



Appendix 12 – Preliminary Environmental Site Assessment





PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT

261 & 277-281 Pennant Hills Road
14-30 Shirley Street
2, 6 & 10 Janell Crescent
CARLINGFORD NSW 2118

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Executive Summary

Environmental Consulting Services Pty Ltd (ECS) was engaged to undertake an environmental assessment of the property known as 261 & 277-281 Pennant Hills Road, 14-30 Shirley Street, 2, 6 & 10 Janell Crescent in Carlingford (the Site). The purpose of this assessment was to evaluate the potential for contamination resulting from past Site activities and to draw conclusions regarding the suitability of the Site for residential redevelopment.

The objective of the environmental assessment was to evaluate the potential for contamination resulting from past Site activities. The scope of work undertaken to meet this objective included the review of selected background, excavation of shallow test pits at 36 locations and the preparation of composite samples of the surface material.

This history of the Site indicates past use for primarily residential purposes. The majority of residential buildings on the Site were recently demolished leaving the Site vacant with the exception of a several residential dwellings that front Pennant Hills Road.

A Clean-up Notice was issued for the Site by the EPA in February 2019 relating to the placement of waste materials on Site, including asbestos waste. The EPA has confirmed that the Clean-up Notice was complied with and the asbestos waste was removed from the Site and disposed of at a lawful facility.

The subsurface conditions generally consisted of disturbed natural silty clays to a depth of 0.3m although disturbed natural clay extended to 0.7m depth at one location. The underlying natural soils consisted of topsoil in some locations over stiff silty clays.

The methodical sampling conducted during this investigation incorporated the preparation of composite samples. Concentrations of contaminants in all composite samples are below the Site Assessment Criteria.

To further evaluate the results of analysis of the composite samples for a potential hot spot in each designated section of the Site, the results of analysis were considered using one quarter of the Site Assessment Criteria. This approach concluded that concentrations of contaminants in all composite samples remained below one quarter of the SAC with the exception of benzo(a)pyrene in composite sample A6 which encountered a concentration of 1.3mg/kg exceeding a quarter of the SAC of 1mg/kg.

The elevated concentration of benzo(a)pyrene could represent a localised hotspot, however, when considering the total section represented by sample A6, the concentration is not considered to represent significant contamination. Additionally, the proposed high-density residential development is likely to include excavation of surface soils for basement carpark.

The inspection indicated the presence of fragments of ACM on the Site surface. Laboratory analysis of a cement sheeting fragment collected from the Site confirmed the presence of asbestos. The density of potential ACM fragments observed across the Site is not anticipated to be above the SAC of 0.04% for residential properties with minimal access to soil. However, the NEPM guidelines also specifies a criterion of 'no visible asbestos for surface soil'. Therefore, to comply with guidelines, fragments of ACM should be removed from the Site surface.

The Site is considered suitable for the proposed high-density residential development after the implementation of asbestos management measures.

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1.0 INTRODUCTION

Environmental Consulting Services Pty Ltd (ECS) was engaged to undertake an environmental assessment of the property known as 261 & 277-281 Pennant Hills Road, 14-30 Shirley Street, 2, 6 & 10 Janell Crescent in Carlingford (the Site). The purpose of this assessment was to evaluate the potential for contamination resulting from past Site activities and to draw conclusions regarding the suitability of the Site for residential redevelopment.

ECS understands the Site will be marketed for sale with the possibility of redevelopment for high-density residential land use.

This assessment has been conducted with consideration of the Planning Guidelines, New South Wales Environment Protection Authority (NSW EPA) guidelines and the Australian Standard for site assessment including:

- Sampling Design Guidelines (NSW EPA 1995)
- Guidelines for Consultants Reporting on Contaminated Sites (NSW EPA, 2020);
- Managing Land Contamination Planning Guidelines SEPP 55 – Remediation of Land; and
- National Environment Protection Measure (NEPM) for the Assessment of the Site Contamination (NEPM2013).

Site inspections, soil sampling, gas sampling and laboratory analyses were performed as part of this study. Best professional judgement was used to interpret and extrapolate between sampling points, however even under ideal circumstances actual conditions may vary from those inferred to exist. The actual interface between materials and variation of soil quality may be more abrupt or gradual than the report indicates.

This report has been prepared to evaluate the potential for contamination, if any, on the Site. ECS is not aware of any previous investigations that have been conducted at this Site. However, ECS is aware that the removal of waste has been undertaken and a clearance issues.

1.1 Scope of Work

The objective of the environmental assessment was to evaluate the potential for contamination resulting from past Site activities. The scope of work undertaken to meet this objective included the following:

- The review of selected background information including historical air photographs and relevant published information;
- The excavation of shallow test pits at 36 locations in a methodical grid pattern across the Site;
- The collection of surface soil samples from each test pit;
- The preparation of composite samples of the surface material;
- The excavation of a test pit into a stockpile of material on the at the eastern corner of Site and the collection of a soil sample to characterise this stockpiled material;
- The laboratory analysis of the composite surface soil samples and also the sample from the stockpile; and
- The preparation of an investigation report.

2.0 SITE INFORMATION

2.1 Site Identification

The Site is located in a residential area which predominantly consists of multi-storey high-density residential developments.

The location of the Site is presented in Figure 2.1 – Site Location Plan (Six Maps) with the Site identification details summarised in Table 2.1 – Site Identification.

Figure 2.1 – Site Location Plan



Table 2.1 – Site Identification

| Attribute | Detail |
|---|--|
| Site Address | 261 & 277-281 Pennant Hills Road, Carlingford, NSW 2118 14-30 Shirley Street, Carlingford, NSW 2118 2, 6 & 10 Janell Crescent, Carlingford, NSW 2118 |
| Lot & Deposited Plan | Lot 1 in DP 1219291 Lot 61 & 62 in DP 819136 Lot 2, 3 & 4 in DP 9614 Lot 22 in DP 21386 |
| Current Land Use | Residential and vacant land |
| Proposed Land Use | Residential (assumed to be high density) |
| Local Government Authority | City of Parramatta |
| Current Zoning | High Density Residential (R4) and Public Recreation (RE1) |
| Site Area (m ²) | ~28 300 |
| Geographical Location (approximate centre) | Latitude: -33.780442352 Longitude: 151.050785155 |

2.2 Land Zoning

The Land Zoning Map within the Hills Local Environmental Plan 2012 (LEP 2012) prepared by the City of Parramatta shows majority of the Site is zoned as High Density Residential (R4), however, the north-western corner of the Site and a portion in the centre of the Site is zoned as Public Recreation (RE1).

2.3 Site Location and Regional Setting

The Site is located in a residential area which is characterised by multi-storey, high-density residential developments although there are some older free-standing houses in the vicinity of the Site.

The Site is an irregular shape that approximates a triangle with an approximate area of 28,300m². The majority of the Site is vacant cleared land, however there are seven residential buildings on Site along the south-eastern boundary fronting Pennant Hills Road.

The Site is bounded by Pennant Hills Road to the south east and Shirley Street to the west. Developments on the neighbouring land include:

- Residential developments to the south east across Pennant Hills Road;
- A church and residential developments to the west;
- Residential developments to the north across Shirley Street; and
- Commercial developments (shops) to the north east.

The Site is outlined in red and surrounding properties are shown on Figure 2.2 – Site Layout.

2.4 Topography

The natural ground level at the Site slopes downwards towards the south west. The elevation at the north east corner of the Site is approximately 125m AHD (Australian Height Datum) and at the southern corner approximately 100m AHD. However, there is a stockpile of soil near the northeast corner of the Site.

There has been some stormwater mitigation measured established on the Site including a low berm and drainage pathway along the western boundary. Topsoil appears to have been removed from the central area of the Site.

Figure 2.2 – Site Layout



3.0 GEOLOGY AND HYDROLOGY

3.1 Regional Geology

Regional geology of the area is shown on the Sydney 1:100 000 Geological Map Sheet (Sheet 9130 1st Edition 1983). The majority of the Site is underlain by Ashfield Shale of the Wianamatta Group which is described as black to dark-grey shale and laminate. However, a small portion of the Site along the south-eastern boundary to Pennant Hills Road is underlain by the Bringelly Shales of the Wianamatta Group which are described as shale, carbonaceous claystone, laminite and fine to medium-grained lithic sandstone.

3.2 Acid Sulfate Soil (ASS) Risk Planning

The LEP 2012 does not include an Acid Sulfate Soils (ASS) risk map for this area however the Prospect/Parramatta River ASS Risk Map indicates the Site is in an area of no known occurrences of ASS. There is a low probability for ASS at the Site.

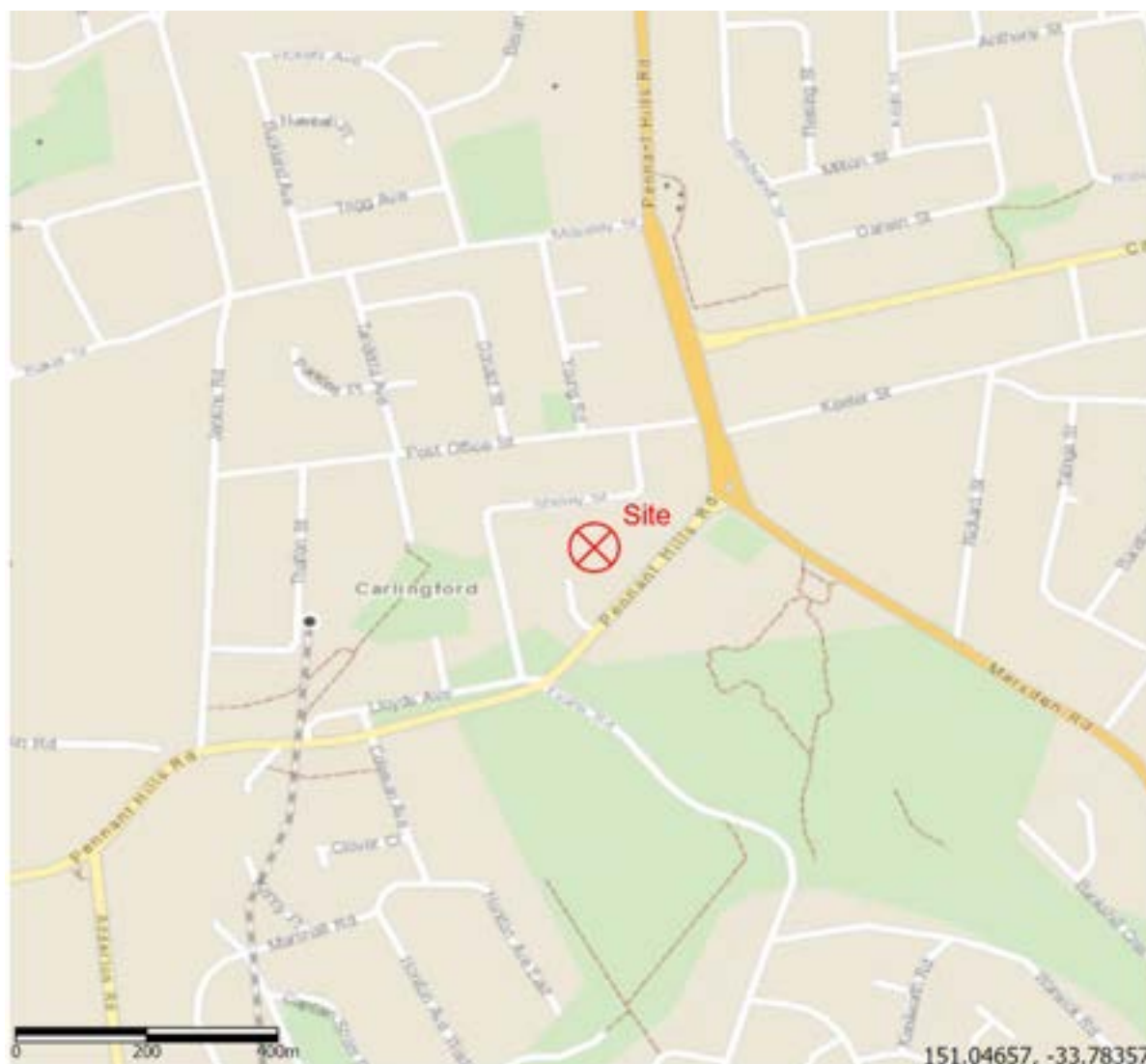
3.3 Hydrology

The nearest surface water body to the Site is the Hunts Creek located approximately 950m to the north-west of the Site. The Hunts Creek is a tributary of Lake Parramatta.

The Australian Groundwater Explorer data base shows that there is a register bore located approximately 820m to the north of the Site and a cluster of three groundwater bores located 530m to the north of the Site. The cluster of bores is assumed to be at a service station site and used for groundwater quality monitoring.

An extract from the Australian Groundwater Explorer is presented in Figure 3.1 – Bore Locations. Registered bores are represented by grey dots on this figure.

Figure 3.1 – Bore Locations



4.0 DATA QUALITY OBJECTIVES

The Data Quality Objective (DQO) process is a systematic, seven-step process that defines the criteria an investigation should satisfy including: the type, quantity and quality of data required to support decisions relating to the investigation. DQOs for this investigation have been developed based on the seven-step approach in accordance with the NSW DEC Guidelines for the NSW Site Auditor Scheme (3rd Edition), 2017. The DQOs incorporate field quality control and laboratory analysis, methods and information on laboratory quality control data and validate the field and analytical data for this investigation. The DQOs are presented in detail in the following sections.

Step 1 - State the Problem

The assessment for potential contamination should be undertaken in general accordance with the NSW EPA Guidelines for Consultants Reporting on Contaminated Sites 2020. This

requires a review of historical Site usage to evaluate the potential for the former uses to result in contamination and then, where there is the potential for impact, an intrusive investigation should be undertaken, and appropriate management strategies implemented.

The investigation needs to evaluate for contamination resulting from past activities that may preclude future development and use of the Site.

Step 2 - Identify the Decisions

The assessment for contamination is based on the known historic uses of the land. The decisions associated with this assessment include:

- Would historic land uses result in contamination that may preclude the proposed residential development and land use;
- Is the Site suitable for the proposed residential land use?

Step 3 - Identify Inputs to the Decision

The inputs required to make the identified decisions include:

- Data regarding the regional and local conditions;
- Historical records and air photographs;
- Site inspection; and
- Methodical soil sampling.

Step 4 - Define the Study Boundary

The boundaries for this assessment have been identified as follows:

- Spatial boundaries – the Site area.

Step 5 - Develop a Decision Rule

The decision rules for this investigation are:

- If the Site history and sampling activities indicate Site contamination, then further assessment or management will be required.

Step 6 - Specify Limits on Decision Errors

The acceptable limits on decision errors to be applied in this assessment and the manner of addressing possible decision errors are limited to the Site setting and sample analysis results. The incorrect consideration of background information and analytical results has the potential to conclude that the Site is contaminated when it is not or alternatively, conclude the Site is not contaminated when it actually is. To provide more certainty to the conclusion regarding the contamination status of the Site, both the background information and the analytical results will be jointly evaluated.

The continuity and understanding of past Site activities provides the basis for the Site sampling plan. Where there is uncertainty or indications of the potential for contamination, sampling needs to be undertaken.

The sampling at the Site needs to address the findings of the background data review and needs to include sufficient sampling locations and depths, utilise appropriate field sampling

methodologies, review suitable data quality indicators (DQIs) and quality assessment procedures and incorporate appropriate data evaluation procedures such as the use of 95 percent upper confidence limit (95% UCL) calculations.

Step 7 - Optimise the Design for Obtaining Data

The data sources for this assessment are historic records that have been maintained and that are readily available and soil samples that are from methodical sampling locations established in the preliminary sampling plan.

The sampling plan prepared for this investigation considered the Site setting but was established prior to the review of the Site history. A methodical sampling pattern incorporating the collection of composite samples was established as the preliminary sampling plan to evaluate near surface soil conditions.

The density of sampling considered the NSW EPA (1995) Sampling Design Guidelines and the sampling depth intervals set to assess surface soil. Near surface soils were considered the primary indicators for significant impact.

5.0 HISTORY REVIEW

To evaluate the development history of the Site selected accessible information was reviewed and a Lotsearch report was undertaken acquiring historical aerial photographs and historical business records. As the Site is comprised of several lots, the Lotsearch report focused on the lot that accounts for the largest portion of the Site described as Lot 1 in DP 1219291.

5.1 Regional History

Following European settlement, Carlingford was a farming area which predominately involved the establishment of orchards. In the years after World War II, the rapid expansion of Sydney saw the farms and orchards of the Carlingford area gradually subdivided into suburban lots. In the 1990's, the government policy of urban consolidation has seen the development of high-density units and apartment blocks around railway station which is approximately 500m to the west of the Site.

5.2 Aerial Photographs

Aerial photographs dating back to 1943 were reviewed to evaluate development on the Site. Table 5.1 summarises the features observed on the historic aerial photographs. Copies of the aerial photographs are included in Appendix 1.

Table 5.1 – Aerial Photographs

| Date | Site Feature | Surrounding Area |
|-------------|--|--|
| 1930 | The majority of the Site is vacant with the exception of three residential premises. There is one large house in the north-western corner of the Site and two houses on the Site with frontage to Pennant Hills Road. There is also a driveway that crosses the Site leading to a large house to the north. | The surrounding area it appears to be open space with some housing and potentially a localised shopping centre to the north of the Site. There appears to be orchards to the south-east of the Site and crop farming to the north-east. There are residential properties along Pennant Hills Road to the east of the Site. There appears to be large buildings to the north-west of the Site which are potentially a chicken farm. |
| 1943 | There are more residential properties on the Site with frontage to Pennant Hills Road. There is a residential dwelling on the south-western corner of the Site, and it appears the property is used for small-scale market farming with orchards and two shed-type structures on the property. The central portion of the Site remains mostly vacant except for the driveway that enters the Site from Pennant Hills Road and running north across the Site. This driveway is assumed to be the present Janell Crescent. | There appears to have been more residential development in the surrounding area, however, the predominate land use remains to be agricultural. |
| 1951 | The layout of property on the south-western corner of the Site has been altered with more sheds having been constructed and the orchards removed. More houses have been erected along Pennant Hills Road. | The surrounding land use remains relatively unchanged from the 1943 aerial photograph. |
| 1956 | More residential dwellings have been erected along Pennant Hills Road. The residential dwelling in the north-western corner of the Site appears to have been demolished and two smaller dwellings erected. | There has been more residential development on the land surrounding the Site. The Carlingford Bowling Club has been constructed to the south of the Site. |
| 1961 | Additional houses have built around the perimeter of the Site and Janell Crescent has been reconstructed entering the Site from Pennant Hills Road. | The surrounding area has undergone significant residential development which appears to be mostly low-density residential dwellings. There is open land to the south-east of the Site. |
| 1965 | Additional houses have been erected on the centre of the Site at the end of Janell Crescent. | It appears an area north of the Site is undergoing residential development. |
| 1970 | The Site remains relatively unchanged from the 1965 aerial photograph. | There appears to be commercial properties to the north of the Site. |
| 1978 | The Site remains relatively unchanged from the 1970 aerial photograph. | There has been further commercial development to the east and north of the Site. |
| 1982 | The Site remains relatively unchanged from the 1978 aerial photograph. | The surrounding land use remains relatively unchanged from the 1978 aerial photograph. |
| 1986 | The Site remains relatively unchanged from the 1982 aerial photograph. | The surrounding land use remains relatively unchanged from the 1982 aerial photograph. |
| 1991 | The Site remains relatively unchanged from the 1986 aerial photograph. | There appears to have been residential redevelopment to the south-east of the Site across Pennant Hills Road with medium-density blocks of apartments. |
| 1994 | The Site remains relatively unchanged from the 1991 aerial photograph. | There appears to have been residential redevelopment to the north of the Site with medium-density blocks of apartments. |
| 2000 | The Site remains relatively unchanged from the 1994 aerial photograph. | There has been further medium-density residential development to the north of the Site. |
| 2009 | The Site remains relatively unchanged from the 2000 aerial photograph. | There appears to have been residential redevelopment to the west and north of the Site across Shirley Street with medium-density blocks of apartments. |

| | | |
|------|--|---|
| 2015 | Two residential dwellings along the north-eastern end of Shirley Street have been demolished and the land has been left vacant. | The surrounding land has undergone further medium and high-density redevelopment and commercial redevelopment has been undertaken to the north-east of the Site. |
| 2020 | The residential dwellings on the Site have been demolished, vegetation has been cleared and the Site is mostly vacant with the exception of a cluster of residential properties along Pennant Hills Road. Janell Crescent has also been demolished and an unsealed access road entering the Site from Pennant Hills Road has taken its place. It appears a development has begun in the northern corner of the Site with the establishment of foundations which are still present on the Site today. | The surrounding land has undergone further medium and high-density redevelopment transforming the land use of the surrounding area being predominately medium and high-density residential. |

5.3 Historical Business Records

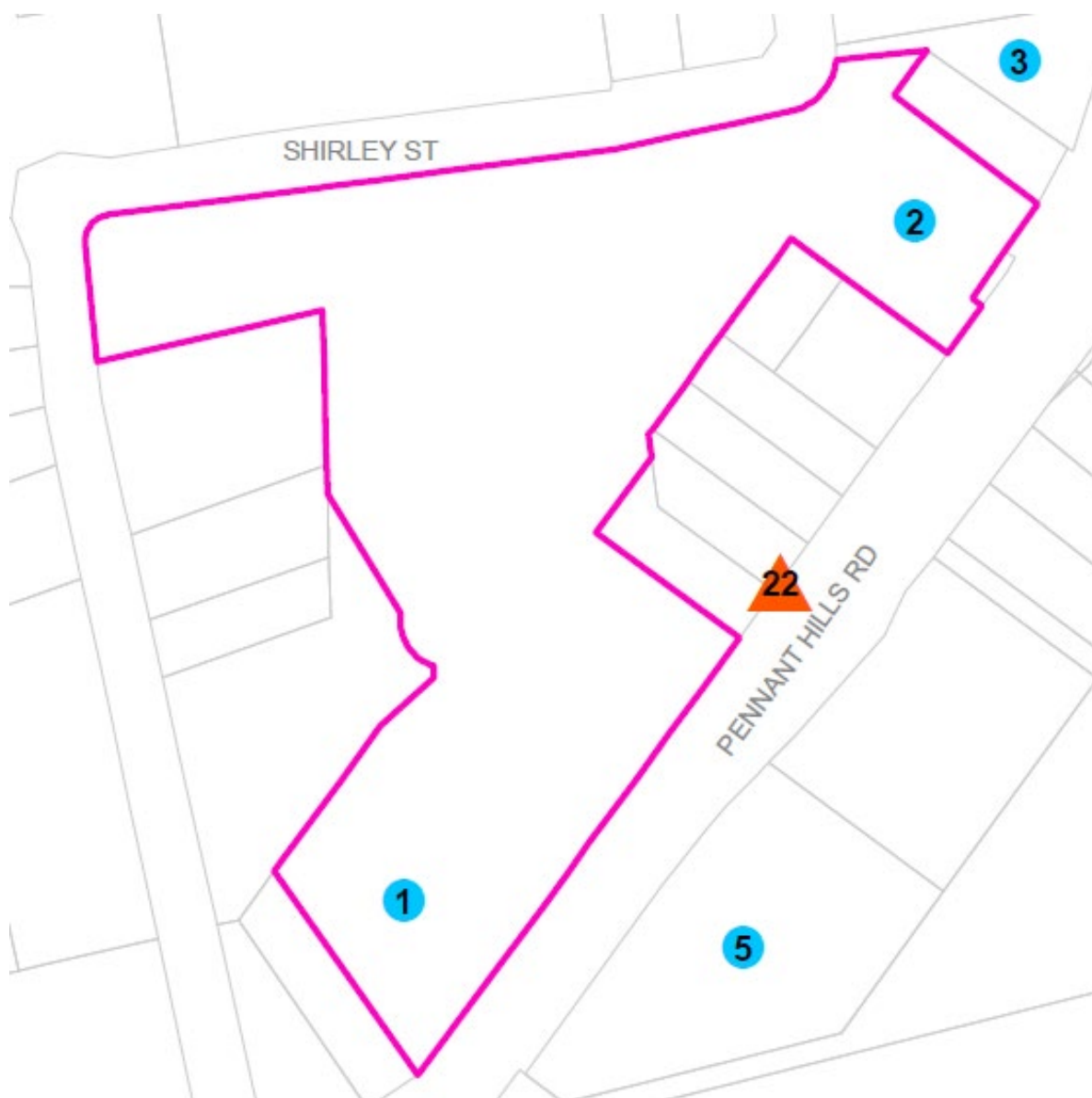
A review of the historical business records for Lot 1 in DP 1219291 indicating ownership of the land between 1950 and 1991 is presented in Table 5.2 – Historical Business Records. A copy of the records for the Site is included in Appendix 1.

The historical business records reveal two locations have been used for commercial and retail activities. These properties are represented by locations 1 and 2 shown on Figure 5.1 – Historical Business Locations.

Table 5.2 – Historical Business Records

| Location ID | Date of Acquisition | Registered Business & Activities | Premise |
|-------------|---------------------|---|-------------------------------------|
| 1 | 1982 | Carlingford Florist – Florists (Retail) | 249 Pennant Hills Road, Carlingford |
| 2 | 1961 | McConnell's Towing Service – Motor Towing | 279 Pennant Hills Road, Carlingford |
| | 1965 | McConnell's Towing Service – Motor Towing | 279 Pennant Hills Road, Carlingford |

Figure 5.1 – Historical Business Locations



5.4 History Summary

The aerial photographs reveal the Site has historically been used primarily for residential purposes. From 1965, the Site was completely developed with residential properties and it remained this way until 2015 when two homes were demolished. The removal of most of the buildings on Site occurred between 2015 and 2020 and potential redevelopment in the northern corner of the Site commenced.

The historical records reveal two locations on the Site were used for commercial/retail purposes, however, at the time of ownership, only residential properties were present on the Site at these locations so it is concluded these were the registered addresses for small/domestic based businesses that are unlikely to result in significant land contamination.

5.5 NSW EPA Records

The Lotsearch report included a review of the NSW Environment Protection Authority (EPA) databases was conducted including the following:

- Records maintained in relation to contaminated land under Section 58 of the CLM Act 1997;
- Records of sites notified to the EPA in accordance with the Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997 (2015); and
- Licensed activities under the Protection of the Environment Operations Act (1997).

This review indicated the presence of one Site in Carlingford regulated under the Contaminated Land Management Act 1997. Details of the contaminated property are included in Table 5.3 – Notified Sites.

Table 5.3 – Notified Sites

| Address | Facility | Management Class | Status | Direction & Distance |
|-------------------------------------|------------------------|--|------------------|----------------------|
| 797 Pennant Hills Road, Carlingford | Caltex Service Station | Regulations under the CLM Act not required | Current EPA List | ~400 m north |

The Site, known as Lot 1 in DP1219291, was subject to a Clean-up Notice by NSW EPA under the *Protection of the Environment Operations Act 1997*. The Clean-up Notice was issued in February 2019 under the findings that a pollution incident occurred on the Site in relation to the disposal of waste materials on Site, including asbestos waste.

On 4th November 2020 the EPA confirmed that the Clean-up Notice was complied with and asbestos waste was removed from the Site and disposed of at a lawful facility. A copy of documents in relation to the Clean-up Notice are included in Appendix 2.

6.0 CONCEPTUAL SITE MODEL

The potential for Site contamination is reflective of past use of the land. The document entitled *Managing Land Contamination: Planning Guidelines State Environmental Planning Policy No. 55 – Remediation of Land* (Department of Urban Affairs and Planning & Environment Protection Authority 1998) presents a list of activities that are considered likely to result in site contamination. This list forms a reasonably good screening tool to evaluate some past uses that are likely to potentially contaminate land. However, this list is not considered to be comprehensive and it is recognized that site specific activities also need to be evaluated.

The history indicates that the Site has been predominantly developed for residential purposes which is generally not considered to result in significant contamination and is not included on this list.

Early land use may have included some agricultural activities including an orchard and recently the Site has received some waste material. The EPA had indicated waste material on Site to be contaminated with asbestos and issued a Clean Up Notice. The clean up through the removal of waste material was completed to the satisfaction of the EPA.

The potential Areas of Environmental Concern (AEC) and Contaminants of Potential Concern (CoPC) relevant to the Site are summarised on Table 6.1 – Contaminants of Concern. Included in this table is an evaluation of the likelihood based on the Site history.

Table 6.1 – Contaminants of Concern

| Source/AEC | CoPC | Impacted Medium | Likelihood |
|---|--|-----------------|------------|
| <u>Hazardous Building Material</u> – Hazardous building materials may be present as a result of former building and demolition activities. These materials may also be present in the remaining buildings/structures on site. | Asbestos and lead | Soil | Moderate |
| <u>Use of pesticides</u> – Pesticides may have been used beneath the buildings and/or around the site. | Heavy metals and OCP | Soil | Low |
| <u>Fill material</u> – Importation of fill material used to establish Site grades. | Heavy metals, TRH/BTEX, PAHs, OCP and Asbestos | Soil | Low |
| <u>Importation of waste material to the Site</u> – The Site has been issued a Clean Up Notice by the EPA regarding asbestos contaminated waste material on the Site. | Asbestos | Soil | Low |

Notes: TRH – Total Recoverable Hydrocarbons
 BTEX – Benzene, toluene, ethylbenzene and xylene
 PAH – Polycyclic Aromatic Hydrocarbons
 OCP – Organochlorine Pesticides
 Heavy Metals - Arsenic, Cadmium, Chromium, Lead, Nickel, Copper, Mercury, Zinc

Based on the significant demolition that has historically occurred on the Site and the recent importation of waste material to the Site, some preliminary soil sampling was undertaken.

7.0 SITE ASSESSMENT PLAN

Four potential areas of environmental concern have been identified associated with potential Site usage. To evaluate for contamination and for the presence of fill/quality of the following scope of work was undertaken:

- Inspection of the Site to confirm the presence of fill on the Site surface and to assess stockpiles on the Site;
- Excavation of 36 shallow test pit in a methodical grid pattern across the Site;
- The preparation of 9 composite samples of the surface soil/fill material each consisting of 4 adjoining discrete and samples;
- The collection of a soil sample from a stockpile at the northern end of the Site;
- The collection of a sample of the imported recycled material used to establish the access road entering the Site from Shirley Street; and
- The analysis of all soil samples for common contaminants.

The rationale for environmental sampling locations was based on the probability that surface impact may have resulted from farming, demolition activities and filling the Site. The sampling density was established based on the *Sampling Design Guidelines* (NSW EPA 1995).

7.1 Site Inspection

At the time of the inspection the majority of the Site was vacant with the exception of the residential properties with frontage to Pennant Hills Road. The surface soils across the Site appear to mostly consist of disturbed natural clays sourced from the Site. The Site is mostly cleared of vegetation, however, weeds and grasses are established in south-western and north-western ends of the Site. Remnants of demolition waste are evident across the surface of the Site. Some household rubbish was noted near the southern boundary of the Site.

The Site inspection did identify isolated fragments of potential Asbestos Containing Material (ACM) on the fill material at the central portion of the Site and at the north-western corner of the Site.

7.2 Assessment Method

The sampling plan prepared for this investigation considered the Site history and the Site setting. A methodical sampling pattern was established to evaluate near surface soil conditions. The density of sampling considered the NSW EPA Sampling Design Guidelines. The number of sampling locations is marginally below the density listed in the Sampling Design Guidelines due to access limitations associated with the remaining residential properties. However, area that were not samples are currently used for residential purposes and not considered likely to be significantly contaminated.

To characterise the surface soils and fill material across the Site and also the underlying natural soil, 36 shallow test pits were excavated by an excavator. Soils samples were collected from each test pit targeting the observed surface fill material or the surface natural soil where no fill was present.

The Site was divided into 11 sections each having similar areas. Two of these sections were occupied by the dwelling along Pennant Hills Road and were excluded from the sampling activities. The remaining 9 sections were sampled with four samples collected from each section.

The soil samples were collected in groups of four from each section of the Site and mixed in equal proportions to form composite samples. Each composite sample was then transferred into a laboratory prepared sample jar. All sample locations were recorded in the field and composite samples were logged onto a chain of custody.

Sample locations were numbered 1 to 36 and composite samples numbered A1 to A9. In addition, one duplicate sample was prepared and labelled D. The locations of the test pits and the areas that comprised four composite samples are presented on Figure 7.1 – Sample Location Plan. The subsurface conditions encountered at each location are summarised in Table 7.1 – Test Pit Descriptions and the samples are described in Table 7.2 – Sample Schedule.

Figure 7.1 – Sample Location Plan

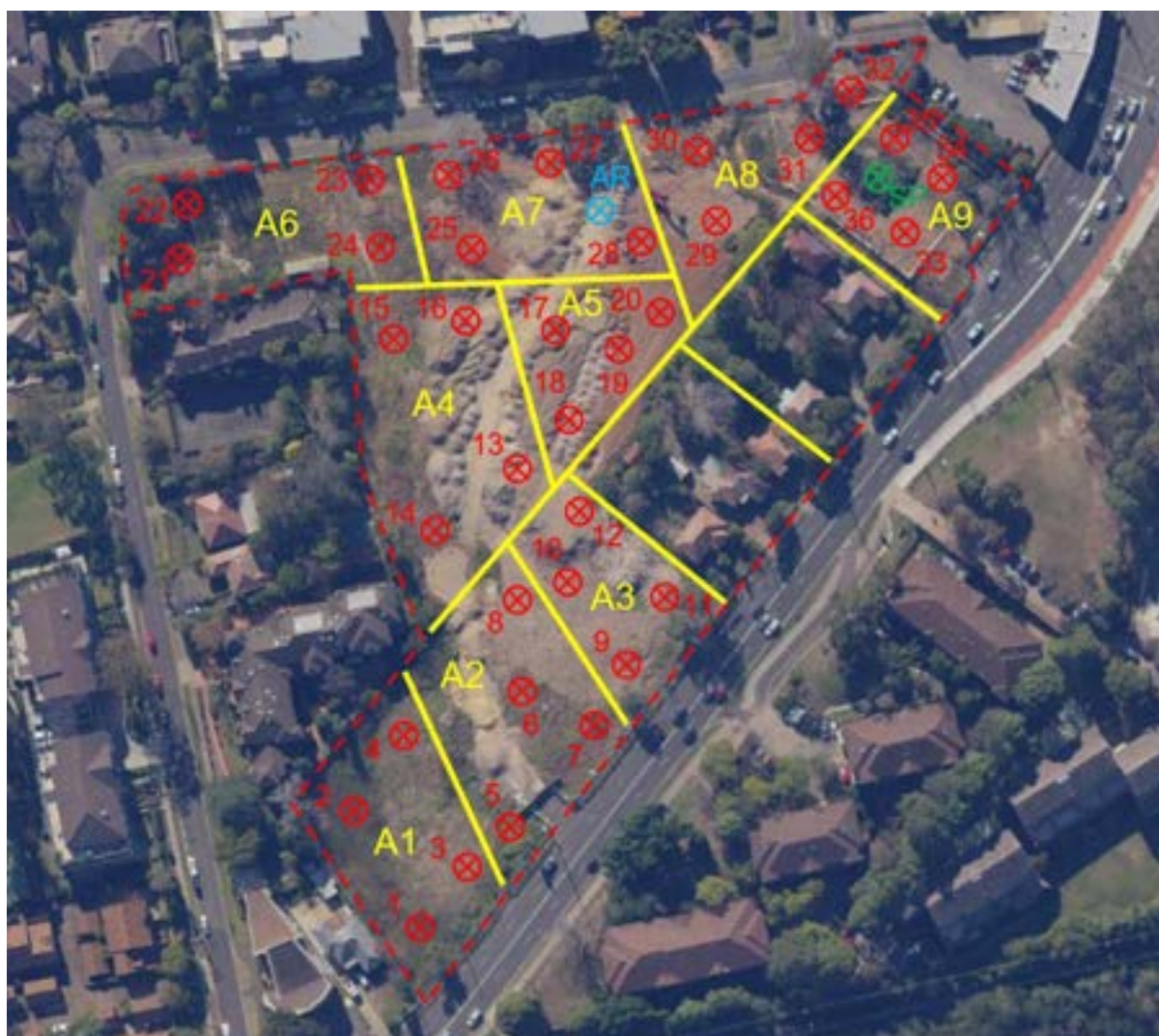


Table 7.1 – Test Pit Descriptions

| Test Pit Numbers | Depth (m) | Description |
|------------------|-----------|---|
| 1 | 0-0.3 | Silty Clay – Orange brown |
| 2 | 0-0.3 | Silty Clay – Red brown |
| 3 | 0-0.3 | Silty Clay – Red brown |
| 4 | 0-0.3 | Silty Clay – Red brown |
| 5 | 0-0.1 | Fill – Pale brown disturbed natural some gravel and concrete |
| | 0.1-0.3 | Topsoil – Dark brown/black |
| | 0.3-0.5 | Silty Clay – Red brown |
| 6 | 0-0.1 | Fill – Pale brown disturbed natural some ash, brick and ceramic pipe |
| | 0.1-0.2 | Topsoil – Dark brown/black |
| | 0.2-0.4 | Silty Clay – Red brown |
| 7 | 0-0.3 | Fill – Yellow brown/red brown/grey disturbed natural clay (most likely ex-situ deep clay) |
| | 0.3-0.5 | Topsoil – Dark brown/black |
| | 0.5-0.6 | Silty Clay – Red brown |
| 8 | 0-0.2 | Fill – Dark brown disturbed natural topsoil some glass, brick, ceramic |
| | 0.2-0.4 | Silty Clay – Red brown |
| 9 | 0-0.2 | Fill – Grey disturbed natural clay (most likely ex-situ deep clay) |
| | 0.2-0.4 | Topsoil – Dark brown/black |
| | 0.4-0.5 | Silty Clay – Brown |
| 10 | 0-0.15 | Fill – Red brown/grey disturbed natural clay (most likely ex-situ deep clay) |

| Test Pit Numbers | Depth (m) | Description |
|------------------|-----------|--|
| | 0.15-0.5 | Topsoil – Dark brown/black |
| | 0.5-0.6 | Silty Clay – Red brown |
| 11 | 0-0.2 | Fill – Grey brown disturbed natural clay some tile, glass and brick with shale across surface |
| | 0.2-0.4 | Topsoil – Dark brown/black |
| | 0.4-0.5 | Silty Clay – Brown |
| | | |
| 12 | 0-0.2 | Fill – Grey brown disturbed natural clay (most likely ex-situ deep clay) some concrete |
| | 0.2-0.4 | Topsoil – Dark brown/black |
| | 0.4-0.5 | Silty Clay – Brown |
| 13 | 0-0.3 | Fill – Grey brown disturbed natural clay (most likely ex-situ deep clay) some concrete |
| | 0.3-0.8 | Topsoil – Dark brown/black |
| | 0.8-0.9 | Silty Clay – Brown |
| 14 | 0-0.1 | Fill – Grey brown disturbed natural clay some ceramic pipe and concrete (potential ACM fragment observed adjacent to TP14) |
| | 0.1-0.3 | Silty Clay – Brown |
| 15 | 0-0.1 | Fill – Grey brown disturbed natural clay some ash and ceramic |
| | 0.1-0.3 | Silty Clay – Brown |
| 16 | 0-0.05 | Fill – Grey brown disturbed natural clay some brick with weathered shale fragments across surface |
| | 0.05-0.2 | Silty Clay – Red brown |
| 17 | 0-0.05 | Fill – Grey brown disturbed natural clay some brick with weathered shale fragments across surface |
| | 0.05-0.2 | Silty Clay – Red brown |
| 18 | 0-0.1 | Fill – Pale grey brown disturbed natural clay some gravel with weathered shale fragments across surface |
| | 0.1-0.3 | Silty Clay – Red brown |
| 19 | 0-0.05 | Fill – Grey brown disturbed natural clay |
| | 0.05-0.2 | Silty Clay – Red brown |
| 20 | 0-0.1 | Fill – Grey brown disturbed natural clay some ceramic with weathered shale fragments across surface (potential ACM fragment observed adjacent to TP20) |
| | 0.1-0.3 | Silty Clay – Red brown |
| 21 | 0-0.4 | Fill – Brown disturbed natural clay some plastic, tile, and brick |
| | 0.4-0.6 | Topsoil – Dark brown/black |
| | 0.6-0.7 | Silty Clay – Brown |
| 22 | 0-0.2 | Fill – Grey brown disturbed natural clay some sandstone |
| | 0.2-0.5 | Topsoil – Dark brown/black |
| | 0.4-0.5 | Silty Clay – Red brown |
| 23 | 0-0.2 | Fill – Brown disturbed natural clay, trace yellow sand |
| | 0.2-0.3 | Silty Clay – Red brown |
| 24 | 0-0.3 | Fill – Pale grey brown disturbed natural clay some timber, weathered slate, and gravel |
| | 0.3-0.4 | Silty Clay – Red brown |
| 25 | 0-0.2 | Fill – Pale grey brown disturbed natural clay some gravel |
| | 0.2-0.4 | Silty Clay – Red brown |
| 26 | 0-0.05 | Fill – Grey brown disturbed natural clay some gravel, plastic, and sandstone |
| | 0.05-0.15 | Topsoil – Dark brown/black |
| | 0.15-0.25 | Silty Clay – Red brown |
| 27 | 0-0.1 | Fill – Grey brown disturbed natural clay some gravel, brick, and ceramic pipe |
| | 0.1-0.3 | Silty Clay – Red brown |
| 28 | 0-0.05 | Fill – Grey brown disturbed natural clay some gravel and brick |
| | 0.05-0.15 | Topsoil – Dark brown/black |
| | 0.15-0.3 | Silty Clay – Red brown |
| 29 | 0-0.2 | Fill – Grey brown disturbed natural clay some concrete |
| | 0.2-0.4 | Silty Clay – Red brown |
| 30 | 0-0.1 | Fill – Grey brown disturbed natural clay some vermicular |
| | 0.1-0.2 | Silty Clay – Red brown |
| 31 | 0-0.7 | Fill – Grey brown disturbed natural clay some concrete |
| | 0.7-0.8 | Silty Clay – Yellow brown |
| 32 | 0-0.1 | Fill – Grey brown disturbed natural clay (potential ACM pipe observed adjacent to TP32) |
| | 0.1-0.2 | Topsoil – Dark brown/black |
| | 0.2-0.4 | Silty Clay – Red brown |
| 33 | 0-0.2 | Silty Clay – Orange brown with some with weathered shale fragments across surface |

| Test Pit Numbers | Depth (m) | Description |
|------------------|-----------|---|
| 34 | 0-0.4 | Fill – Grey brown disturbed natural clay some shale fragments |
| | 0.4-0.5 | Claystone – Grey/red brown becoming highly weathered shale |
| 35 | 0-0.6 | Fill – Grey brown disturbed natural clay some shale fragments |
| | 0.6-0.8 | Silty Clay – Red brown |
| 36 | 0-0.3 | Fill – Grey brown disturbed natural clay some shale fragments |
| | 0.3-0.4 | Silty Clay – Red brown |

Table 7.2 – Sample Schedule

| Composite Sample Number | Medium | Sample Locations | Sample Interval (m) | Material |
|-------------------------|----------|------------------|---------------------|---|
| A1 | Soil | 1 | 0-0.3 | Silty Clay – Orange brown |
| | | 2 | 0-0.3 | Silty Clay – Red brown |
| | | 3 | 0-0.3 | Silty Clay – Red brown |
| | | 4 | 0-0.3 | Silty Clay – Red brown |
| A2 | Soil | 5 | 0-0.1 | Fill – Pale brown disturbed natural clay |
| | | 6 | 0-0.1 | Fill – Pale brown disturbed natural clay |
| | | 7 | 0-0.3 | Fill – Yellow brown/red brown/grey disturbed natural clay |
| | | 8 | 0-0.2 | Fill – Dark brown disturbed natural topsoil |
| A3 | Soil | 9 | 0-0.2 | Fill – Grey disturbed natural clay |
| | | 10 | 0-0.15 | Fill – Red brown/grey disturbed natural clay |
| | | 11 | 0-0.2 | Fill – Grey brown disturbed natural clay |
| A4 | Soil | 12 | 0-0.2 | Fill – Grey brown disturbed natural clay |
| | | 13 | 0-0.3 | Fill – Grey brown disturbed natural clay |
| | | 14 | 0-0.1 | Fill – Grey brown disturbed natural clay |
| | | 15 | 0-0.1 | Fill – Grey brown disturbed natural clay |
| A5 | Soil | 16 | 0-0.05 | Fill – Grey brown disturbed natural clay |
| | | 17 | 0-0.05 | Fill – Grey brown disturbed natural clay |
| | | 18 | 0-0.1 | Fill – Pale grey brown disturbed natural clay |
| | | 19 | 0-0.05 | Fill – Grey brown disturbed natural clay |
| A6 | Soil | 20 | 0-0.1 | Fill – Grey brown disturbed natural clay |
| | | 21 | 0-0.4 | Fill – Brown disturbed natural clay |
| | | 22 | 0-0.2 | Fill – Grey brown disturbed natural clay |
| | | 23 | 0-0.2 | Fill – Brown disturbed natural clay, trace yellow sand |
| A7 | Soil | 24 | 0-0.3 | Fill – Pale grey brown disturbed natural clay |
| | | 25 | 0-0.2 | Fill – Pale grey brown disturbed natural clay |
| | | 26 | 0-0.05 | Fill – Grey brown disturbed natural clay |
| | | 27 | 0-0.1 | Fill – Grey brown disturbed natural clay |
| A8 | Soil | 28 | 0-0.05 | Fill – Grey brown disturbed natural clay |
| | | 29 | 0-0.2 | Fill – Grey brown disturbed natural clay |
| | | 30 | 0-0.1 | Fill – Grey brown disturbed natural clay |
| | | 31 | 0-0.7 | Fill – Grey brown disturbed natural clay |
| A9 | Soil | 32 | 0-0.1 | Fill – Grey brown disturbed natural clay |
| | | 33 | 0-0.2 | Silty Clay – Orange brown |
| | | 34 | 0-0.4 | Fill – Grey brown disturbed natural clay |
| | | 35 | 0-0.6 | Fill – Grey brown disturbed natural clay |
| D Duplicate A8 | Soil | 36 | 0-0.3 | Fill – Grey brown disturbed natural clay |
| | | 29 | 0-0.2 | Fill – Grey brown disturbed natural clay |
| | | 30 | 0-0.1 | Fill – Grey brown disturbed natural clay |
| | | 31 | 0-0.7 | Fill – Grey brown disturbed natural clay |
| SP | Soil | Stockpile in A9 | 0-2.0 | Fill – Pale grey brown/red brown disturbed natural clay |
| AR | Soil | Access Road | 0-0.1 | Fill – Pale grey brown silty clay some brick, tiles, and ceramic pipe (recycled material) |
| A4B | Material | TP14 | - | Potential ACM |

7.3 Quality Plan

The quality assurance / quality control (QA/QC) procedures adopted during this assessment included: field decontamination protocols; sample labelling storage and handling methodologies.

