column	Symbol	Definition
Hand Penetrometer Readings	300 250	Measures reading in kPa of unconfined compressive strength. Numbers indicate individual test results on representative undisturbed material unless noted otherwise.
Remarks	'V' bit 'TC' bit <b>T</b> <sub>60</sub> Soil Origin	<p>Hardened steel 'V' shaped bit.</p> <p>Twin pronged tungsten carbide bit.</p> <p>Penetration of auger string in mm under static load of rig applied by drill head hydraulics without rotation of augers.</p> <p>The geological origin of the soil can generally be described as:</p> <p><b>RESIDUAL</b> – soil formed directly from insitu weathering of the underlying rock. No visible structure or fabric of the parent rock.</p> <p><b>EXTREMELY WEATHERED</b> – soil formed directly from insitu weathering of the underlying rock. Material is of soil strength but retains the structure and/or fabric of the parent rock.</p> <p><b>ALLUVIAL</b> – soil deposited by creeks and rivers.</p> <p><b>ESTUARINE</b> – soil deposited in coastal estuaries, including sediments caused by inflowing creeks and rivers, and tidal currents.</p> <p><b>MARINE</b> – soil deposited in a marine environment.</p> <p><b>AEOLIAN</b> – soil carried and deposited by wind.</p> <p><b>COLLUVIAL</b> – soil and rock debris transported downslope by gravity, with or without the assistance of flowing water. Colluvium is usually a thick deposit formed from a landslide. The description 'slopewash' is used for thinner surficial deposits.</p> <p><b>LITTORAL</b> – beach deposited soil.</p>



## Classification of Material Weathering

Term	Abbreviation	Definition
Residual Soil	RS	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible, but the soil has not been significantly transported.
Extremely Weathered	XW	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible.
Highly Weathered	Distinctly Weathered (Note 1)	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores.
Moderately Weathered		
Slightly Weathered	SW	Rock is partially discoloured with staining or bleaching along joints but shows little or no change of strength from fresh rock.
Fresh	FR	Rock shows no sign of decomposition of individual minerals or colour changes.

**NOTE 1:** The term 'Distinctly Weathered' is used where it is not practicable to distinguish between 'Highly Weathered' and 'Moderately Weathered' rock. 'Distinctly Weathered' is defined as follows: 'Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores'. There is some change in rock strength.

## Rock Material Strength Classification

Term	Abbreviation	Uniaxial Compressive Strength (MPa)	Guide to Strength	
			Point Load Strength Index $Is_{(50)}$ (MPa)	Field Assessment
Very Low Strength	VL	0.6 to 2	0.03 to 0.1	Material crumbles under firm blows with sharp end of pick; can be peeled with knife; too hard to cut a triaxial sample by hand. Pieces up to 30mm thick can be broken by finger pressure.
Low Strength	L	2 to 6	0.1 to 0.3	Easily scored with a knife; indentations 1mm to 3mm show in the specimen with firm blows of the pick point; has dull sound under hammer. A piece of core 150mm long by 50mm diameter may be broken by hand. Sharp edges of core may be friable and break during handling.
Medium Strength	M	6 to 20	0.3 to 1	Scored with a knife; a piece of core 150mm long by 50mm diameter can be broken by hand with difficulty.
High Strength	H	20 to 60	1 to 3	A piece of core 150mm long by 50mm diameter cannot be broken by hand but can be broken by a pick with a single firm blow; rock rings under hammer.
Very High Strength	VH	60 to 200	3 to 10	Hand specimen breaks with pick after more than one blow; rock rings under hammer.
Extremely High Strength	EH	> 200	> 10	Specimen requires many blows with geological pick to break through intact material; rock rings under hammer.