Field decontamination involved rinsing of sampling equipment with potable water. All samples were labelled in the field with the sample location recorded. One duplicate sample was collected. The duplicate sample was assigned sample identification D and was collected from the same locations as A8.

The analytical laboratory also conducted a QA/QC program. This program included; the analysis of one blank sample and one spiked sample with every batch of samples tested; and the repeat analysis of the approximately 10% of the samples. The results of this QA/QC program are within the data quality objectives.

8.0 ASSESSMENT GUIDELINES

The NSW Environment Protection Authority (EPA) has issued a number of guidelines relevant to the concentration of contaminants in soil. These are used in conjunction with the National Environmental Protection Council (NEPC) - National environment protection (assessment of site contamination) measure 2013.

The Site Assessment Criteria that have been used to evaluate surface soils are based on the National Environment Protection Measure (NEPM) for the Assessment of Site Contamination (NEPM 2013).

These Site Criteria are not derived as acceptance criteria for contamination at a site, but as levels above which specific consideration of risk, based on the site use and potential exposure, is required. If a risk is determined as present, then remediation and/or management must be undertaken.

The Site Criteria within the NEPM are based on potential impact to human health and are intentionally conservative. The health investigation levels (HIL) have been derived for four (4) generic land use settings;

- HIL 'A' Residential with garden/ accessible soil (home grown produce <10% fruit and vegetable intake (no poultry). This category includes children's day care centres, preschools and primary schools.
- HIL 'B' Residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high rise buildings and flats.
- HIL 'C' Public open space such as parks, playgrounds, playing fields (e.g. ovals) secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves).
- HIL 'D' Commercial/industrial such as shops, offices, factories and industrial sites.

Health Screening Levels (HSLs) for various petroleum hydrocarbon compounds have also been developed. The HSLs also relate to the land use (consistent with the HILs) and are dependent on soil type and depth.

The land use at this Site following sale is proposed to be residential with minimal for soil access based on the setting of the surrounding area so HILs that will be used for this assessment are HIL B levels. Consistent with the HILs, HSLs for residential land use (HSL A & B) with clayey

soils have been adopted for the relevant SAC. These criteria are summarised on Table 8.1 – Site Assessment Criteria.

Table 8.1 – Site Assessment Criteria

| Contaminant | Site Assessment Criteria (mg/kg) |
|---|----------------------------------|
| Heavy Metals | |
| Arsenic | 500 |
| Cadmium | 150 |
| Chromium | 500 |
| Copper | 30 000 |
| Lead | 1200 |
| Mercury | 120 |
| Nickel | 1200 |
| Zinc | 60 000 |
| Total Recoverable Hydrocarbons (TRH) | |
| Naphthalene | 5 ¹ |
| TRH C6-C10 (F1) | 50 ¹ |
| TRH C10-C16 (F2) | 280 ¹ |
| Monocyclic Aromatic Hydrocarbons | |
| Benzene | 0.7 ¹ |
| Toluene | 480 ¹ |
| Ethylbenzene | NL ¹ |
| Xylene (Total) | 110 ¹ |
| Polycyclic Aromatic Hydrocarbons (PAH) | |
| Benzo(a)pyrene | 4 ² |
| Total PAH | 400 ² |
| Organochlorine Pesticides | |
| DDT+DDE+DDD | 600 |
| Aldrin and dieldrin | 10 |
| Chlordane | 90 |
| Endosulfan | 400 |
| Endrin | 20 |
| Heptachlor | 10 |
| HCB | 15 |
| Methoxychlor | 500 |
| Mirex | 20 |
| Toxaphene | 30 |
| Asbestos | |
| Bonded | 0.04% |

Notes: NL – Not Limiting
 1. Health screening levels for clay soils over the depth interval 0-1m.
 2. Carcinogenic PAHs based on the 8 carcinogenic PAHs.

9.0 DISCUSSION

9.1 Site Conditions

Soil conditions encountered across the Site consisted of disturbed natural clay conditions with a thickness of 0.3m at most locations with the exception of one test pit (TP31) which encountered a depth of 0.7m. Topsoil was encountered between depths of 0.2-0.8m, however, the topsoil had been stripped in some locations. The natural underlying material consisted of red brown silty clays.

Fragments of potential Abestos Containing Material (ACM) in the form of cement sheeting were observed on the surface of disturbed natural clay in a few locations across the Site (nearby TP14, TP20, TP32). One fragment of cement sheeting was also observed in the stockpile at the northern end of the Site (area A9).

An access road has been constructed entering the Site from Shirley Street. The gravel utilised to establish the road consisted of recycled material including brick, ceramic pipe and tiles.

9.2 Sample Analysis Results

The results of analysis of the soil samples are presented on Table 9.1 – Summary of Results and the laboratory reports are included in Appendix 3.

The results of analysis of the composite soil samples indicated concentrations of CoPC below the Site Assessment Criteria (SAC) and generally below the laboratory level of reporting for hydrocarbon contaminants.

The results of the analysis of soil samples indicate concentrations of heavy metals below SAC and at concentration that are generally expected to be background levels with the following exceptions:

- The lead concentrations in composite samples A2, A5, A6 and A7 of 75mg/kg, 65mg/kg, 100mg/kg and 81mg/kg, respectively. However, concentrations did not exceed SAC.
- The zinc concentrations in composite samples A2, A5, A6, A7, A8 and the sample from the access road AR were 100mg/kg, 130 mg/kg, 93 mg/kg, 180 mg/kg, 83 mg/kg and 240 mg/kg, respectively. However, concentrations did not exceed SAC.

The results of the analysis indicate concentrations of hydrocarbons below the SAC and generally below the laboratory level of reporting with the exception of composite sample A6 which detected benzo(a)pyrene and total PAH concentrations of 1.3mg/kg and 7mg/kg, respectively. However, concentrations did not exceed SAC.

The results of the analysis indicate concentrations of organochlorine pesticides (OCP) below the SAC and generally below the laboratory level of reporting with the exception of composite sample A6 which detected combined aldrin and dieldrin concentrations of 0.73mg/kg. However, concentrations did not exceed SAC.

The preparation of the composite samples included the mixing of four discrete samples. This method of sampling indicates concentrations across the designated sections of the Site. However, to further evaluate for a potential hot spot, the results of analysis were considered using one quarter of the Site Assessment Criteria (to account for the potential dilution of concentrations in discrete sample from preparation of the composite samples).

Results of soil sample analysis were generally below one quarter of the SAC with the exception of benzo(a)pyrene in composite sample A6 having a concentration of 1.3mg/kg exceeding a quarter of the SAC which is 1mg/kg. This concentration could represent a localised hotspot of benzo(a)pyrene, however, representing the whole area of A6, the concentration is not considered to represent significant contamination.

One sample of ACM was collected from the surface of the filled area near TP14 (labelled A4B) and submitted for asbestos analysis which confirmed the presence of chrysotile, amosite and crocidolite asbestos in the fragment.



Table 9.1 – Summary of Soil Results

| Sample Number | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | D | SP | AR | SAC | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|---------------------|
| | | | | | | | | | | | | | HIL B & HSL A/B | ¼ (HIL B & HSL A/B) |
| Heavy Metals | | | | | | | | | | | | | | |
| Arsenic | 13 | 9.5 | 8.8 | 5.9 | 17 | 4.7 | 11 | 11 | 11 | 9.7 | 13 | 7.3 | 500 | 125 |
| Cadmium | < 0.4 | 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | 150 | 37.5 |
| Chromium | 39 | 32 | 22 | 17 | 22 | 15 | 43 | 16 | 17 | 14 | 16 | 21 | 500 | 125 |
| Copper | 17 | 44 | 10 | 13 | 27 | 16 | 27 | 30 | 29 | 26 | 25 | 22 | 30 000 | 7500 |
| Lead | 22 | 75 | 31 | 20 | 65 | 100 | 81 | 35 | 24 | 21 | 24 | 49 | 1200 | 300 |
| Mercury | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 120 | 30 |
| Nickel | 9.8 | 9.4 | < 5 | < 5 | 9.3 | 7.5 | 14 | 15 | 7.4 | 9.3 | < 5 | 11 | 1200 | 300 |
| Zinc | 25 | 100 | 12 | 18 | 130 | 93 | 180 | 83 | 38 | 49 | 17 | 240 | 60 000 | 15 000 |
| Total Recoverable Hydrocarbons (TRH) | | | | | | | | | | | | | | |
| Naphthalene | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 5 | 1.25 |
| TRH F1 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | 50 | 12.5 |
| TRH F2 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | 280 | 70 |
| Monocyclic Aromatic Hydrocarbons | | | | | | | | | | | | | | |
| Benzene | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.7 | 0.175 |
| Toluene | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 480 | 120 |
| Ethylbenzene | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | NL | NL |
| Xylene (Total) | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | 110 | 27.5 |
| Polycyclic Aromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | |
| Benzo(a)pyrene | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 4 | 1 |
| Total PAH | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 7 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 400 | 100 |
| Organochlorine Pesticides | | | | | | | | | | | | | | |
| DDT+DDE+DDD | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 600 | 150 |
| Aldrin & dieldrin | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.73 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 10 | 2.5 |
| Chlordane | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 90 | 22.5 |
| Endosulfan | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 400 | 100 |
| Endrin | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 20 | 5 |
| Heptachlor | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 10 | 2.5 |
| HCB | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 15 | 3.75 |
| Methoxychlor | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | 500 | 125 |
| Toxaphene | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 30 | 7.5 |
| Asbestos | | | | | | | | | | | | | | |
| Asbestos | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.04% | 0.01% |

Notes: All measurements in mg/kg
 ND: Non-detect



9.3 Data Quality Review

Data Quality Objectives

The purpose of establishing data quality objectives is to ensure the field investigations and analyses are undertaken in a way that enables the collection and reporting of reliable data on which to base the site assessment.

The data quality objectives (DQOs) for sampling techniques and laboratory analysis of collected samples defines the acceptable level of error required for this investigation. The data quality objectives will be assessed by reference to DQO indicators as follows:

Data Representativeness

Data representativeness expresses the degree which sample data accurately and precisely represents a characteristic of a population or an environmental condition. Representativeness was achieved by collecting samples at pre-determined locations across the Site and by taking an adequate number of samples to achieve the intended objectives. Consistent and repeatable sampling techniques and methods were utilised throughout the sampling, as described.

Completeness

Completeness is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study. If there is insufficient valid data, as determined by the other data quality objectives, then additional data would be required to be collected.

Data Comparability

Data comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples, ensuring analysing laboratories use consistent analysis techniques and reporting methods. Reporting of results was done in consistent units and nomenclatures, and comparability was achieved by ensuring that precision and accuracy objectives were met.

Precision

Precision measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples. The criteria used for the assessment of RPDs is based on guidelines given in AS4482.1 (1997) and laboratory criteria. If duplicate results are not within the acceptable RPDs, investigation into the cause is initiated. If a cause cannot be determined the validity of the data is questioned.

The proposed acceptable range for Relative Percent Difference (RPD) for duplicate samples have been set as follows:

- %RPD Range result >10 times PQL then maximum RPD 50%
- result >5 times PQL then maximum RPD 75%
- result >2 times PQL then maximum RPD 100%
- result <2 times PQL then acceptable difference 2.5 times.

RPD is calculated as the absolute value of the difference between the initial and repeat result divided by the average value expressed as a percentage. The overall success is based on assessment of the data set as a whole and not on individual acceptance or exceedance within the data set.

A summary of the duplicate samples with the calculated RPDs is presented in the Table 9.2.

Table 9.2 – Relative Percent Differences

| Sample Number | PQL | A8 | D | RPD | Comment |
|---|------|--------|--------|------|---------|
| Total Recoverable Hydrocarbons | | | | | |
| Naphthalene | 1 | < 0.5 | < 0.5 | - | Accept |
| TRH C6-C10 (F1) | 20 | < 20 | < 20 | - | Accept |
| TRH C10-C16 (F2) | 50 | < 50 | < 50 | - | Accept |
| Monocyclic Aromatic Hydrocarbons | | | | | |
| Benzene | 0.1 | < 0.1 | < 0.1 | - | Accept |
| Toluene | 0.1 | < 0.1 | < 0.1 | - | Accept |
| Ethylbenzene | 0.1 | < 0.1 | < 0.1 | - | Accept |
| Xylene (total) | 0.3 | < 0.3 | < 0.3 | - | Accept |
| Heavy Metals | | | | | |
| Arsenic | 2 | 11 | 9.7 | 12.6 | Accept |
| Cadmium | 0.4 | < 0.4 | < 0.4 | - | Accept |
| Chromium | 5 | 16 | 14 | 13.3 | Accept |
| Copper | 5 | 30 | 26 | 14.3 | Accept |
| Lead | 5 | 35 | 21 | 50 | |
| Mercury | 0.1 | < 0.1 | < 0.1 | - | Accept |
| Nickel | 5 | 15 | 9.3 | 46.9 | |
| Zinc | 5 | 83 | 49 | 51.5 | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Benzo(a)pyrene | 0.5 | 1.2 | 1.2 | - | Accept |
| Total PAH | 0.5 | < 0.5 | < 0.5 | - | Accept |
| Organochlorine Pesticides | | | | | |
| DDT+DDE+DDD | 0.05 | < 0.05 | < 0.05 | - | Accept |
| Aldrin and dieldrin | 0.05 | < 0.05 | < 0.05 | - | Accept |
| Chlordane | 0.1 | < 0.1 | < 0.1 | - | Accept |
| Endosulfan | 0.05 | < 0.05 | < 0.05 | - | Accept |
| Endrin | 0.05 | < 0.05 | < 0.05 | - | Accept |
| Heptachlor | 0.05 | < 0.05 | < 0.05 | - | Accept |
| HCB | 0.05 | < 0.05 | < 0.05 | - | Accept |
| Methoxychlor | 0.2 | < 0.2 | < 0.2 | - | Accept |
| Toxaphene | 0.1 | < 0.1 | < 0.1 | - | Accept |

The analytical laboratory QA/QC program included the analysis of one blank sample and one spiked sample with every batch of samples tested, and the repeat analysis of approximately 10% of the samples. Laboratory Quality Assurance and Quality Control procedures are provided in the Final Certificate of Analysis.

- A copy of chain of custody (COC) forms are provided with the laboratory results. These forms detail the sample logs such as sample identification, matrix, depths, dates of sampling, container type, and analysis requests;
- A sample receipt notice (SRN) is issued upon delivery of samples, and Sample Integrity and Validated Time of Sample Receipt (VTSR) Holding Times are verified;
- Analytical methods are detailed in the Final Certificate of Analysis;
- NATA accreditation is held for each method and sample matrix type reported, unless otherwise specified, NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, and modified USEPA / APHA documents; and
- Inter-laboratory proficiency trial performance.

Performance of intra-laboratory spikes and duplicates are specific to each report, details of which are provided in the Final Certificate of Analysis (FCA). Details referring to instrument detection limits, method detection limits (MDL), and estimated quantitative limits (EQL) are also provided in the FCA.

The data is considered to be comparable. Consistent techniques were used to collect samples; the laboratory used consistent techniques and reporting methods. Reporting of results was done in consistent units and nomenclatures, and comparability was achieved by ensuring that precision and accuracy objectives were met.

10.0 CONCLUSION

This investigation has reviewed the history of the Site which indicates historical use for primarily residential purposes. Majority of residential buildings on the Site have recently been demolished leaving the Site vacant with the exception of a few residential dwellings with frontage to Pennant Hills Road which are still existing today.

A Clean-up Notice was issued for the Site by the EPA in February 2019 in relation to the placement of waste materials on Site, including asbestos waste. The EPA has confirmed that the Clean-up Notice was complied with and the asbestos waste has been removed from the Site and disposed of at a lawful facility.

To evaluate for impacts at the Site, an inspection was undertaken and methodical sampling conducted which included the collection of composite samples. Soil sampling has been undertaken based on NSW EPA (1995) Sampling Design guidelines for site characterisation.

The subsurface conditions generally consisted of disturbed natural silty clays to a depth of 0.3m although disturbed natural clay extended to 0.7m depth at one location. The underlying natural soils consisted of topsoil in some locations over stiff silty clays.

Concentrations of contaminants in all composite samples are below the Site Assessment Criteria.

To further evaluate the composite samples for a potential hot spot in each designated section of the Site, the results of analysis were considered using one quarter of the Site Assessment Criteria. This approach concluded that concentrations of contaminants in composite samples remained below one quarter of the SAC with the exception of benzo(a)pyrene in composite sample A6 which encountered a concentration of 1.3mg/kg exceeding a quarter of the SAC of 1mg/kg.

The elevated concentration of benzo(a)pyrene could represent a localised hotspot, however, when considering the total section represented by sample A6, the concentration is not considered to represent significant contamination. Additionally, the proposed high-density residential development is likely to include excavation of surface soils for basement carpark.

The impact of benzo(a)pyrene at this section of the Site should be considered during the future development. Any material removed during excavation should be kept separate to underlying natural soils and classified in accordance with the Waste Guidelines Part 1: Classifying Waste (2014) (Waste Guidelines).

The inspection indicated the presence of fragments of ACM on the Site surface. Laboratory analysis of a cement sheeting fragment collected from the Site confirmed the presence of asbestos. The density of potential ACM fragments observed across the Site is not anticipated to be above the SAC of 0.04% for residential properties with minimal access to soil. However,

the NEPM guidelines also specifies a criterion of 'no visible asbestos for surface soil'. Therefore, to comply with guidelines, fragments of ACM should be removed from the Site surface.

The Site is considered suitable for the proposed high-density residential development after the implementation of asbestos management measures.

APPENDIX 1



LOTSEARCH
LOTSEARCH ENVIRO PROFESSIONAL

Date: 16 Nov 2020 16:19:12

Reference: LS016069 EP

Address: 277-281 Pennant Hills Road, Carlingford, NSW 2118

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 Onsite | No. Features within 100m | No. Features within Buffer |
|---|---|-------------|---------------|------------------|--------------------|---------------------|--------------------------|----------------------------|
| Cadastre Boundaries | NSW Department of Finance, Services & Innovation | 31/03/2020 | 31/03/2020 | Quarterly | - | - | - | - |
| Topographic Data | NSW Department of Finance, Services & Innovation | 25/06/2019 | 25/06/2019 | As required | - | - | - | - |
| List of NSW contaminated sites notified to EPA | Environment Protection Authority | 22/10/2020 | 22/10/2020 | Monthly | 1000 | 0 | 0 | 1 |
| Contaminated Land Records of Notice | Environment Protection Authority | 04/11/2020 | 04/11/2020 | Monthly | 1000 | 0 | 0 | 0 |
| Former Gasworks | Environment Protection Authority | 10/11/2020 | 11/10/2017 | Monthly | 1000 | 0 | 0 | 0 |
| National Waste Management Facilities Database | Geoscience Australia | 12/11/2020 | 07/03/2017 | Quarterly | 1000 | 0 | 0 | 0 |
| National Liquid Fuel Facilities | Geoscience Australia | 12/11/2020 | 13/07/2012 | Quarterly | 1000 | 0 | 0 | 3 |
| EPA PFAS Investigation Program | Environment Protection Authority | 12/11/2020 | 07/05/2020 | Monthly | 2000 | 0 | 0 | 0 |
| Defence PFAS Investigation & Management Program - Investigation Sites | Department of Defence | 14/10/2020 | 14/10/2020 | Monthly | 2000 | 0 | 0 | 0 |
| Defence PFAS Investigation & Management Program - Management Sites | Department of Defence | 14/10/2020 | 14/10/2020 | Monthly | 2000 | 0 | 0 | 0 |
| Airservices Australia National PFAS Management Program | Airservices Australia | 10/11/2020 | 10/11/2020 | Monthly | 2000 | 0 | 0 | 0 |
| Defence 3 Year Regional Contamination Investigation Program | Department of Defence | 16/11/2020 | 16/11/2020 | Monthly | 2000 | 0 | 0 | 1 |
| EPA Other Sites with Contamination Issues | Environment Protection Authority | 04/02/2020 | 13/12/2018 | Annually | 1000 | 0 | 0 | 0 |
| Licensed Activities under the POEO Act 1997 | Environment Protection Authority | 10/11/2020 | 10/11/2020 | Monthly | 1000 | 0 | 0 | 2 |
| Delicensed POEO Activities still regulated by the EPA | Environment Protection Authority | 10/11/2020 | 10/11/2020 | Monthly | 1000 | 0 | 0 | 0 |
| Former POEO Licensed Activities now revoked or surrendered | Environment Protection Authority | 10/11/2020 | 10/11/2020 | Monthly | 1000 | 0 | 0 | 3 |
| UBD Business Directories (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 3 | 158 | 317 |
| UBD Business Directories (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 128 | 130 |
| UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches) | Hardie Grant | | | Not required | 500 | 0 | 27 | 122 |
| UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches) | Hardie Grant | | | Not required | 500 | - | 117 | 118 |
| Points of Interest | NSW Department of Finance, Services & Innovation | 30/03/2020 | 30/03/2020 | Quarterly | 1000 | 0 | 4 | 50 |
| Tanks (Areas) | NSW Department of Customer Service - Spatial Services | 30/03/2020 | 30/03/2020 | Quarterly | 1000 | 0 | 0 | 1 |
| Tanks (Points) | NSW Department of Customer Service - Spatial Services | 30/03/2020 | 30/03/2020 | Quarterly | 1000 | 0 | 0 | 3 |
| Major Easements | NSW Department of Finance, Services & Innovation | 30/03/2020 | 30/03/2020 | Quarterly | 1000 | 2 | 7 | 34 |
| State Forest | Forestry Corporation of NSW | 18/01/2018 | 18/01/2018 | As required | 1000 | 0 | 0 | 0 |
| NSW National Parks and Wildlife Service Reserves | NSW Office of Environment & Heritage | 21/01/2020 | 30/09/2019 | Annually | 1000 | 0 | 0 | 0 |
| Hydrogeology Map of Australia | Commonwealth of Australia (Geoscience Australia) | 08/10/2014 | 17/03/2000 | As required | 1000 | 1 | 1 | 1 |
| Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 | NSW Department of Planning, Industry and Environment | 26/10/2020 | 21/02/2018 | As required | 1000 | 0 | 0 | 0 |

| Dataset Name | Custodian | Supply Date | Currency Date | Update Frequency | Dataset Buffer (m) | No. Features Onsite | No. Features within 100m | No. Features within Buffer |
|--|--|-------------|---------------|------------------|--------------------|---------------------|--------------------------|----------------------------|
| Groundwater Boreholes | NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology) | 24/07/2018 | 23/07/2018 | Annually | 2000 | 0 | 0 | 9 |
| Geological Units 1:100,000 | NSW Department of Planning, Industry and Environment | 20/08/2014 | | None planned | 1000 | 2 | - | 3 |
| Geological Structures 1:100,000 | NSW Department of Planning, Industry and Environment | 20/08/2014 | | None planned | 1000 | 0 | - | 1 |
| Naturally Occurring Asbestos Potential | NSW Dept. of Industry, Resources & Energy | 04/12/2015 | 24/09/2015 | Unknown | 1000 | 0 | 0 | 0 |
| Atlas of Australian Soils | Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES) | 19/05/2017 | 17/02/2011 | As required | 1000 | 1 | 1 | 1 |
| Soil Landscapes of Central and Eastern NSW | NSW Department of Planning, Industry and Environment | 14/10/2020 | 27/07/2020 | Annually | 1000 | 1 | - | 4 |
| Environmental Planning Instrument Acid Sulfate Soils | NSW Department of Planning, Industry and Environment | 29/10/2020 | 03/07/2020 | Monthly | 500 | 0 | - | - |
| Atlas of Australian Acid Sulfate Soils | CSIRO | 19/01/2017 | 21/02/2013 | As required | 1000 | 1 | 1 | 1 |
| Dryland Salinity - National Assessment | National Land and Water Resources Audit | 18/07/2014 | 12/05/2013 | None planned | 1000 | 0 | 0 | 0 |
| Dryland Salinity Potential of Western Sydney | NSW Department of Planning, Industry and Environment | 12/05/2017 | 01/01/2002 | None planned | 1000 | 1 | 1 | 2 |
| Mining Subsidence Districts | NSW Department of Customer Service - Subsidence Advisory NSW | 30/03/2020 | 30/03/2020 | Quarterly | 1000 | 0 | 0 | 0 |
| Current Mining Titles | NSW Department of Industry | 04/11/2020 | 04/11/2020 | Monthly | 1000 | 0 | 0 | 0 |
| Mining Title Applications | NSW Department of Industry | 04/11/2020 | 04/11/2020 | Monthly | 1000 | 0 | 0 | 0 |
| Historic Mining Titles | NSW Department of Industry | 04/11/2020 | 04/11/2020 | Monthly | 1000 | 12 | 12 | 12 |
| Environmental Planning Instrument SEPP State Significant Precincts | NSW Department of Planning, Industry and Environment | 29/10/2020 | 07/12/2018 | Monthly | 1000 | 0 | 0 | 0 |
| Environmental Planning Instrument Land Zoning | NSW Department of Planning, Industry and Environment | 29/10/2020 | 23/10/2020 | Monthly | 1000 | 2 | 15 | 92 |
| Commonwealth Heritage List | Australian Government Department of the Agriculture, Water and the Environment | 18/08/2020 | 20/11/2019 | Quarterly | 1000 | 0 | 0 | 0 |
| National Heritage List | Australian Government Department of the Agriculture, Water and the Environment | 18/08/2020 | 20/11/2019 | Quarterly | 1000 | 0 | 0 | 0 |
| State Heritage Register - Curtilages | NSW Department of Planning, Industry and Environment | 12/11/2020 | 02/07/2020 | Quarterly | 1000 | 0 | 0 | 1 |
| Environmental Planning Instrument Heritage | NSW Department of Planning, Industry and Environment | 29/10/2020 | 23/10/2020 | Monthly | 1000 | 0 | 4 | 26 |
| Bush Fire Prone Land | NSW Rural Fire Service | 09/11/2020 | 02/11/2020 | Weekly | 1000 | 0 | 0 | 2 |
| Native Vegetation of the Sydney Metropolitan Area | NSW Office of Environment & Heritage | 01/03/2017 | 16/12/2016 | As required | 1000 | 1 | 2 | 6 |
| Ramsar Wetlands of Australia | Department of the Agriculture, Water and the Environment | 08/10/2014 | 24/06/2011 | As required | 1000 | 0 | 0 | 0 |
| Groundwater Dependent Ecosystems | Bureau of Meteorology | 14/08/2017 | 15/05/2017 | Unknown | 1000 | 0 | 0 | 2 |
| Inflow Dependent Ecosystems Likelihood | Bureau of Meteorology | 14/08/2017 | 15/05/2017 | Unknown | 1000 | 0 | 0 | 3 |
| NSW BioNet Species Sightings | NSW Office of Environment & Heritage | 10/11/2020 | 10/11/2020 | Weekly | 10000 | - | - | - |

Site Diagram

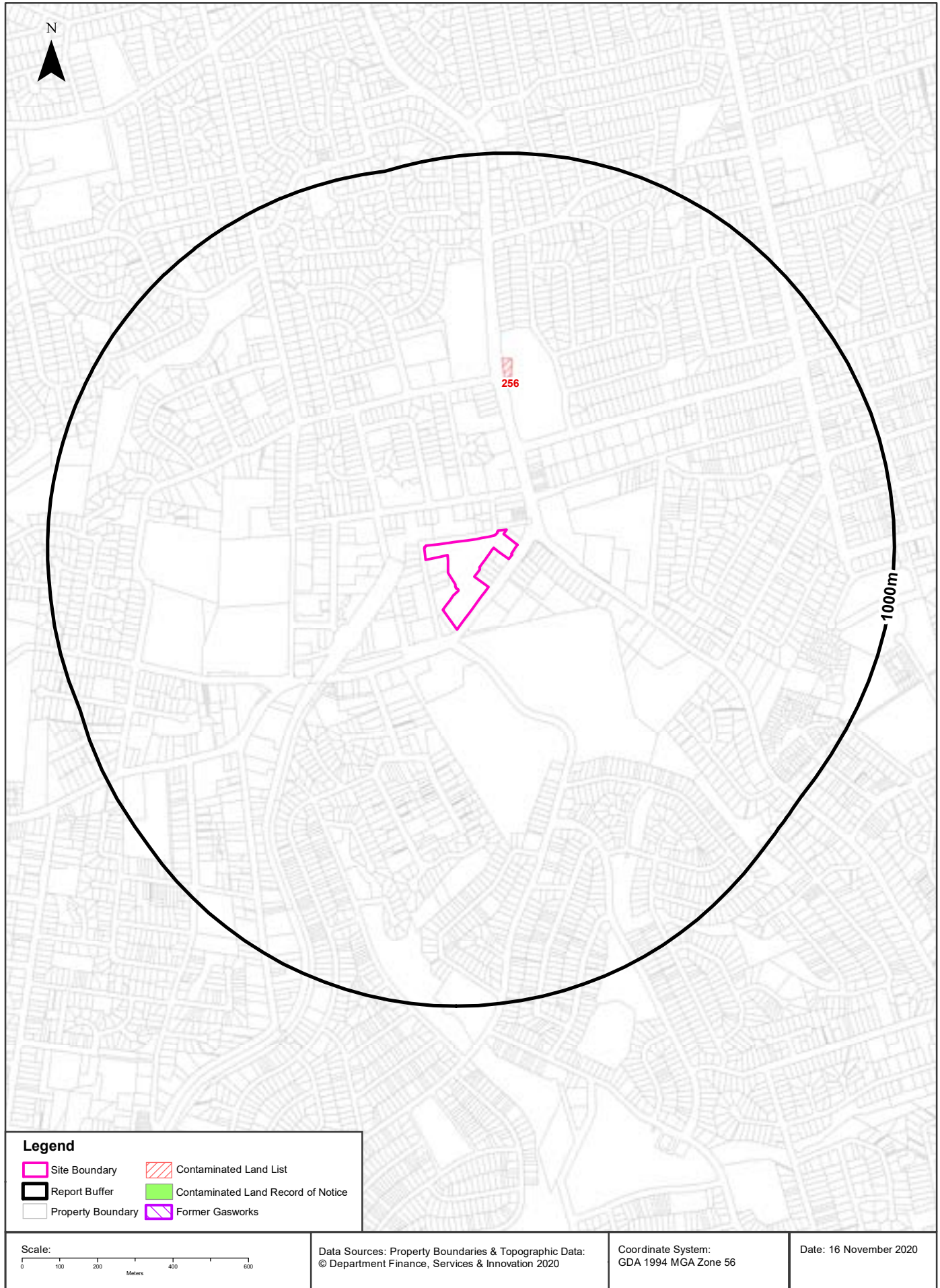
277-281 Pennant Hills Road, Carlingford, NSW 2118



| | | | | |
|--|--|--|---|-------------------------------|
| <p>Legend</p> <ul style="list-style-type: none"> Site Boundary Internal Parcel Boundaries | <p>Total Area: 23472m²</p> <p>Total Perimeter: 997m</p> <p><small>Disclaimers:</small></p> <p>Measurements are approximate only and may have been simplified or smaller lengths removed for readability.</p> <p>Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.</p> | <p>Scale:</p> <p>0 25 50 Meters</p> <hr/> <p>Data Sources: Aerial Imagery © Aerometrex Pty Ltd</p> <hr/> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Coordinate System: GDA 1994 MGA Zone 56</td> <td style="width: 50%;">Date: 16 November 2020</td> </tr> </table> | Coordinate System: GDA 1994 MGA Zone 56 | Date: 16 November 2020 |
| Coordinate System: GDA 1994 MGA Zone 56 | Date: 16 November 2020 | | | |

Contaminated Land

277-281 Pennant Hills Road, Carlingford, NSW 2118



Contaminated Land

277-281 Pennant Hills Road, Carlingford, NSW 2118

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 (m) | Direction |
|--------|------------------------|------------------------|-------------|-----------------|---------------------------------------|------------------|---------------------|----------|-----------|
| 256 | Caltex Service Station | 797 Pennant Hills Road | Carlingford | Service Station | Regulation under CLM Act not required | Current EPA List | Premise Match | 395m | North |

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

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

NSW EPA Contaminated Land List Data Source: Environment Protection Authority
 © State of New South Wales through the Environment Protection Authority

Contaminated Land

277-281 Pennant Hills Road, Carlingford, NSW 2118

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

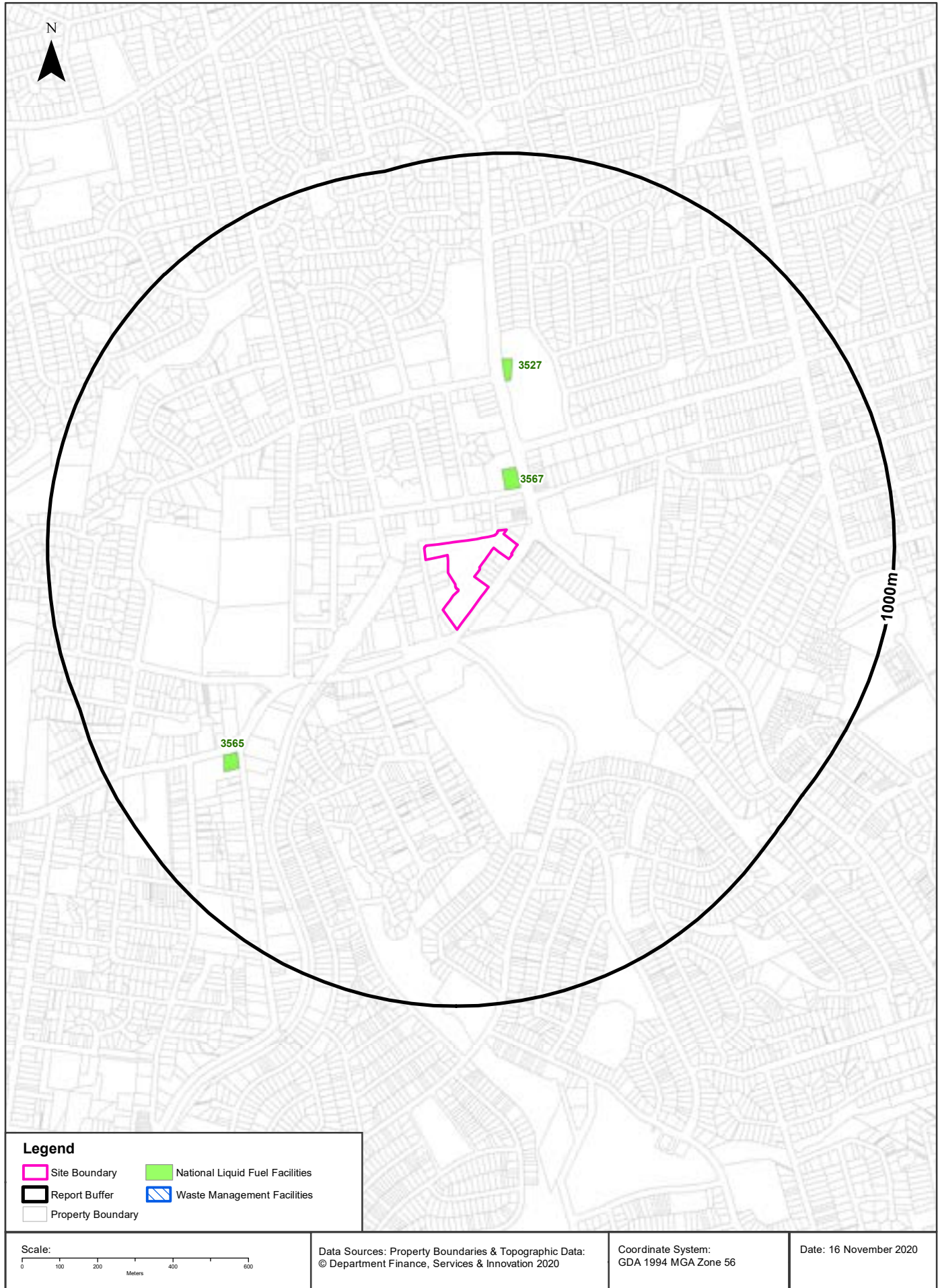
Former Gasworks within the dataset buffer:

| 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

Waste Management & Liquid Fuel Facilities

277-281 Pennant Hills Road, Carlingford, NSW 2118



Waste Management & Liquid Fuel Facilities

277-281 Pennant Hills Road, Carlingford, NSW 2118

National Waste Management Site Database

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

| Site Id | Owner | Name | Address | Suburb | Class | Landfill | Reprocess | Transfer | Comments | Loc Conf | Dist (m) | Direction |
|---------|----------------------|------|---------|--------|-------|----------|-----------|----------|----------|----------|----------|-----------|
| N/A | No records in buffer | | | | | | | | | | | |

Waste Management Facilities Data Source: Geoscience Australia

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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 (m) | Direction |
|--------|--------|--------------------------------|------------------------|-------------|----------------|--------------------|----------|---------------|---------------|----------|------------|
| 3567 | Shell | Coles Express Carlingford | 790 Pennant Hills Road | Carlingford | Petrol Station | Operational | | 25/07/2011 | Premise Match | 106m | North East |
| 3527 | Caltex | Caltex Carlingford | 797 Pennant Hills Road | Carlingford | Petrol Station | Operational | | 25/07/2011 | Premise Match | 395m | North |
| 3565 | Shell | Coles Express Carlingford West | 288 Pennant Hills Road | Carlingford | Petrol Station | Operational | | 25/07/2011 | Premise Match | 665m | South West |

National Liquid Fuel Facilities Data Source: Geoscience Australia

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PFAS Investigation & Management Programs

277-281 Pennant Hills Road, Carlingford, NSW 2118

EPA PFAS Investigation Program

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

| 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

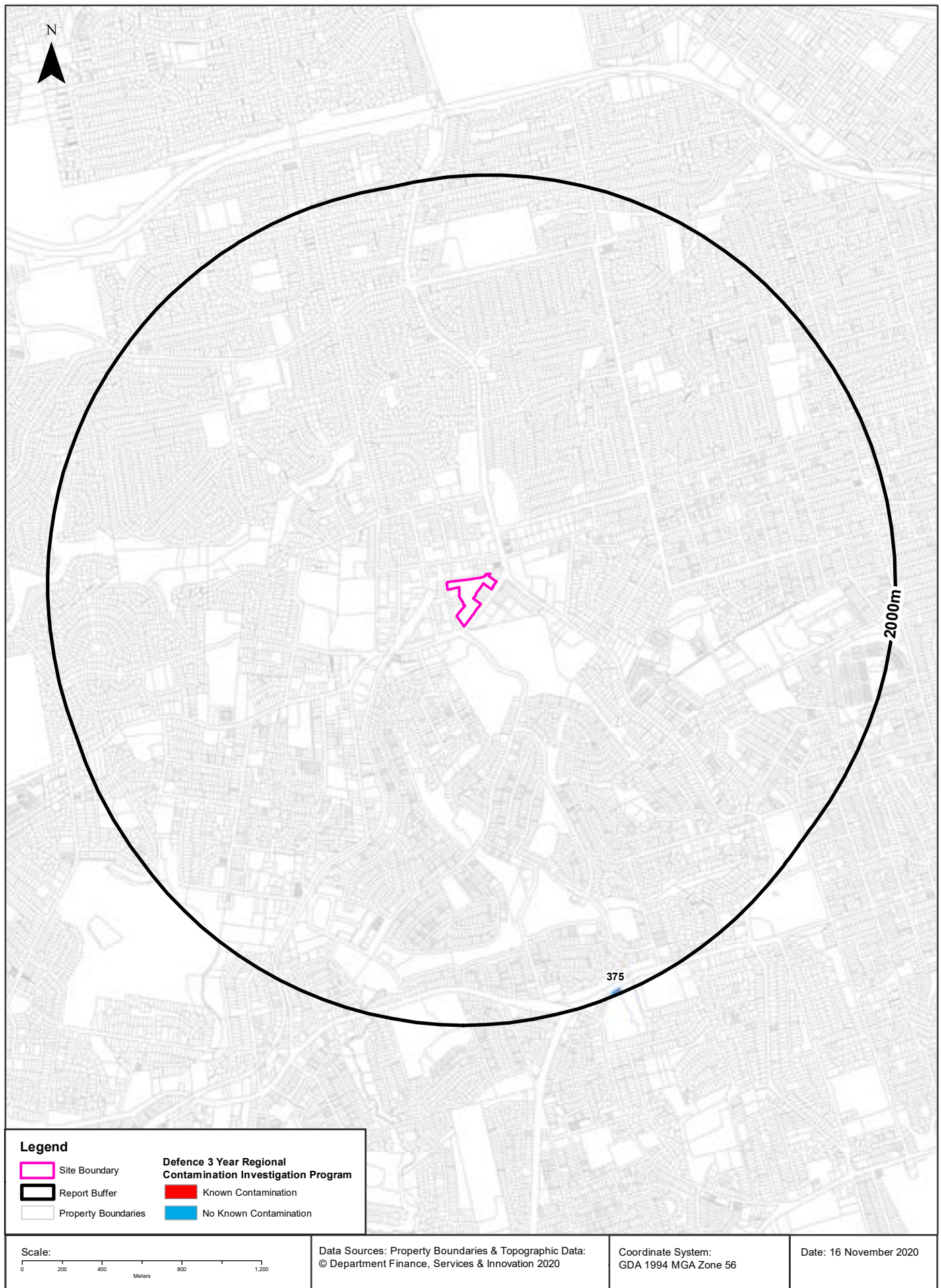
Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

| 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 3 Year Regional Contamination Investigation Program

277-281 Pennant Hills Road, Carlingford, NSW 2118



Defence Sites

277-281 Pennant Hills Road, Carlingford, NSW 2118

Defence 3 Year Regional Contamination Investigation Program

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 |
|-------------|---|-------------------------|---------------------|---------------|-------|-------|
| 375 | Timor Barracks - Dundas | Dundas, New South Wales | NO | Premise Match | 1967m | South |

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

EPA Other Sites with Contamination Issues

277-281 Pennant Hills Road, Carlingford, NSW 2118

EPA Other Sites with Contamination Issues

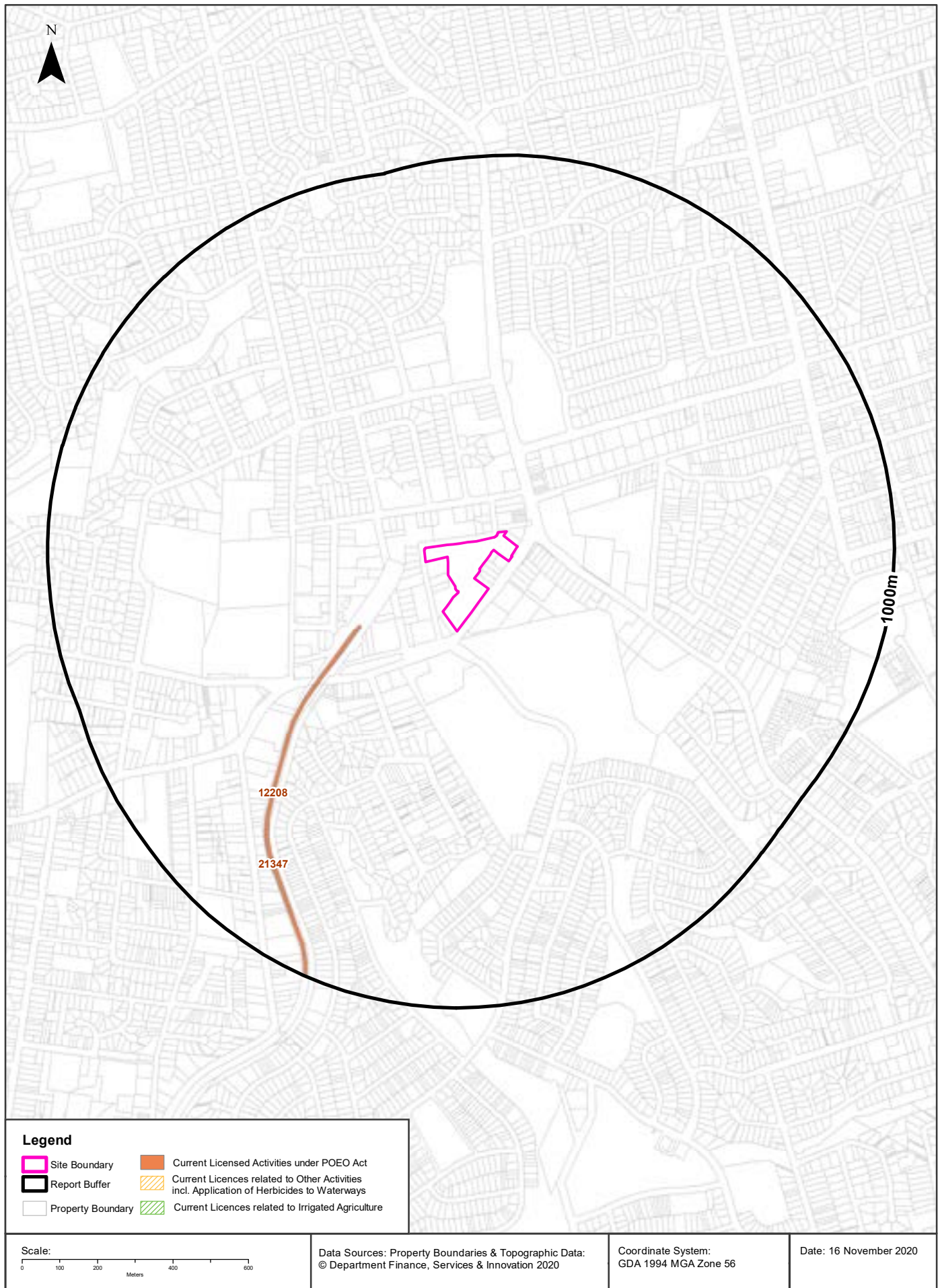
This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- 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



EPA Activities

277-281 Pennant Hills Road, Carlingford, NSW 2118

Licensed Activities under the POEO Act 1997

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

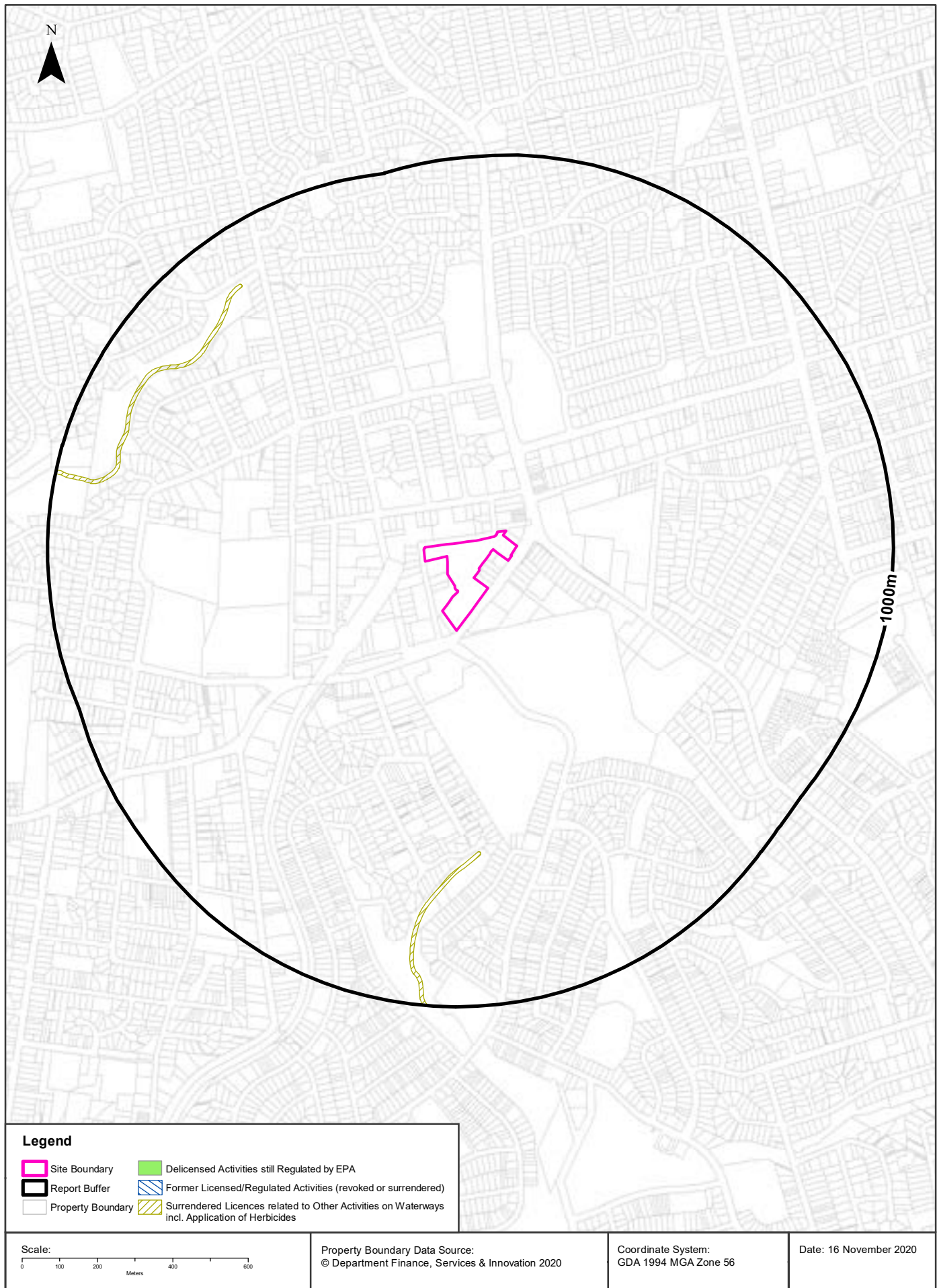
| EPL | Organisation | Name | Address | Suburb | Activity | Loc Conf | Distance | Direction |
|-------|-----------------------------|------|------------------------------------|--------|---|---------------------|----------|------------|
| 12208 | SYDNEY TRAINS | | SYDNEY TRAINS, HAYMARKET, NSW 1238 | | Railway systems activities | Network of Features | 221m | South West |
| 21347 | CPB CONTRACTORS PTY LIMITED | | PACKAGE 4, PARRAMATTA, NSW 2123 | | Railway infrastructure construction (>=50,000T & track to be constructed >10km & <30km) | Network of Features | 233m | South West |

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

277-281 Pennant Hills Road, Carlingford, NSW 2118



EPA Activities

277-281 Pennant Hills Road, Carlingford, NSW 2118

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

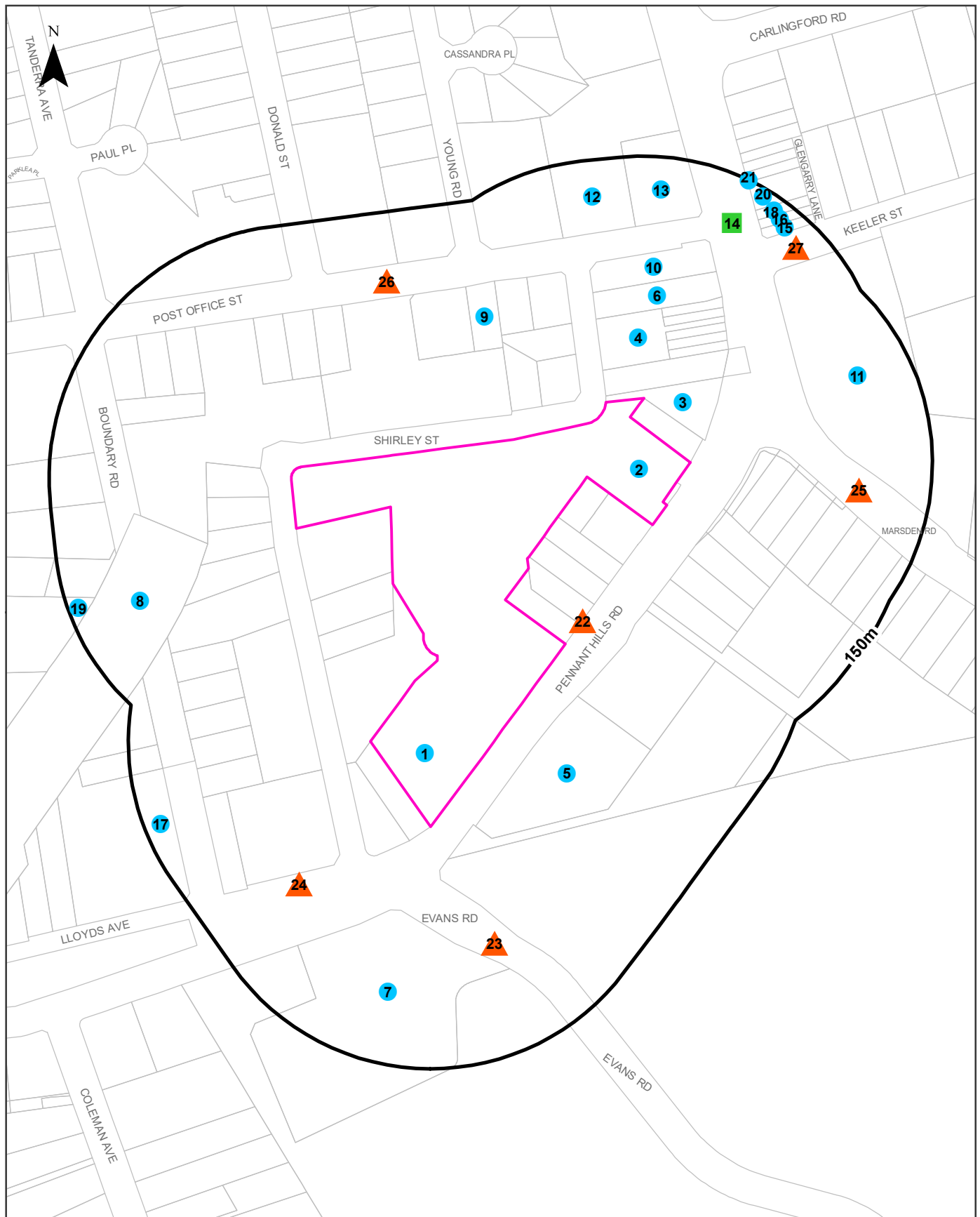
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

| 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 | 590m | - |
| 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 | 590m | - |
| 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 | 590m | - |

Former Licensed Activities Data Source: Environment Protection Authority
 © State of New South Wales through the Environment Protection Authority

Historical Business Directories

277-281 Pennant Hills Road, Carlingford, NSW 2118



| | | | |
|--|--|------------|--|
| Legend Site Boundary Buffer 150m Property Boundary Business directory records mapped to a specific premise Business directory records mapped to a road intersection Business directory records mapped to a road corridor Business directory records mapped to a general area | | Scale: | Coordinate System: GDA 1994 MGA Zone 56 Date: 16 November 2020 |
| Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018 | | | |

Historical Business Directories

277-281 Pennant Hills Road, Carlingford, NSW 2118

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records 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 | FLORISTS - RETAIL. (F4125) | Carlingford Florist, 249 Pennant Hills Rd., Carlingford. 2118. | 31417 | 1982 | Premise Match | 0m | On-site |
| 2 | Motor Towing Services | McConnell's Towing Service, 279 Pennant Hills Rd., Carlingford | 127108 | 1965 | Premise Match | 0m | On-site |
| | MOTOR TOWING SERVICES | McConnell's Towing Service, 279 Pennant Hills Rd., Carlingford | 352151 | 1961 | Premise Match | 0m | On-site |
| 3 | TAXATION CONSULTANTS. | I.T.P. People, 285 Pennant Hills Rd., Carlingford. 2118 | 92279 | 1986 | Premise Match | 0m | North East |
| | DENTISTS. | Jones, F. B, 285 Pennant Hills Rd., Carlingford. 2118 | 22801 | 1986 | Premise Match | 0m | North East |
| | CAKE SHOPS &/OR PASTRYCOOKS. | Pavlova Pantry, 285A Pennant Hills Rd., Carlingford. 2118 | 11867 | 1986 | Premise Match | 0m | North East |
| | WINE &/OR SPIRIT MERCHANTS RETAIL. | Post Office Cellars, 285 Pennant Hills Rd., Carlingford. 2067 | 99504 | 1986 | Premise Match | 0m | North East |
| | WINE &/OR SPIRIT MERCHANTS - RETAIL. (W5960) | Carlingford Bottle Shoppe, 285 Pennant Hills Rd., Carlingford. 2118. | 84618 | 1982 | Premise Match | 0m | North East |
| | DENTISTS. (D1800) | Jones, F. B., 285 Pennant Hills Rd., Carlingford. 2118. | 20402 | 1982 | Premise Match | 0m | North East |
| | CAKE SHOPS &/OR PASTRYCOOKS. (C0465) | Pavlova Pantry, 285A Pennant Hills Rd., Carlingford. 2118. | 12764 | 1982 | Premise Match | 0m | North East |
| | WINE &/OR SPIRIT MERCHANTS - RETAIL. (W5960) | Post Office Cellars, 285 Pennant Hills Rd., Carlingford. 2118. | 84909 | 1982 | Premise Match | 0m | North East |
| | ACCOUNTANTS & AUDITORS. (A0360) | Sellen, Wesley F. & Co, 285 Pennant Hills Rd., Carlingford. 2118. | 864 | 1982 | Premise Match | 0m | North East |
| | DELICATESSENS. | Carlingford Fruit Market, 285d Pennant Hills Rd., Carlingford. 2118 | 17325 | 1978 | Premise Match | 0m | North East |
| | FRUITERERS &/OR GREENGROCERS. | Carlingford Fruit Market. 285d Pennant Hills Rd., Carlingford. 2118 | 30336 | 1978 | Premise Match | 0m | North East |
| | ANIMAL &/OR BIRD DEALERS. | Carlingford Pet Shop, 285e Pennant Hills Rd., Carlingford. 2118 | 2458 | 1978 | Premise Match | 0m | North East |
| | ANIMAL &/OR BIRD FOOD SUPPLIES. | Carlingford Pet Shop. 285e Pennant Hills Rd., Carlingford. 2118 | 2529 | 1978 | Premise Match | 0m | North East |
| | BEAUTY SALONS &/OR LADIES HAIRDRESSERS. | Court Hair Fashions, 285c Pennant Hills Rd., Carlingford. 2118 | 4882 | 1978 | Premise Match | 0m | North East |
| | WINE &/OR SPIRIT MERCHANTS- RETAIL. | Moraschi, D., 285e Pennant Hills Rd., Carlingford. 2118 | 74787 | 1978 | Premise Match | 0m | North East |
| | MIXED BUSINESSES. | Moraschi. D., 285e Pennant Hills Rd., Carlingford. 2118 | 46921 | 1978 | Premise Match | 0m | North East |
| | BUILDERS &/OR BUILDING CONTRACTORS. | Mornington Homes Pty. Ltd., 285 Pennant Hills Rd., Carlingford. 2118 | 7833 | 1978 | Premise Match | 0m | North East |
| | CAKE SHOPS &/OR PASTRYCOOKS. | Pop-In Cake Box, The, 285a Pennant Hills Rd., Carlingford. 2118 | 10925 | 1978 | Premise Match | 0m | North East |
| | DENTISTS. | Tait, J. R., 285 Pennant Hills Rd., Carlingford. 2118 | 18534 | 1978 | Premise Match | 0m | North East |
| | FRUITERERS &/OR GREENGROCERS. | Carlingford Fruit Market, 285d Pennant Hills Rd., Carlingford. 2118. | 35044 | 1975 | Premise Match | 0m | North East |
| ANIMAL &/OR BIRD FOOD SUPPLIES. | Carlingford Pet Shop, 285e Pennant Hills Rd., Carlingford. 2118 | 2373 | 1975 | Premise Match | 0m | North East | |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|--------|--|--|---------|------|---------------------|--|------------|
| 3 | BEAUTY SALONS &/OR LADIES HAIRDRESSERS. | Collette Beauty Salon, 285c Pennant Hills Rd., Carlingford. 2118 | 5092 | 1975 | Premise Match | 0m | North East |
| | MIXED BUSINESSES. | Moraschi, D., 285e Pennant Hills Rd., Carlingford. 2118 | 55313 | 1975 | Premise Match | 0m | North East |
| | BUILDERS &/OR BUILDING CONTRACTORS. | Mornington Homes Pty. Ltd., 285 Pennant Hills Rd., Carlingford. 2118 | 8592 | 1975 | Premise Match | 0m | North East |
| | SOLICITORS. | Parker, A. R., 285 Pennant Hills Rd., Carlingford. 2118 | 78617 | 1975 | Premise Match | 0m | North East |
| | CAKE SHOPS &/OR PASTRYCOOKS. | Pop-In Cake Box. The. 285a Pennant Hills Rd., Carlingford. 2118 | 12733 | 1975 | Premise Match | 0m | North East |
| | DENTISTS. | Tait, J. R., 285 Pennant Hills Rd., Carlingford. 2118 | 21415 | 1975 | Premise Match | 0m | North East |
| | REAL ESTATE AGENTS/VALUERS(R205) | Bruce. Leslie Real Estate., 285 Pennant Hills Rd., CARLINGFORD | 355050 | 1970 | Premise Match | 0m | North East |
| | FRUITERERS/GREENGROCERS (F640) | Carlingford Fruit Market., 285d Pennant Hills Rd., Mobbs Hill, Carlingford | 306791 | 1970 | Premise Match | 0m | North East |
| | ANIMAL & BIRD FOOD SUPPLIES (A375) | Carlingford Pet Shop, 285e Pennant Hills Rd, Carlingford | 261493 | 1970 | Premise Match | 0m | North East |
| | BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260) | Collette Beauty Salon., 285c Pennant Hills Rd., Mobbs Hill, Carlingford | 265712 | 1970 | Premise Match | 0m | North East |
| | WINE/SPIRIT MERCHANTS-RETAIL | Moraschi, D., 285a Pennant Hills Rds., Mobbs Hill, Carlingford | 374566 | 1970 | Premise Match | 0m | North East |
| | SOLICITORS (S413) | Parker; A. R., 285 Pennant Hills Rd., Carlingford | 362898 | 1970 | Premise Match | 0m | North East |
| | CAKE SHOPS & PASTRYCOOKS (C045) | Pop-In Cake Box (The)., 285a Pennant Hills Rd., Mobbs Hill., Carlingford | 276815 | 1970 | Premise Match | 0m | North East |
| | DENTISTS (D140) | Tait, J. R., 285 Pennant Hills Rd., Carlingford | 289068 | 1970 | Premise Match | 0m | North East |
| | Fruiterers & Greengrocers | Carlingford Fruit Market, 285d Pennant Hills Rd., Mobbs Hill, Carlingford | 90990 | 1965 | Premise Match | 0m | North East |
| | Butchers - Retail | Carlingford Meat Market., 285c Pennant Hills Rd., Mobbs Hill, Carlingford | 58013 | 1965 | Premise Match | 0m | North East |
| | Cake Shops & Pastrycooks | Mobbs Hill Cakes & Pies., 285a Pennant Hills Rd., Mobbs Hill, Carlingford | 61424 | 1965 | Premise Match | 0m | North East |
| | Chemists - Pharmaceutical | Mobbs Hill Pharmacy, 285b Pennant Hills Rd., Mobbs Hills, Carlingford | 65359 | 1965 | Premise Match | 0m | North East |
| | Mixed Businesses | Moraschi Lorenzo, 285e Pennant Hills Rd., Mobbs Hill, Carlingford | 118122 | 1965 | Premise Match | 0m | North East |
| | Wine/Spirit Merchants - Retail | Moraschi, Lorenzo., 285E Pennant Hills Rd., Mobbs Hill, Carlingford | 157336 | 1965 | Premise Match | 0m | North East |
| 4 | CHEMISTS-PHARMACEUTICAL. | Carlingford Pharmacy, 289C Pennant Hills Rd., Carlingford. 2118 | 14046 | 1986 | Premise Match | 20m | North East |
| | DRY CLEANERS & PRESSERS. | Galaxy Dry Cleaners, 289B Pennant Hills Rd., Carlingford. 2118 | 25315 | 1986 | Premise Match | 20m | North East |
| | FRUITERERS &/OR GREENGROCERS. | Northern Districts Fruit Market, The, 291 Pennant Hills Rd., Carlingford. 2118 | 36220 | 1986 | Premise Match | 20m | North East |
| | CHEMISTS - PHARMACEUTICAL.(C4110) | Carlingford Pharmacy, 289C Pennant Hills Rd., Carlingford. 2118. | 14847 | 1982 | Premise Match | 20m | North East |
| | DRY CLEANERS & PRESSERS.(D8500) | Galaxy Dry Cleaners, 289B Pennant Hills Rd., Carlingford. 2118. | 23846 | 1982 | Premise Match | 20m | North East |
| | FRUITERERS &/OR GREENGROCERS. (F6775) | Northern Districts Fruit Market, The, 291 Pennant Hills Rd., Carlingford. 2118 | 33793 | 1982 | Premise Match | 20m | North East |
| | CHEMISTS-PHARMACEUTICAL. | Carlingford Pharmacy, 289c Pennant Hills Rd., Carlingford. 2118 | 13038 | 1978 | Premise Match | 20m | North East |
| | DRY CLEANERS, PRESSERS &/OR DYERS | Galaxy Dry Cleaners, 289b Pennant Hills Rd., Carlingford. 2118 | 20785 | 1978 | Premise Match | 20m | North East |
| | FRUITERERS &/OR GREENGROCERS. | Northern Districts Fruit Market. The, 291 Pennant Hills Rd., Carlingford. 2118 | 30690 | 1978 | Premise Match | 20m | North East |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|------------------------------------|--|---|--|-------|---------------------|--|------------|
| 4 | MILK, FRUIT JUICE BARS &/OR CONFECTIONERS. | Astronaut Milk Bar., 289 Pennant Hills Rd., Carlingford. 2118 | 53208 | 1975 | Premise Match | 20m | North East |
| | CHEMISTS-PHARMACEUTICAL | Carlingford Pharmacy, 289c Pennant Hills Rd., Carlingford 2118 | 15072 | 1975 | Premise Match | 20m | North East |
| | FRUITERERS &/OR GREENGROCERS. | Northern Districts Fruit Market, The, 291 Pennant Hills Rd., Carlingford. 2118. | 35627 | 1975 | Premise Match | 20m | North East |
| | MILK, FRUIT JUICE BARS/CONFECTIONERS | Astronaut Milk Bar., 289 Pennant Hills Rd., Mobbs Hill, Carlingford | 330339 | 1970 | Premise Match | 20m | North East |
| | CHEMISTS-PHARMACEUTICAL | Carlingford Pharmacy., 289c Pennant Hills Rd., Carlingford | 280166 | 1970 | Premise Match | 20m | North East |
| | DRY CLEANERS,PRESSERS/DYERS (D710) | Galaxy Dry Cleaners., 289b Pennant Hills Rd., Carlingford | 292308 | 1970 | Premise Match | 20m | North East |
| | FRUITERERS/GREENGROCERS (F640) | Northern Districts Fruit Market (The), 291 Pennant Hills Rd., Carlingford | 307650 | 1970 | Premise Match | 20m | North East |
| | Butchers - Retail | Mobb Hill (Davies) Butchery, 289 Pennant Hills Rd. Mobbs Hill, Carlingford | 58880 | 1965 | Premise Match | 20m | North East |
| 5 | MEDICAL PRACTITIONERS. | McKinnon, G., 348 Pennant Hills Rd., Carlingford. 2118 | 56305 | 1986 | Premise Match | 22m | South East |
| | MEDICAL PRACTITIONERS. (M2020) | McKinnon, G., 348 Pennant Hills Rd., Carlingford. 2118. | 49257 | 1982 | Premise Match | 22m | South East |
| | MEDICAL PRACTITIONERS. | McKinnon, G., 348 Pennant Hills Rd., Carlingford. 2118 | 43664 | 1978 | Premise Match | 22m | South East |
| | MEDICAL PRACTITIONERS (M216) | McKinnon, Elaine., 348 Pennant Hills Rd., Carlingford | 327652 | 1970 | Premise Match | 22m | South East |
| | MEDICAL PRACTITIONERS (M216) | McKinnon, Graeme., 348 Pennant Hills Rd., Carlingford | 327653 | 1970 | Premise Match | 22m | South East |
| | MEDICAL PRACTITIONERS (M216) | McKinnon, Ian., 348 Pennant Hills Rd., Carlingford | 327654 | 1970 | Premise Match | 22m | South East |
| | Medical Practitioners | McKinnon, Elaine, 348 Pennant Hills Rd., Carlingford | 112096 | 1965 | Premise Match | 22m | South East |
| | Medical Practitioners | McKinnon, Ian, 348 Pennant Hills Rd., Carlingford | 112097 | 1965 | Premise Match | 22m | South East |
| 6 | ANTIQUA DEALERS. | Five Corners, 295b Pennant Hills Rd., Carlingford. 2118 | 2569 | 1975 | Premise Match | 52m | North East |
| | ANTIQUA DEALERS (A400) | Five Corners, 295b Pennant Hills Rd, Carlingford | 261733 | 1970 | Premise Match | 52m | North East |
| | INTERIOR DECORATORS (I620) | Five Corners., 295b Pennant Hills Rd., Carlingford | 320557 | 1970 | Premise Match | 52m | North East |
| | HEATING SYSTEMS (H406) | Pennant Space Heating., 295a Pennant Hills Rd., Carlingford | 316196 | 1970 | Premise Match | 52m | North East |
| | OIL HEATING-DOMESTIC &/OR INDUSTRIAL (O 125) | Pennant Space Heating., 295a Pennant Hills Rd., Carlingford | 345017 | 1970 | Premise Match | 52m | North East |
| | PAINT,VARNISH,OILS/COLOUR MERCHANTS (P074) | Pipal, A. R. & H., 295 Pennant Hills Rd., Carlingford | 346332 | 1970 | Premise Match | 52m | North East |
| | PAINT,VARNISH,OILS/COLOUR MERCHANTS (P074) | Piper, H. & R. L., 295 Pennant Hills Rd., Mobbs Hill | 346333 | 1970 | Premise Match | 52m | North East |
| | HARDWARE DEALERS/IRONMONGERS (H230) | Piper, H. & R. L., 295 Pennant Hills Rd., Mobbs Hill., CARLINGFORD | 315257 | 1970 | Premise Match | 52m | North East |
| | Hardware Dealers &/or Ironmongers | Moraschi L. & D. (The.), 295 Pennant Hills Rd. Carlingford | 99120 | 1965 | Premise Match | 52m | North East |
| | Paint, Varnish, Oils/Colour Merchants | Moraschi, L. & D., 293 Pennant Hills Rd., Mobbs Hill, Carlingford | 130966 | 1965 | Premise Match | 52m | North East |
| | 7 | CLUBS &/OR SPORTING BODIES. | Carlingford Bowling Club, Pennant Hills Rd., Carlingford. 2118 | 18905 | 1986 | Premise Match | 55m |
| CLUBS &/OR SPORTING BODIES.(C5730) | | Carlingford Bowling Club, Pennant Hills Rd., Carlingford. 2118. | 17235 | 1982 | Premise Match | 55m | South |
| CLUBS & SPORTING BODIES (C487) | | Carlingford Bowling Club., Pennant Hills Rd., Carlingford | 284094 | 1970 | Premise Match | 55m | South |
| Clubs & Sporting Bodies | | Carlingford Bowling Club, Pennant Hills Rd., Carlingford | 68801 | 1965 | Premise Match | 55m | South |
| CLUBS & SPORTS BODIES | | Carlingford Bowling Club, Cox Park, Carlingford | 291403 | 1961 | Premise Match | 55m | South |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|---------------------------------------|--|--|---------|---------------|---------------------|--|------------|
| 8 | Fruit Vegetable &/or Produce Merchants &/or W/salers | Carlingford Produce., Railway Station, Carlingford. 2118 | 46619 | 1991 | Premise Match | 56m | West |
| | FRUIT, VEGETABLE, &/OR PRODUCE MERCHANTS &/OR W/SALERS. | Carlingford Produce, Railway Station, Carlingford. 2118 | 35582 | 1986 | Premise Match | 56m | West |
| | TRACTOR MFRS. &/OR IMPS. &/OR DISTS. | Carlingford Tractors, Railway Station, Carlingford. 2118 | 94726 | 1986 | Premise Match | 56m | West |
| | PRODUCE MERCHANTS-WHOLESALE. (P8960) | Carlingford Produce, Railway Station, Carlingford. 2118. | 67030 | 1982 | Premise Match | 56m | West |
| | TRACTOR IMPS. &/OR MFRS. &/OR DISTS. (T6450) | Carlingford Tractors, Railway Station, Carlingford. 2118. | 81350 | 1982 | Premise Match | 56m | West |
| | MERCHANTS-GENERAL. | Producers Co-op. Ltd., Railway Goods Yd., Carlingford. 2118 | 45344 | 1978 | Premise Match | 56m | West |
| | MILLERS-GRISTERS. | Producers Co-op. Ltd., Railway Goods Yd., Carlingford. 2118 | 46268 | 1978 | Premise Match | 56m | West |
| | PRODUCE MERCHANTS-GRAIN &/OR SEED-RETAIL. | Producers Co-op. Ltd., Railway Goods Yd., Carlingford. 2118 | 59924 | 1978 | Premise Match | 56m | West |
| | MERCHANTS-GENERAL | Producers Co-op. Ltd., Railway Goods Yd., Carlingford. 2118 | 52650 | 1975 | Premise Match | 56m | West |
| | MILLERS-GRISTERS. | Producers Co-op. Ltd., Railway Goods Yd., Carlingford. 2118 | 54004 | 1975 | Premise Match | 56m | West |
| | PRODUCE MERCHANTS., GRAIN &/OR SEED., RETAIL | Producers Co-op. Ltd., Railway Goods Yd., Carlingford. 2118 | 70390 | 1975 | Premise Match | 56m | West |
| | PRODUCE MERCHANTS-GRAIN & SEED-RETAIL (P854) | Producers Co-op. Ltd., Railway Goods Yard., Carlingford | 353055 | 1970 | Premise Match | 56m | West |
| | MERCHANTS-GENERAL (M240) | Producers Co-operative Ltd., Railway Goods Yard., Carlingford | 329600 | 1970 | Premise Match | 56m | West |
| | MILLERS/GRISTERS (M360) | Producers Co-operative Ltd., Railway Goods Yard., Carlingford | 331411 | 1970 | Premise Match | 56m | West |
| | STOCK FOODS MANUFACTURERS &/OR DISTRIBUTORS | Producers Co-op. Ltd., Railway Goods Yard, Carlingford | 149005 | 1965 | Premise Match | 56m | West |
| | Produce Merchants - Grain & Seed - Retail | Producers Co-op. Ltd., Railway Goods Yard, Carlingford | 136832 | 1965 | Premise Match | 56m | West |
| | Merchants - General | Producers Co-operative Ltd., Railway Goods Yard, Carlingford | 114155 | 1965 | Premise Match | 56m | West |
| | Millers/Gristers | Producers Co-operative Ltd., Railway Goods Yard, Carlingford | 115968 | 1965 | Premise Match | 56m | West |
| | PRODUCE MERCHANTS-GRAIN & SEED-RETAIL | Producers Co-op. Ltd., Railway Goods Yard, Carlingford | 362825 | 1961 | Premise Match | 56m | West |
| | STOCK FOODS MANUFACTURERS &/OR DISTRIBUTORS | Producers Co-op. Ltd., Railway Goods Yard, Carlingford | 254054 | 1961 | Premise Match | 56m | West |
| MERCHANTS—GENERAL | Producers Co-operative Ltd., Railway Goods Yard, Carlingford | 337937 | 1961 | Premise Match | 56m | West | |
| MILLERS/GRISTERS | Producers Co-operative Ltd., Railway Goods Yard, Carlingford | 339800 | 1961 | Premise Match | 56m | West | |
| MILLERS & GRISTERS | Producers Co-operative Ltd. (Grain), Railway Goods Yard, Carlingford | 78345 | 1950 | Premise Match | 56m | West | |
| PRODUCE MERCHANTS-GRAIN & SEED-RETAIL | Producers Co-operative Ltd., Railway Goods Yard, Carlingford | 95670 | 1950 | Premise Match | 56m | West | |
| 9 | POULTRY FARMERS | Clarke, J. G., 10 Post Office St., Carlingford | 93932 | 1950 | Premise Match | 57m | North |
| 10 | Auto Electricians | Pugh, G.H., 2 Post Office St., Carlingford 2118 | 35002 | 1991 | Premise Match | 68m | North East |
| | MOTOR ELECTRICIANS. | Pugh, G. H., 2 Post Office St., Carlingford. 2118 | 62993 | 1986 | Premise Match | 68m | North East |
| | MOTOR ELECTRICIANS, (M6580) | Pugh, G. H., 2 Post Office St., Carlingford. 2118. | 55571 | 1982 | Premise Match | 68m | North East |
| | MOTOR ELECTRICIANS | Pugh, G. H., 2 Post Office St., Carlingford, 2118 | 49054 | 1978 | Premise Match | 68m | North East |
| | MOTOR BUS SERVICES. | Northern Districts Bus Lines Pty. Ltd., 2 Post Office Rd., Carlingford. 2118 | 56893 | 1975 | Premise Match | 68m | North East |
| 11 | RESTAURANTS. | Black Stump, The, Orchard Shopping Village, Carlingford. 2118 | 81134 | 1986 | Premise Match | 81m | North East |
| | ACCOUNTANTS & AUDITORS. | Bullock, David M., Suite 5 Orchard Shopping Village, Carlingford. 2118 | 233 | 1986 | Premise Match | 81m | North East |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|--------|---|---|---------|------|---------------------|--|------------|
| 11 | GROCERS-RETAIL. | Franklins, Carlingford, Orchard Shopping Village, Carlingford. 2118 | 40753 | 1986 | Premise Match | 81m | North East |
| | RESTAURANTS. | Happy Dragon Restaurant, 12 Orchard Shopping Village, Carlingford. 2118 | 81768 | 1986 | Premise Match | 81m | North East |
| | HAIRDRESSERS-LADIES &/OR BEAUTY SALONS. | Jochen Zalm, 11 Orchard Shopping Village, Carlingford. 2118 | 42478 | 1986 | Premise Match | 81m | North East |
| | DRESS FABRIC RETAILERS. | Knitwit, 1 Orchard Shopping Village, Carlingford. 2118 | 25054 | 1986 | Premise Match | 81m | North East |
| | BUTCHERS-RETAIL. | Mr. Meat, 16 Orchard Shopping Village, Carlingford. 2118 | 10328 | 1986 | Premise Match | 81m | North East |
| | RESTAURANTS. | Schroeders, 5 Orchard Shopping Village, Carlingford. 2118 | 82807 | 1986 | Premise Match | 81m | North East |
| | RESTAURANTS. | SeaWife Seafood, 9 Orchard Shopping Village, Carlingford. 2118 | 82813 | 1986 | Premise Match | 81m | North East |
| | TRAVEL AGENCIES &/OR BOOKING OFFICES. | Victors International Travel, 17 Orchard Shopping Village, Carlingford. 2067 | 95761 | 1986 | Premise Match | 81m | North East |
| | CARPET &/OR FLOOR COVERING RETAILERS &/OR SPECIALISTS.(C1830) | Carlingford Floor Coverings, 3 Orchard Shopping Village, Carlingford. 2118. | 13401 | 1982 | Premise Match | 81m | North East |
| | TRAVEL AGENCIES &/OR BOOKING OFFICES. (T7425) | Cosmopolitan Travel, 17 Orchard Village, Carlingford. 2118. | 81822 | 1982 | Premise Match | 81m | North East |
| | RESTAURANTS. (R5180) | Fortuna Restaurant, 12 Orchard Shopping Village, Carlingford. 2118. | 70853 | 1982 | Premise Match | 81m | North East |
| | GROCERS - RETAIL. (G7850) | Franklins, Orchard Shopping Village, Carlingford. 2118. | 37668 | 1982 | Premise Match | 81m | North East |
| | DRESS SHOPS & ACCESSORIES.(D7450) | Jades of Carlingford, 2 Orchard Shopping Village, Carlingford. 2118. | 22955 | 1982 | Premise Match | 81m | North East |
| | DRESS FABRIC RETAILERS. (D7150) | Knitwit, 1 Orchard Shopping Village, Carlingford. 2118. | 22370 | 1982 | Premise Match | 81m | North East |
| | BUTCHERS - RETAIL. (B8040) | Mr. Meat, 16 Orchard Shopping Village, Carlingford. 2118. | 11276 | 1982 | Premise Match | 81m | North East |
| | FASTENER MFRS. &/OR DISTS.(F0530) | New System Fasteners (N. S. W.) Pty. Ltd., Shop 14, Orchard Shopping Centre, Pennant Hills Rd., Carlingford. 2118 | 30076 | 1982 | Premise Match | 81m | North East |
| | FLORISTS - RETAIL. (F4125) | Orchard Village Florist, 7 Orchard Shopping Village, Carlingford.2118. | 31550 | 1982 | Premise Match | 81m | North East |
| | BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000) | Top Trim, 11 Orchard Shopping Village, Carlingford. 2118. | 6661 | 1982 | Premise Match | 81m | North East |
| | OPTIMETRISTS-REGISTERED. | Burgoyne R F, 54 Village Centre Carlingford 2118 | 54967 | 1978 | Premise Match | 81m | North East |
| | CAKE SHOPS &/OR PASTRYCOOKS. | McIntosh, R. & B.V. Pty. Ltd., 13 Village Centre, Carlingford. 2118 | 10869 | 1978 | Premise Match | 81m | North East |
| | HAIRDRESSERS (GENT.'S) (H070) | Blundell, A., 281 Church (Marsden) St., Mobbs Hill, Crlngfrd | 313647 | 1970 | Premise Match | 81m | North East |
| | LAWN MOWER SALES/SERVICE (L310) | Breen Mart Service Station., 382 Pennant Hills Rd., Carlingford | 322756 | 1970 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Breen Mart Service Station., 382 Pennant Hills Rd., CARLINGFORD | 337427 | 1970 | Premise Match | 81m | North East |
| | MOTOR ENGINE RECONDITIONERS(M624) | Breen, Mart Service Station., 382 Pennant Hills Rd., Carlingford | 336997 | 1970 | Premise Match | 81m | North East |
| | MOTOR CYLINDER REBORES (M608) | Breen, Mart Service Station., 382 Pennant Hills Rd., Crlngfrd. | 336654 | 1970 | Premise Match | 81m | North East |
| | BOOT & SHOE REPAIRERS | Horton, GF., 283 Church (Marsden) St., Mobbs Hill, Carlingford. | 268923 | 1970 | Premise Match | 81m | North East |
| | Motor Garages & Engineers | Breen Mart Service Station, 382 Pennant Hills Rd. Carlingford | 122388 | 1965 | Premise Match | 81m | North East |
| | Lawn Mower Sales/Service | Breen Mart Service Station, 382 Pennant Hills Rd., Carlingford | 107305 | 1965 | Premise Match | 81m | North East |
| | Motor Engine Reconditioners | Breen, Mart Service Station, 382 Pennant Hills Rd., Carlingford | 121866 | 1965 | Premise Match | 81m | North East |
| | Motor Cylinder Rebores | Breen, Mart Service Station, 382 Pennant Hills Rd., Carlingford. | 121449 | 1965 | Premise Match | 81m | North East |
| | Engineers - Agricultural | Edney, A. & Son., 380 Pennant Hills Rd., Carlingford | 80628 | 1965 | Premise Match | 81m | North East |

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|--------|---|---|---------|------|---------------------|--|------------|
| 11 | Agricultural Machinery Repairs | Edney, D. W. & Son., 380 Pennant Hills Rd., Carlingford | 45520 | 1965 | Premise Match | 81m | North East |
| | Profile Cutting Specialists | Edney, D. W. & Son., 380 Pennant Hills Rd., Carlingford | 136984 | 1965 | Premise Match | 81m | North East |
| | Welders - Electric &/or Oxy | Edney, D. W. & Sons., 380 Pennant Hills Rd., Carlingford | 156439 | 1965 | Premise Match | 81m | North East |
| | Blacksmiths | Edney, V. W. & Son., 380 Pennant Hills Rd., Carlingford | 51638 | 1965 | Premise Match | 81m | North East |
| | Musical Instrument Repairers/Reconditioners | McDarmont, D. & M., 277 Marsden Rd., Carlingford | 127874 | 1965 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS | Brookers Garage Rear 277 Marsden Rd. CARLINGFORD | 346743 | 1961 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS | Brookers Garage, Rear 277 Marsden Rd. CARLINGFORD | 346744 | 1961 | Premise Match | 81m | North East |
| | ENGINEERS-GENERAL/MFRG./MECHANICAL | Dundas Engineering Co., 277 Marsden Rd., Carlingford | 306399 | 1961 | Premise Match | 81m | North East |
| | VALVES/COCKS, Etc. MFRS. | Dundas Engineering Co., 277 Marsden Rd., Carlingford | 260760 | 1961 | Premise Match | 81m | North East |
| | ENGINEERS-AGRICULTURAL | Edney, A. & Son, 380 Pennant Hills Rd., Carlingford | 304635 | 1961 | Premise Match | 81m | North East |
| | BUILDERS & CONTRACTORS | McDarmont, D. & M., 277 Marsden Rd., Carlingford | 276520 | 1961 | Premise Match | 81m | North East |
| 12 | Property Management | United Realty Co. Pty. Ltd, 788 Pennant Hills Rd., Carlingford. 2118 | 59726 | 1991 | Premise Match | 104m | North |
| | Real Estate Agents | United Realty Co. Pty. Ltd., 788 Pennant Hills Rd., Carlingford. 2118 | 97179 | 1991 | Premise Match | 104m | North |
| | MOTOR CYCLE ACCESSORIES &/OR SPARE PARTS DEALERS. | Carlingford Motor Cycles, 788 Pennant Hills Rd., Carlingford. 2118 | 62627 | 1986 | Premise Match | 104m | North |
| | MOTOR-CYCLE SALES &/OR SERVICE. | Carlingford Motor Cycles, 788 Pennant Hills Rd., Carlingford. 2118 | 62695 | 1986 | Premise Match | 104m | North |
| | PROPERTY MANAGEMENT. | United Realty Co. Pty. Ltd., 788 Pennant Hills Rd., Carlingford. 2118 | 78015 | 1986 | Premise Match | 104m | North |
| | REAL ESTATE AGENTS | United Realty Co. Pty. Ltd., 788 Pennant Hills Rd., Carlingford. 2118 | 80296 | 1986 | Premise Match | 104m | North |
| | MOTOR CYCLE SALES &/ORSERVICE. (M6380) | Carlingford Motor Cycles, 788 Pennant Hills Rd., Carlingford. 2118 | 55321 | 1982 | Premise Match | 104m | North |
| | MOTOR CYCLE ACCESSORIES&/OR SPARE PARTS DEALERS.(M6260) | Carlingford Motor Cycles, 788 Pennant Hills Rd., Carlingford. 2118. | 55274 | 1982 | Premise Match | 104m | North |
| | PROPERTY MANAGEMENT. (P9060) | United Realty Co. Pty. Ltd., 788 Pennant Hills Rd., Carlingford. 2118. | 67636 | 1982 | Premise Match | 104m | North |
| | REAL ESTATE AGENTS. (R2555) | United Realty Co. Pty. Ltd., 788 Pennant Hills Rd., Carlingford. 2118. | 69819 | 1982 | Premise Match | 104m | North |
| | REAL ESTATE AGENTS &/OR VALUERS. | United Realty Co. Pty. Ltd, 788 Pennant Hills Rd, Carlingford. 2118 | 62340 | 1978 | Premise Match | 104m | North |
| | TRAVEL AGENCIES &/OR BOOKING OFFICES. | United Realty Travel Centre Pty. Ltd, 788 Pennant Hills Rd, Carlingford. 2118 | 72510 | 1978 | Premise Match | 104m | North |
| | REAL ESTATE AGENTS &/OR VALUERS. | United Realty Co., 788 Pennant Hills Rd., Carlingford. 2118 | 73066 | 1975 | Premise Match | 104m | North |
| | REAL ESTATE AGENTS/VALUERS(R205) | United Realty Co., 788 Pennant Hills Rd., CARLINGFORD | 356144 | 1970 | Premise Match | 104m | North |
| | Real Estate Agents/Valuers | Carlingford Estate Agency., 788 Pennant Hills Rd. Carlingford | 139071 | 1965 | Premise Match | 104m | North |
| 13 | Motor Garages & Service Stations | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford 2118 | 53930 | 1991 | Premise Match | 106m | North East |
| | Motor Steering Specialists | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford 2118 | 55185 | 1991 | Premise Match | 106m | North East |
| | MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 66693 | 1986 | Premise Match | 106m | North East |
| | MOTOR GARAGES & SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 65525 | 1986 | Premise Match | 106m | North East |
| | MOTOR STEERING SPECIALISTS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 67822 | 1986 | Premise Match | 106m | North East |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|--------|--|---|---------|------|---------------------|--|------------|
| 13 | MOTOR TUNING SPECIALISTS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 68486 | 1986 | Premise Match | 106m | North East |
| | WELDERS - ELECTRIC &/OR OXY. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 98740 | 1986 | Premise Match | 106m | North East |
| | MOTOR TRIMMERS. (M8260) | Lett, J., 1 Post Office Rd., Carlingford. 2118. | 59805 | 1982 | Premise Match | 106m | North East |
| | UPHOLSTERERS. (U0450) | Lett, J., 1 Post Office Rd., Carlingford. 2118. | 82869 | 1982 | Premise Match | 106m | North East |
| | MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360) | Rizzardo Bros Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 58649 | 1982 | Premise Match | 106m | North East |
| | BLACKSMITHS. (B2800) | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118. | 6935 | 1982 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118. | 57642 | 1982 | Premise Match | 106m | North East |
| | MOTOR STEERING SPECIALISTS.(M8100) | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118. | 59560 | 1982 | Premise Match | 106m | North East |
| | MOTOR TUNING SPECIALISTS.(M8350) | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118. | 59920 | 1982 | Premise Match | 106m | North East |
| | WELDERS - ELECTRIC &/OR OXY.(W3160) | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118. | 84261 | 1982 | Premise Match | 106m | North East |
| | MOTOR TRIMMERS. | Lett, J, 1 Post Office Rd, Carlingford 2118 | 53278 | 1978 | Premise Match | 106m | North East |
| | UPHOLSTERERS. | Lett, J., 1 Post Office Rd., Carlingford. 2118 | 73114 | 1978 | Premise Match | 106m | North East |
| | BLACKSMITHS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 5944 | 1978 | Premise Match | 106m | North East |
| | MOTOR PAINTERS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 51633 | 1978 | Premise Match | 106m | North East |
| | MOTOR PANEL BEATERS | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 52308 | 1978 | Premise Match | 106m | North East |
| | MOTOR STEERING SPECIALISTS. | Sundeck Service Station, 792 Pennant Hills Rd, Carlingford 2118 | 53082 | 1978 | Premise Match | 106m | North East |
| | MOTOR CARBURETTOR &/OR TUNING SPECIALISTS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 48681 | 1978 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 50891 | 1978 | Premise Match | 106m | North East |
| | WELDERS-ELECTRIC &/OR OXY. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 74350 | 1978 | Premise Match | 106m | North East |
| | MOTOR TRIMMERS. | Lett, J., 1 Post Office Rd., Carlingford. 2118 | 62810 | 1975 | Premise Match | 106m | North East |
| | UPHOLSTERERS. | Lett, J., 1 Post Office Rd., Carlingford. 2118 | 85779 | 1975 | Premise Match | 106m | North East |
| | MOTOR ELECTRICIANS. | Pugh, G., Rear 792 Pennant Hills Rd., Carlingford. 2118. | 58026 | 1975 | Premise Match | 106m | North East |
| | MOTOR CHASSIS STRAIGHTENERS &/OR REPAIRERS &/OR SPECIALISTS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118. | 57654 | 1975 | Premise Match | 106m | North East |
| | AGRICULTURAL MACHINERY REPAIRS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 1425 | 1975 | Premise Match | 106m | North East |
| | BLACKSMITHS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 6363 | 1975 | Premise Match | 106m | North East |
| | MOTOR BODY BUILDERS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 56576 | 1975 | Premise Match | 106m | North East |
| | MOTOR PAINTERS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 60382 | 1975 | Premise Match | 106m | North East |
| | MOTOR PANEL BEATERS. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 61074 | 1975 | Premise Match | 106m | North East |
| | WELDERS., Electric &/OR OXY. | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford. 2118 | 87060 | 1975 | Premise Match | 106m | North East |
| | WELDERS., Electric &/OR OXY. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 87100 | 1975 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS. | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford. 2118 | 59592 | 1975 | Premise Match | 106m | North East |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|-----------------------------|---|---|---------|---------------|---------------------|--|------------|
| 13 | MOTOR STEERING SPECIALISTS. | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford. 2118 | 62623 | 1975 | Premise Match | 106m | North East |
| | MOTOR CARBURETTOR &/OR TUNING SPECIALISTS | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford. 2118. | 57640 | 1975 | Premise Match | 106m | North East |
| | AGRICULTURAL MACHINERY REPAIRS (A226) | Rizzardo Bros Co. Pty. Ltd., 1 Post Office Rd., Carlingford, 2118 | 260642 | 1970 | Premise Match | 106m | North East |
| | BLACKSMITHS (B382) | Rizzardo Bros Co. Pty. Ltd., 1 Post Office Rd., Carlingford, 2118 | 267122 | 1970 | Premise Match | 106m | North East |
| | MOTOR PAINTERS (M672) | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford 2118 | 339600 | 1970 | Premise Match | 106m | North East |
| | MOTOR CHASSIS STRAIGHTENERS &/OR REPAIRERS/SPECIALISTS (M574) | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford, 211 8 | 336488 | 1970 | Premise Match | 106m | North East |
| | MOTOR PANEL BEATERS (M680) | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford, 2118 | 340373 | 1970 | Premise Match | 106m | North East |
| | MOTOR BODY BUILDERS (M488) | Rizzardo Bros. Co. Pty. Ltd., 1 Post Office Rd., Carlingford2118 | 335218 | 1970 | Premise Match | 106m | North East |
| | WELDERS-ELECTRIC &/OR OXY | Rizzardo Bros.Co. Pty. Ltd., 1 Post Office Rd., Carlingford, 2118 | 373932 | 1970 | Premise Match | 106m | North East |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Sundeck Service Station., 792 Pennant Hills Rd., CARLINGFORD | 338681 | 1970 | Premise Match | 106m | North East |
| | MOTOR STEERING SPECIALISTS (M736) | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford | 342359 | 1970 | Premise Match | 106m | North East |
| | WELDERS-ELECTRIC &/OR OXY | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford | 373995 | 1970 | Premise Match | 106m | North East |
| | Motor Garages & Engineers | Sundeck Service Station, 792 Pennant Hills Rd. Carlingford | 122393 | 1965 | Premise Match | 106m | North East |
| | Motor Steering Specialists | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford | 126949 | 1965 | Premise Match | 106m | North East |
| Welders - Electric &/or Oxy | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford | 156838 | 1965 | Premise Match | 106m | North East | |
| 14 | SECONDHAND DEALERS | Box, Robt. G. H., Cnr. Post Office Lane and Pennant Hills Rd., Carlingford | 101084 | 1950 | Road Intersection | 121m | North East |
| | ANTIQUA DEALERS | Cranleigh Gallery, Cnr. Post Office Lane and Pennant Hills Rd., Carlingford | 1828 | 1950 | Road Intersection | 121m | North East |
| | BOOT & SHOE REPAIRERS | Meehan, J. H., Cnr. Post Office Lane and Pennant Hills Rd., Carlingford | 10447 | 1950 | Road Intersection | 121m | North East |
| 15 | Tool Mfrs &/or Dists | Rogers Tools Sales Pty Ltd, 845 Pennant Hills Rd Carlingford 2118 | 64513 | 1991 | Premise Match | 125m | North East |
| | Tool Mfrs &/or Dists | ROGERS TOOLS SALES PTY LTD, Cnr Pennant Hills Rd & Keeler St Carlingford 2118 | 64512 | 1991 | Premise Match | 125m | North East |
| | TOOL DEALERS-RETAIL. | Rogers Tool & Equipment Co, 845 Pennant Hills Rd, Carlingford.2118 | 71175 | 1978 | Premise Match | 125m | North East |
| | MACHINE TOOL MFRS. &/OR IMPS. &/OR DIST. | Rogers Tool & Equipment Co., 845 Pennant Hills Rd., Carlingford. 2118 | 40713 | 1978 | Premise Match | 125m | North East |
| 16 | Property Management | Glenhaven Real Estate, 843 Pennant Hills Rd Carlingford 2118 | 59613 | 1991 | Premise Match | 127m | North East |
| | Auctioneers Real Estate | Glenhaven Real Estate, 843 Pennant Hills Rd., Carlingford 2118 | 34703 | 1991 | Premise Match | 127m | North East |
| | AUCTIONEERS REAL ESTATE | Eke, Kevin Real Estate, 843 Pennant Hills Rd, Carlingford. 2118 | 4399 | 1986 | Premise Match | 127m | North East |
| | VALUERS - REAL ESTATE. | Eke, Kevin Real Estate, 843 Pennant Hills Rd. Carlingford. 2118 | 96848 | 1986 | Premise Match | 127m | North East |
| | PROPERTY MANAGEMENT. | Eke, Kevin Real Estate, 843 Pennant Hills Rd., Carlingford. 2118 | 77537 | 1986 | Premise Match | 127m | North East |
| | REAL ESTATE AGENTS. | Eke, Kevin Real Estate, 843 Pennant Hills Rd., Carlingford. 2118 | 79391 | 1986 | Premise Match | 127m | North East |
| | DENTAL LABORATORIES &/OR TECHNICIANS. (D1700) | Rutherford, A. B., 843 Pennant Hills Rd., Carlingford. 2118. | 19887 | 1982 | Premise Match | 127m | North East |
| | DENTAL LABORATORIES &/OR TECHNICIANS. | Rutherford, A. B., 843 Pennant Hills Rd., Carlingford. 2118 | 17820 | 1978 | Premise Match | 127m | North East |
| | DENTAL LABORATORIES &/OR TECHNICIANS | Rutherford, A. B., 843 Pennant Hills Rd., Carlingford. 2118 | 20672 | 1975 | Premise Match | 127m | North East |

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|--------|---|---|---------|------|---------------------|--|------------|
| 17 | MEDICAL PRACTITIONERS. (M2020) | Sanderson, E. J., 9 Lloyds Ave., Carlingford. 2118. | 50134 | 1982 | Premise Match | 129m | South West |
| | MEDICAL PRACTITIONERS. (M2020) | Swan, C. R., 9 Lloyds Ave., Carlingford. 2118. | 50500 | 1982 | Premise Match | 129m | South West |
| | MEDICAL PRACTITIONERS. | Sanderson, E. J., 9 Lloyds Ave., Carlingford. 2151 | 44152 | 1978 | Premise Match | 129m | South West |
| | MEDICAL PRACTITIONERS. | Swan, C. R., 9 Lloyds Ave., Carlingford. 2151 | 44423 | 1978 | Premise Match | 129m | South West |
| | MEDICAL PRACTITIONERS. | Sanderson, E. J., 9 Lloyds Ave., Carlingford. 2151. | 51468 | 1975 | Premise Match | 129m | South West |
| | MEDICAL PRACTITIONERS. | Swan, C. R., 9 Lloyds Ave., Carlingford. 2151 | 51677 | 1975 | Premise Match | 129m | South West |
| | MEDICAL PRACTITIONERS (M216) | Sanderson, E. J., 9 Lloyds Ave., Carlingford | 328141 | 1970 | Premise Match | 129m | South West |
| | MEDICAL PRACTITIONERS (M216) | Swan, C. Russell., 9 Lloyds Ave., Carlingford | 328359 | 1970 | Premise Match | 129m | South West |
| 18 | RESTAURANTS. | Bronze Lion, 841 Pennant Hills Rd., Carlingford. 2118 | 81176 | 1986 | Premise Match | 131m | North East |
| | RESTAURANTS. (R5180) | Bronze Lion, 841 Pennant Hills Rd., Carlingford. 2118. | 70530 | 1982 | Premise Match | 131m | North East |
| | RESTAURANTS. | Golden Sampan, 841 Pennant Hills Rd, Carlingford. 2118 | 63010 | 1978 | Premise Match | 131m | North East |
| | RESTAURANTS. | Golden Sampan., 841 Pennant Hills Rd., Carlingford. 2118 | 73779 | 1975 | Premise Match | 131m | North East |
| | RESTAURANTS (R320) | Golden Sampan, 841 Pennant Hills Rd., Carlingford | 357012 | 1970 | Premise Match | 131m | North East |
| 19 | Builders &/or Building Contractors | Kinchin, E., 7 Thallon St. Carlingford 2118 | 36856 | 1991 | Premise Match | 132m | West |
| | BUILDERS &/OR BUILDING CONTRACTORS. | Kinchin, E., 7 Thallon St., Carlingford. 2118 | 8154 | 1986 | Premise Match | 132m | West |
| | BUILDERS &/OR BUILDING CONTRACTORS. (B6920) | Kinchin, E., 7 Thallon St., Carlingford. 2118. | 9316 | 1982 | Premise Match | 132m | West |
| | BUILDERS &/OR BUILDING CONTRACTORS. | Kinchin, E., 7 Thallon St., Carlingford. 2118 | 7774 | 1978 | Premise Match | 132m | West |
| | BUILDERS &/OR BUILDING CONTRACTORS (M.M.B.A.) | Kinchin, E., 7 Thallon St., Carlingford. 2118 | 8853 | 1975 | Premise Match | 132m | West |
| | BUILDERS & CONTRACTORS- (M.M.B.A.) (B796) | Kinchin, E., 7 Thallon St., Carlingford | 270691 | 1970 | Premise Match | 132m | West |
| 20 | Property Management | Carlingford Real Estate, 13/835 Pennant Hills Rd Carlingford 2118 | 59575 | 1991 | Premise Match | 135m | North East |
| | Computer Software | Mine Map, 13/835 Pennant Hills Rd., Carlingford 2118 | 40344 | 1991 | Premise Match | 135m | North East |
| | Printers General | Pickwick Printing, 835 Pennant Hills Rd., Carlingford. 2118 | 58840 | 1991 | Premise Match | 135m | North East |
| | Interior Decorators | World Wide Wallpapers Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 49701 | 1991 | Premise Match | 135m | North East |
| | DENTISTS. | Bisnieks, A. L., 835 Pennant Hills Rd., Carlingford. 2118 | 22315 | 1986 | Premise Match | 135m | North East |
| | DENTISTS. | Bisnieks, R. S., 835 Pennant Hills Rd., Carlingford. 2118 | 22316 | 1986 | Premise Match | 135m | North East |
| | PROPERTY MANAGEMENT. | Carlingford Real Estate, 13/835 Pennant Hills Rd., Carlingford. 2118 | 77471 | 1986 | Premise Match | 135m | North East |
| | REAL ESTATE AGENTS. | Carlingford Real Estate, 13/835 Pennant Hills Rd., Carlingford. 2118 | 79233 | 1986 | Premise Match | 135m | North East |
| | DOG & CAT CLIPPING &/OR GROOMING PARLOURS. | Regal Dog Boutique, 835 Pennant Hills Rd, Carlingford. 2118 | 24541 | 1986 | Premise Match | 135m | North East |
| | ELECTRICAL CONTRACTORS- LICENSED. | Sandy Wightman & Co. Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 27197 | 1986 | Premise Match | 135m | North East |
| | CHIROPRACTORS. | Wade-Ferrell, T., 835 Pennant Hills Rd., Carlingford. 2118 | 15297 | 1986 | Premise Match | 135m | North East |
| | WALLPAPER MERCHANTS. | World Wide Wallpapers Pty. Ltd. 835 Pennant Hills Rd. Carlingford. 2067 | 98175 | 1986 | Premise Match | 135m | North East |
| | INTERIOR DECORATORS. | World Wide Wallpapers Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 49206 | 1986 | Premise Match | 135m | North East |
| | DENTISTS. (D1800) | Bismeks, A. L., 835 Pennant Hills Rd., Carlingford. 2118. | 20003 | 1982 | Premise Match | 135m | North East |

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|----------------------------------|--|---|---------|---------------|---------------------|--|------------|
| 20 | DENTISTS. (D1800) | Bisnieks. R. S., 835 Pennant Hills Rd., Carlingford. 2118. | 20004 | 1982 | Premise Match | 135m | North East |
| | BUILDERS &/OR BUILDING CONTRACTORS. (B6920) | Glennville Homes Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118. | 9264 | 1982 | Premise Match | 135m | North East |
| | PROPERTY DEVELOPERS. (P9052) | Glennville Homes Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118. | 67103 | 1982 | Premise Match | 135m | North East |
| | BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000) | Kays Swirls & Curls, 835 Pennant Hills Rd., Carlingford. 2118. | 6012 | 1982 | Premise Match | 135m | North East |
| | REAL ESTATE AGENTS. (R2555) | Northwest Real Estate Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118. | 69468 | 1982 | Premise Match | 135m | North East |
| | DOG CLIPPING &/OR GROOMING PARLOURS. (D5200) | Regal Dog Boutique, 835 Pennant Hills Rd., Carlingford. 2118. | 21892 | 1982 | Premise Match | 135m | North East |
| | ELECTRICAL CONTRACTORS -LICENSED. (E3360) | Sandy Wightman & Co. Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118. | 25539 | 1982 | Premise Match | 135m | North East |
| | WALLPAPER MERCHANTS. (W0600) | World Wide Wallpapers Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118. | 83727 | 1982 | Premise Match | 135m | North East |
| | DENTISTS. | Bisnieks, R. S. & A. L., 835 Pennant Hills Rd., Carlingford. 2118 | 17917 | 1978 | Premise Match | 135m | North East |
| | BEAUTY SALONS &/OR LADIES HAIRDRESSERS. | Dannys Coiffure, 835 Pennant Hills Rd., Carlingford. 2118 | 4895 | 1978 | Premise Match | 135m | North East |
| | INSURANCE ASSESSORS &/OR ADJUSTERS. | Denyer, A.F. & Co., 835 Pennant Hills Rd., Carlingford. 2118 | 37876 | 1978 | Premise Match | 135m | North East |
| | TRACTOR IMPS. &/OR MFRS. &/OR DIST. | Same Tractors, 835 Pennant Hills Rd, Carlingford. 2118 | 71885 | 1978 | Premise Match | 135m | North East |
| | ELECTRICAL CONTRACTORS-LICENSED. | Sandy Wightman & Co. Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 22488 | 1978 | Premise Match | 135m | North East |
| | DENTISTS. | Bisnieks, R. S. & A. L., 835 Pennant Hills Rd., Carlingford. 2118 | 20774 | 1975 | Premise Match | 135m | North East |
| | BEAUTY SALONS &/OR LADIES HAIRDRESSERS. | Danny's Coiffure, 835 Pennant Hills Rd., Carlingford. 2118 | 5131 | 1975 | Premise Match | 135m | North East |
| | BOOKBINDERS. | E.R. Printing & Binding Service, 835 Pennant Hills Rd., Carlingford. | 7151 | 1975 | Premise Match | 135m | North East |
| | PRINTERS-LETTERPRESS. | E.R. Printing & Binding Service., 835 Pennant Hills Rd., Carlingford. 2118 | 69412 | 1975 | Premise Match | 135m | North East |
| | DRAUGHTSMEN. | Geralcom Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 22696 | 1975 | Premise Match | 135m | North East |
| | BUSINESS AGENTS &/OR BROKERS. | North West Real Estate Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 9847 | 1975 | Premise Match | 135m | North East |
| | REAL ESTATE AGENTS &/OR VALUERS. | North West Real Estate Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 72753 | 1975 | Premise Match | 135m | North East |
| | SOLICITORS. | Noyce, M. J., 835 Pennant Hills Rd., Carlingford. 2118 | 78593 | 1975 | Premise Match | 135m | North East |
| | CONCRETE PRODUCTS MFRS. &/OR DIST. | Rascrete Industries Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 18554 | 1975 | Premise Match | 135m | North East |
| | ENGINEERS-DESIGNING | Rescrete Engineering Pty. Ltd., 835 Pennant Hills Rd., Carlingford. 2118 | 28029 | 1975 | Premise Match | 135m | North East |
| | AGRICULTURAL MACHINERY MFRS. &/OR DIST. | Same Australian Liasion Office. 839 Pennant Hills Rd., Carlingford. 2118 | 1401 | 1975 | Premise Match | 135m | North East |
| | TRACTOR IMPS. &/OR MFRS. &/OR DIST. | Same Tractors, 835 Pennant Hills Rd., Carlingford. 2118 | 84605 | 1975 | Premise Match | 135m | North East |
| | RAZOR & RAZOR BLADE MFRS. &/OR DIST. | Sheffield Razor Co., 835 Pennant Hills Rd., Carlingford. 2118 | 71888 | 1975 | Premise Match | 135m | North East |
| | SURVEYORS-LAND. | Turnbridge, G. R., Jones & Pike., 835 Pennant Hills Rd., Carlingford. 2118 | 81434 | 1975 | Premise Match | 135m | North East |
| LANDSCAPE GARDENERS. | Urban Landscapes., 839 Pennant Hills Rd., Carlingford. 2118 | 46842 | 1975 | Premise Match | 135m | North East | |
| ELECTRICAL CONTRACTORS-LICENSED. | Wightman, Sandy & Co. Pty. Ltd., 835 Pennant Hills Rd, Carlingford. 2118 | 25963 | 1975 | Premise Match | 135m | North East | |
| 21 | Real Estate Agents | Shipway, Peter., 833 Pennant Hills Rd., Carlingford. 2118 | 60747 | 1991 | Premise Match | 148m | North East |
| | INSURANCE BROKERS. | Casey Insurance Brokers Pty. Ltd., 833 Pennant Hills Rd., Carlingford. 2118 | 48726 | 1986 | Premise Match | 148m | North East |
| | PROPERTY MANAGEMENT. | Shipway, Peter, 833 Pennant Hills Rd., Carlingford. 2118 | 77958 | 1986 | Premise Match | 148m | North East |

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| 21 | REAL ESTATE AGENTS. | Shipway, Peter, 833 Pennant Hills Rd., Carlingford. 2118 | 80177 | 1986 | Premise Match | 148m | North East |
| | INSURANCE BROKERS. (I4250) | Casey Insurance Brokers Pty. Ltd., 833 Pennant Hills Rd., Carlingford. 2118. | 42565 | 1982 | Premise Match | 148m | North East |
| | REAL ESTATE AGENTS. (R2555) | Jones-Douglas Pty. Ltd., 833 Pennant Hills Rd., Carlingford. 2118 | 69247 | 1982 | Premise Match | 148m | North East |
| | AUCTIONEERS-GENERAL. (A8310) | North West Real Estate Pty. Ltd., 833 Pennant Hills Rd., Carlingford. 2118. | 3822 | 1982 | Premise Match | 148m | North East |
| | BUSINESS AGENTS &/OR BROKERS. (B7920) | North West Real Estate Pty. Ltd., 833 Pennant Hills Rd., Carlingford. 2118. | 10348 | 1982 | Premise Match | 148m | North East |
| | STONE MASONS | C. & C. Stonecraft Pty. Ltd., 833 Pennant Hills Rd., Carlingford. 2118 | 68673 | 1978 | Premise Match | 148m | North East |
| | BUSINESS AGENTS &/OR BROKERS. | North West Real Estate Pty. Ltd., 833 Pennant Hills Rd., Carlingford. 2118 | 8740 | 1978 | Premise Match | 148m | North East |
| | REAL ESTATE AGENTS &/OR VALUERS. | North West Real Estate Pty. Ltd., 833 Pennant Hills Rd., Carlingford. 2118 | 62057 | 1978 | Premise Match | 148m | North East |
| | STONE MASONS. | C. & C. Stonemasons Stonecraft., 833 Pennant Hills Rd., Carlingford. 2118. | 81214 | 1975 | Premise Match | 148m | North East |
| | REAL ESTATE AGENTS &/OR VALUERS. | Hickin Real Estate., 833 Pennant Hills Rd., Carlingford. 2118 | 72435 | 1975 | Premise Match | 148m | North East |
| | STONE MASONS (S769) | Classic & Contemporary Stonecraft, 833 Pennant Hills Rd., Carlingford, 2118 | 366157 | 1970 | Premise Match | 148m | North East |
| | LANDSCAPE GARDENERS (L200) | Classic & Contemporary Stonecraft., 833 Pennant Hills Rd., Carlingford, 2118 | 322451 | 1970 | Premise Match | 148m | North East |

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Business Directory Records 1950-1991 Road or Area Matches

Universal Business Directory records 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 |
|--------|---|---|---------|------|---------------------|-----------------------------------|
| 22 | Motor Garages & Service Stations | Carlingford Service Centre, Pennant Hills Rd., Carlingford 2118 | 97424 | 1991 | Road Match | 0m |
| | MOTELS. | Beecroft West Motel, Pennant Hills Rd., Carlingford. 2118 | 60544 | 1986 | Road Match | 0m |
| | MOTOR GARAGES & SERVICE STATIONS. | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118 | 64434 | 1986 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118. | 56487 | 1982 | Road Match | 0m |
| | TOOL DEALERS - RETAIL. (T5350) | Rogers Tools Sales Pty. Ltd., Pennant Hills Rd., Carlingford 2118. | 80601 | 1982 | Road Match | 0m |
| | MOTOR ACCESSORIES DEALERS.(M4690) | Rogers Tools Sales Pty. Ltd., Pennant Hills Rd., Carlingford. 2118. | 53941 | 1982 | Road Match | 0m |
| | BURGLAR ALARM SYSTEMS MFRS. &/OR DISTS. &/OR INSTALLERS | Carlingford Car Radios Pennant Hills Rd., Carlingford. 2118 | 8540 | 1978 | Road Match | 0m |
| | MOTOR CAR RADIO SPECIALISTS. | Carlingford Car Radios. Pennant Hills Rd., Carlingford. 2118 | 48094 | 1978 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Ampol Service Station., Pennant Hills Rd., Carlingford. 2118 | 58360 | 1975 | Road Match | 0m |
| | MOTOR SERVICE STATIONS - PETROL, OIL | BP Pioneer Service Station., 189 Pennant Hills Rd., Carlingford. 2118 | 61536 | 1975 | Road Match | 0m |
| | MOTOR CAR RADIO SPECIALISTS. | Carlingford Car Radios., Pennant Hills Rd., Carlingford. 2118 | 56943 | 1975 | Road Match | 0m |
| | HOMES &/OR INSTITUTIONS. | Carlingford Boys Home., Pennant Hills Rd., Carlingford. 2118 | 42297 | 1975 | Road Match | 0m |
| | BURGLAR ALARM SYSTEMS MFRS. &/OR DISTS. &/OR INSTALLERS. | Carlingford Car Radios, Pennant Hills Rd., Carlingford. 2118 | 9627 | 1975 | Road Match | 0m |
| | HOMES &/OR INSTITUTIONS. | Carlingford Girls Home., Pennant Hills Rd., Carlingford. 2118 | 42298 | 1975 | Road Match | 0m |
| | DRY CLEANERS, PRESSERS &/OR DYERS. | Galaxy Dry Cleaners, 189b Pennant Hills Rd., Carlingford. 2118 | 24047 | 1975 | Road Match | 0m |
| | HOMES &/OR INSTITUTIONS. | Yallambia ladies Home., Pennant Hills Rd., Carlingford. 2118 | 42403 | 1975 | Road Match | 0m |
| | MOTOR BODY BUILDERS (M488) | Angel, A. R. & Sons Pty. Ltd., Pennant Hills Rd., Carlingford | 335141 | 1970 | Road Match | 0m |
| | MOTOR PANEL BEATERS (M680) | Angel, A. R. & Sons Pty. Ltd., Pennant Hills Rd., Carlingford | 339801 | 1970 | Road Match | 0m |
| | LAWN MOWER SALES/SERVICE (L310) | Carlingford Service Station., Pennant Hills Rd., Carlingford | 322760 | 1970 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Carlingford Service Station., Pennant Hills Rd., Carlingford | 337529 | 1970 | Road Match | 0m |
| | TOY DEALERS-RETAIL | Pipal H. & A., Pennant Hills Rd., Carlingford | 370202 | 1970 | Road Match | 0m |
| | GIFT SHOPS (G180) | Pipal, H. & A., Pennant Hills Rd., Carlingford | 310955 | 1970 | Road Match | 0m |
| | MOTOR CARBURETTOR/TUNING SPECIALISTS (M564) | Sundeck Service Station., Pennant Hills Rd., Carlingford | 336466 | 1970 | Road Match | 0m |
| | HOMES & INSTITUTIONS (H490) | Yallambia Ladies Home., Pennant Hills Rd., Carlingford | 316664 | 1970 | Road Match | 0m |
| | Motor Body Builders | Angel, A. R. & Sons Pty. Ltd., Pennant Hills Rd., Carlingford | 119931 | 1965 | Road Match | 0m |
| | Motor Panel Beaters | Angel, A. R. & Sons Pty. Ltd., Pennant Hills Rd., Carlingford | 124392 | 1965 | Road Match | 0m |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|----------------|---|---|---------|------------|---------------------|-----------------------------------|
| 22 | Motor Spare Parts Dealers - Retail | Breen, M., Pennant Hills Rd., Carlingford | 126356 | 1965 | Road Match | 0m |
| | Real Estate Agents/Valuers | Carlingford Estate Agency (Carberry),, 788 (305) Pennant Hills Rd, Mobbs Hill | 139432 | 1965 | Road Match | 0m |
| | Lawn Mower Sales/Service | Carlingford Service Station, Pennant Hills Rd., Carlingford | 107310 | 1965 | Road Match | 0m |
| | Tyre Dealers, Retreaders & Vulcanizers | Carlingford Service Station, Pennant Hills Rd., Carlingford | 154671 | 1965 | Road Match | 0m |
| | Motor Garages & Engineers | Carlingford Service, Station, Pennant Hills Rd. Carlingford | 122389 | 1965 | Road Match | 0m |
| | Engineers General &/or Mfrg. &/or Mechanical | Edney, D. W. & Son, 380 Pennant Hills Rd., Carlingford | 82328 | 1965 | Road Match | 0m |
| | Motor Garages & Engineers | Gilmore, G. H., Pennant Hills Rd. Carlingford | 122390 | 1965 | Road Match | 0m |
| | Motor Garages & Engineers | Golden Fleece Carlingford, Pennant Hills Rd. Carlingford | 122391 | 1965 | Road Match | 0m |
| | Motor Accessories - Dealers | Grandview Garage (I. Baker, Propr.), Pennant Hills Rd., Carlingford | 119461 | 1965 | Road Match | 0m |
| | Motor Service Stations - Petrol, Oil, Etc. | Hart's Garage, Pennant Hills Rd. Carlingford | 125566 | 1965 | Road Match | 0m |
| | Motor Service Stations - Petrol, Oil, Etc. | Korl Inn Service Station, Pennant Hills Rd. Carlingford | 125567 | 1965 | Road Match | 0m |
| | Gift Shops | Pipal, H. & A., Pennant Hills Rd., Carlingford | 95028 | 1965 | Road Match | 0m |
| | TOY DEALERS--- RETAIL | Pipal, H. & A., Pennant Hills Rd., Carlingford | 153055 | 1965 | Road Match | 0m |
| | Motor Carburettor/Tuning Specialists | Sundeck Service Station, Pennant Hills Rd., Carlingford | 121284 | 1965 | Road Match | 0m |
| | BUTCHERS-RETAIL | Aitchison, R. W., Pennant Hills Rd., Carlingford | 279812 | 1961 | Road Match | 0m |
| | MOTOR BODY BUILDERS | Angel, A. R., Pennant Hills Rd., Carlingford | 344084 | 1961 | Road Match | 0m |
| | MOTOR PANEL BEATERS | Angel, A. R., Pennant Hills Rd., Carlingford | 349328 | 1961 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Baker, I., Pennant Hills Rd. CARLINGFORD | 346581 | 1961 | Road Match | 0m |
| | HAIRDRESSERS (GENT'S) /TOBACCONISTS | Blundell, A., Pennant Hills Rd., Carlingford | 321828 | 1961 | Road Match | 0m |
| | MOTOR ACCESSORIES/DEALERS | Breen, M., Pennant Hills Rd., Carlingford | 343424 | 1961 | Road Match | 0m |
| | MOTOR SPARE PARTS DEALERS---RETAIL | Breen, M., Pennant Hills Rd., Carlingford | 351409 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS---PETROL, OIL, Etc. | Carlingford Service Station, Pennant Hills Rd. CARLINGFORD | 350446 | 1961 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Carlingford Service, Station, Pennant Hills Rd. CARLINGFORD | 346820 | 1961 | Road Match | 0m |
| | CLUBS & SPORTS BODIES | Carlingford Sports Club, Pennant Hills Rd., Carlingford | 291404 | 1961 | Road Match | 0m |
| | COACH & HORSE-DRAWN VEHICLE BUILDERS | Edney, D. W., Pennant Hills Rd., Carlingford | 291858 | 1961 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Gilmore, G. H., Pennant Hills Rd. CARLINGFORD | 347230 | 1961 | Road Match | 0m |
| | MOTOR ACCESSORIES/DEALERS | Grandview Garage (I. Baker, Propr.), Pennant Hills Rd., Carlingford | 343568 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS---PETROL, OIL, Etc. | Hart's Garage, Pennant Hills Rd. Carlingford | 350679 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS---PETROL, OIL, Etc. | Jones, V., Pennant Hills Rd. CARLINGFORD | 350737 | 1961 | Road Match | 0m |
| | MIXED BUSINESS | Kitching, A. P., Pennant Hills Rd., Carlingford | 341466 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS---PETROL, OIL, Etc. | Korl Inn Service Station, Pennant Hills Rd. CARLINGFORD | 350764 | 1961 | Road Match | 0m |
| | MIXED BUSINESS | Pontifex, R. J. & E. L., Pennant Hills Rd., Carlingford | 342124 | 1961 | Road Match | 0m |
| | BABY & CHILDREN'S WEAR-RETAIL | Pontifex, R. J. and E. L., Pennant Hills Rd., Carlingford | 270623 | 1961 | Road Match | 0m |
| DRAPERS-RETAIL | Pontifex, R. J. and E. L., Pennant Hills Rd., Carlingford | 298088 | 1961 | Road Match | 0m | |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|-------------------------------------|--|---|---------|------------|---------------------|-----------------------------------|
| 22 | MIXED BUSINESS | Ralston, A. C., Pennant Hills Rd., Carlingford | 342176 | 1961 | Road Match | 0m |
| | CHEMISTS-PHARMACEUTICAL | Rockliff, P., Pennant Hills Rd., Mobbs Hill, Carlingford | 288053 | 1961 | Road Match | 0m |
| | MILK, FRUIT JUICE BARS/CONFECTIONERS | Shields, B. S., Pennant Hills Rd., Mobbs Hill, Carlingford | 339618 | 1961 | Road Match | 0m |
| | MOTOR CARBURETTOR/TUNING SPECIALISTS | Sundeck Service Station, Pennant Hills Rd., Carlingford | 345630 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Sundeck Service Station, Pennant Hills Rd., CARLINGFORD | 351135 | 1961 | Road Match | 0m |
| | MOTOR WHEEL REPAIRERS/SPECIALISTS | Sundeck Service Station, Pennant Hills Rd., Carlingford | 352457 | 1961 | Road Match | 0m |
| | BUTCHERS-RETAIL | Aitchison, R. W., Pennant Hills Rd., Carlingford | 13043 | 1950 | Road Match | 0m |
| | NURSERYMEN | Allen, L. C., Pennant Hills Rd., Carlingford | 88966 | 1950 | Road Match | 0m |
| | NURSERYMEN | Anderson and Co. Ltd., Pennant Hills Rd., Carlingford | 88975 | 1950 | Road Match | 0m |
| | MOTOR BODY BUILDERS | Angel, A. R., Pennant Hills Rd., Carlingford | 82007 | 1950 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS | Angel, A. R., Pennant Hills Rd., Carlingford | 83378 | 1950 | Road Match | 0m |
| | MOTOR PANEL BEATERS | Angel, A. R., Pennant Hills Rd., Carlingford | 85135 | 1950 | Road Match | 0m |
| | WELDERS-ELECTRIC &/OR OXY | Angel, A. R., Pennant Hills Rd., Carlingford | 112626 | 1950 | Road Match | 0m |
| | HAIRDRESSERS (GENT'S) &/OR TOBACCONISTS | Arkins, Norm, Pennant Hills Rd., Carlingford | 59142 | 1950 | Road Match | 0m |
| | BUTCHERS-RETAIL | Atchison, R. W., Pennant Hills Rd., Carlingford | 13072 | 1950 | Road Match | 0m |
| | HAIRDRESSERS (GENT'S) &/OR TOBACCONISTS | Blundell, A., Pennant Hills Rd., Carlingford | 59205 | 1950 | Road Match | 0m |
| | POULTRY FARMERS | Boland, E., "Ambleside", Pennant Hills Rd., Carlingford | 93879 | 1950 | Road Match | 0m |
| | MOTOR ACCESSORIES-DEALER | Breem, M., Pennant Hills Rd., Carlingford | 81506 | 1950 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS | Breem, M., Pennant Hills Rd., Carlingford | 83492 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Breen, M., Pennant Hills Rd., Carlingford | 85816 | 1950 | Road Match | 0m |
| | POULTRY FARMERS | Brownlow, C., Pennant Hills Rd., Carlingford | 93900 | 1950 | Road Match | 0m |
| | MATTRESS COVER MANUFACTURERS | C.G.R. and Daphne Liddle, "Belvedere," Pennant Hills Rd., Carlingford | 72184 | 1950 | Road Match | 0m |
| | FURNITURE-LOUNGE & CUSHION COVERINGS | C.G.R. and Daphne Liddle, Belvedere., Pennant Hills Rd., Carlingford | 53736 | 1950 | Road Match | 0m |
| | REAL ESTATE AGENTS | Carlingford Real Estate, Pennant Hills Rd., Carlingford | 98052 | 1950 | Road Match | 0m |
| | STOCK & STATION AGENTS | Carlingford Real Estate, Pennant Hills Rd., Carlingford | 105529 | 1950 | Road Match | 0m |
| | CLUBS & SPORTS BODIES | Carlingford Sports Club, Pennant Hills Rd., Carlingford | 25292 | 1950 | Road Match | 0m |
| | MOTOR PAINTERS | Carty, N., Pennant Hills Rd., Carlingford | 84745 | 1950 | Road Match | 0m |
| | BLACKSMITHS | Edney, D. W., Pennant Hills Rd., Carlingford | 8311 | 1950 | Road Match | 0m |
| | COACH & HORSE DRAWN VEHICLE BUILDERS | Edney, D. W., Pennant Hills Rd., Carlingford | 25473 | 1950 | Road Match | 0m |
| | GROCERS-RETAIL | Garner, W. T. and A., Pennant Hills Rd., Carlingford | 57440 | 1950 | Road Match | 0m |
| | MOTOR CAR & TRUCK DEALERS-USED | Gay, W. E. and Son, Pennant Hills Rd., Carlingford | 82376 | 1950 | Road Match | 0m |
| | MOTOR ELECTRICIANS | Gay, W. E. and Son, Pennant Hills Rd., Carlingford | 83121 | 1950 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS | Gilmour, G. H., Pennant Hills Rd., Carlingford | 83803 | 1950 | Road Match | 0m |
| MOTOR SERVICE STATIONS-PETROL, Etc. | Gilmour, G. H., Pennant Hills Rd., Carlingford | 85994 | 1950 | Road Match | 0m | |

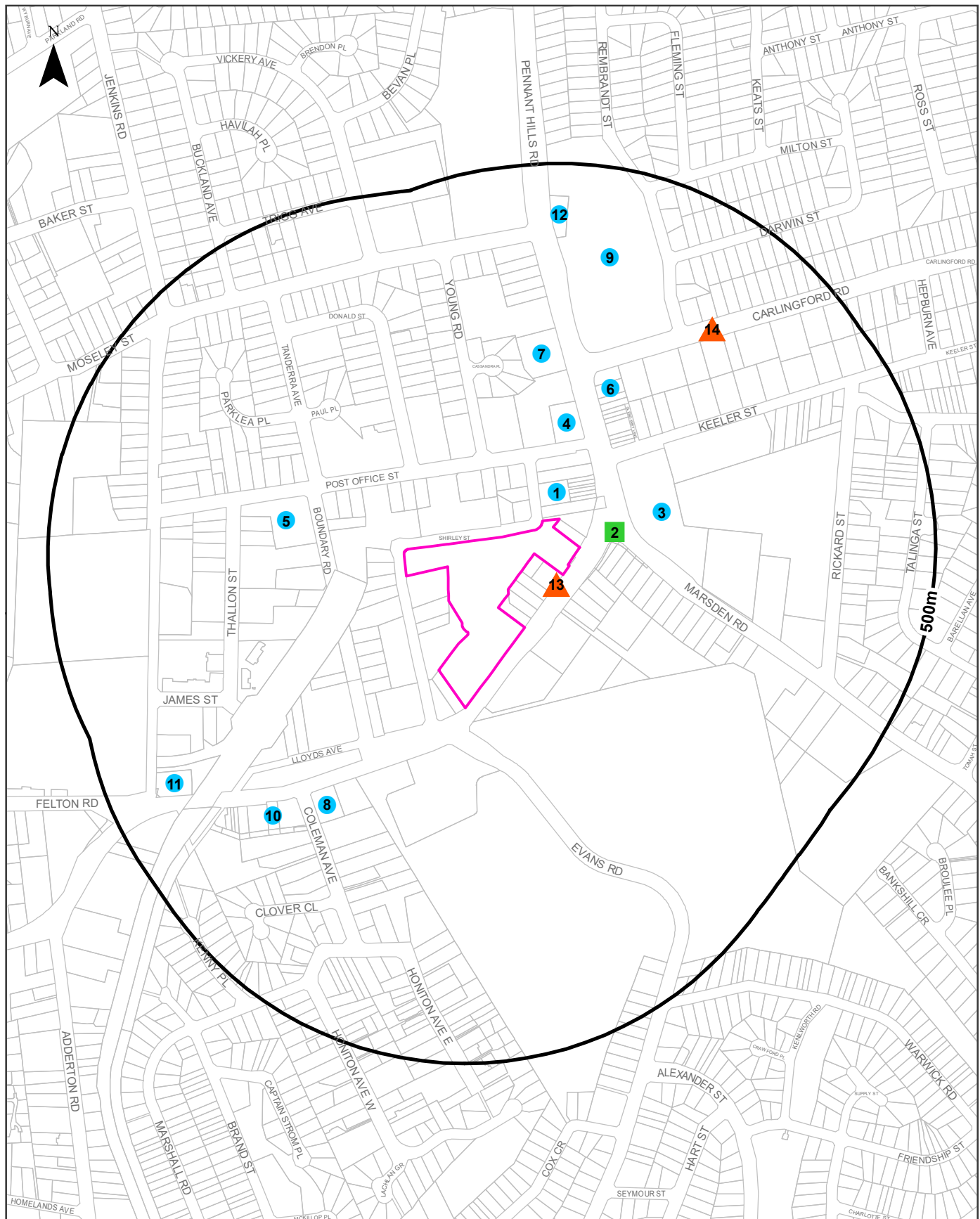
| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|-------------------------|--|---|---------|------------|---------------------|-----------------------------------|
| 22 | MOTOR ACCESSORIES-DEALER | Grandview Garage (I. Baker, Propr.), Pennant Hills Rd., Carlingford | 81616 | 1950 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS | Grandview Garage (I. Baker, Propr.), Pennant Hills Rd., Carlingford | 83819 | 1950 | Road Match | 0m |
| | MARINE DIVERS | Harris, J. R., Pennant Hills Rd., Carlingford | 72027 | 1950 | Road Match | 0m |
| | MOTOR ACCESSORIES-DEALER | Hart's Garage, Pennant Hills Rd., Carlingford | 81627 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Hart's Garage., Pennant Hills Rd., Carlingford | 86044 | 1950 | Road Match | 0m |
| | MOTOR PAINTERS | Hewitt, P. H., Pennant Hills Rd., Carlingford | 84848 | 1950 | Road Match | 0m |
| | DELICATESSENS & SMALLGOODS DEALERS | Inglis, C. S., Pennant Hills Rd., Carlingford | 30674 | 1950 | Road Match | 0m |
| | GROCERS-RETAIL | Inglis, C. S., Pennant Hills Rd., Carlingford | 57849 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Jones, V., Pennant Hills Rd., Carlingford | 86094 | 1950 | Road Match | 0m |
| | DELICATESSENS & SMALLGOODS DEALERS | Kitching, A. P., Pennant Hills Rd., Carlingford | 30744 | 1950 | Road Match | 0m |
| | KITCHENWARE RETAILERS | Kitching, A. P., Pennant Hills Rd., Carlingford | 67022 | 1950 | Road Match | 0m |
| | MIXED BUSINESSES & GENERAL STORES | Kitching, A. P., Pennant Hills Rd., Carlingford | 80342 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Korl-Inn Service Station (N. Carty), Pennant Hills Rd., Carlingford | 86118 | 1950 | Road Match | 0m |
| | POULTRY FARMERS | Lees, R. J., Pennant Hills Rd., Carlingford | 94130 | 1950 | Road Match | 0m |
| | POULTRY FARMERS | Mullins, F. B., Pennant Hills Rd., Carlingford | 94193 | 1950 | Road Match | 0m |
| | BABY & CHILDREN'S WEAR-RETAIL | Pontifex, R. J. and E. L., Pennant Hills Rd., Carlingford | 4758 | 1950 | Road Match | 0m |
| | DRAPERS-RETAIL | Pontifex, R. J. and E. L., Pennant Hills Rd., Carlingford | 33920 | 1950 | Road Match | 0m |
| | MILK VENDORS | Redman, O. H. P., Pennant Hills Rd., Carlingford | 77902 | 1950 | Road Match | 0m |
| | NURSERYMEN | Rosen, L. P. and Sons, Pennant Hills Rd., Carlingford | 89271 | 1950 | Road Match | 0m |
| | MIXED BUSINESSES & GENERAL STORES | Shields, S. G., Pennant Hills Rd., Carlingford | 80979 | 1950 | Road Match | 0m |
| GROCERS-RETAIL | Sim, D. M., Pennant Hills Rd., Carlingford | 55674 | 1950 | Road Match | 0m | |
| PHOTOGRAPERS-COMMERCIAL | Westella Studios, Pennant Hills Rd., Carlingford | 91696 | 1950 | Road Match | 0m | |
| PHOTOGRAPERS-PORTRAIT | Westella Studios, Pennant Hills Rd., Carlingford | 92038 | 1950 | Road Match | 0m | |
| 23 | BEAUTY SALONS &/OR LADIES HAIRDRESSERS. | Robyn Cherie Salon, 115 Evans Rd., Dundas. 2117 | 5867 | 1975 | Road Match | 28m |
| | BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260) | Robyn Cherie Salon., 115 Evans Rd., Dundas | 266558 | 1970 | Road Match | 28m |
| 24 | SCHOOLS - KINDERGARTEN, DAY.NURSERY. (S1470) | Carlingford West Kindergarten, Lloyds Ave., Carlingford. 2118. | 73403 | 1982 | Road Match | 31m |
| | LIBRARIES-PUBLIC. | Carlingford Public Library, Lloyds Ave., Carlingford. 2118 | 40212 | 1978 | Road Match | 31m |
| | LIBRARIES-PUBLIC. | Carlingford Public Library, Lloyds Ave., Carlingford. 2118 | 40211 | 1978 | Road Match | 31m |
| | LIBRARIES-PUBLIC. | Carlingford Public library., Lloyds Ave., Carlingford. 2118 | 47467 | 1975 | Road Match | 31m |
| 25 | HOMES & INSTITUTIONS (H490) | Dalmar Children's Home., Church St., Carlingford | 316532 | 1970 | Road Match | 56m |
| | LANDSCAPE GARDENERS (L200) | Sunset Landscapes., Marsden Rd., Carlingford | 322479 | 1970 | Road Match | 56m |
| | HOMES & INSTITUTIONS | Dalmar Children's Home, Church St., Carlingford | 324455 | 1961 | Road Match | 56m |
| 26 | Engineers General &/or Mfrg. &/or Mechanical | Rutherford, J. N. Pty. Ltd., Post Office St., Carlingford | 82842 | 1965 | Road Match | 85m |
| | POULTRY FARMERS | Mack, C., Post Office St., Carlingford | 94147 | 1950 | Road Match | 85m |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|--------|---------------------------------------|---|---------|------|---------------------|-----------------------------------|
| 27 | ROLLERSKATING RINKS. (R6320) | Big Roller, The, Keeler St., Carlingford. 2118. | 72292 | 1982 | Road Match | 108m |
| | BUILDERS & CONTRACTORS- (M.M.B.A.) | Gallard, G. C 84 Keeler St. CARLINGFORD | 277111 | 1961 | Road Match | 108m |

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Dry Cleaners, Motor Garages & Service Stations

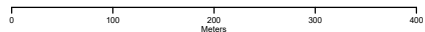
277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

- Site Boundary
- Buffer 500m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- ▲ Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale:



Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

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

Historical Business Directories

277-281 Pennant Hills Road, Carlingford, NSW 2118

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 |
|-------------------------------------|---|---|---------|---------------|---------------------|--|------------|
| 1 | DRY CLEANERS & PRESSERS. | Galaxy Dry Cleaners, 289B Pennant Hills Rd., Carlingford. 2118 | 53089 | 1988 | Premise Match | 20m | North East |
| | DRY CLEANERS & PRESSERS. | Galaxy Dry Cleaners, 289B Pennant Hills Rd., Carlingford. 2118 | 25315 | 1986 | Premise Match | 20m | North East |
| | DRY CLEANERS & PRESSERS. | Galaxy Dry Cleaners, 289B Pennant Hills Rd., Carlingford. 2118 | 34533 | 1985 | Premise Match | 20m | North East |
| | DRY CLEANERS & PRESSERS. | Galaxy Dry Cleaners, 289B Pennant Hills Rd., Carlingford. 2118 | 21981 | 1984 | Premise Match | 20m | North East |
| | DRY CLEANERS & PRESSERS. | Galaxy Dry Cleaners, 289B Pennant Hills Rd., Carlingford 2118 | 8570 | 1983 | Premise Match | 20m | North East |
| | DRY CLEANERS & PRESSERS.(D8500) | Galaxy Dry Cleaners, 289B Pennant Hills Rd., Carlingford. 2118. | 23846 | 1982 | Premise Match | 20m | North East |
| | DRY CLEANERS & PRESSERS. | Galaxy Dry Cleaners., 289B Pennant Hills Rd., Carlingford. 2118 | 63329 | 1981 | Premise Match | 20m | North East |
| | DRY CLEANERS, PRESSERS &/OR DYERS. | Galaxy Dry Cleaners., 289B Pennant Hills Rd., Carlingford. 2118 | 46759 | 1980 | Premise Match | 20m | North East |
| | DRY CLEANERS, PRESSERS &/OR DYERS. | Galaxy Dry Cleaners., 289B Pennant Hills Rd., Carlingford. 2118. | 35357 | 1979 | Premise Match | 20m | North East |
| | DRY CLEANERS, PRESSERS &/OR DYERS | Galaxy Dry Cleaners, 289b Pennant Hills Rd., Carlingford. 2118 | 20785 | 1978 | Premise Match | 20m | North East |
| | DRY CLEANERS, PRESSERS &/OR DYERS. | Galaxy Dry Cleaners., 289B Pennant Hills Rd Carlingford | 2903 | 1972 | Premise Match | 20m | North East |
| | DRY CLEANERS, PRESSERS &/OR DYERS | Galaxy Dry Cleaners., 289B Pennant Hills Rd Carlingford | 51055 | 1971 | Premise Match | 20m | North East |
| DRY CLEANERS,PRESSERS /DYERS (D710) | Galaxy Dry Cleaners., 289b Pennant Hills Rd., Carlingford | 292308 | 1970 | Premise Match | 20m | North East | |
| 2 | DRY CLEANERS, PRESSERS & DYERS | Presswell Dry Cleaners., Cnr Pennant Hills Rd & Church St., Carlingford | 158 | 1958 | Road Intersection | 54m | North East |
| 3 | MOTOR GARAGES &/OR ENGINEERS. | Breen Mart Service Station, 382 Pennant Hills Rd., Carlingford | 65559 | 1971 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Breen Mart Service Station., 382 Pennant Hills Rd., CARLINGFORD | 337427 | 1970 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS. | Breen Mart Service Station., 382 Pennant Hills Rd Carlingford | 41867 | 1969 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS | Breen Mart Service Station., 382 Pennant Hills Rd Carlingford | 21217 | 1968 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS. | Breen Mart Service Station., 382 Pennant Hills Rd Carlingford | 6869 | 1967 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS. | Breen Mart Service Station., 382 Pennant Hills Rd Carlingford | 55828 | 1966 | Premise Match | 81m | North East |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|--------|---|---|---------|------|---------------------|--|------------|
| 3 | Motor Garages & Engineers | Breen Mart Service Station, 382 Pennant Hills Rd. Carlingford | 122388 | 1965 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS | Breen Mart Service Station., 382 Pennant Hills Rd Carlingford | 43588 | 1964 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS. | Brookers Garage Rear., 277 Marsden Rd Carlingford | 29105 | 1962 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS | Brookers Garage Rear 277 Marsden Rd. CARLINGFORD | 346743 | 1961 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS | Brookers Garage, Rear 277 Marsden Rd. CARLINGFORD | 346744 | 1961 | Premise Match | 81m | North East |
| | MOTOR GARAGES & ENGINEERS | Breen Mart., 382 Pennant Hills Rd Carlingford | 13810 | 1959 | Premise Match | 81m | North East |
| | MOTOR GARAGE/ENGINEERS. | Breen Mart., 382 Pennant Hills Rd Carlingford | 704 | 1958 | Premise Match | 81m | North East |
| 4 | MOTOR GARAGES & SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 25480 | 1993 | Premise Match | 106m | North East |
| | Motor Garages & Service Stations | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford 2118 | 53930 | 1991 | Premise Match | 106m | North East |
| | MOTOR GARAGES & SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 18296 | 1990 | Premise Match | 106m | North East |
| | MOTOR GARAGE & SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 5620 | 1989 | Premise Match | 106m | North East |
| | MOTOR GARAGES & SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 60020 | 1988 | Premise Match | 106m | North East |
| | MOTOR GARAGES & SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 65525 | 1986 | Premise Match | 106m | North East |
| | MOTOR GARAGES & SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 45645 | 1985 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 34202 | 1984 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford 2118 | 21652 | 1983 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118. | 57642 | 1982 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford 2118 | 8231 | 1981 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford. 2118 | 58913 | 1980 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford. 2118. | 46411 | 1979 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford. 2118 | 50891 | 1978 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sundeck Sevice Station., 792 Pennant Hills Rd., Carlingford 2118 | 34964 | 1976 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS. | Sundeck Service Station., 792 Pennant Hills Rd., Carlingford. 2118 | 59592 | 1975 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS. | Sundeck Service Station., 792 Pennant Hills Rd Carlingford | 7789 | 1972 | Premise Match | 106m | North East |
| | MOTOR GARAGES &/OR ENGINEERS. | Sundeck Service Station, 792 Pennant Hills Rd., Carlingford | 65563 | 1971 | Premise Match | 106m | North East |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Sundeck Service Station., 792 Pennant Hills Rd., CARLINGFORD | 338681 | 1970 | Premise Match | 106m | North East |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction | |
|----------------------------------|--------------------------------------|---|---|-------|---------------------|--|------------|------------|
| 4 | MOTOR GARAGES & ENGINEERS. | Sundeck Service Station., 792 Pennant Hills Rd Carlingford | 41873 | 1969 | Premise Match | 106m | North East | |
| | MOTOR GARAGES & ENGINEERS | Sundeck Service Station., 792 Pennant Hills Rd Carlingford | 21223 | 1968 | Premise Match | 106m | North East | |
| | MOTOR GARAGES & ENGINEERS. | Sundeck Service Station., 792 Pennant Hills Rd Carlingford | 6875 | 1967 | Premise Match | 106m | North East | |
| | MOTOR GARAGES & ENGINEERS. | Sundeck Service Station., 792 Pennant Hills Rd Carlingford | 55833 | 1966 | Premise Match | 106m | North East | |
| | Motor Garages & Engineers | Sundeck Service Station, 792 Pennant Hills Rd. Carlingford | 122393 | 1965 | Premise Match | 106m | North East | |
| | MOTOR GARAGES & ENGINEERS | Sundeck Service Station., 792 Pennant Hills Rd Carlingford | 43594 | 1964 | Premise Match | 106m | North East | |
| 5 | MOTOR GARAGES & ENGINEERS | Brookers C. T. Garage., 34 Post Office Rd Carlingford | 43589 | 1964 | Premise Match | 123m | West | |
| 6 | MOTOR SERVICE STATIONS - PETROL, OIL | BP Carlingford Service Station, 821 Pennant Hills Rd., Carlingford. | 61480 | 1975 | Premise Match | 177m | North East | |
| | MOTOR GARAGES &/OR ENGINEERS. | BP Carlingford Service Station., 821 Pennant Hills Rd Carlingford | 7783 | 1972 | Premise Match | 177m | North East | |
| | MOTOR GARAGES &/OR ENGINEERS. | BP Carlingford Service Station, 821 Pennant Hills Rd. Carlingford | 65556 | 1971 | Premise Match | 177m | North East | |
| | MOTOR GARAGES & ENGINEERS. | BP Carlingford Service Station., 821 Pennant Hills Rd Carlingford | 41866 | 1969 | Premise Match | 177m | North East | |
| 7 | MOTOR GARAGES &/OR ENGINEERS. | Grandview Garage., 784 Pennant Hills Rd Carlingford | 7786 | 1972 | Premise Match | 200m | North | |
| | MOTOR GARAGES &/OR ENGINEERS. | Grandview Garage, 784 Pennant Hills Rd., Carlingford | 65560 | 1971 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Grandview Garage., 784 Pennant Hills Rd., CARLINGFORD | 337927 | 1970 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS. | Grandview Garage., 784 Pennant Hills Rd Carlingford | 41870 | 1969 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS | Grandview Garage., 784 Pennant Hills Rd Carlingford | 21220 | 1968 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS. | Grandview Garage., 784 Pennant Hills Rd Carlingford | 6873 | 1967 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS. | Baker I., 784 Pennant Hills Rd Carlingford | 55827 | 1966 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS. | Grand View Garage., 784 Pennant Hills Rd., Carlingford | 55832 | 1966 | Premise Match | 200m | North | |
| | Motor Garages & Engineers | Baker, I., 784 Pennant Hills Rd. Carlingford | 122387 | 1965 | Premise Match | 200m | North | |
| | Motor Garages & Engineers | Grand View Garage, 784 Pennant Hills Rd. Carlingford | 122392 | 1965 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS | Baker I., 784 Pennant Hills Rd Carlingford | 43587 | 1964 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS | Grand View Garage., 784 Pennant Hills Rd Carlingford | 43593 | 1964 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS. | Baker I., 784 Pennant Hills Rd Carlingford | 29103 | 1962 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS. | Grand View Garage., 784 Pennant Hills Rd Carlingford | 29108 | 1962 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS | Grand View Garage, 784 Pennant Hills Rd., CARLINGFORD | 347268 | 1961 | Premise Match | 200m | North | |
| | MOTOR GARAGES & ENGINEERS | Grandview Garage., 784 Pennant Hills Rd Carlingford | 13812 | 1959 | Premise Match | 200m | North | |
| | MOTOR GARAGE/ENGINEERS. | Grandview Garage., 784 Pennant Hills Rd Carlingford | 4198 | 1958 | Premise Match | 200m | North | |
| | 8 | MOTOR GARAGES & SERVICE STATIONS. | Ampol Carlingford Service Station, 326 Pennant Hills Rd., Carlingford. 2118 | 18457 | 1993 | Premise Match | 214m | South West |
| | | Motor Garages & Service Stations | Ampol Carlingford Service Station, 326 Pennant Hills Rd., Carlingford 2118 | 97739 | 1991 | Premise Match | 214m | South West |
| | | MOTOR GARAGES & SERVICE STATIONS. | Ampol Carlingford Service Station, 326 Pennant Hills Rd., Carlingford. 2118 | 5822 | 1990 | Premise Match | 214m | South West |
| MOTOR GARAGE & SERVICE STATIONS. | | Ampol Carlingford Service Station, 326 Pennant Hills Rd., Carlingford. 2118 | 64309 | 1989 | Premise Match | 214m | South West | |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|--------|---|---|---------|------|---------------------|--|------------|
| 8 | MOTOR GARAGES & SERVICE STATIONS. | Ampol Carlingford Service Station, 326 Pennant Hills Rd., Carlingford. 2118 | 53416 | 1988 | Premise Match | 214m | South West |
| | MOTOR GARAGES & SERVICE STATIONS. | Total Carlingford Service Station, 326 Pennant Hills Rd., Carlingford. 2118 | 65594 | 1986 | Premise Match | 214m | South West |
| | MOTOR GARAGES & SERVICE STATIONS. | Total Carlingford Service Station., 326 Pennant Hills Rd., Carlingford. 2118 | 45711 | 1985 | Premise Match | 214m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Total Carlingford Service Station, 326 Pennant Hills Rd., Carlingford. 2118 | 34271 | 1984 | Premise Match | 214m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Total Carlingford Service Station., 326 Pennant Hills Rd., Carlingford 2118 | 21714 | 1983 | Premise Match | 214m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Total Carlingford Service Station, 326 Pennant Hills Rd., Carlingford. 2118. | 57711 | 1982 | Premise Match | 214m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | South Parade Service Centre (Total), 326 Pennant Hills Rd., Carlingford 2118 | 8190 | 1981 | Premise Match | 214m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Total Carlingford Service Station., 326 Pennant Hills Rd., Carlingford. 2118 | 58982 | 1980 | Premise Match | 214m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Total Service Station., 326 Pennant Hills Rd., Carlingford. 2118. | 46518 | 1979 | Premise Match | 214m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Total Service Station, 326 Pennant Hills Rd., Carlingford. 2118 | 51002 | 1978 | Premise Match | 214m | South West |
| 9 | DRY CLEANERS & PRESSERS.(D8500) | Carville, 72 Carlingford Court, Carlingford. 2118. | 23783 | 1982 | Premise Match | 238m | North |
| | DRY CLEANERS, PRESSERS &/OR DYERS. | Carville., Carlingford Court., Carlingford. 2118 | 46704 | 1980 | Premise Match | 238m | North |
| 10 | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Total Garage., 320 Pennant Hills Rd., Carlingford 2118 | 35046 | 1976 | Premise Match | 291m | South West |
| | MOTOR GARAGES &/OR ENGINEERS. | Total Garage., 320 Pennant Hills Rd., Carlingford. 2118 | 59658 | 1975 | Premise Match | 291m | South West |
| | MOTOR GARAGES &/OR ENGINEERS. | Total Garage., 320 Pennant Hills Rd Carlingford | 7791 | 1972 | Premise Match | 291m | South West |
| | MOTOR GARAGES &/OR ENGINEERS. | Total Garage, 320 Pennant Hills Rd., Carlingford | 65565 | 1971 | Premise Match | 291m | South West |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Total Garage., 320 Pennant Hills Rd., CARLINGFORD | 338742 | 1970 | Premise Match | 291m | South West |
| 11 | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Caltex Carlingford Service Station., 245A Pennant Hills Rd., Carlingford 2118 | 51579 | 1980 | Premise Match | 375m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Caltex Service Station., 245A Pennant Hills Rd., Carlingford. 2118. | 41182 | 1979 | Premise Match | 375m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Caltex Service Station. 245a Pennant Hills Rd., Carlingford. 2118 | 49711 | 1978 | Premise Match | 375m | South West |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Caltex Service Station., 245A Pennant Hills Rd., Carlingford 2118 | 29625 | 1976 | Premise Match | 375m | South West |
| | MOTOR GARAGES &/OR ENGINEERS. | Caltex Service Station., 245a Pennant Hills Rd., Carlingford. 2118 | 58600 | 1975 | Premise Match | 375m | South West |
| 12 | MOTOR GARAGES & SERVICE STATIONS. | Caltex Carlingford Service Station, 797 Pennant Hills Rd., Carlingford. 2118 | 18748 | 1993 | Premise Match | 395m | North |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|--------|---|--|---------|------|---------------------|--|-----------|
| 12 | Motor Garages & Service Stations | Caltex Carlingford Service Station, 797 Pennant Hills Rd., Carlingford 2118 | 97590 | 1991 | Premise Match | 395m | North |
| | MOTOR GARAGES & SERVICE STATIONS. | Caltex Carlingford Service Station, 797 Pennant Hills Rd., Carlingford. 2118 | 11284 | 1990 | Premise Match | 395m | North |
| | MOTOR GARAGE & SERVICE STATIONS. | Caltex Carlingford Service Station, 797 Pennant Hills Rd., Carlingford. 2118 | 64723 | 1989 | Premise Match | 395m | North |
| | MOTOR GARAGES & SERVICE STATIONS. | Caltex Carlingford Service Station, 797 Pennant Hills Rd., Carlingford. 2118 | 53847 | 1988 | Premise Match | 395m | North |
| | MOTOR GARAGES & SERVICE STATIONS. | Golden Fleece Carlingford Service Station, 797 Pennant Hills Rd., Carlingford. 2118 | 64755 | 1986 | Premise Match | 395m | North |
| | MOTOR GARAGES & SERVICE STATIONS. | Golden Fleece Carlingford Service Station, 797 Pennant Hills Rd., Carlingford. 2118 | 39761 | 1985 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Golden Fleece Carlingford Service Station, 797 Pennant Hills Rd., Carlingford. 2118 | 28337 | 1984 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Golden Fleece Carlingford Service Station., 797 Pennant Hills Rd., Carlingford. 2118 | 14759 | 1983 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Golden Fleece Carlingford Service Station, 797 Pennant Hills Rd., Carlingford. 2118. | 56820 | 1982 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Golden Fleece Carlingford Service Station., 797 Pennant Hills Rd., Carlingford. 2118 | 3377 | 1981 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Golden Fleece Carlingford Service Station., 797 Pennant Hills Rd., Carlingford. 2118 | 58110 | 1980 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Golden Fleece Service Station., 797 Pennant Hills Rd., Carlingford. 2118. | 41595 | 1979 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Golden Fleece Service Station, 797 Pennant Hills Rd., Carlingford. 2118 | 50134 | 1978 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Hudsons Golden Fleece Service Station., 797 Pennant Hills Rd., Carlingford 2118 | 30269 | 1976 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS. | Hudson's Golden Fleece Service Station., 797 Pennant Hills Rd., Carlingford. 2118 | 59060 | 1975 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS. | Hudsons Golden Fleece Service Station., 797 Pennant Hills Rd Carlingford | 7787 | 1972 | Premise Match | 395m | North |
| | MOTOR GARAGES &/OR ENGINEERS. | Hudsons Golden Fleece Service Station, 797 Pennant Hills Rd. Carlingford | 65561 | 1971 | Premise Match | 395m | North |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Hudsons Golden Fleece Service Station., 797 Pennant Hills Rd., CARLINGFORD | 338026 | 1970 | Premise Match | 395m | North |
| | MOTOR GARAGES & ENGINEERS. | Hudsons Golden Fleece Service Station., 797 Pennant Hills Rd Carlingford | 41871 | 1969 | Premise Match | 395m | North |
| | MOTOR GARAGES & ENGINEERS | Hudsons Golden Fleece Service Station., 797 Pennant Hills Rd Carlingford | 21221 | 1968 | Premise Match | 395m | North |
| | MOTOR GARAGES & ENGINEERS. | Golden Fleece Carlingford., 797 Pennant Hills Rd Carlingford | 6872 | 1967 | Premise Match | 395m | North |

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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 |
|--------|---|---|---------|------|---------------------|-----------------------------------|
| 13 | MOTOR GARAGES & SERVICE STATIONS. | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118 | 18847 | 1993 | Road Match | 0m |
| | Motor Garages & Service Stations | Carlingford Service Centre, Pennant Hills Rd., Carlingford 2118 | 97424 | 1991 | Road Match | 0m |
| | MOTOR GARAGES & SERVICE STATIONS. | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118 | 11408 | 1990 | Road Match | 0m |
| | MOTOR GARAGE & SERVICE STATIONS. | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118 | 64849 | 1989 | Road Match | 0m |
| | MOTOR GARAGES & SERVICE STATIONS. | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118 | 53968 | 1988 | Road Match | 0m |
| | MOTOR GARAGES & SERVICE STATIONS. | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118 | 64434 | 1986 | Road Match | 0m |
| | MOTOR GARAGES & SERVICE STATIONS. | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118 | 39425 | 1985 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118 | 28018 | 1984 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Carlingford Service Centre., Pennant Hills Rd., Carlingford 2118 | 14432 | 1983 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Carlingford Service Centre, Pennant Hills Rd., Carlingford. 2118. | 56487 | 1982 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Ampol Service Station., Pennant Hills Rd., Carlingford 2118 | 25005 | 1976 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Ampol Service Station., Pennant Hills Rd., Carlingford. 2118 | 58360 | 1975 | Road Match | 0m |
| | MOTOR SERVICE STATIONS - PETROL, OIL | BP Pioneer Service Station., 189 Pennant Hills Rd., Carlingford. 2118 | 61536 | 1975 | Road Match | 0m |
| | DRY CLEANERS, PRESSERS &/OR DYERS. | Galaxy Dry Cleaners, 189b Pennant Hills Rd., Carlingford. 2118 | 24047 | 1975 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS(M6S6) | Carlingford Service Station., Pennant Hills Rd., Carlingford | 337529 | 1970 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Breen H., Pennant Hills Rd Carlingford | 47629 | 1969 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Carlingford Service Station., Pennant Hills Rd Carlingford | 41868 | 1969 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Gilmore G. H., Pennant Hills Rd Carlingford | 41869 | 1969 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 47630 | 1969 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Korl-Inn Service Station., Pennant Hills Rd Carlingford | 47631 | 1969 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Carlingford Service Station., Pennant Hills Rd Carlingford | 21218 | 1968 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Gilmore G. H., Pennant Hills Rd Carlingford | 21219 | 1968 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Hart's Garage., Pennant Hills Rd., CarlingFord | 31064 | 1968 | Road Match | 0m |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|--------|--|--|---------|------|---------------------|-----------------------------------|
| 13 | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Korl Inn Service Station., Pennant Hills Rd., Carlingford | 31065 | 1968 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Carlingford Service Station., Pennant Hills Rd Carlingford | 6870 | 1967 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Gilmore G. H., Pennant Hills Rd Carlingford | 6871 | 1967 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Breen H., Pennant Hills Rd Carlingford | 1117 | 1966 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Carlingford Service Station., Pennant Hills Rd., Carlingford | 55829 | 1966 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Gilmore G. H., Pennant Hills Rd Carlingford | 55830 | 1966 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Golden Fleece Carlingford., Pennant Hills Rd Carlingford | 55831 | 1966 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 1118 | 1966 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Korl Inn Service Station., Pennant Hills Rd Carlingford | 1119 | 1966 | Road Match | 0m |
| | Motor Garages & Engineers | Carlingford Service, Station, Pennant Hills Rd. Carlingford | 122389 | 1965 | Road Match | 0m |
| | Motor Garages & Engineers | Gilmore, G. H., Pennant Hills Rd. Carlingford | 122390 | 1965 | Road Match | 0m |
| | Motor Garages & Engineers | Golden Fleece Carlingford, Pennant Hills Rd. Carlingford | 122391 | 1965 | Road Match | 0m |
| | Motor Service Stations - Petrol, Oil, Etc. | Hart's Garage, Pennant Hills Rd. Carlingford | 125566 | 1965 | Road Match | 0m |
| | Motor Service Stations - Petrol, Oil, Etc. | Korl Inn Service Station, Pennant Hills Rd. Carlingford | 125567 | 1965 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Carlingford Service Station., Pennant Hills Rd Carlingford | 43590 | 1964 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Gil More G. H., Pennant Hills Rd Carlingford | 43591 | 1964 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Golden Fleece Carlingford., Pennant Hills Rd Carlingford | 43592 | 1964 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Hart's Garage., Pennant Hills Rd. Carlingford | 51902 | 1964 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Korl Inn Service Station., Pennant Hills Rd, Carlingford | 51903 | 1964 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Breen M. J. Service Station., Pennant Hills Rd Carlingford | 29104 | 1962 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Breen M. J. Service Station., Pennant Hills Rd Carlingford | 38017 | 1962 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Carlingford Service Station., Pennant Hills Rd Carlingford | 29106 | 1962 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Carlingford Service Station., Pennant Hills Rd Carlingford | 38018 | 1962 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS. | Gilmore G. H., Pennant Hills Rd Carlingford | 29107 | 1962 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 38019 | 1962 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Korl Inn Service Station., Pennant Hills Rd Carlingford | 38020 | 1962 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, OIL, ETC. | Sundeck Service Station., Pennant Hills Rd Carlingford | 38021 | 1962 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Baker, I., Pennant Hills Rd. CARLINGFORD | 346581 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Carlingford Service Station, Pennant Hills Rd. CARLINGFORD | 350446 | 1961 | Road Match | 0m |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|--------|---|---|---------|------|---------------------|-----------------------------------|
| 13 | MOTOR GARAGES & ENGINEERS | Carlingford Service, Station, Pennant Hills Rd. CARLINGFORD | 346820 | 1961 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Gilmore, G. H., Pennant Hills Rd. CARLINGFORD | 347230 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Hart's Garage, Pennant Hills Rd. Carlingford | 350679 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Jones, V., Pennant Hills Rd. CARLINGFORD | 350737 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Korl Inn Service Station, Pennant Hills Rd. CARLINGFORD | 350764 | 1961 | Road Match | 0m |
| | MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Sundeck Service Station, Pennant Hills Rd., CARLINGFORD | 351135 | 1961 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Baker., I., Pennant Hills Rd Carlingford | 13809 | 1959 | Road Match | 0m |
| | MOTOR GARAGES & ENGINEERS | Gilmore G. H., Pennant Hills Rd Carlingford | 13811 | 1959 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL,. OIL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 24063 | 1959 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL,. OIL, ETC. | Jones V., Pennant Hills Rd Carlingford | 24064 | 1959 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL,. OIL, ETC. | Korl Inn Service Station., Pennant Hills Rd Carlingford | 24065 | 1959 | Road Match | 0m |
| | MOTOR GARAGE/ENGINEERS. | Baker I., Pennant Hills Rd Carlingford | 585 | 1958 | Road Match | 0m |
| | MOTOR GARAGE/ENGINEERS. | Gilmore G. H., Pennant Hills Rd Carlingford | 4168 | 1958 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 9577 | 1958 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Jones V., Pennant Hills Rd Carlingford | 9612 | 1958 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Korl-Inn Service Station (N. Carty), Pennant Hills Rd Carlingford | 9630 | 1958 | Road Match | 0m |
| | MOTOR GARAGE/ENGINEERS. | Townsend H. L., Pennant Hills Rd., Mobbs Hill., Carlingford. | 9171 | 1958 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Angel A. R., Pennant Hills Rd Carlingford | 57160 | 1956 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Baker I., Pennant Hills Rd Carlingford | 57210 | 1956 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Breen M., Pennant Hills Rd Carlingford | 57317 | 1956 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Gilmore G. H., Pennant Hills Rd Carlingford | 57706 | 1956 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Grandview Garage., Pennant Hills Rd Carlingford | 57730 | 1956 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 61942 | 1956 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Jones V., Pennant Hills Rd Carlingford | 61970 | 1956 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Korl-Inn Service Station (N. Carty), Pennant Hills Rd., Carlingford | 61986 | 1956 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Townsend, H. L., Pennant Hills Rd., Mobbs Hill., Carlingford | 61589 | 1956 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Angel A. R., Pennant Hills Rd Carlingford | 44731 | 1954 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Baker I., Pennant Hills Rd Carlingford | 44773 | 1954 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Breen M., Pennant Hills Rd., Carlingford | 48947 | 1954 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Gilmore G. H., Pennant Hills Rd Carlingford | 49317 | 1954 | Road Match | 0m |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|--------|-------------------------------------|--|---------|---------|---------------------|-----------------------------------|
| 13 | MOTOR GARAGES &/OR ENGINEERS. | Grandview Garage., Pennant Hills Rd Carlingford | 49337 | 1954 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 54498 | 1954 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Jones V., Pennant Hills Rd Carlingford | 54527 | 1954 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Korl-Inn Service Station (N. Carty)., Pennant Hills Rd Carlingford | 54538 | 1954 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Townsend, H. L., Pennant Hills Rd., Mobbs Hill., Carlingford | 54221 | 1954 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Angel A. R., Pennant Hills Rd., Carlingford | 36526 | 1953 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Baker I., Pennant Hills Rd Carlingford | 36564 | 1953 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Breem M., Pennant Hills Rd Carlingford | 36660 | 1953 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Gilmour G. H., Pennant Hills Rd Carlingford | 40046 | 1953 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Grandview Garage., Pennant Hills Rd Carlingford | 40063 | 1953 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 44086 | 1953 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Jones V., Pennant Hills Rd Carlingford | 44107 | 1953 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Korl-Inn Service Station (N. Carty), Pennant Hills Rd., Carlingford | 44116 | 1953 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Angel A. R., Pennant Hills Rd Carlingford | 27448 | 1952 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Breem M., Pennant Hills Rd Carlingford | 27560 | 1952 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Breem M., Pennant Hills Rd Carlingford | 35786 | 1952 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Gilmour G. H., Pennant Hills Rd Carlingford | 31686 | 1952 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Grandview Garage (I. Baker Propr.)., Pennant Hills Rd Carlingford | 31700 | 1952 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 35859 | 1952 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Jones V., Pennant Hills Rd Carlingford | 35882 | 1952 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Korl-Inn Service Station (N. Carty)., Pennant Hills Rd., Carlingford | 35891 | 1952 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS | Angel, A. R., Pennant Hills Rd., Carlingford | 83378 | 1950 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS | Breem, M., Pennant Hills Rd., Carlingford | 83492 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Breem, M., Pennant Hills Rd., Carlingford | 85816 | 1950 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS | Gilmour, G. H., Pennant Hills Rd., Carlingford | 83803 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Gilmour, G. H., Pennant Hills Rd., Carlingford | 85994 | 1950 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS | Grandview Garage (I. Baker, Propr.), Pennant Hills Rd., Carlingford | 83819 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Hart's Garage., Pennant Hills Rd., Carlingford | 86044 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Jones, V., Pennant Hills Rd., Carlingford | 86094 | 1950 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, Etc. | Korl-Inn Service Station (N. Carty), Pennant Hills Rd., Carlingford | 86118 | 1950 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Angel A. R., Pennant Hills Rd Carlingford | 17711 | 1948-49 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Carty, N., Pennant Hills Rd., Carlingford | 17869 | 1948-49 | Road Match | 0m |
| | MOTOR GARAGES &/OR ENGINEERS. | Gay W. E. And Son., Pennant Hills Rd Carlingford | 22370 | 1948-49 | Road Match | 0m |

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|--------|--------------------------------------|--|---------|---------|---------------------|-----------------------------------|
| 13 | MOTOR SERVICE STATIONS-PETROL, ETC. | Hart's Garage., Pennant Hills Rd Carlingford | 23312 | 1948-49 | Road Match | 0m |
| | MOTOR SERVICE STATIONS-PETROL, ETC. | Jones V., Pennant Hills Rd Carlingford | 23348 | 1948-49 | Road Match | 0m |
| 14 | MOTOR SERVICE STATIONS - PETROL, OIL | Mobil Service Center., Carlingford Rd., Epping. 2121 | 88360 | 1975 | Road Match | 198m |



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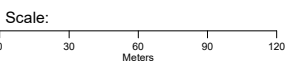
Aerial Imagery 2020

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56



Date: 16 November 2020

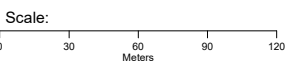
Aerial Imagery 2015

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

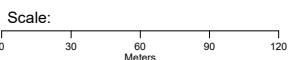
Aerial Imagery 2009

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

- Site Boundary
- Buffer 150m



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Coordinate System:
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Date: 16 November 2020

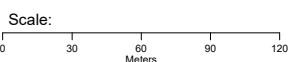
Aerial Imagery 2000

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery © Aerometrex Pty Ltd

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GDA 1994 MGA Zone 56



Date: 16 November 2020

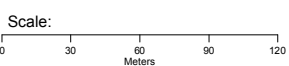
Aerial Imagery 1994

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 56



Date: 12 November 2020

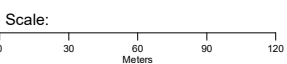
Aerial Imagery 1991

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



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Coordinate System:
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Date: 16 November 2020

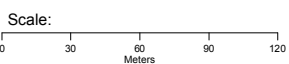
Aerial Imagery 1986

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



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Date: 12 November 2020

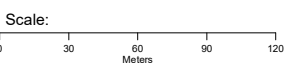
Aerial Imagery 1982

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



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Date: 16 November 2020

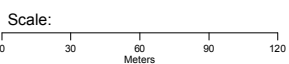
Aerial Imagery 1978

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



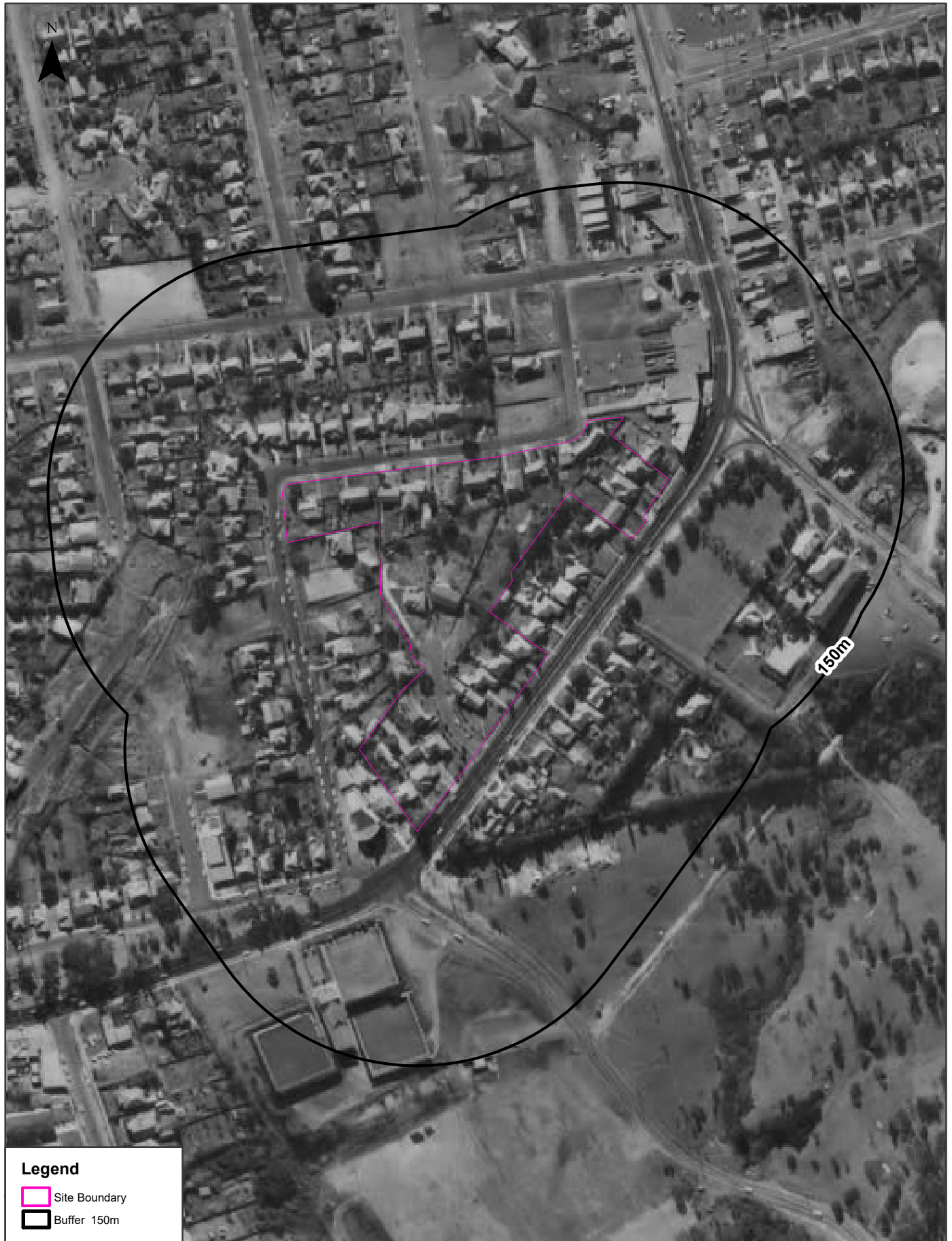
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Coordinate System:
GDA 1994 MGA Zone 56



Date: 12 November 2020

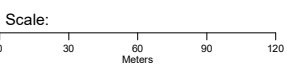
Aerial Imagery 1970

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



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Date: 16 November 2020

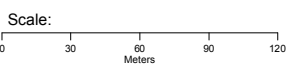
Aerial Imagery 1965

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



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Coordinate System:
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Date: 12 November 2020

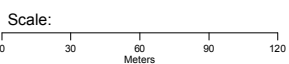
Aerial Imagery 1961

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



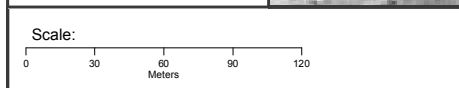
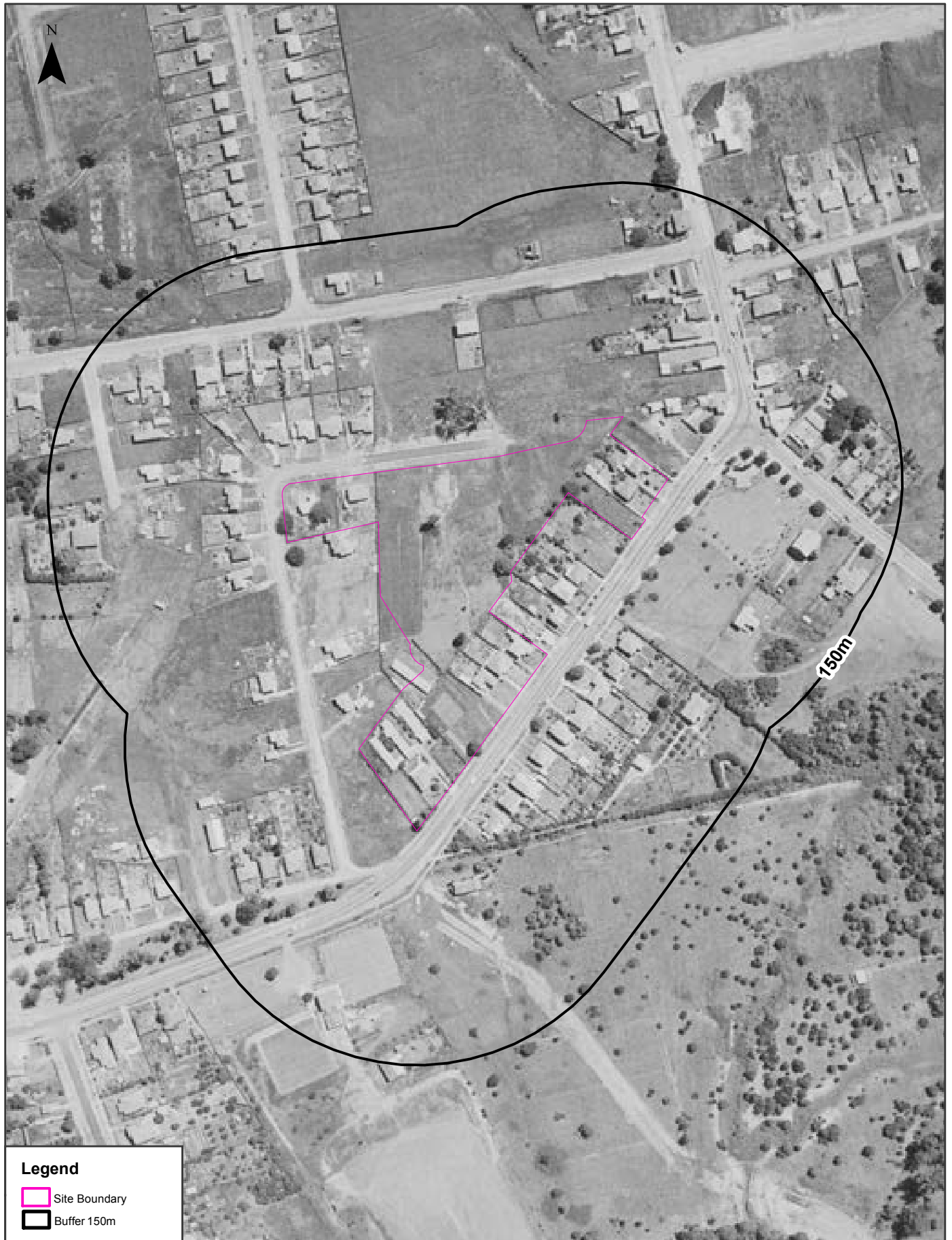
Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 12 November 2020

Aerial Imagery 1956

277-281 Pennant Hills Road, Carlingford, NSW 2118



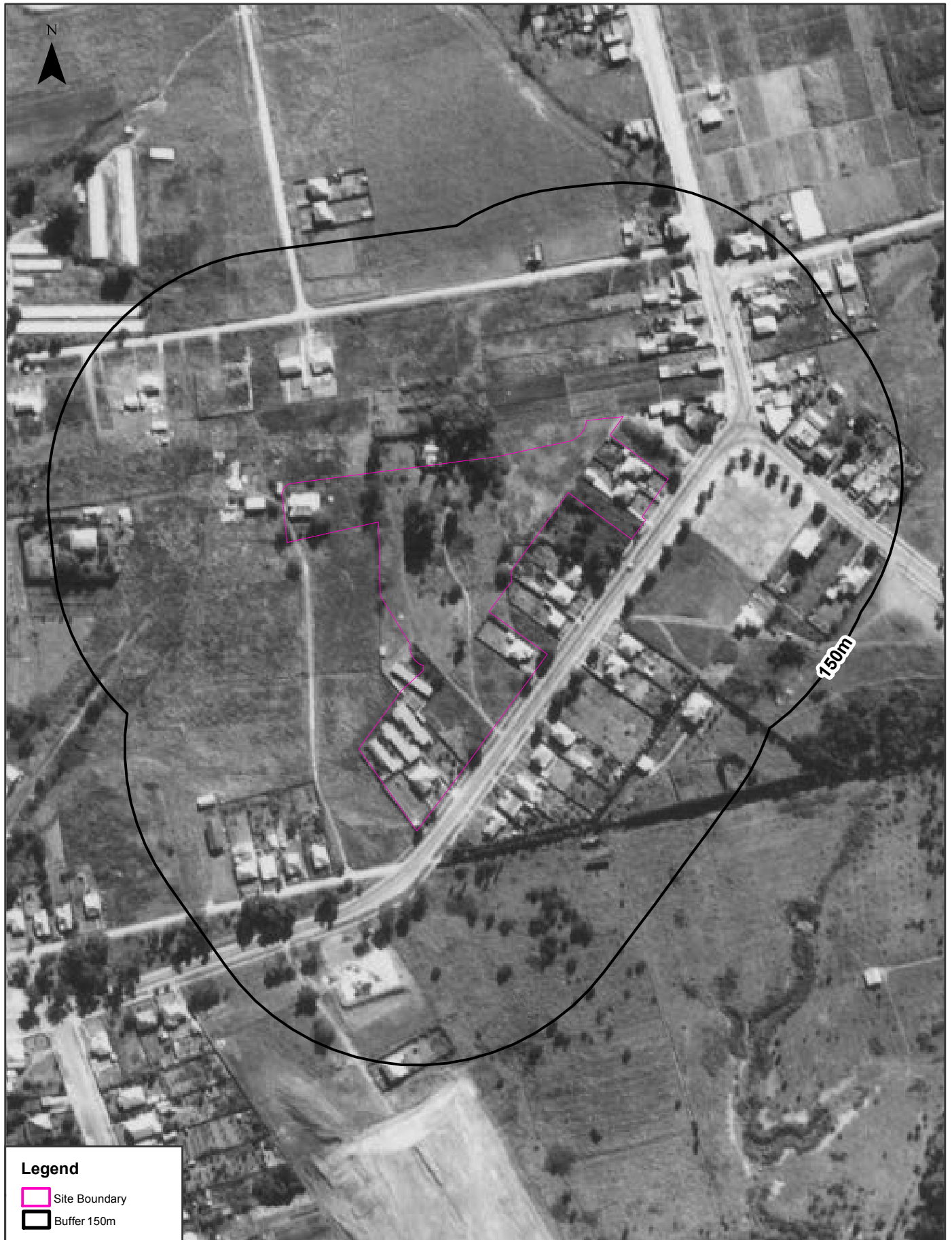
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Coordinate System:
GDA 1994 MGA Zone 56



Date: 12 November 2020

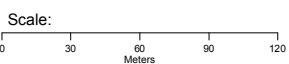
Aerial Imagery 1951

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

-  Site Boundary
-  Buffer 150m



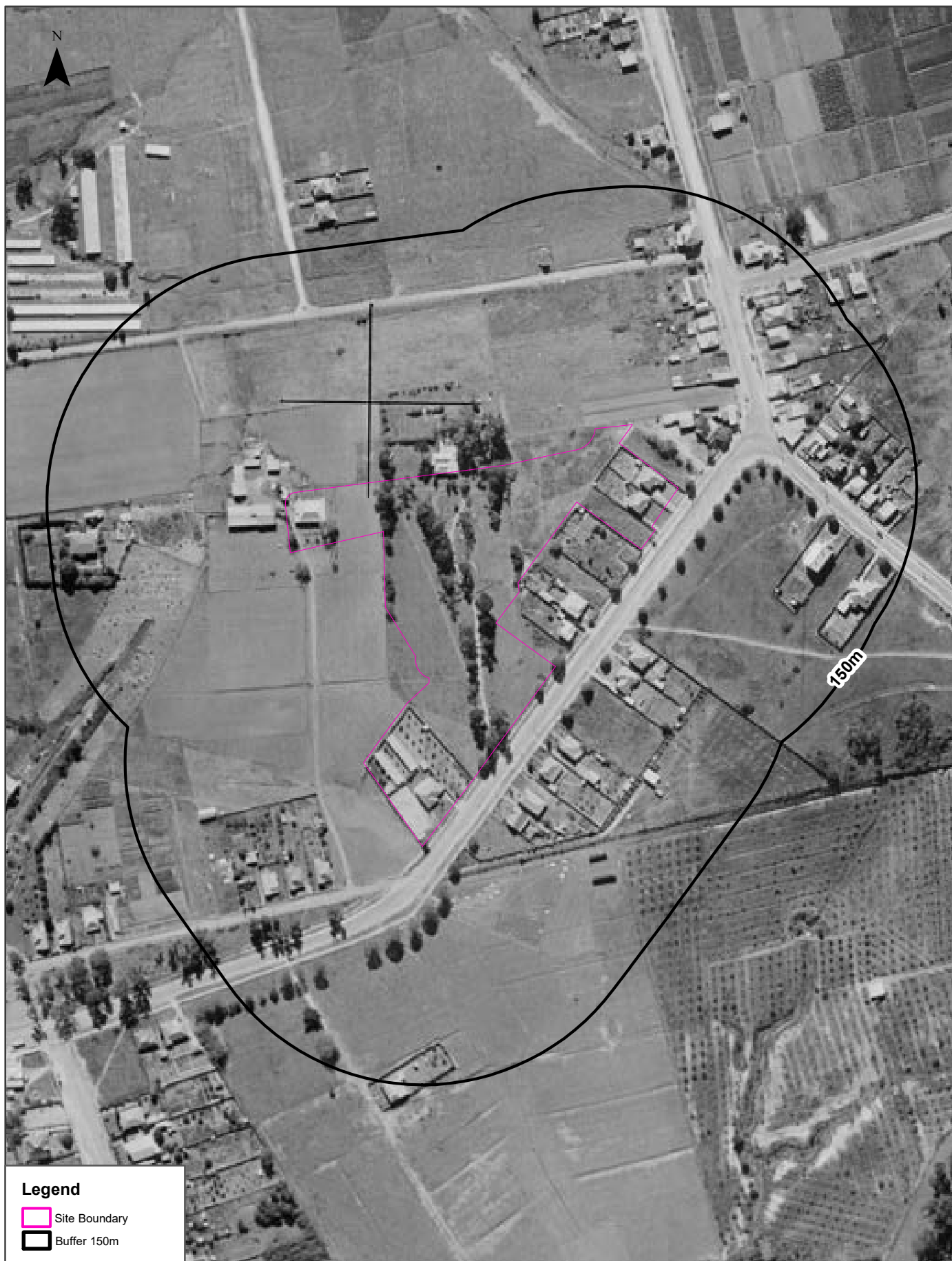
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Date: 12 November 2020

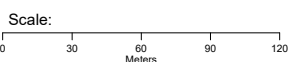
Aerial Imagery 1943

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

- Site Boundary
- Buffer 150m



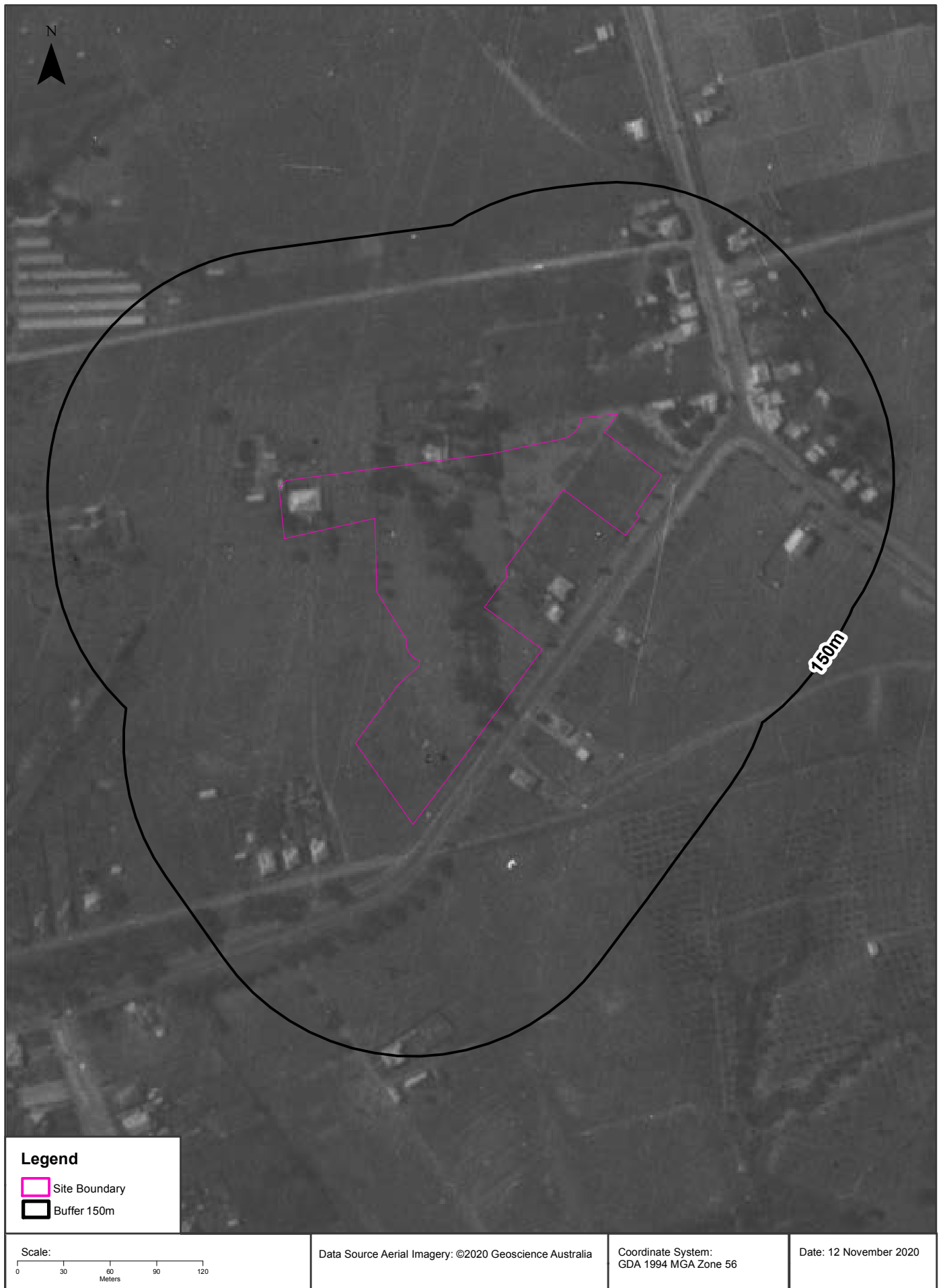
Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
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Date: 16 November 2020

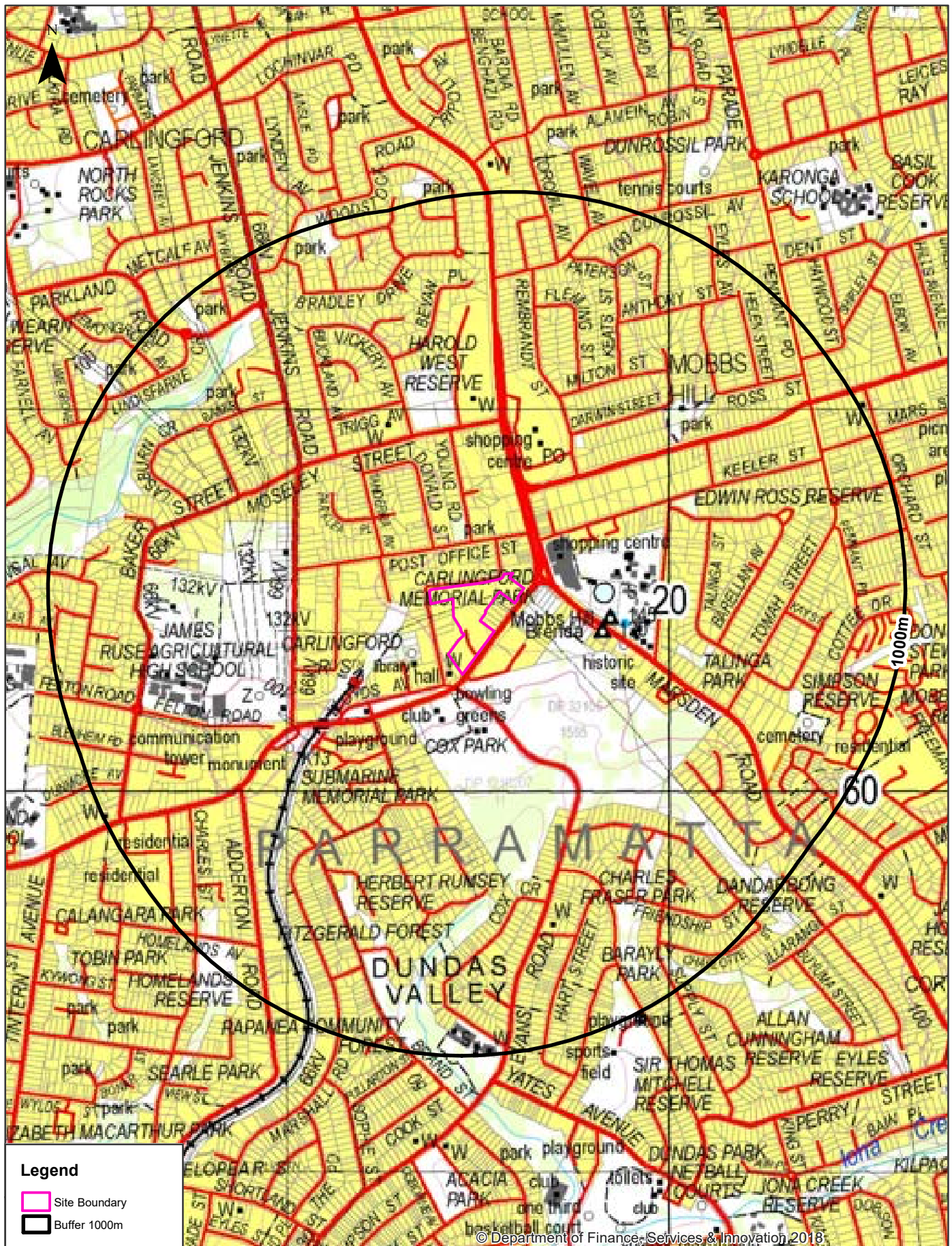
Aerial Imagery 1930

277-281 Pennant Hills Road, Carlingford, NSW 2118



Topographic Map 2015

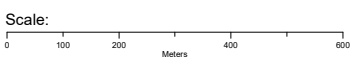
277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

- Site Boundary
- Buffer 1000m

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Data Sources: Topographic Map Data
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

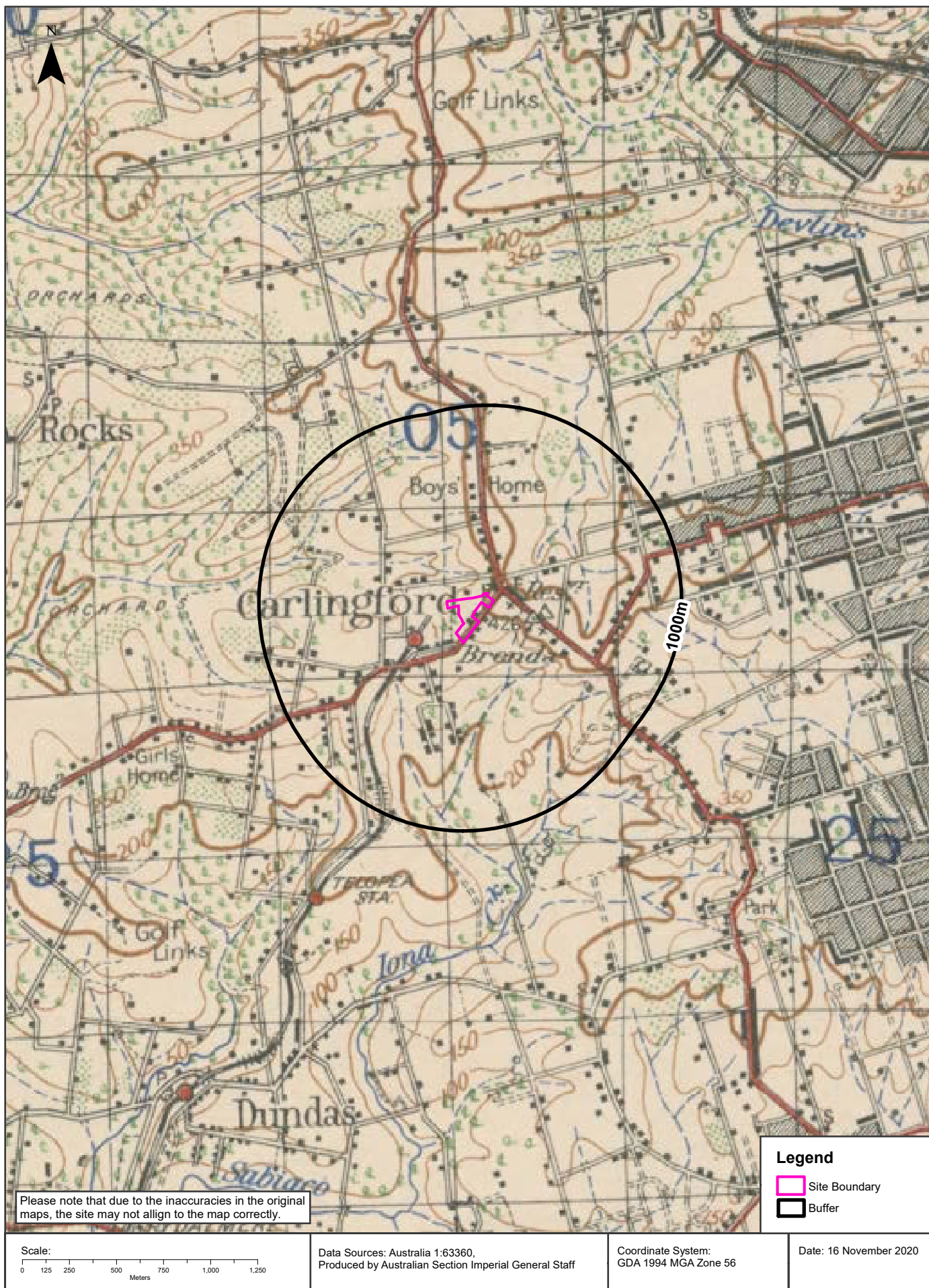
Historical Map 1975

277-281 Pennant Hills Road, Carlingford, NSW 2118



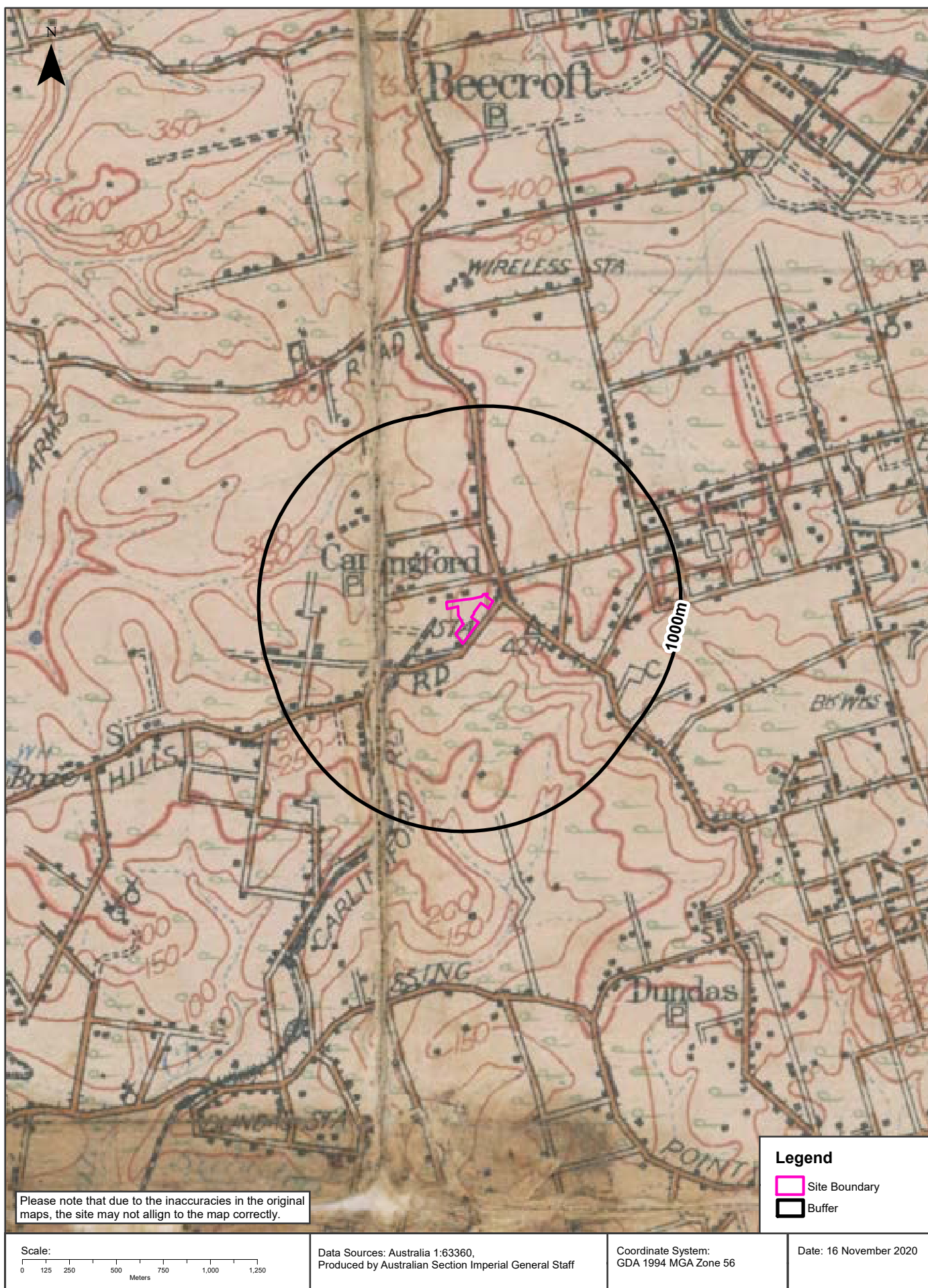
Historical Map c.1936

277-281 Pennant Hills Road, Carlingford, NSW 2118

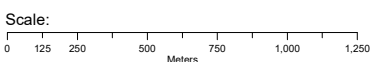


Historical Map c.1917

277-281 Pennant Hills Road, Carlingford, NSW 2118



Please note that due to the inaccuracies in the original maps, the site may not align to the map correctly.



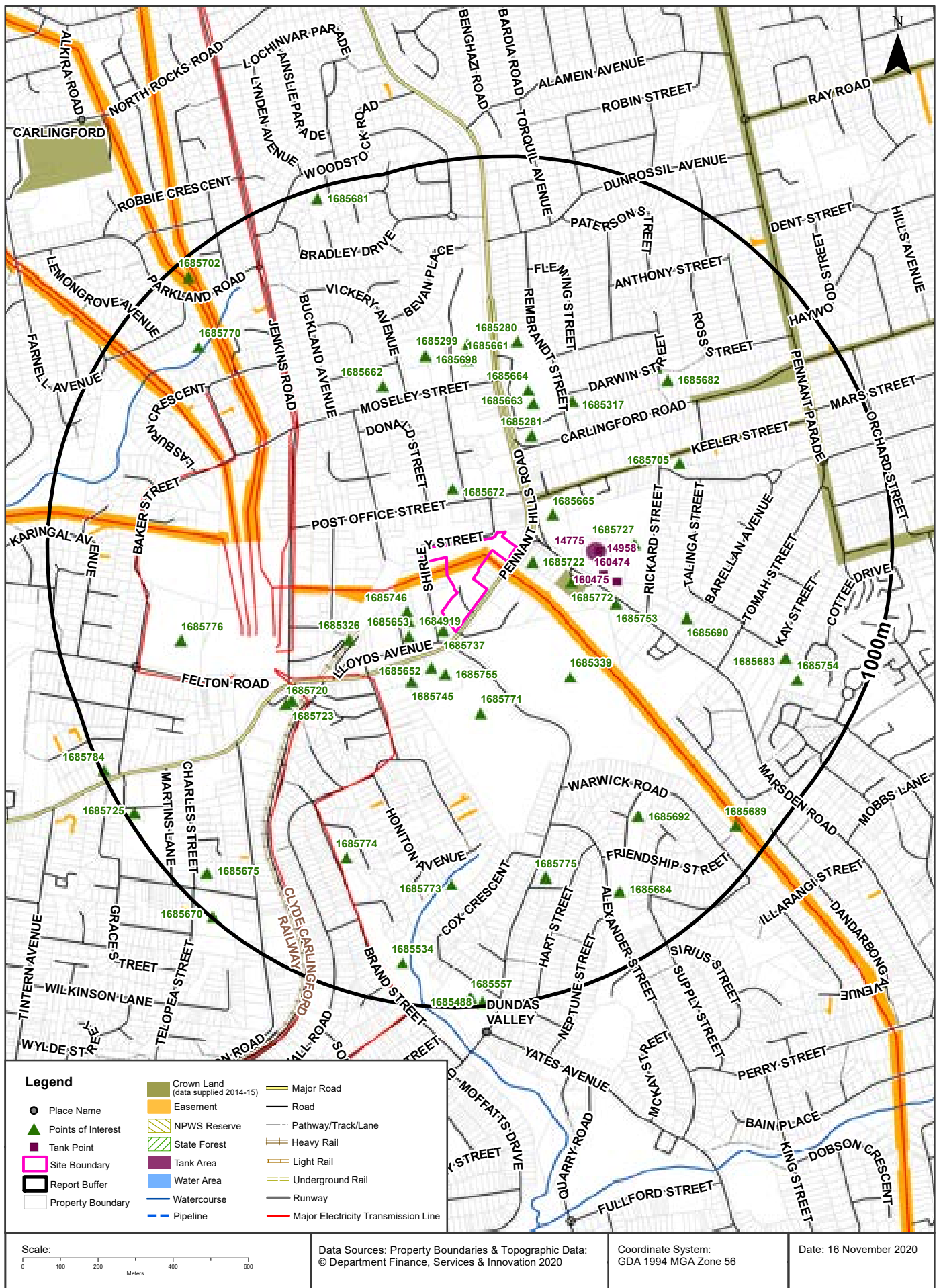
Data Sources: Australia 1:63360,
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

Topographic Features

277-281 Pennant Hills Road, Carlingford, NSW 2118



Topographic Features

277-281 Pennant Hills Road, Carlingford, NSW 2118

Points of Interest

What Points of Interest exist within the dataset buffer?

| Map Id | Feature Type | Label | Distance | Direction |
|---------|--------------------------|--|----------|------------|
| 1685737 | Place Of Worship | CARLINGFORD UNITING CHURCH | 26m | South |
| 1685722 | Park | CARLINGFORD MEMORIAL PARK | 58m | East |
| 1684919 | Community Facility | 1ST CARLINGFORD SCOUT HALL | 91m | South West |
| 1685746 | Sports Court | CRICKET NETS | 92m | South West |
| 1685653 | Library | CARLINGFORD LIBRARY | 108m | South West |
| 1685652 | Club | CARLINGFORD BOWLING SPORTS AND RECREATION CLUB | 115m | South |
| 1685755 | Sports Field | BOWLING GREENS | 116m | South |
| 1685665 | Shopping Centre | CARLINGFORD VILLAGE SHOPPING CENTRE | 129m | North East |
| 1685672 | Park | Park | 147m | North |
| 1685772 | Lookout | ERIC MOBBS MEMORIAL PARK | 174m | East |
| 1685745 | Park | PLAYGROUND | 177m | South West |
| 1685771 | Sports Field | COX PARK | 227m | South |
| 1685326 | Railway Station | CARLINGFORD RAILWAY STATION | 257m | South West |
| 1685281 | Parking Area | Parking Area | 265m | North East |
| 1685753 | Historic Site | ST PAUL'S ANGLICAN CHURCH FORMER | 305m | East |
| 1685727 | Primary School | CARLINGFORD PUBLIC SCHOOL | 314m | East |
| 1685339 | Park | GALARINGI | 315m | South East |
| 1685663 | Post Office | CARLINGFORD POST OFFICE | 349m | North |
| 1685664 | Shopping Centre | CARLINGFORD COURT | 383m | North |
| 1685317 | Community Medical Centre | CARLINGFORD COMMUNITY HEALTH CENTRE | 390m | North East |
| 1685662 | Place Of Worship | ANGLICAN CHURCH | 446m | North West |
| 1685723 | Park | K13 SUBMARINE MEMORIAL PARK | 464m | South West |
| 1685661 | Place Of Worship | MORMON CHURCH | 468m | North |
| 1685720 | Monument | K13 MEMORIAL | 482m | South West |
| 1685705 | Park | EDWIN ROSS RESERVE | 488m | North East |
| 1685690 | Park | TALINGA PARK | 491m | East |
| 1685698 | Park | HAROLD WEST RESERVE | 506m | North |
| 1685280 | Parking Area | Parking Area | 508m | North |
| 1685299 | Parking Area | Parking Area | 508m | North |
| 1685682 | Park | Park | 592m | North East |
| 1684960 | Urban Place | MOBBS HILL | 593m | North East |

| Map Id | Feature Type | Label | Distance | Direction |
|---------|--------------------|-------------------------------------|----------|------------|
| 1685774 | Park | HERBERT RUMSEY RESERVE | 667m | South West |
| 1685773 | Park | FITZGERALD FOREST | 673m | South |
| 1685776 | High School | JAMES RUSE AGRICULTURAL HIGH SCHOOL | 679m | West |
| 1685692 | Park | CHARLES FRASER PARK | 689m | South East |
| 1685775 | Place Of Worship | FAITH BAPTIST CHURCH | 697m | South |
| 1685683 | Park | SIMPSON RESERVE | 775m | East |
| 1685770 | Park | Park | 804m | North West |
| 1685684 | Park | BARAYLY PARK | 817m | South East |
| 1685754 | Cemetery | CARLINGFORD ANGLICAN CEMETERY | 826m | East |
| 1685534 | Park | RAPANEA COMMUNITY FOREST | 893m | South |
| 1685689 | Park | DANDARBONG RESERVE | 904m | South East |
| 1685675 | Park | CALANGARA PARK | 923m | South West |
| 1685702 | Park | Park | 956m | North West |
| 1685681 | Park | Park | 975m | North |
| 1685557 | Primary School | ST BERNADETTE'S PRIMARY SCHOOL | 975m | South |
| 1685725 | Retirement Village | HAYFIELD COURT | 977m | South West |
| 1685488 | Place Of Worship | CATHOLIC CHURCH | 988m | South |
| 1685784 | Place Of Worship | CHURCH OF CHRIST | 992m | South West |
| 1685670 | Park | HOMELANDS RESERVE | 996m | South West |

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

277-281 Pennant Hills Road, Carlingford, NSW 2118

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 |
|--------|-----------|-------------|-----------------------|------------------|----------|-----------|
| 14775 | Water | Operational | MOBBS HILL RESERVOIRS | 13/07/2018 | 186m | East |

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 |
|--------|-----------|--|------|------------------|----------|-----------|
| 14958 | Water | Feature on Previous LPI Tank Area Supply | | 13/06/2001 | 220m | East |
| 160474 | Water | Operational | | 13/07/2018 | 243m | East |
| 160475 | Water | Operational | | 13/07/2018 | 284m | East |

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 |
|-----------|----------------|---------------|----------------|----------|------------|
| 120115391 | Primary | Undefined | | 0m | Onsite |
| 120107621 | Primary | Undefined | | 0m | Onsite |
| 120115396 | Primary | Undefined | | 0m | West |
| 120119277 | Primary | Undefined | | 0m | East |
| 120115395 | Primary | Undefined | | 29m | East |
| 120119281 | Primary | Undefined | | 35m | East |
| 120107617 | Primary | Undefined | | 82m | East |
| 120111503 | Primary | Undefined | | 155m | West |
| 120111504 | Primary | Undefined | | 190m | South East |
| 120107616 | Primary | Undefined | | 263m | West |

| Map Id | Easement Class | Easement Type | Easement Width | Distance | Direction |
|-----------|----------------|---------------|----------------|----------|------------|
| 120119276 | Primary | Undefined | | 308m | West |
| 120111508 | Primary | Undefined | | 425m | South East |
| 120111542 | Primary | Undefined | | 432m | West |
| 120117687 | Primary | Undefined | | 434m | South |
| 120121701 | Primary | Undefined | | 439m | South |
| 120115430 | Primary | Undefined | | 465m | North West |
| 120115452 | Primary | Undefined | | 466m | West |
| 120121601 | Primary | Undefined | | 476m | South |
| 120117715 | Primary | Undefined | | 479m | South |
| 120110141 | Primary | Undefined | | 491m | South |
| 120119316 | Primary | Undefined | | 506m | North West |
| 120115600 | Primary | Undefined | | 516m | West |
| 120110324 | Primary | Undefined | | 585m | North East |
| 120115392 | Primary | Undefined | | 594m | South East |
| 120109881 | Primary | Undefined | | 623m | North West |
| 120113768 | Primary | Undefined | | 629m | North West |
| 120107671 | Primary | Undefined | | 683m | North West |
| 120114069 | Primary | Undefined | | 765m | North West |
| 120107670 | Primary | Undefined | | 779m | North West |
| 120117846 | Primary | Undefined | | 815m | South West |
| 120121928 | Primary | Undefined | | 828m | West |
| 120118223 | Primary | Undefined | | 836m | West |
| 120121645 | Primary | Undefined | | 845m | West |
| 165930531 | Primary | Right of way | 5m | 983m | North East |

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

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Topographic Features

277-281 Pennant Hills Road, Carlingford, NSW 2118

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)
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National Parks and Wildlife Service Reserves

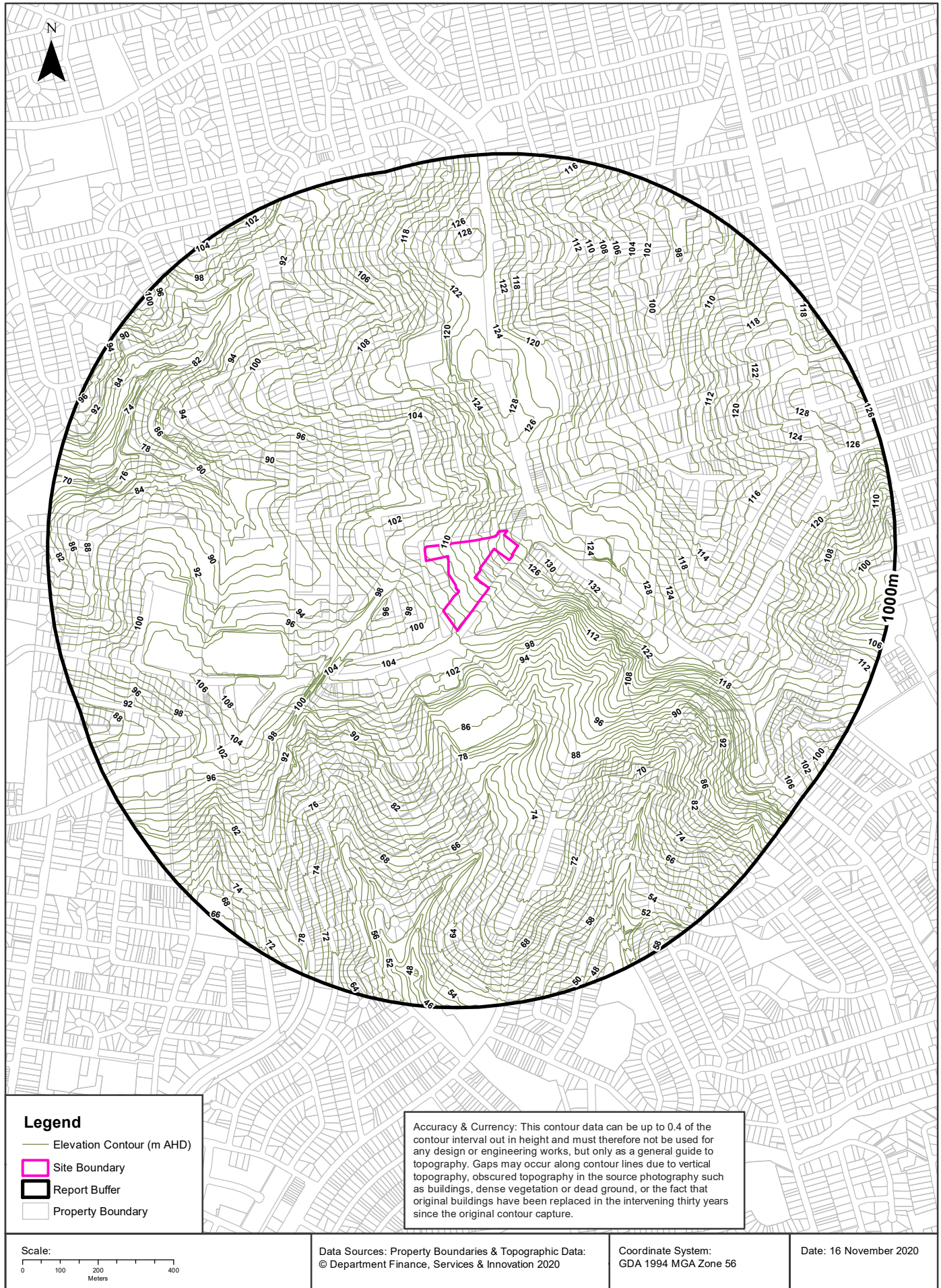
What NPWS Reserves exist within the dataset buffer?

| Reserve Number | Reserve Type | Reserve Name | Gazetted Date | Distance | Direction |
|----------------|----------------------|--------------|---------------|----------|-----------|
| N/A | No records in buffer | | | | |

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)
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Elevation Contours (m AHD)

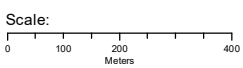
277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

- Elevation Contour (m AHD)
- Site Boundary
- Report Buffer
- Property Boundary

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



Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2020

Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

Hydrogeology & Groundwater

277-281 Pennant Hills Road, Carlingford, NSW 2118

Hydrogeology

Description of aquifers on-site:

| Description |
|--|
| Porous, extensive aquifers of low to moderate productivity |

Description of aquifers within the dataset buffer:

| Description |
|--|
| Porous, extensive aquifers of low to moderate productivity |

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

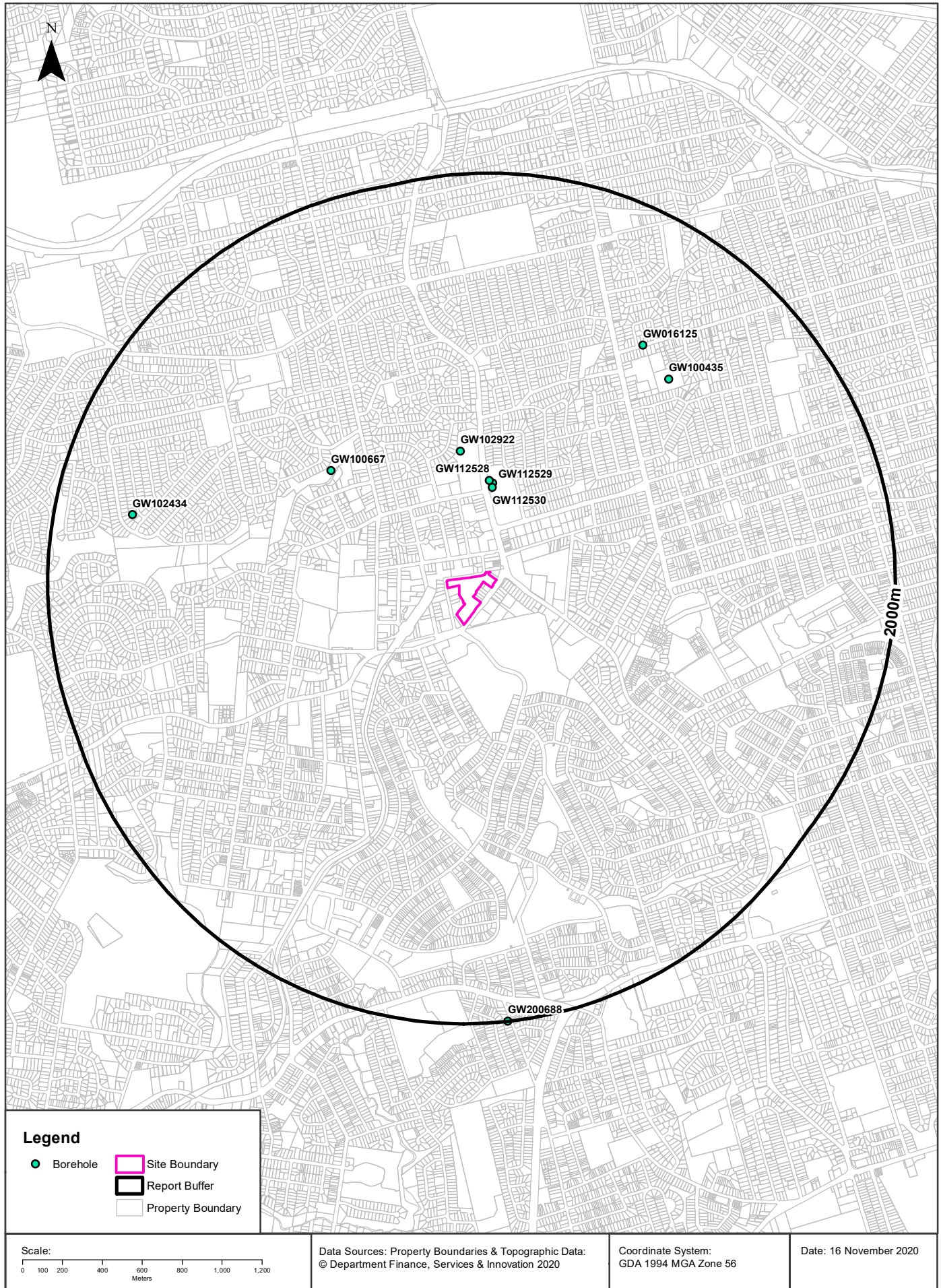
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

| 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

277-281 Pennant Hills Road, Carlingford, NSW 2118



Hydrogeology & Groundwater

277-281 Pennant Hills Road, Carlingford, NSW 2118

Groundwater Boreholes

Boreholes within the dataset buffer:

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWL (m bgl) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|---|-----------|------------|---|--------------------------|-------------------|---------------|-----------------|-------------------|-----------------|-------------|-------------|------------|-------|------------|
| GW112 530 | 10BL605 355 | Bore | Private | Monitoring Bore | Monitoring Bore | Carlingford Court | 15/04/2013 | 5.00 | 5.00 | | 3.54 | | | 424m | North |
| GW112 529 | 10BL605 355 | Bore | Private | Monitoring Bore | Monitoring Bore | Carlingford Court | 15/04/2013 | 5.00 | 5.00 | | 4.20 | | | 444m | North |
| GW112 528 | 10BL605 355 | Bore | Private | Monitoring Bore | Monitoring Bore | Carlingford Court | 15/04/2013 | 5.00 | 5.00 | | 3.69 | | | 458m | North |
| GW102 922 | 10BL156 680, 10BL600 502, 10BL602 287, 10BL603 542, 10WA10 9587 | Bore | Private | Irrigation, Recreation (groundwater), Test Bore | Recreation (groundwater) | | 07/08/2009 | 173.00 | 173.00 | 4000 | 61.00 | 3.000 | | 621m | North |
| GW100 667 | 10BL157 756 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/10/1996 | 3.70 | 3.70 | 260 | 1.67 | | | 802m | North West |
| GW100 435 | 10BL157 898, 10WA10 8396 | Bore | Private | Domestic, Stock | Domestic, Stock | | 16/01/1997 | 24.00 | 24.00 | | 7.00 | 2.500 | | 1317m | North East |
| GW016 125 | 10BL007 597 | Well | Private | Irrigation | Irrigation | | | 5.40 | | | | | | 1369m | North East |
| GW102 434 | 10BL158 966, 10WA10 8437 | Bore | | Domestic, Stock | Domestic, Stock | | 31/05/1999 | 146.00 | 146.00 | 1600 | 65.00 | 1.000 | | 1610m | West |
| GW200 688 | 20BL170 896 | Spear | Private | Domestic | Domestic | | 09/01/2007 | 6.00 | | | | | | 2000m | South |

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

277-281 Pennant Hills Road, Carlingford, NSW 2118

Driller's Logs

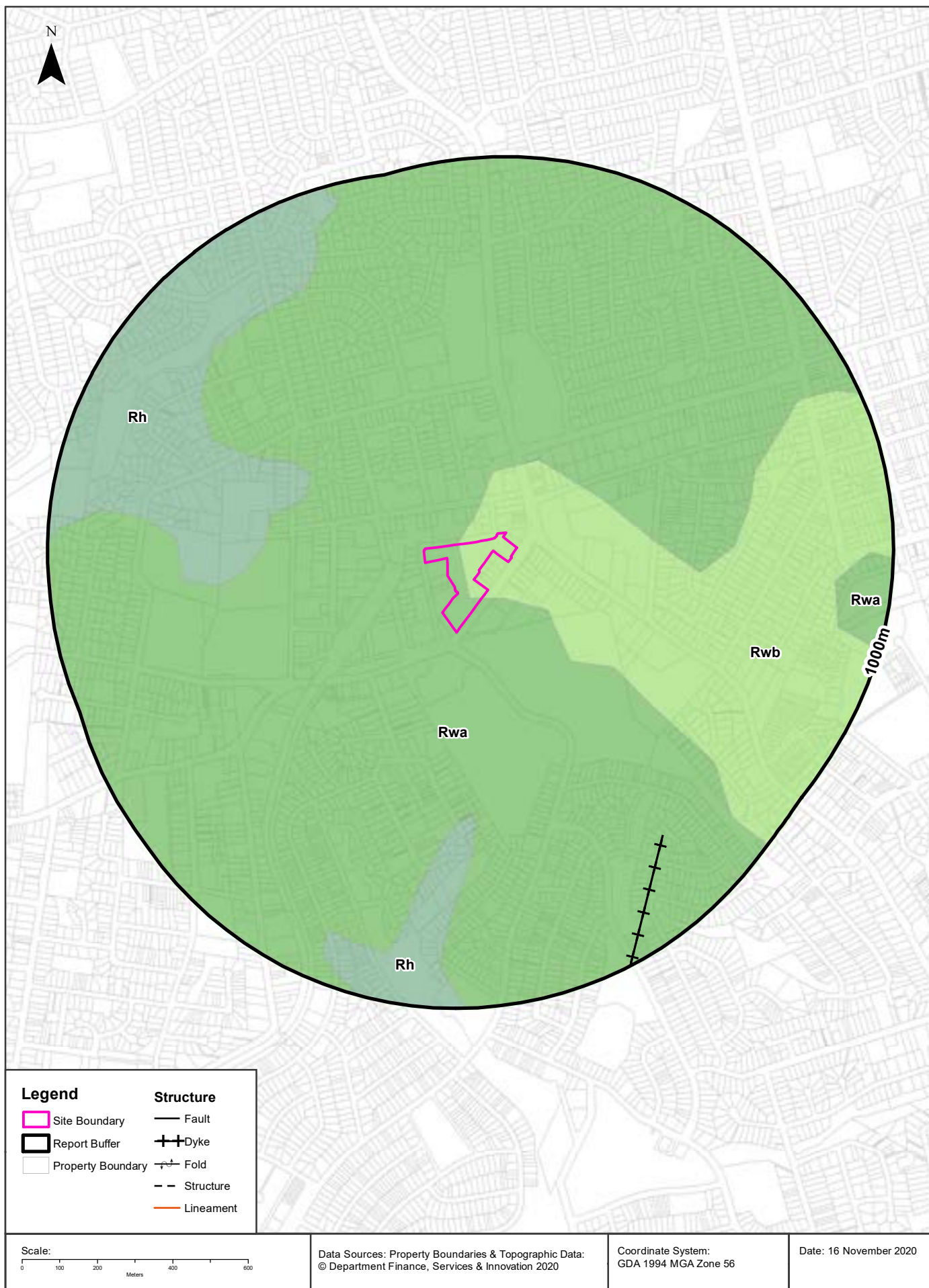
Drill log data relevant to the boreholes within the dataset buffer:

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|--|----------|------------|
| GW112530 | 0.00m-0.30m FILL 0.30m-3.70m CLAYSTONE WITH IRONSTONE, HARD GREY 3.70m-5.00m SHALE HARD DARK BROWN WEATHERED | 424m | North |
| GW112529 | 0.00m-0.33m FILL 0.33m-0.50m GRAVELLY CLAY STIFF BROWN AND GREY 0.50m-1.10m CLAY MOTTLED, VERY STIFF 1.10m-2.80m SILTSTONE VERY HARD, GREY 2.80m-5.00m CLAYSTONE, HARD GREY, IRONSTONE | 444m | North |
| GW112528 | 0.00m-0.50m FILL 0.50m-1.60m CLAY, ASH 1.60m-5.00m CLAYSTONE VERY HARD GREY | 458m | North |
| GW102922 | 0.00m-0.50m TOPSOIL 0.50m-4.70m CLAY BROWN 4.70m-22.00m SHALE GREY 22.00m-32.60m SANDSTONE GREY 32.60m-38.00m SANDSTONE YELLOW 38.00m-42.00m SANDSTONE QUARTZ FRACTURED 42.00m-46.10m SANDSTONE GREY 46.10m-46.30m SANDSTONE FRACTURED 46.30m-49.00m SANDSTONE GREY 49.00m-51.00m CLAY, SILTSTONE GREY 51.00m-64.00m SANDSTONE GREY 64.00m-65.50m SILTSTONE 65.50m-70.00m SANDSTONE GREY 70.00m-70.20m SANDSTONE FRACTURED 70.20m-88.00m SANDSTONE GREY 88.00m-96.00m SANDSTONE/SILTSTONE 96.00m-105.00m SANDSTONE GREY 105.00m-105.50m SANDSTONE FRACTURED 105.50m-128.50m SANDSTONE GREY 128.50m-131.00m SANDSTONE QUARTZ 131.00m-134.00m SANDSTONE GREY 134.00m-141.00m SANDSTONE QUARTZ 141.00m-152.00m SANDSTONE GREY 152.00m-164.00m SANDSTONE QUARTZ 164.00m-164.50m SANDSTONE FRACTURED 164.50m-172.50m SANDSTONE GREY 172.50m-173.00m SANDSTONE FRACTURED | 621m | North |
| GW100667 | 0.00m-0.30m Topsoil, Clayey 0.30m-0.50m Clay, Dkgrey, firm 0.50m-1.00m Clay, Orange/red, Fe nod; moist 1.00m-1.60m Clay, mottled grey/red, firm-stiff, Wet at 1.6m 1.60m-3.00m Shale, highly weathered, hard 3.00m-3.70m Shale, mottled grey/orange, moderately weath. | 802m | North West |
| GW100435 | 0.00m-0.50m SOIL 0.50m-5.00m CLAY 5.00m-6.00m SAND 6.00m-12.00m CLAY 12.00m-18.00m GRAVEL 18.00m-24.00m SANDSTONE | 1317m | North East |
| GW102434 | 0.00m-1.50m SOIL 1.50m-2.10m SANDSTONE FLOATER 2.10m-38.10m SANDSTONE 38.10m-39.00m SHALE 39.00m-41.00m SHALE/SANDSTONE 41.00m-54.00m SANDSTONE/SHALE BANDS 54.00m-116.00m SANDSTONE 116.00m-120.00m SHALE 120.00m-126.00m SANDSTONE 126.00m-133.00m SANDSTONE/QUARTZ/IRONSTONE 133.00m-138.00m SANDSTONE SOFT 138.00m-146.00m SANDSTONE | 1610m | West |

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
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Geology 1:100,000

277-281 Pennant Hills Road, Carlingford, NSW 2118



Geology

277-281 Pennant Hills Road, Carlingford, NSW 2118

Geological Units

What are the Geological Units onsite?

| Symbol | Description | Unit Name | Group | Sub Group | Age | Dom Lith | Map Sheet | Dataset |
|--------|---|-----------------|------------------|-----------|----------|----------|-----------|-----------|
| Rwa | Black to dark grey shale and laminate | Ashfield Shale | Wianamatta Group | | Triassic | | Sydney | 1:100,000 |
| Rwb | Shale, carbonaceous claystone, laminate, fine to medium-grained lithic sandstone, rare coal | Bringelly Shale | Wianamatta Group | | Triassic | | Sydney | 1:100,000 |

What are the Geological Units within the dataset buffer?

| Symbol | Description | Unit Name | Group | Sub Group | Age | Dom Lith | Map Sheet | Dataset |
|--------|---|-----------------|------------------|-----------|----------|----------|-----------|-----------|
| Rh | Medium to coarse grained quartz sandstone, very minor shale and laminate lenses | | | | Triassic | | Sydney | 1:100,000 |
| Rwa | Black to dark grey shale and laminate | Ashfield Shale | Wianamatta Group | | Triassic | | Sydney | 1:100,000 |
| Rwb | Shale, carbonaceous claystone, laminate, fine to medium-grained lithic sandstone, rare coal | Bringelly Shale | Wianamatta Group | | Triassic | | Sydney | 1:100,000 |

Geological Structures

What are the Geological Structures onsite?

| Feature | Name | Description | Map Sheet | Dataset |
|-------------|------|-------------|-----------|-----------|
| No features | | | | 1:100,000 |

What are the Geological Structures within the dataset buffer?

| Feature | Name | Description | Map Sheet | Dataset |
|---------|------|-------------|-----------|-----------|
| Dyke | | | Sydney | 1:100,000 |

Geological Data Source : NSW Department of Industry, Resources & Energy

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

Naturally Occurring Asbestos Potential

277-281 Pennant Hills Road, Carlingford, NSW 2118

Naturally Occurring Asbestos Potential

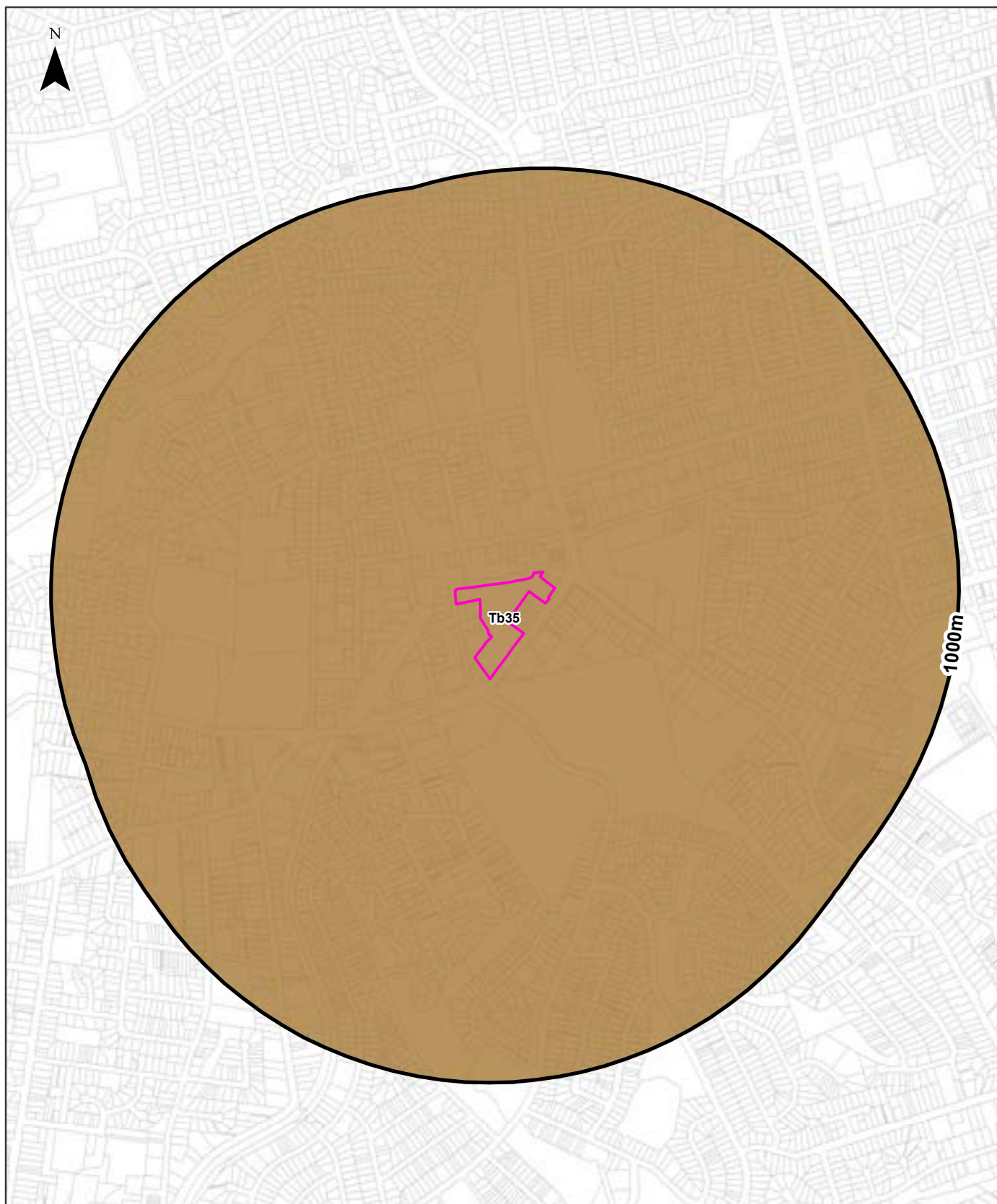
Naturally Occurring Asbestos Potential within the dataset buffer:

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

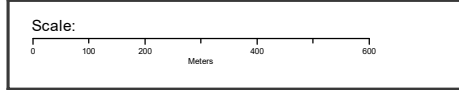
Mining Subsidence District Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils

277-281 Pennant Hills Road, Carlingford, NSW 2118



| Legend | | Australian Soil Classification Orders | | | | | |
|-------------------|------------|---------------------------------------|-----------|---------|----------|---------|--|
| Site Boundary | Anthrosol | Dermosol | Kandosol | Podosol | Tenosol | No Data | |
| Report Buffer | Calcarosol | Ferrosol | Kurosol | Rudosol | Vertosol | | |
| Property Boundary | Chromosol | Hydrosol | Organosol | Sodosol | Lake | | |



Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2020

Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

Soils

277-281 Pennant Hills Road, Carlingford, NSW 2118

Atlas of Australian Soils

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

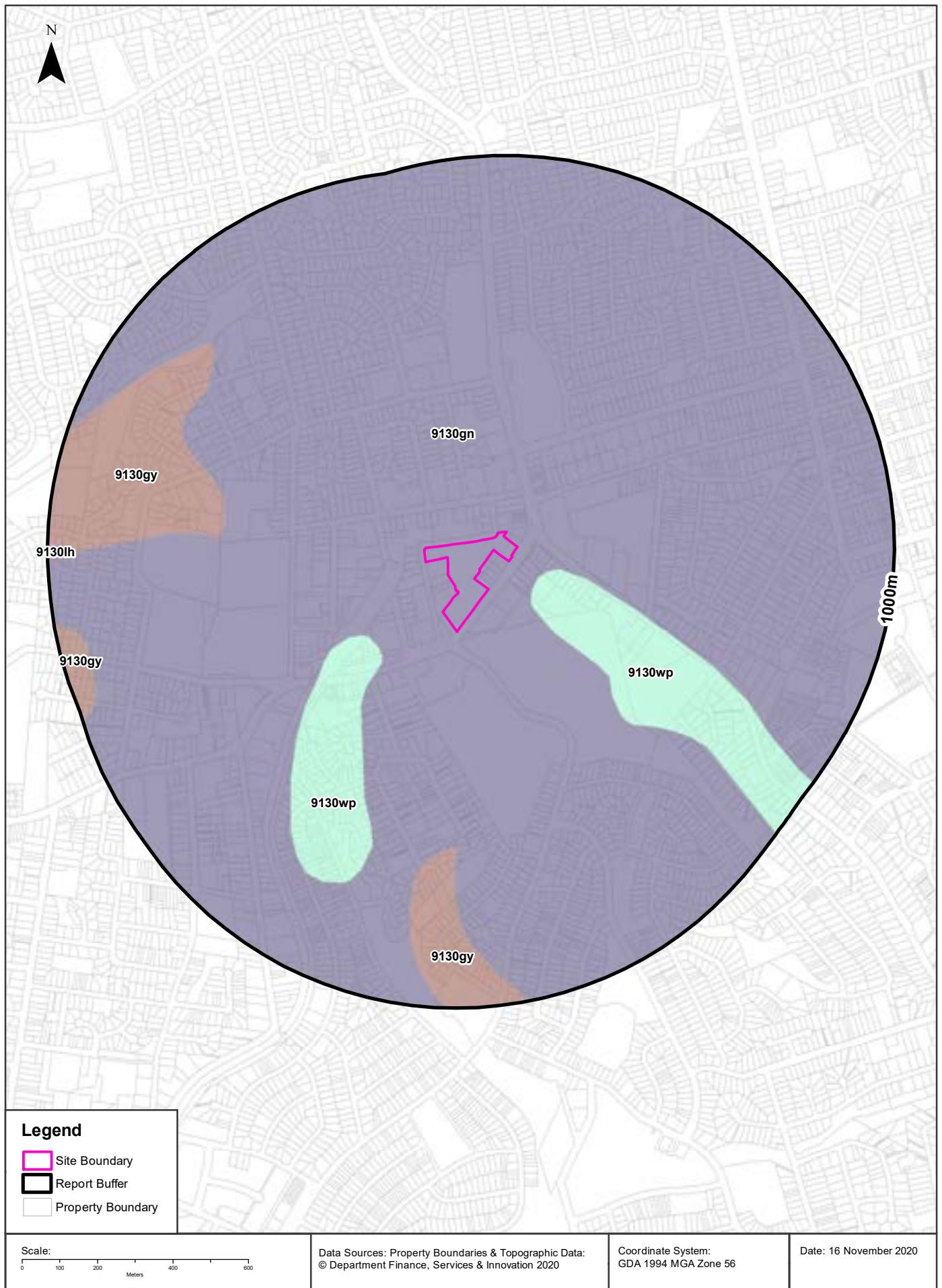
| Map Unit Code | Soil Order | Map Unit Description | Distance |
|---------------|------------|---|----------|
| Tb35 | Sodosol | Dissected plateau remnants--flat to undulating ridge tops with moderate to steep side slopes: chief soils are hard acidic yellow and yellow mottled soils (Dy3.41), (Dy2.21), and (Dy2.41) and hard acidic red soils (Dr2.21); many shallow profiles occur and profile thickness varies considerably over short distances. Associated are: (Gn3.54), (Gn3.14), and possibly other (Gn3) soils; (Db1.2) soils on some ridges; (Dy5.81) soils in areas transitional to unit Mb2; soils common to unit Mb2; and eroded lateritic remnants. Small areas of other soils are likely. Flat ferruginous shale or sandstone fragments are common on and/or in and/or below the soils of this unit. | 0m |

Atlas of Australian Soils Data Source: CSIRO

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Soil Landscapes of Central and Eastern NSW

277-281 Pennant Hills Road, Carlingford, NSW 2118



Soils

277-281 Pennant Hills Road, Carlingford, NSW 2118

Soil Landscapes of Central and Eastern NSW

What are the on-site Soil Landscapes?

| Soil Code | Name |
|------------------------|----------|
| 9130gn | Glenorie |

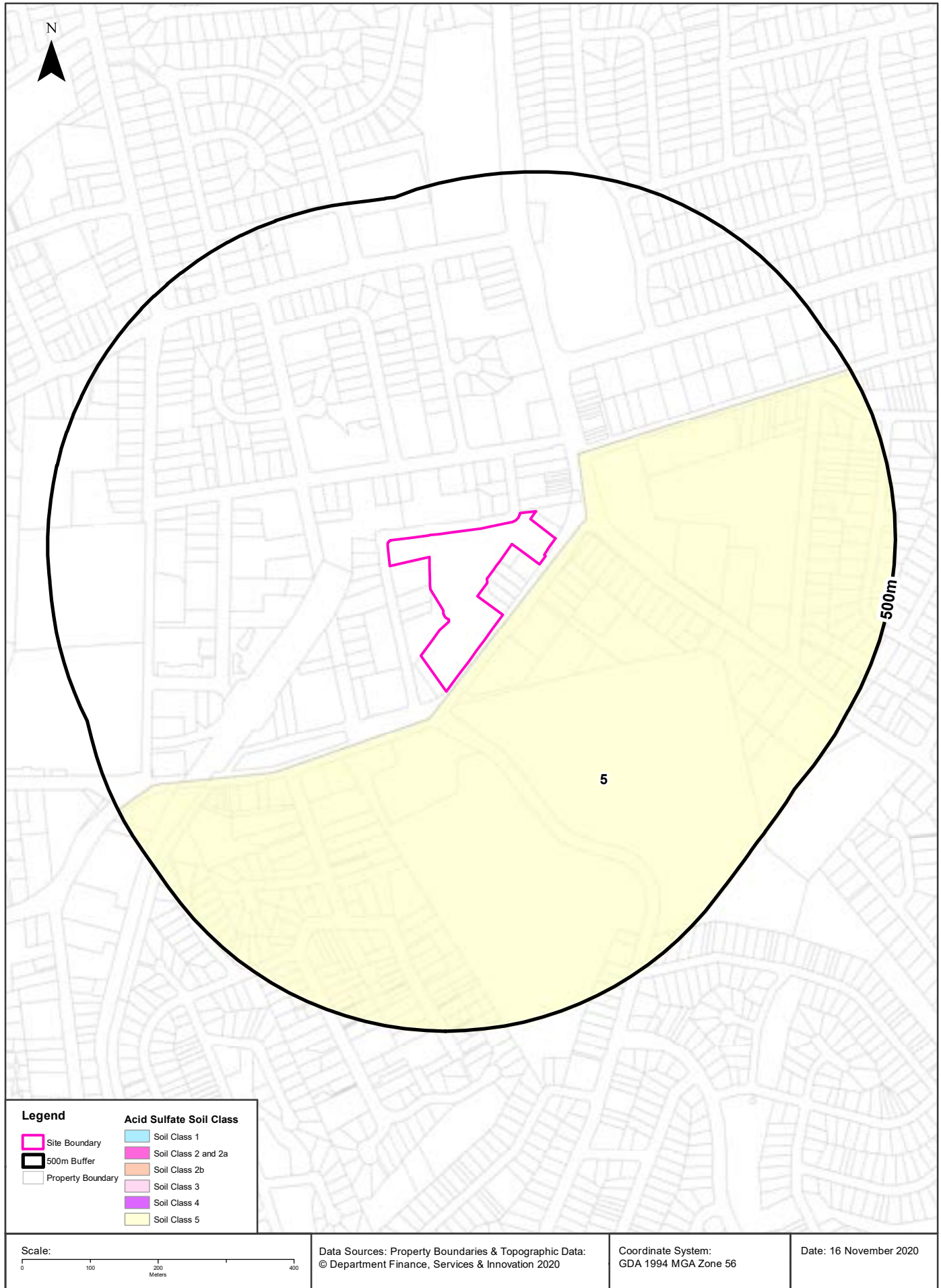
What are the Soil Landscapes within the dataset buffer?

| Soil Code | Name |
|------------------------|--------------------|
| 9130gn | Glenorie |
| 9130gy | Gymea |
| 9130lh | Lucas Heights |
| 9130wp | West Pennant Hills |

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

277-281 Pennant Hills Road, Carlingford, NSW 2118



Acid Sulfate Soils

277-281 Pennant Hills Road, Carlingford, NSW 2118

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?

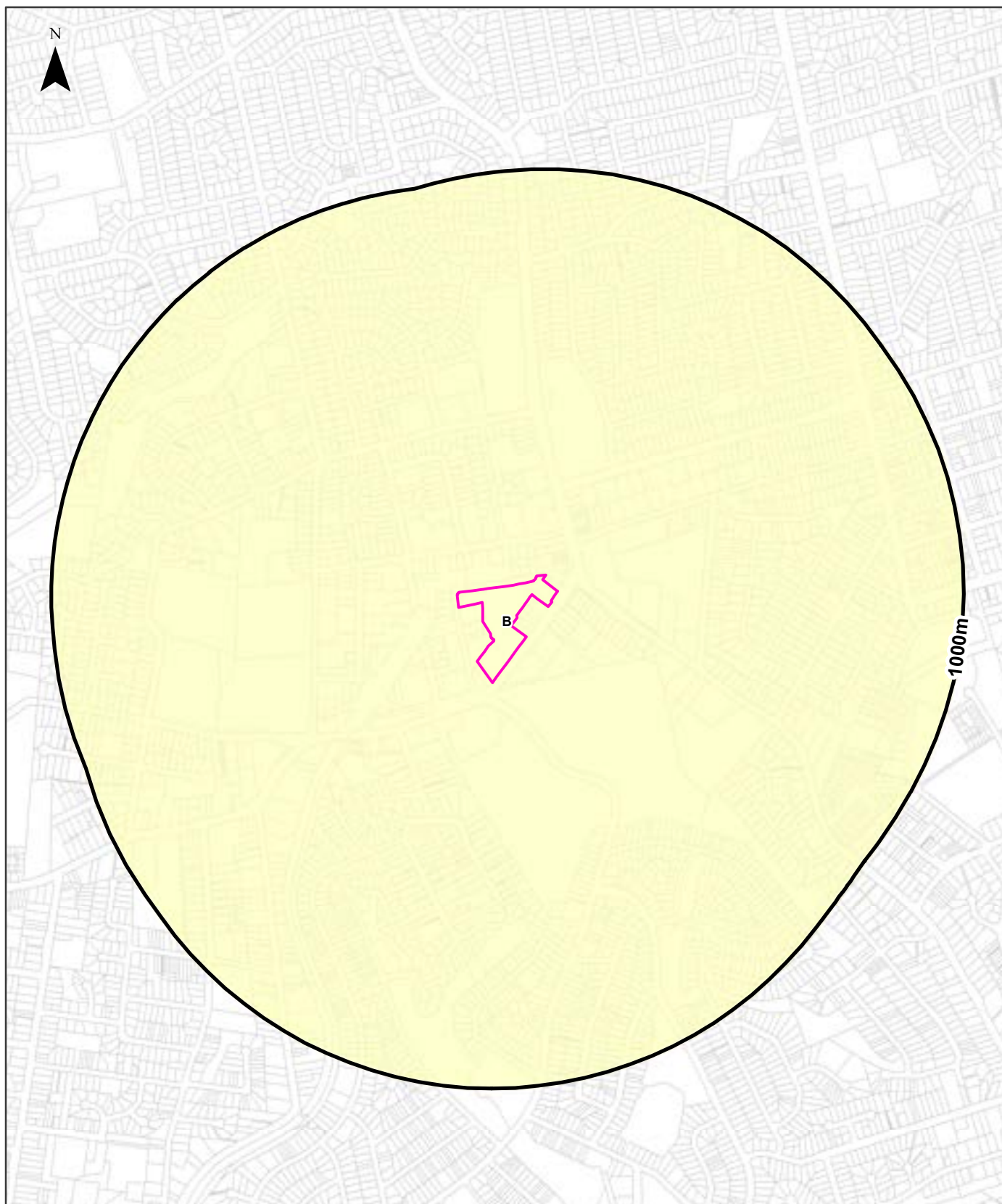
| Soil Class | Description | EPI Name | Distance | Direction |
|------------|-------------|----------|----------|-----------|
| N/A | | | | |

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Atlas of Australian Acid Sulfate Soils

277-281 Pennant Hills Road, Carlingford, NSW 2118



| | | | |
|--|---|-------------------------|--|
| Legend | | | |
| Site Boundary | Probability of occurrence of Acid Sulfate Soils | | |
| Report Buffer | A. High (>70%) | C. Extremely Low (1-5%) | No Data |
| Property Boundary | B. Low (6-70%) | D. No Chance (0%) | |
| Scale: 0 100 200 400 600 Meters | Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2020 | | Coordinate System: GDA 1994 MGA Zone 56 |
| | | | Date: 16 November 2020 |

Acid Sulfate Soils

277-281 Pennant Hills Road, Carlingford, NSW 2118

Atlas of Australian Acid Sulfate Soils

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

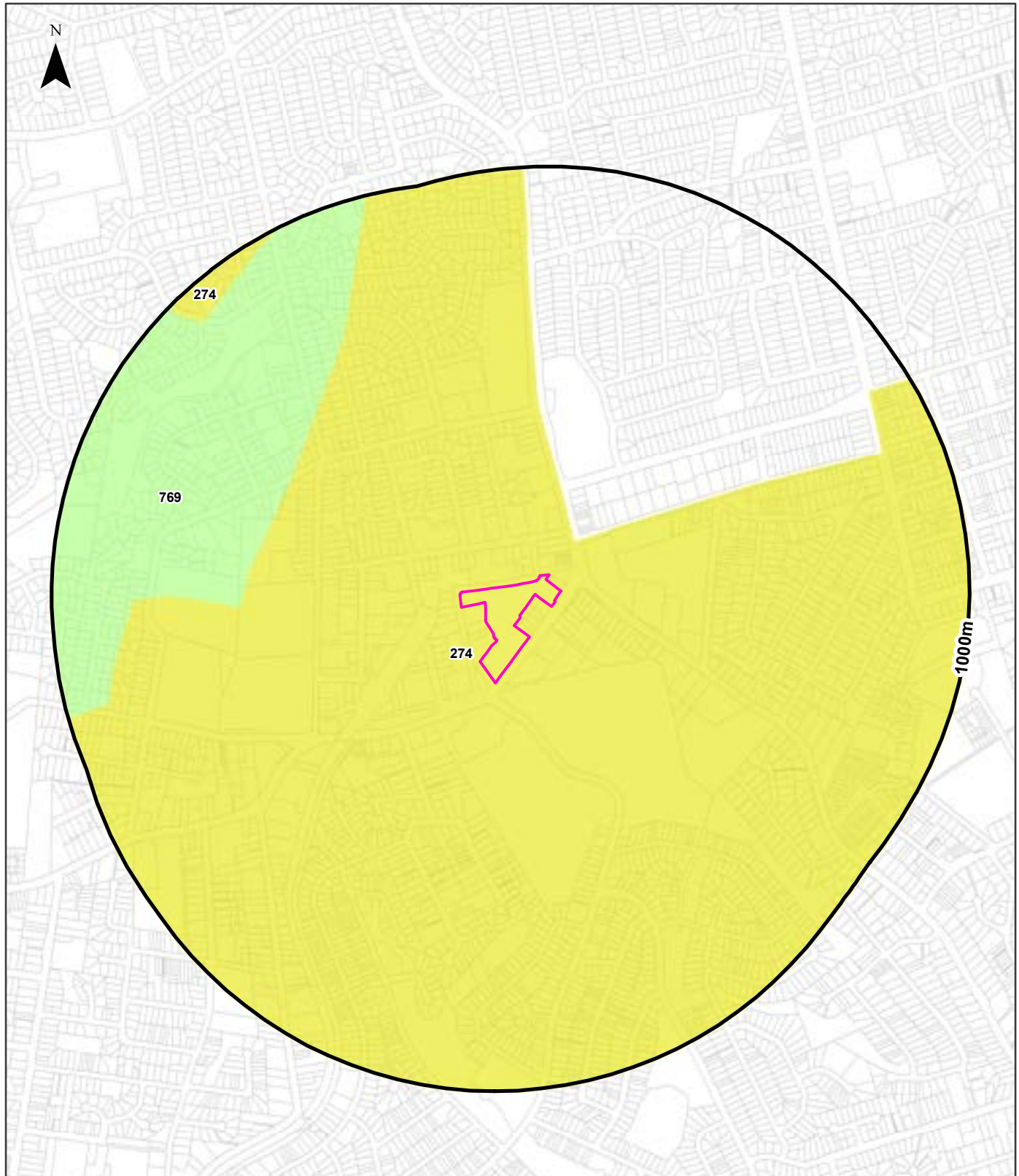
| Class | Description | Distance |
|-------|--|----------|
| B | Low Probability of occurrence. 6-70% chance of occurrence. | 0m |

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

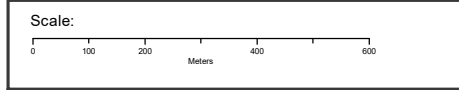
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Dryland Salinity

277-281 Pennant Hills Road, Carlingford, NSW 2118



| Legend | | Dryland Salinity - National Assessment | | Salinity Potential of Western Sydney | |
|-------------------|--|---|---|--------------------------------------|--|
| Site Boundary | Delineated risk area but no high hazard or risk rating for either 2000, 2020, 2050 | High hazard or risk in 2020 and 2050 | High hazard or risk defined for all years: 2000, 2020, 2050 | Area of Known Salinity | |
| Report Buffer | High hazard or risk in 2050 only | High hazard or risk in 2000 and 2050. 2020 not defined as high hazard | | Area of High Salinity Potential | |
| Property Boundary | High hazard or risk defined for 2050, but no assessment made for 2000 or 2020 | | | Area of Moderate Salinity Potential | |
| | | | | Area of Very Low Salinity Potential | |
| | | | | Area of Water | |



Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2020

Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

Dryland Salinity

277-281 Pennant Hills Road, Carlingford, NSW 2118

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 | 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.

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

| Feature Id | Classification | Description | Distance | Direction |
|------------|----------------|-------------------------------------|----------|-----------|
| 274 | MODERATE | Area of Moderate Salinity Potential | 0m | Onsite |
| 769 | LOW | Area of Very Low Salinity Potential | 494m | West |

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage

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Mining

277-281 Pennant Hills Road, Carlingford, NSW 2118

Mining Subsidence Districts

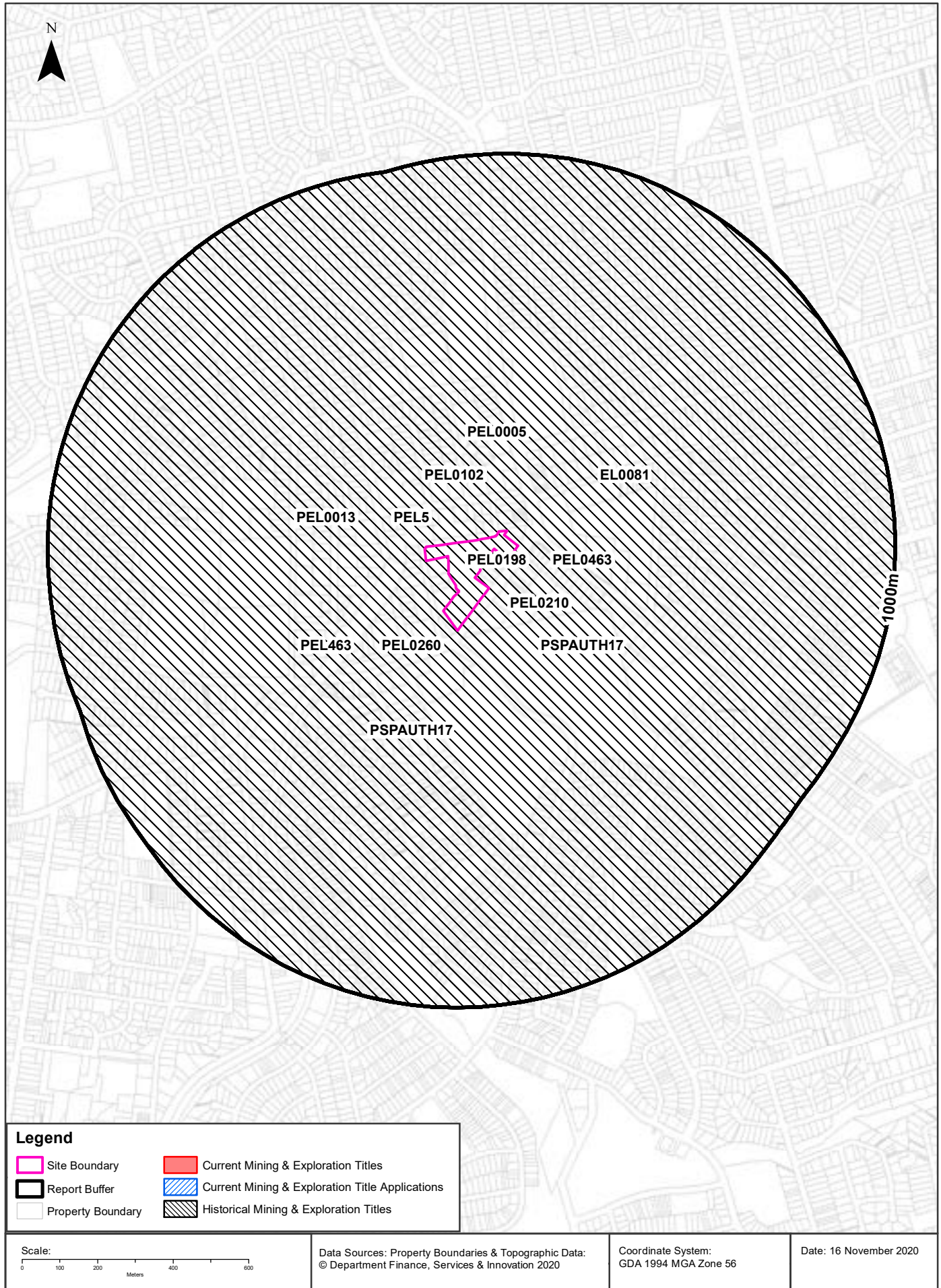
Mining Subsidence Districts within the dataset buffer:

| 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

277-281 Pennant Hills Road, Carlingford, NSW 2118



Mining

277-281 Pennant Hills Road, Carlingford, NSW 2118

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 (m) | 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 (m) | 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

277-281 Pennant Hills Road, Carlingford, NSW 2118

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

| Title Ref | Holder | Start Date | End Date | Resource | Minerals | Dist (m) | Dir' |
|-----------|--|-------------|-------------|-----------|-----------|----------|--------|
| EL0081 | CONTINENTAL OIL CO OF AUSTRALIA LIMITED | 01 Feb 1967 | 01 Feb 1968 | MINERALS | | 0m | Onsite |
| PEL0005 | AGL UPSTREAM INVESTMENTS PTY LIMITED | 11/11/1993 | 4/03/2015 | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0013 | AUSTRALIAN OIL AND GAS CORPORATION LTD | | | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0102 | AUSTRALIAN OIL AND GAS CORPORATION LTD | | | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0198 | JOHN STREVENS (TERRIGAL) NL | | | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0210 | THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD | | | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0260 | NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO. | 9/09/1981 | 8/03/1993 | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0463 | DART ENERGY (APOLLO) PTY LTD | 22/10/2008 | 6/03/2015 | PETROLEUM | Petroleum | 0m | Onsite |
| PEL463 | DART ENERGY (APOLLO) PTY LTD | | | MINERALS | | 0m | Onsite |
| PEL5 | AGL UPSTREAM INVESTMENTS PTY LIMITED | | | MINERALS | | 0m | Onsite |
| PSPAUTH17 | MACQUARIE ENERGY PTY LTD | | | MINERALS | | 0m | Onsite |
| PSPAUTH17 | MACQUARIE ENERGY PTY LTD | 8/03/2007 | 7/03/2008 | PETROLEUM | Petroleum | 0m | Onsite |

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

State Environmental Planning Policy

277-281 Pennant Hills Road, Carlingford, NSW 2118

State Significant Precincts

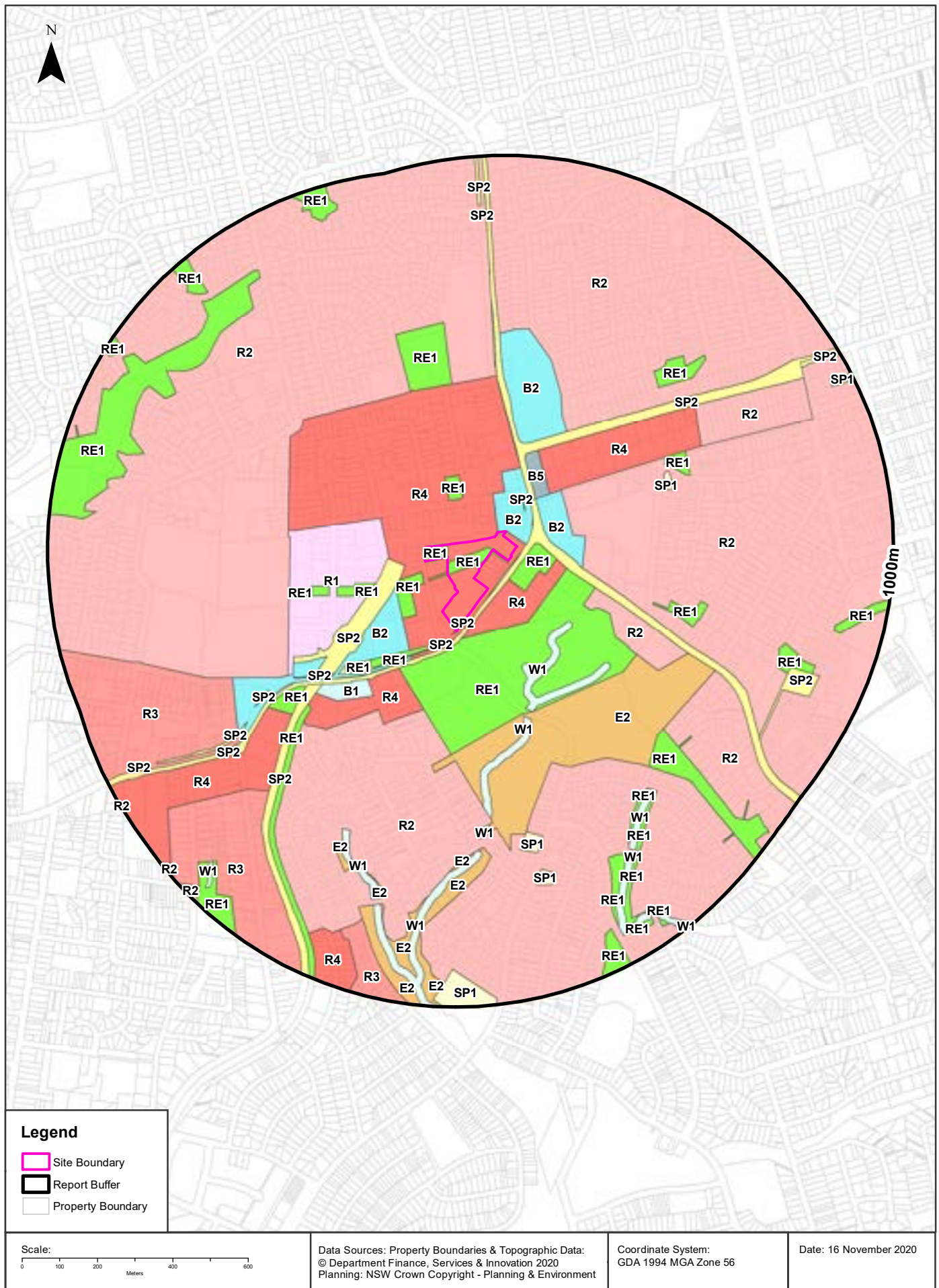
What SEPP State Significant Precincts exist within the dataset buffer?

| Map Id | Precinct | EPI Name | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|--------|----------------------|----------|----------------|----------------|---------------|-----------|----------|-----------|
| N/A | No Records in Buffer | | | | | | | |

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EPI Planning Zones

277-281 Pennant Hills Road, Carlingford, NSW 2118



Environmental Planning Instrument

277-281 Pennant Hills Road, Carlingford, NSW 2118

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 |
|------|--------------------------|-----------------|---|----------------|----------------|---------------|-----------------|----------|------------|
| R4 | High Density Residential | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 0m | Onsite |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 0m | Onsite |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 0m | South |
| B2 | Local Centre | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 0m | North East |
| SP2 | Infrastructure | Classified Road | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 10m | South |
| R4 | High Density Residential | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 22m | South East |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 23m | South East |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 29m | East |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 29m | West |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 32m | South West |
| SP2 | Infrastructure | Railway | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 56m | South West |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 65m | South West |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 73m | North East |
| B2 | Local Centre | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 81m | North East |
| R1 | General Residential | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 96m | West |
| SP2 | Infrastructure | Road | Hornsby Local Environmental Plan 2013 | 29/09/2017 | 29/09/2017 | 29/09/2017 | Amendment No 8 | 103m | North East |
| B2 | Local Centre | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 104m | South West |
| B5 | Business Development | | Hornsby Local Environmental Plan 2013 | 27/09/2013 | 11/10/2013 | 29/09/2017 | | 117m | North East |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 117m | North |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 143m | West |
| R2 | Low Density Residential | | Parramatta Local Environmental Plan 2011 | 09/02/2018 | 09/02/2018 | 05/06/2020 | Amendment No 24 | 150m | East |
| R4 | High Density Residential | | Hornsby Local Environmental Plan 2013 | 27/09/2013 | 11/10/2013 | 29/09/2017 | | 152m | North East |

| Zone | Description | Purpose | EPI Name | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|------|----------------------------|-------------------------|---|----------------|----------------|---------------|---|----------|------------|
| R4 | High Density Residential | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 183m | South West |
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 194m | South East |
| R2 | Low Density Residential | | Parramatta Local Environmental Plan 2011 | 19/12/2018 | 19/12/2018 | 05/06/2020 | State Environmental Planning Policy Amendment (Telopea Precinct) 2018 | 226m | South East |
| R2 | Low Density Residential | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 228m | East |
| B2 | Local Centre | | Hornsby Local Environmental Plan 2013 | 27/09/2013 | 11/10/2013 | 29/09/2017 | | 238m | North |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 256m | South West |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 263m | West |
| B1 | Neighbourhood Centre | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 268m | South West |
| E2 | Environmental Conservation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 277m | South East |
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 287m | South |
| R2 | Low Density Residential | | Hornsby Local Environmental Plan 2013 | 27/09/2013 | 11/10/2013 | 29/09/2017 | | 307m | North East |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 330m | South West |
| R2 | Low Density Residential | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 357m | West |
| SP2 | Infrastructure | Railway Corridor | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 372m | South West |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 390m | East |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 414m | North |
| SP1 | Special Activities | Place of Public Worship | Parramatta Local Environmental Plan 2011 | 09/02/2018 | 09/02/2018 | 05/06/2020 | Amendment No 24 | 416m | North East |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 418m | South West |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 433m | South West |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 448m | North East |
| R4 | High Density Residential | | Parramatta Local Environmental Plan 2011 | 05/06/2020 | 05/06/2020 | 05/06/2020 | Amendment No 41 | 484m | South West |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 506m | South West |
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 520m | South |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 525m | South |
| R2 | Low Density Residential | | Hornsby Local Environmental Plan 2013 | 27/09/2013 | 11/10/2013 | 29/09/2017 | | 556m | North East |
| RE1 | Public Recreation | | Hornsby Local Environmental Plan 2013 | 27/09/2013 | 11/10/2013 | 29/09/2017 | | 557m | North East |
| SP1 | Special Activities | Place of Public Worship | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 564m | South |
| E2 | Environmental Conservation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 580m | South |
| R3 | Medium Density Residential | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 586m | South West |

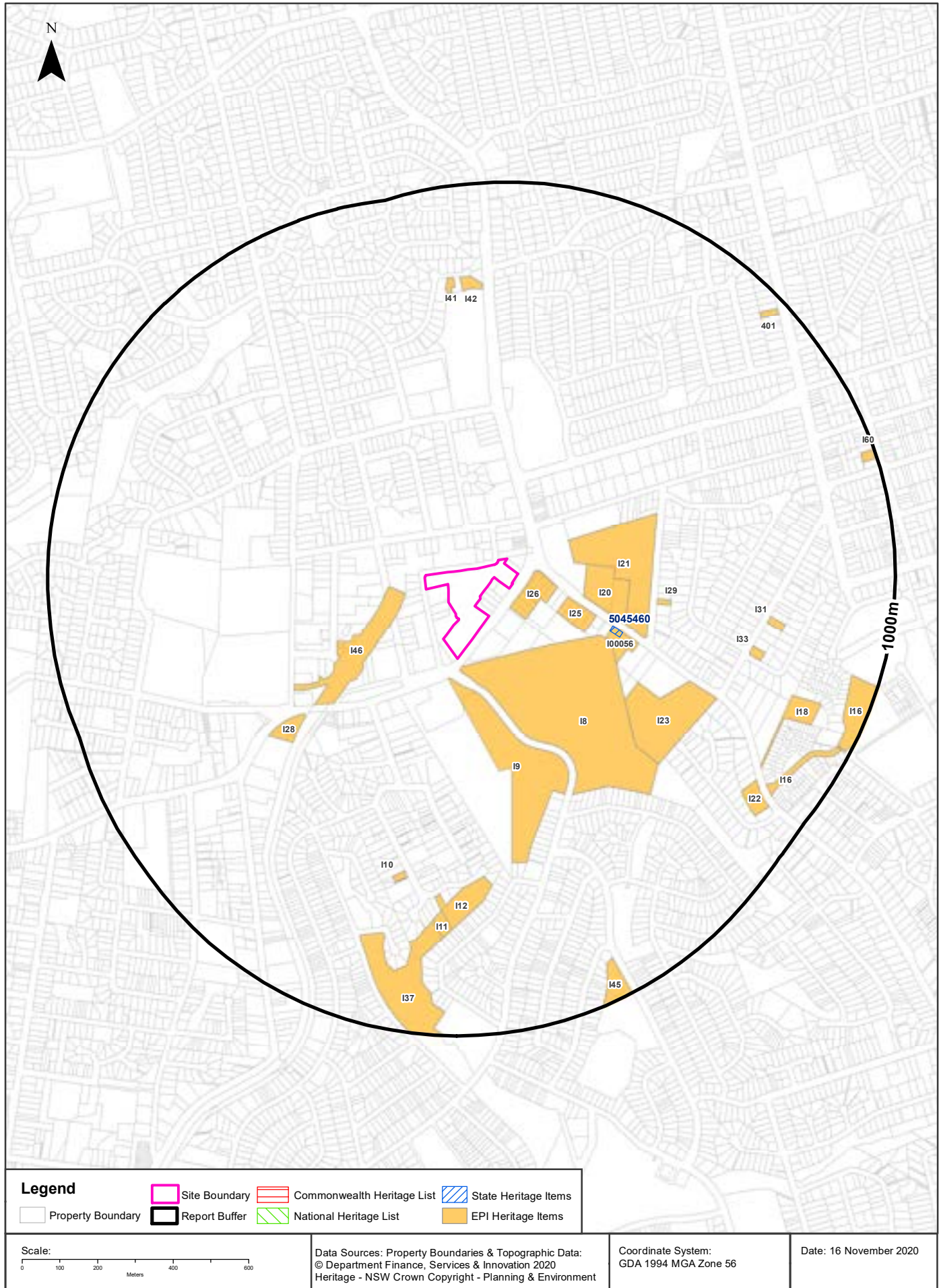
| Zone | Description | Purpose | EPI Name | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|------|----------------------------|-------------------------|---|----------------|----------------|---------------|---|----------|------------|
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 587m | South |
| E2 | Environmental Conservation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 588m | South |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 593m | South East |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 598m | South West |
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 601m | South |
| E2 | Environmental Conservation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 637m | South West |
| R3 | Medium Density Residential | | Parramatta Local Environmental Plan 2011 | 25/10/2019 | 25/10/2019 | 05/06/2020 | Amendment No 36 | 655m | South West |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 656m | South East |
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 658m | South East |
| E2 | Environmental Conservation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 672m | South |
| SP1 | Special Activities | Place of Public Worship | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 672m | South |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 677m | South East |
| E2 | Environmental Conservation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 710m | South |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 724m | South East |
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 745m | South East |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 746m | East |
| E2 | Environmental Conservation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 761m | South |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 761m | South East |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 767m | West |
| SP2 | Infrastructure | Cemetery | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 793m | East |
| E2 | Environmental Conservation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 803m | South |
| R3 | Medium Density Residential | | Parramatta Local Environmental Plan 2011 | 19/12/2018 | 19/12/2018 | 05/06/2020 | State Environmental Planning Policy Amendment (Telopea Precinct) 2018 | 804m | South |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 840m | North |
| R4 | High Density Residential | | Parramatta Local Environmental Plan 2011 | 19/12/2018 | 19/12/2018 | 05/06/2020 | State Environmental Planning Policy Amendment (Telopea Precinct) 2018 | 852m | South |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 868m | East |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 871m | North |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 883m | South West |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 891m | South |

| Zone | Description | Purpose | EPI Name | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|------|-------------------------|--|---|----------------|----------------|---------------|-----------------|----------|------------|
| SP2 | Infrastructure | Classified Road | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 892m | East |
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 892m | South West |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 893m | North West |
| SP2 | Infrastructure | Classified Road | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 897m | South West |
| SP1 | Special Activities | Educational Establishment & Place of Worship | Parramatta Local Environmental Plan 2011 | 20/06/2014 | 20/06/2014 | 05/06/2020 | Amendment No 8 | 899m | South |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 902m | South East |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 909m | North |
| W1 | Natural Waterways | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 911m | South East |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 917m | South East |
| RE1 | Public Recreation | | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 05/06/2020 | | 932m | South East |
| SP1 | Special Activities | Place of Public Worship | Parramatta Local Environmental Plan 2011 | 09/02/2018 | 09/02/2018 | 05/06/2020 | Amendment No 24 | 938m | North East |
| RE1 | Public Recreation | | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | Amendment No 60 | 958m | North West |
| R2 | Low Density Residential | | Parramatta Local Environmental Plan 2011 | 05/06/2020 | 05/06/2020 | 05/06/2020 | Amendment No 41 | 963m | South West |

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Heritage Items

277-281 Pennant Hills Road, Carlingford, NSW 2118



Heritage

277-281 Pennant Hills Road, Carlingford, NSW 2118

Commonwealth Heritage List

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

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

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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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 |
|---------|------------------------------------|------------------------------|------------|--------------|------------|---------|----------|-----------|
| 5045460 | St Paul's Anglican Church (former) | 346 Marsden Road Carlingford | Parramatta | 02/04/1999 | 00056 | 250 | 285m | East |

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Environmental Planning Instrument - Heritage

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

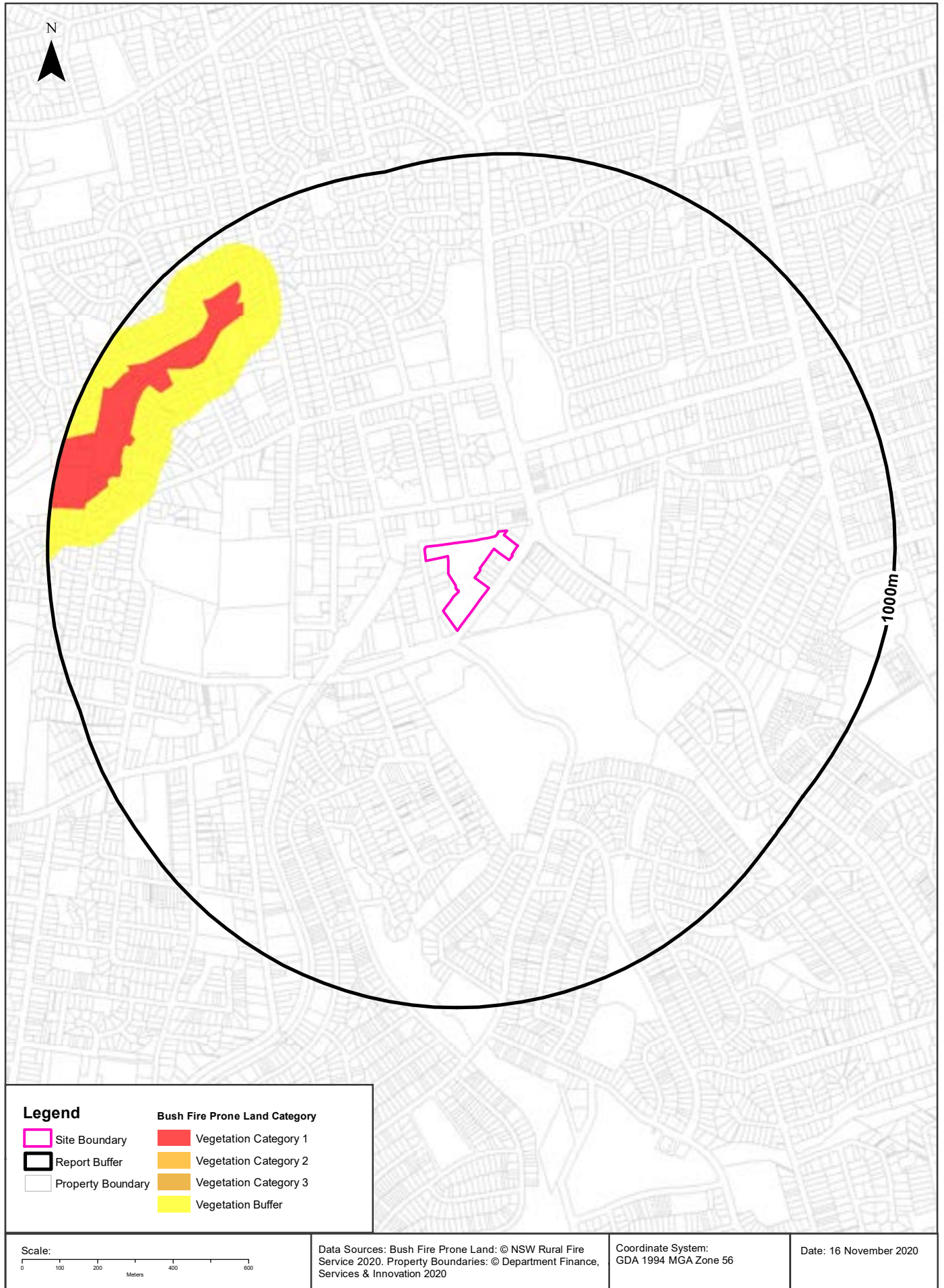
| Map Id | Name | Classification | Significance | EPI Name | Published Date | Commenced Date | Currency Date | Distance | Direction |
|--------|---------------------------|----------------|--------------|--|----------------|----------------|---------------|----------|------------|
| 18 | Galarangi Reserve | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 23m | South East |
| 126 | Carlingford Memorial Park | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 29m | East |
| 19 | Bushland | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 55m | South |

| Map Id | Name | Classification | Significance | EPI Name | Published Date | Commenced Date | Currency Date | Distance | Direction |
|--------|---|----------------|--------------|---|----------------|----------------|---------------|----------|------------|
| I46 | Carlingford Stock Feeds | Item - General | Local | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | 56m | South West |
| I25 | Eric Mobbs Memorial | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 137m | East |
| I21 | Carlingford Public School (and Macquarie Community College) | Item - General | Local | Parramatta Local Environmental Plan 2011 | 09/02/2018 | 09/02/2018 | 21/02/2020 | 150m | East |
| I20 | Water Tanks and Water Board cottage | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 177m | East |
| I00056 | Former St Paul's Anglican Church | Item - General | State | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 283m | East |
| I29 | Alandale | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 373m | East |
| I28 | K13 Memorial | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 418m | South West |
| I23 | Mobbs Hill Reserve | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 421m | South East |
| I10 | Stone fence post (adjacent to fence of No 62) | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 579m | South |
| I12 | Stone bridge Fitzgerald Forest | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 579m | South |
| I33 | La Mascotte | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 647m | East |
| I11 | Remnant bushland | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 667m | South |
| I31 | Timber house | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 670m | East |
| I37 | Rapanea Community Forest | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 694m | South |
| I41 | Havilah Stables | Item - General | Local | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | 720m | North |
| I42 | Havilah House | Item - General | Local | Parramatta (formerly The Hills) Local Environmental Plan 2012 | 06/12/2019 | 06/12/2019 | 06/12/2019 | 720m | North |
| I18 | St Paul's Church Cemetery | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 793m | East |
| I22 | Grandview | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 813m | South East |
| I16 | Dalmar Children's Home & treed accessway | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 854m | South East |
| I45 | Former quarry | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 891m | South |
| I16 | Dalmar Children's Home & treed accessway | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 923m | East |
| 401 | House | Item - General | Local | Hornsby Local Environmental Plan 2013 | 27/09/2013 | 11/10/2013 | 29/09/2017 | 926m | North East |
| I60 | Single storey residence | Item - General | Local | Parramatta Local Environmental Plan 2011 | 07/10/2011 | 07/10/2011 | 21/02/2020 | 961m | East |

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Natural Hazards - Bush Fire Prone Land

277-281 Pennant Hills Road, Carlingford, NSW 2118



Natural Hazards

277-281 Pennant Hills Road, Carlingford, NSW 2118

Bush Fire Prone Land

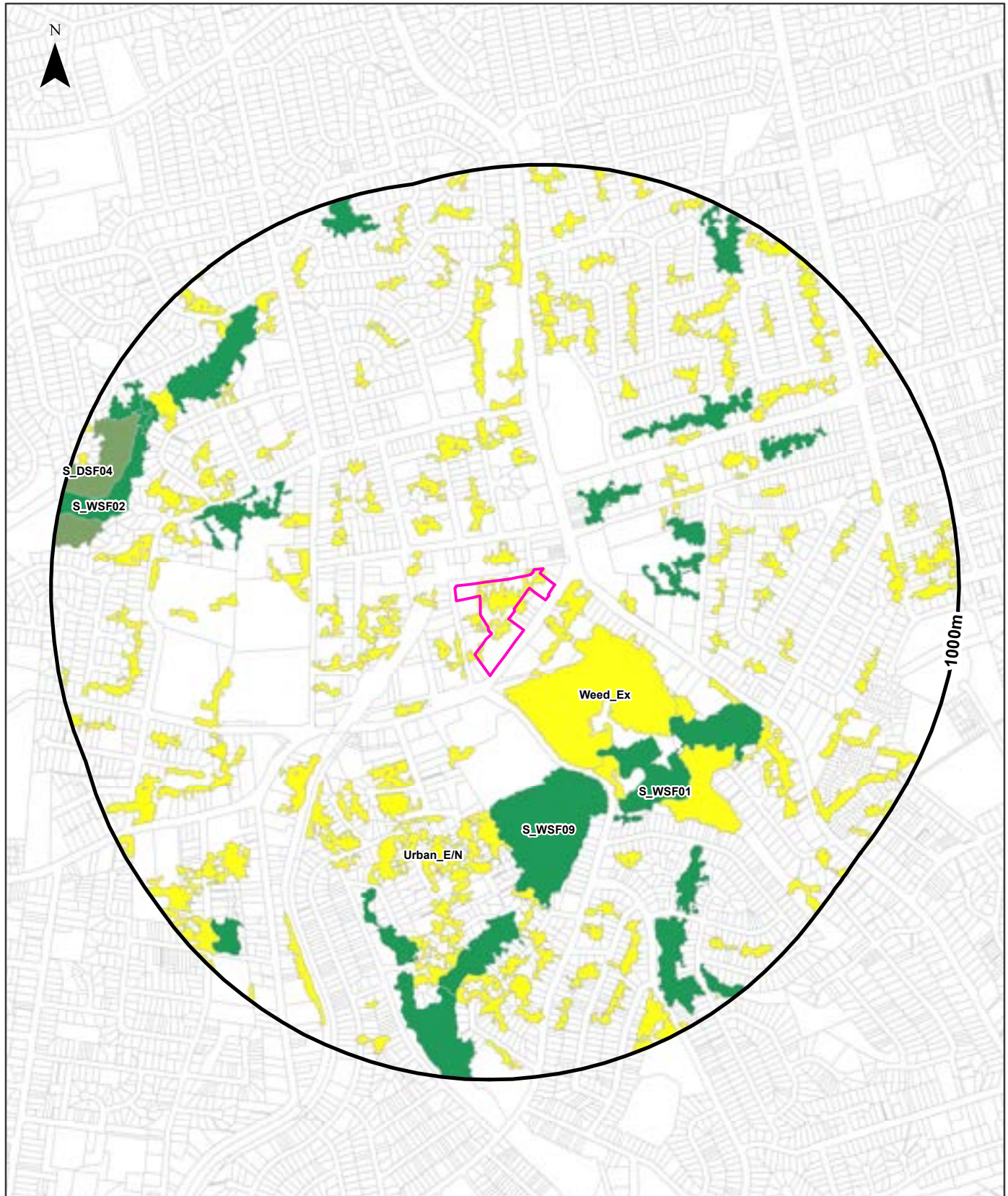
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

| Bush Fire Prone Land Category | Distance | Direction |
|-------------------------------|----------|-----------|
| Vegetation Buffer | 666m | West |
| Vegetation Category 1 | 766m | West |

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

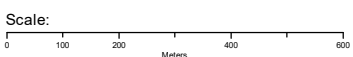
Ecological Constraints - Native Vegetation & RAMSAR Wetlands

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

| | | | | | |
|-------------------|-------------------------|-------------------|---------------------|---------------------|-----------------|
| Site Boundary | Rainforest | Forested Wetlands | Grasslands | Artificial Wetlands | RAMSAR Wetlands |
| Report Buffer | Wet Sclerophyll Forests | Grassy Woodlands | Freshwater Wetlands | Water | |
| Property Boundary | Dry Sclerophyll Forests | Heathlands | Saline Wetlands | Other | |



Property Boundary Data Source:
© Department Finance, Services & Innovation 2020

Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

Ecological Constraints

277-281 Pennant Hills Road, Carlingford, NSW 2118

Native Vegetation

What native vegetation exists within the dataset buffer?

| Map ID | Map Unit Name | Threatened Ecological Community NSW | Threatened Ecological Community EPBC Act | Understorey | Disturbance | Disturbance Index | Dominant Species | Dist | Direction |
|-----------|--|-------------------------------------|--|------------------------------|-----------------------------|-------------------|--|------|------------|
| Urban_E/N | Urban_E/N: Urban Exotic/Native | | | 00: Not assessed | 00: Not assessed | 0: Not assessed | Urban Exotic/Native | 0m | Onsite |
| Weed_Ex | Weed_Ex: Weeds and Exotics | | | 20: Weeds and exotics | 20: Previously cleared 1943 | 3: High | Exotic Species >90%cover | 49m | South East |
| S_WSF01 | S_WSF01: Blue Gum High Forest | Blue Gum High Forest | Blue Gum High Forest (possible) | 24: Urban and hard surface | 24: Urban mixed use | 4: Very high | E.salignaE.pilularis/S.glomullifera/E.paniculata/A.costata | 152m | North East |
| S_WSF09 | S_WSF09: Sydney Turpentine-Ironbark Forest | Sydney Turpentine Ironbark Forest | Turpentine Ironbark Forest (possible) | 11: Semi sheltered dry/mesic | 13: Weeds | 2: Moderate | S.glomullifera/E.paniculata/E.resinifera | 278m | South |
| S_WSF02 | S_WSF02: Coastal Enriched Sandstone Moist Forest | | | 10: Mesic/rainforest | 13: Weeds | 2: Moderate | E.pilularis/A.costata/C.gummifera E.resinifera | 819m | West |
| S_DSF04 | S_DSF04: Coastal Enriched Sandstone Dry Forest | | | 12: Dry xeric shrubs | 11: Roads/trails | 1: Low | E.pilularis/S.glomulliferaA.costata/E.resinifera | 864m | West |

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage
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Ramsar Wetlands

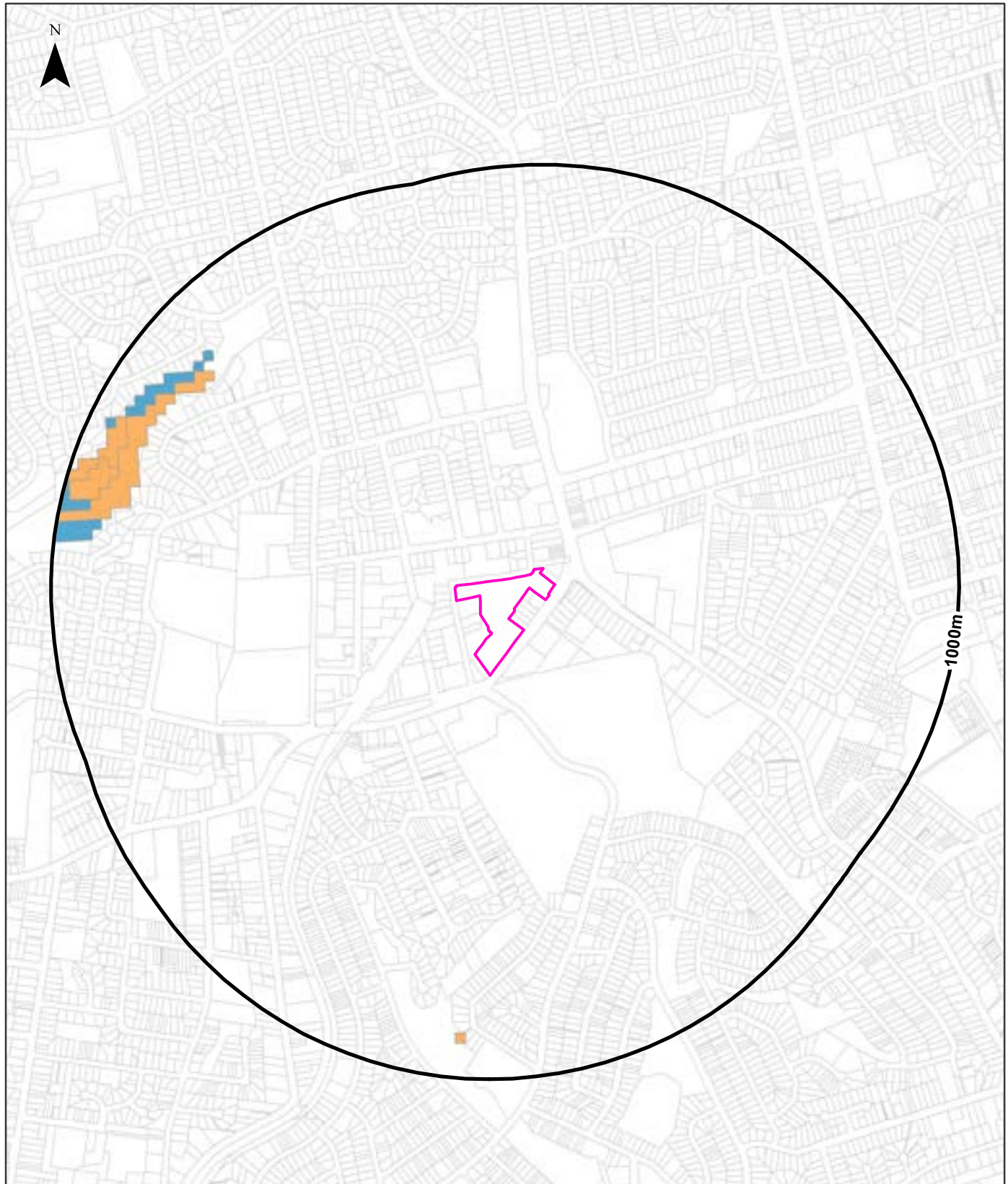
What Ramsar Wetland areas exist within the dataset buffer?

| 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 Environment

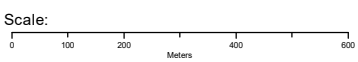
Ecological Constraints - Groundwater Dependent Ecosystems Atlas

277-281 Pennant Hills Road, Carlingford, NSW 2118



Legend

| | | |
|---------------------|---|---|
| Site Boundary | High potential GDE - from national assessment | Low potential GDE - from national assessment |
| Report Buffer | High potential GDE - from regional studies | Low potential GDE - from regional studies |
| Property Boundaries | Moderate potential GDE - from national assessment | Known GDE - from regional studies |
| | Moderate potential GDE - from regional studies | Unclassified potential GDE - from national assessment |
| | | Unclassified potential GDE - from regional studies |



Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2020

Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 November 2020

Ecological Constraints

277-281 Pennant Hills Road, Carlingford, NSW 2118

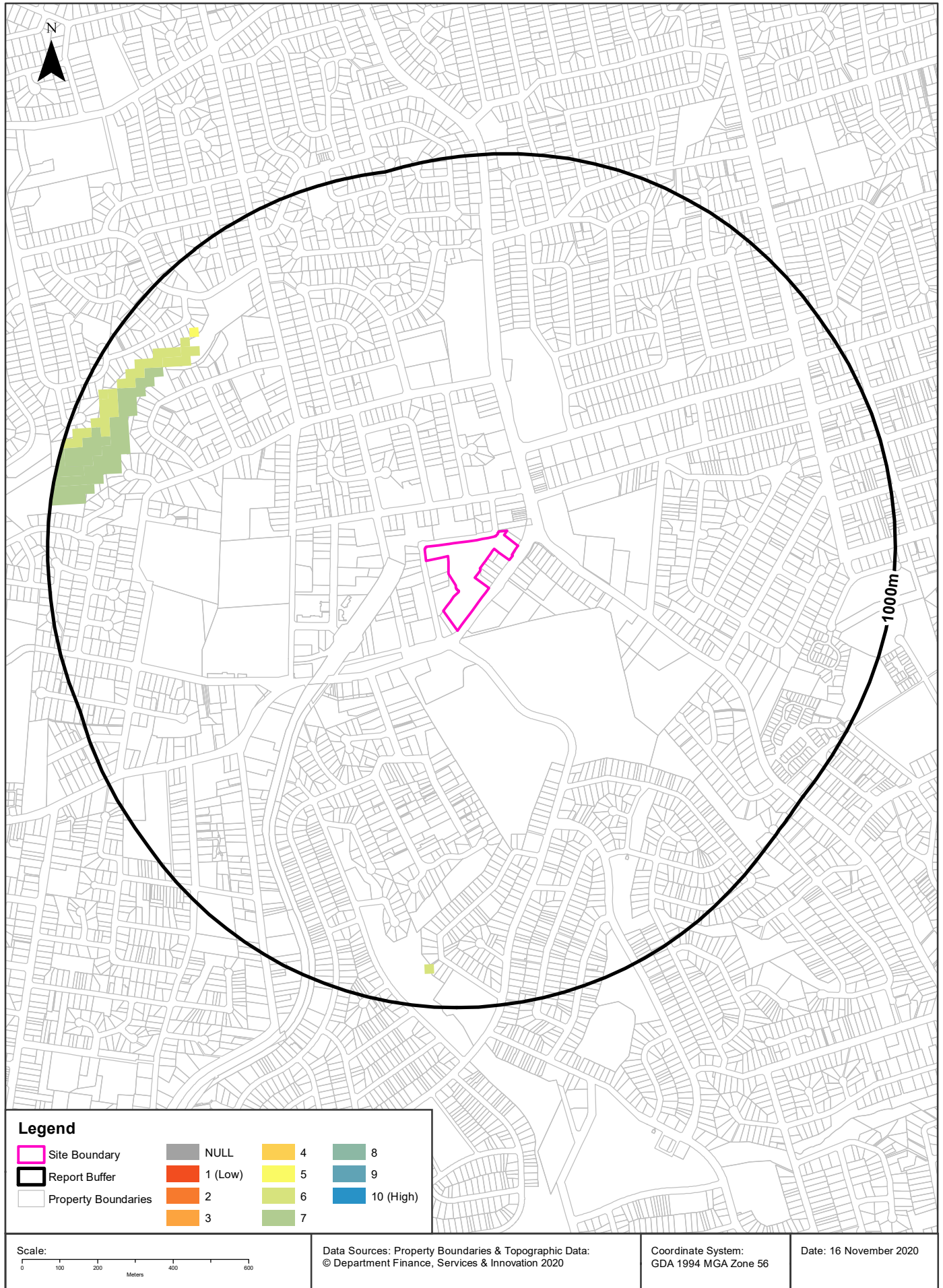
Groundwater Dependent Ecosystems Atlas

| Type | GDE Potential | Geomorphology | Ecosystem Type | Aquifer Geology | Distance |
|-------------|---|--------------------------------------|----------------|--------------------------|----------|
| Terrestrial | Moderate potential GDE - from national assessment | Deeply dissected sandstone plateaus. | Vegetation | Consolidated sedimentary | 785m |
| Terrestrial | Low potential GDE - from national assessment | Deeply dissected sandstone plateaus. | Vegetation | Consolidated sedimentary | 820m |

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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Ecological Constraints - Inflow Dependent Ecosystems Likelihood

277-281 Pennant Hills Road, Carlingford, NSW 2118



Ecological Constraints

277-281 Pennant Hills Road, Carlingford, NSW 2118

Inflow Dependent Ecosystems Likelihood

| Type | IDE Likelihood | Geomorphology | Ecosystem Type | Aquifer Geology | Distance |
|-------------|----------------|--------------------------------------|----------------|--------------------------|----------|
| Terrestrial | 6 | Deeply dissected sandstone plateaus. | Vegetation | Consolidated sedimentary | 785m |
| Terrestrial | 5 | Deeply dissected sandstone plateaus. | Vegetation | Consolidated sedimentary | 820m |
| Terrestrial | 7 | Deeply dissected sandstone plateaus. | Vegetation | Consolidated sedimentary | 820m |

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

277-281 Pennant Hills Road, Carlingford, NSW 2118

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 | Heleioporus australiacus | Giant Burrowing Frog | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Amphibia | Litoria aurea | Green and Golden Bell Frog | Endangered | Not Sensitive | Vulnerable | |
| Animalia | Amphibia | Pseudophryne australis | Red-crowned Toadlet | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Actitis hypoleucos | Common Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Anthochaera phrygia | Regent Honeyeater | Critically Endangered | Not Sensitive | Critically Endangered | |
| Animalia | Aves | Apus pacificus | Fork-tailed Swift | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Ardenna carneipes | Flesh-footed Shearwater | Vulnerable | Not Sensitive | Not Listed | ROKAMBA;JAMBA |
| Animalia | Aves | Ardenna tenuirostris | Short-tailed Shearwater | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Arenaria interpres | Ruddy Turnstone | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Artamus cyanopterus cyanopterus | Dusky Woodswallow | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Botaurus poiciloptilus | Australasian Bittern | Endangered | Not Sensitive | Endangered | |
| Animalia | Aves | Calidris acuminata | Sharp-tailed Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Calidris canutus | Red Knot | Not Listed | Not Sensitive | Endangered | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Calidris ferruginea | Curlew Sandpiper | Endangered | Not Sensitive | Critically Endangered | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Calidris melanotos | Pectoral Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA;JAMBA |
| Animalia | Aves | Calidris ruficollis | Red-necked Stint | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Calidris tenuirostris | Great Knot | Vulnerable | Not Sensitive | Critically Endangered | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Callocephalon fimbriatum | Gang-gang Cockatoo | Endangered Population, Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | Callocephalon fimbriatum | Gang-gang Cockatoo | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | Calyptorhynchus banksii samueli | Red-tailed Black-Cockatoo (inland subspecies) | Vulnerable | Category 2 | Not Listed | |
| Animalia | Aves | Calyptorhynchus lathami | Glossy Black-Cockatoo | Vulnerable | Category 2 | Not Listed | |
| Animalia | Aves | Carterornis leucotis | White-eared Monarch | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Charadrius leschenaultii | Greater Sand-plover | Vulnerable | Not Sensitive | Vulnerable | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Chlidonias leucopterus | White-winged Black Tern | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Circus assimilis | Spotted Harrier | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Cuculus optatus | Oriental Cuckoo | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|-------|----------------------------|---------------------------|-----------------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Aves | Daphoenositta chrysoptera | Varied Sittella | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Ephippiorhynchus asiaticus | Black-necked Stork | Endangered | Not Sensitive | Not Listed | |
| Animalia | Aves | Epthianura albifrons | White-fronted Chat | Endangered Population, Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Falco hypoleucos | Grey Falcon | Endangered | Category 2 | Not Listed | |
| 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 | 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 | Category 3 | 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 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 | 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 | Nettapus coromandelianus | Cotton Pygmy-Goose | Endangered | Not Sensitive | Not Listed | |
| Animalia | Aves | Ninox connivens | Barking Owl | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | Ninox strenua | Powerful Owl | Vulnerable | Category 3 | Not Listed | |
| 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 | 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 | Petroica rodinogaster | Pink Robin | Vulnerable | Not Sensitive | Not Listed | |
| 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 |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|------------|---|--|-------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Aves | <i>Polytelis swainsonii</i> | Superb Parrot | Vulnerable | Category 3 | Vulnerable | |
| Animalia | Aves | <i>Pomatostomus temporalis temporalis</i> | Grey-crowned Babbler (eastern subspecies) | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Ptilinopus superbus</i> | Superb Fruit-Dove | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Rhipidura fuliginosa</i> | New Zealand Fantail (Lord Howe Is. subsp.) | Presumed Extinct | Not Sensitive | Extinct | |
| Animalia | Aves | <i>Rostratula australis</i> | Australian Painted Snipe | Endangered | Not Sensitive | Endangered | |
| Animalia | Aves | <i>Sterna hirundo</i> | Common Tern | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | <i>Sternula albibrons</i> | Little Tern | Endangered | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | <i>Stictonetta naevosa</i> | Freckled Duck | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Thalasseus bergii</i> | Crested Tern | Not Listed | Not Sensitive | Not Listed | JAMBA |
| Animalia | Aves | <i>Tringa brevipes</i> | Grey-tailed Tattler | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | <i>Tringa glareola</i> | Wood Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| 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 longimembris</i> | Eastern Grass Owl | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Tyto novaehollandiae</i> | Masked Owl | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Tyto tenebricosa</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 | Gastropoda | <i>Meridolum corneovirens</i> | Cumberland Plain Land Snail | Endangered | Not Sensitive | Not Listed | |
| Animalia | Gastropoda | <i>Pommerhelix duralensis</i> | Dural Land Snail | Endangered | Not Sensitive | Endangered | |
| Animalia | Mammalia | <i>Arctocephalus forsteri</i> | New Zealand 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>Falsistrellus tasmaniensis</i> | Eastern False Pipistrelle | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Macrotis lagotis</i> | Bilby | Presumed 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>Perameles bougainville fasciata</i> | Western Barred Bandicoot (mainland) | Presumed Extinct | Not Sensitive | Extinct | |
| Animalia | Mammalia | <i>Petauroides volans</i> | Greater Glider | Not Listed | Not Sensitive | Vulnerable | |
| Animalia | Mammalia | <i>Petaurus australis</i> | Yellow-bellied Glider | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Petaurus norfolcensis</i> | Squirrel Glider | Vulnerable | Not Sensitive | Not Listed | |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|----------|--|--------------------------------|-----------------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Mammalia | Phascolarctos cinereus | Koala | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Mammalia | Pseudomys australis | Plains Rat | Presumed Extinct | Not Sensitive | Vulnerable | |
| Animalia | Mammalia | Pteropus poliocephalus | Grey-headed Flying-fox | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Mammalia | Saccolaimus flaviventris | Yellow-bellied Sheath-tail-bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Scoteanax rueppellii | Greater Broad-nosed Bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Reptilia | Aspidites ramsayi | Woma | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Reptilia | Caretta caretta | Loggerhead Turtle | Endangered | Not Sensitive | Endangered | |
| Animalia | Reptilia | Chelonia mydas | Green Turtle | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Reptilia | Pseudonaja modesta | Ringed Brown Snake | Endangered | Not Sensitive | Not Listed | |
| Animalia | Reptilia | Tiliqua occipitalis | Western Blue-tongued Lizard | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Reptilia | Uvidicolus sphyrurus | Border Thick-tailed Gecko | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Acacia bynoeana | Bynoe's Wattle | Endangered | Not Sensitive | Vulnerable | |
| Plantae | Flora | Acacia clunies-rossiae | Kanangra Wattle | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Acacia pubescens | Downy Wattle | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Argyrotegium nitidulum | Shining Cudweed | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Callistemon linearifolius | Netted Bottle Brush | Vulnerable | Category 3 | Not Listed | |
| Plantae | Flora | Darwinia biflora | | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Darwinia peduncularis | | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Dillwynia tenuifolia | | Endangered Population, Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Dillwynia tenuifolia | | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Epacris purpurascens var. purpurascens | | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Eucalyptus camfieldii | Camfield's Stringybark | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Eucalyptus leucoxylon subsp. pruinosa | Yellow Gum | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Eucalyptus nicholii | Narrow-leaved Black Peppermint | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Eucalyptus scoparia | Wallangarra White Gum | Endangered | Not Sensitive | Vulnerable | |
| Plantae | Flora | Galium australe | Tangled Bedstraw | Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | Genoplesium baueri | Bauer's Midge Orchid | Endangered | Category 2 | Endangered | |
| Plantae | Flora | Genoplesium plumosum | Tallong Midge Orchid | Critically Endangered | Category 2 | Endangered | |
| Plantae | Flora | Grammitis stenophylla | Narrow-leaf Finger Fern | Endangered | Category 3 | Not Listed | |
| Plantae | Flora | Grevillea beadleana | Beadle's Grevillea | Endangered | Category 3 | Endangered | |
| Plantae | Flora | Grevillea caleyi | Caley's Grevillea | Critically Endangered | Category 3 | Critically Endangered | |
| Plantae | Flora | Grevillea hilliana | White Yiel Yiel | Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | Haloragodendron lucasii | | Endangered | Not Sensitive | Endangered | |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|---------|-------|--|---------------------------------------|-------------------------|-----------------------|-----------------------------|------------------------------|
| Plantae | Flora | Hibbertia spanantha | Julian's Hibbertia | Critically Endangered | Category 2 | Critically Endangered | |
| Plantae | Flora | Hibbertia superans | | Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | Isotoma fluviatilis subsp. fluviatilis | | Not Listed | Not Sensitive | Extinct | |
| Plantae | Flora | Lasiopetalum joyceae | | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Leptospermum deanei | | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Macadamia integrifolia | Macadamia Nut | Not Listed | Not Sensitive | Vulnerable | |
| Plantae | Flora | Macadamia tetraphylla | Rough-shelled Bush Nut | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Melaleuca biconvexa | Biconvex Paperbark | Vulnerable | Not Sensitive | Vulnerable | |
| 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 | Pimelea spicata | Spiked Rice-flower | Endangered | Not Sensitive | Endangered | |
| 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 | Pterostylis gibbosa | Illawarra Greenhood | Endangered | Category 2 | Endangered | |
| Plantae | Flora | Pterostylis nigricans | Dark Greenhood | Vulnerable | Category 2 | Not Listed | |
| Plantae | Flora | Pterostylis saxicola | Sydney Plains Greenhood | Endangered | Category 2 | Endangered | |
| Plantae | Flora | Rhizanthella slateri | Eastern Australian Underground Orchid | Vulnerable | Category 2 | Endangered | |
| Plantae | Flora | Rhodamnia rubescens | Scrub Turpentine | Critically Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | Senecio behrianus | | Presumed Extinct | Not Sensitive | Endangered | |
| Plantae | Flora | Syzygium paniculatum | Magenta Lilly Pilly | Endangered | Not Sensitive | Vulnerable | |
| Plantae | Flora | Tetratheca glandulosa | | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Tetratheca juncea | Black-eyed Susan | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Triplarina imbricata | Creek Triplarina | 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.

NSW BioNet: © State of NSW and Office of Environment and Heritage

Location Confidences

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

| LC Code | Location Confidence |
|--------------------------------|---|
| Premise match | Georeferenced to the site location / premise or part of site |
| General area or suburb match | Georeferenced with the confidence of the general/approximate area |
| Road match | Georeferenced to the road or rail |
| Road intersection | Georeferenced to the road intersection |
| Feature is a buffered point | Feature is a buffered point |
| Land adjacent to geocoded site | Land adjacent to Georeferenced Site |
| Network of features | Georeferenced to a network of features |

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APPENDIX 2



DOC20/905500

Mr Elie Maroun
74 Macquarie St
Parramatta NSW 2150
Email: elie.maroun@dyldam.com.au

4 November 2020

Dear Mr Maroun

Notice of Clean-Up Action No. 1574115

We refer to the Notice of Clean-Up Action No. 1574115 (**the Clean-Up Notice**) and subsequent variations issued by the Environment Protection Authority (**EPA**) in relation to the unlawful disposal of waste materials, including asbestos waste, to land at 2-10 Janell Crescent, 14-30 Shirley Street and 247-261 and 277-281 Pennant Hills Road, Carlingford NSW 2118 being Lot 1 DP 1219291 (**the Premises**).

We acknowledge the report provided to the EPA on 2 October 2020 confirming that the asbestos waste required to be removed from the Premises was disposed of at a lawful facility.

Based on observations made during EPA inspections and information/ reports provided to the EPA, we are satisfied that the Clean-Up Notice has been complied with. As such, on 30 October 2020 the EPA requested that the Notification of the Clean-Up Notice and its variations be removed from the Land Title.

If you have any questions regarding this matter, please contact Nadine Constantinou on (02) 9995 5654.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Jacinta Hanemann', written over a light blue circular stamp.

JACINTA HANEMANN
Manager Metro South Operations
Regulatory Operations Metro

Phone 131 555
Phone +61 2 9995 5555
(from outside NSW)

TTY 133 677
ABN 43 692 285 758

Locked Bag 5022
Parramatta
NSW 2124 Australia

4 Parramatta Square
12 Darcy St, Parramatta
NSW 2150 Australia

info@epa.nsw.gov.au
www.epa.nsw.gov.au

Clean-Up Notice



GOLDEN CARLINGFORD PTY LTD & PENNANT HILLS ESTATES 88 PTY LTD & RAINBOW
CARLINGFORD ONE PTY LTD

ABN 62 928 965 560

59 Consitution Road

CONSTITUTION HILL NSW 2145

Attention: The Proper Officer

Notice Number 1574115
File Number SF18/108277
Date 04-Feb-2019

Clean-up Notice

Why is the EPA writing to you?

The Environment Protection Authority (EPA) reasonably suspects that a pollution incident has occurred or is occurring on land that forms part of 277-281 Pennant Hills Road, CARLINGFORD, NSW, 2118 being Lot 1 DP 1219291 (the Premises). The EPA has issued you with this Clean-up Notice. Further information is set out in the notice below.

What are you required to do?

Please read this notice carefully and carry out the clean-up action specified in this notice by the date required. If you have any queries about this matter, please contact Trevor Wilson on 9995 5646.

BACKGROUND

- A. The EPA has responsibility for the administration and enforcement of the *Protection of the Environment Operations Act 1997 (Act)*.

- B. GOLDEN CARLINGFORD PTY LTD & PENNANT HILLS ESTATES 88 PTY LTD & RAINBOW CARLINGFORD ONE PTY LTD is the owner of the Premises for the purposes of s 91(1)(a) of the Act.

Clean-Up Notice



- C. The EPA is the appropriate regulatory authority (ARA) for activities that require an Environment Protection Licence (Licence) under section 48(1) of the POEO Act. Clause 39 of Schedule 1 of the POEO Act provides that the application to land of more than 200 tonnes building and demolition waste within the regulated area received from off site is a scheduled activity requiring a Licence.

- D. On 15 May 2018 the EPA reviewed aerial photography as part of an investigation into alleged illegal waste disposal which included the Premises. EPA officers observed what appeared to be material placed on the land and reasonable suspected that a pollution incident had occurred or was occurring at the Premises being land pollution.

- E. On 18 December 2018 EPA officers went to the Premises and observed materials that appeared to be waste applied to the land potentially causing land pollution.

- F. The EPA officers then inspected the Premises and observed a large area containing many stockpiles of material on the Premises (see area outlined in green on map 1 below). The stockpiles appeared to contain building and demolition residues such as: crushed bricks, tile, concrete, terracotta tile, glazed tile, plastic, glass, metal and fibro pieces suspect to be asbestos (see Map 1 attached to this notice). Nine fibro fragments were collected and submitted for analysis. On 20 December 2018 Laboratory analysis confirmed that 8 fibro pieces were asbestos.

- G. Section 91 of the Act enables the EPA to issue a Clean-up Notice in respect of a pollution incident.

- H. “Asbestos Waste” is defined in Schedule 1 Clause 50 of the POEO Act to mean any waste that contains asbestos for the purposes of Schedule 1 to the Act.

- I. The Dictionary to the Act defines:
 - a. “Pollution incident” as an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise.
 - b. “Pollution” as including land pollution.
 - c. The POEO Act defines land pollution to mean:

placing in or on, or otherwise introducing into or onto, the land (whether through an act or omission) any matter, whether solid, liquid or gaseous:

 - (a) that causes or is likely to cause degradation of the land, resulting in actual or potential harm to the health or safety of human beings, animals or other terrestrial life or ecosystems, or actual or potential loss or property damage, that is not trivial, or*
 - (b) that is of a prescribed nature, description or class or that does not comply with any standard prescribed in respect of that matter, but does not include placing in or on, or*

Clean-Up Notice



otherwise introducing into or onto, land any substance excluded from this definition by the regulations.

d. Clause 109 of the *Protection of the Environment Operations (General) Regulation 2009* provides that the following matters are prescribed for the purposes of land pollution:

- (a) hazardous waste,*
- (b) restricted solid waste,*
- (c) more than 10 tonnes of asbestos waste,*
- (d) more than 5 tonnes of waste tyres or more than 500 waste tyres.*

J. The EPA reasonably suspects that a pollution incident is occurring or is likely to occur at the Premises, namely:

- a. More than 10 tonnes of asbestos waste has been deposited on the Premises which is prescribed as land pollution (i.e. definition of pollution incident), that has caused degradation of the land and potential harm to human health and
- b. More than 200 tonnes of waste has been deposited on the Premises that has caused degradation of the land and potential harm to human health.

H. The EPA is directing you to take clean-up action because you are the owner of the Premises.

I. The Draft Clean-Up Notice was sent to GOLDEN CARLINGFORD PTY LTD & PENNANT HILLS ESTATES 88 PTY LTD & RAINBOW CARLINGFORD ONE PTY LTD for comment on 3 January 2019.

J. On 16 January 2019, Onder Ulusoy from Dyldam contacted the EPA requesting an extension to the due date from 28 February 2019 to 29 March 2019.

DIRECTION TO TAKE CLEAN-UP ACTION

1. The EPA directs GOLDEN CARLINGFORD PTY LTD & PENNANT HILLS ESTATES 88 PTY LTD & RAINBOW CARLINGFORD ONE PTY LTD to take the following clean-up action:
 - a. Immediately secure and continue to secure the Premises to prevent unauthorised access.
 - b. Immediately cease and continue to cease the receipt of any waste.
 - c. Immediately cease and continue to cease causing the receipt of any waste.
 - d. Immediately cease and continue to cease causing land application of waste.
 - e. If signage is provided by the EPA, erect the sign at the front of the Premises where it is in an easily visible position from the public road.

Clean-Up Notice



- f. If signage is provided by the EPA, maintain the sign in good order to ensure it remains visible and legible from public road.
- g. If signage is provided by the EPA, you must ensure that you, your employees, subcontractors or agents do not remove the signage without prior written approval from the EPA.
- h. By no later than 5pm on 29 March 2019 remove the stockpiled waste material located in the area outlined in green on Map 1 attached to this notice. All asbestos contaminated material must be removed and disposed of at a landfill which can lawfully accept that waste, pursuant to clause 80 of the *Protection of the Environment Operations (Waste) Regulation 2014*. Ensure the asbestos waste is transported by a registered user of Waste Locate.
- i. By no later than 5pm on 29 March 2019 supply copies of the waste disposal docket and Waste Locate Consignment Number used for the transport of the Waste to Greg Sheehy, Director Waste Compliance, EPA, PO Box A290 SYDNEY SOUTH NSW 1232 or by email to waste.operations@epa.nsw.gov.au
- j. All of the actions set out in paragraphs 1a to 1g above are obligations that continue until you receive written advice from the EPA that the paragraph has been complied with.

FEE TO BE PAID

- You are required by law to pay a fee of \$550 for the administrative costs of issuing this notice. An invoice for the fee has been attached to this notice.
- It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

A handwritten signature in black ink, appearing to read 'Trevor Wilson'.

.....
Trevor Wilson

Unit Head

Unit Head

(by Delegation)

WARNINGS AND INFORMATION ABOUT THIS CLEAN-UP NOTICE

- This notice is issued under section 91 of the Act.

Clean-Up Notice



- It is an offence against the Act not to comply with a clean-up notice unless you have a reasonable excuse.
- Details provided in this notice will be available on the Public Register in accordance with section 308 of the Act

Penalty for not complying with this notice

- The maximum penalty that a court may impose for a corporation is \$1,000,000 and a further \$120,000 for each day the offence continues. The maximum penalty that a court may impose for an individual is \$250,000 and a further \$60,000 for each day the offence continues.

When this notice begins to operate

- This notice operates from the day the notice is given, unless a later date is specified in the notice.

Continuing obligation

- Under section 319A of the Act, your obligation to comply with the requirements of this notice continues until the notice is complied with in full, even if the due date for compliance has passed.

Cost recovery from the person who caused the incident

- If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Deadline for paying the fee

- The fee must be paid by **no later than 30 days after the date of this notice**, unless the EPA extends the time to pay the fee, or waives the fee.

How to pay the fee

- Possible methods of payment are listed on the last page of the attached invoice/statement.
- Please include the payment slip from the attached invoice/statement with your payment.

How to apply for an extension of time to pay/waive the fee

- Any application for an extension of time to pay the fee or for the fee to be waived must be made in writing to the EPA. The application should set out clearly why you think your application should be granted.

Clean-Up Notice



Other costs

- The Act allows the EPA to recover from you reasonable costs and expenses it incurs in monitoring action taken under this notice, ensuring the notice is complied with and associated matters.
- If you are required to pay these other costs and expenses you will later be sent a separate notice called a “Notice Requiring Payment of Reasonable Costs and Expenses”.

Variation of this notice

- The requirements of this notice may only be varied or revoked by written notice issued by the EPA.

Clean-Up Notice



Map 1: suspected asbestos material sampling locations at the Premises on 18 December 2018



APPENDIX 3

Environmental Consulting Services
10 Fort Street
Petersham
NSW 2049



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Simon Caples**

Report **756354-S**
Project name **CARLINGFORD**
Received Date **Nov 12, 2020**

| Client Sample ID | | | A1 | A2 | A3 | A4 |
|---|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S20-No19992 | S20-No19993 | S20-No19994 | S20-No19995 |
| Date Sampled | | | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 84 | 104 | 93 | 93 |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

| Client Sample ID | | | A1 | A2 | A3 | A4 |
|---|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S20-No19992 | S20-No19993 | S20-No19994 | S20-No19995 |
| Date Sampled | | | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 117 | 96 | 102 | 99 |
| p-Terphenyl-d14 (surr.) | 1 | % | 116 | 103 | 108 | 103 |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Toxaphene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dibutylchloroendate (surr.) | 1 | % | 96 | 110 | 113 | 113 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 93 | 83 | 87 | 84 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 13 | 9.5 | 8.8 | 5.9 |
| Cadmium | 0.4 | mg/kg | < 0.4 | 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 39 | 32 | 22 | 17 |
| Copper | 5 | mg/kg | 17 | 44 | 10 | 13 |
| Lead | 5 | mg/kg | 22 | 75 | 31 | 20 |
| Mercury | 0.1 | mg/kg | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 9.8 | 9.4 | < 5 | < 5 |
| Zinc | 5 | mg/kg | 25 | 100 | 12 | 18 |
| % Moisture | 1 | % | 20 | 19 | 15 | 13 |

| Client Sample ID | | | A5 | A6 | A7 | A8 |
|---|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S20-No19996 | S20-No19997 | S20-No19998 | S20-No19999 |
| Date Sampled | | | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | 56 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | 56 | < 50 | < 50 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 93 | 78 | 108 | 107 |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | 0.7 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 1.0 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.3 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | 0.7 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | 0.6 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | 0.6 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | 0.6 | < 0.5 | < 0.5 |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | 1.6 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1,2,3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | 1.3 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | 1.6 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | 7 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 94 | 84 | 98 | 85 |
| p-Terphenyl-d14 (surr.) | 1 | % | 100 | 71 | 91 | 79 |

| Client Sample ID | | | A5 | A6 | A7 | A8 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S20-No19996 | S20-No19997 | S20-No19998 | S20-No19999 |
| Date Sampled | | | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | 0.06 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | 0.67 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Toxaphene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | 0.73 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.2 | 0.73 | < 0.2 | < 0.2 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dibutylchloroendate (surr.) | 1 | % | 97 | 61 | 95 | 76 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 82 | 74 | 85 | 74 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 17 | 4.7 | 11 | 11 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 22 | 15 | 43 | 16 |
| Copper | 5 | mg/kg | 27 | 16 | 27 | 30 |
| Lead | 5 | mg/kg | 65 | 100 | 81 | 35 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 9.3 | 7.5 | 14 | 15 |
| Zinc | 5 | mg/kg | 130 | 93 | 180 | 83 |
| % Moisture | 1 | % | 10 | 14 | 17 | 13 |

| Client Sample ID | | | A9 Soil S20-No20000 Nov 12, 2020 | D Soil S20-No20001 Nov 12, 2020 | SP Soil S20-No20002 Nov 12, 2020 | AR Soil S20-No20003 Nov 12, 2020 |
|---|-----|-------|---|--|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | 70 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | 66 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | 136 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 108 | 113 | 122 | 87 |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | 120 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | 120 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1,2,3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 86 | 95 | 89 | 85 |
| p-Terphenyl-d14 (surr.) | 1 | % | 81 | 97 | 88 | 82 |

| Client Sample ID | | | A9 | D | SP | AR |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S20-No20000 | S20-No20001 | S20-No20002 | S20-No20003 |
| Date Sampled | | | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 | Nov 12, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Toxaphene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dibutylchlorodate (surr.) | 1 | % | 89 | 104 | 107 | 116 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 76 | 88 | 89 | 91 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 11 | 9.7 | 13 | 7.3 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 17 | 14 | 16 | 21 |
| Copper | 5 | mg/kg | 29 | 26 | 25 | 22 |
| Lead | 5 | mg/kg | 24 | 21 | 24 | 49 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 7.4 | 9.3 | < 5 | 11 |
| Zinc | 5 | mg/kg | 38 | 49 | 17 | 240 |
| % Moisture | 1 | % | 14 | 15 | 21 | 15 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Eurofins Suite B9 | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | Nov 12, 2020 | 14 Days |
| BTEX - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | Nov 12, 2020 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | Nov 12, 2020 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | Nov 12, 2020 | 14 Days |
| Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Sydney | Nov 12, 2020 | 14 Days |
| Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | Sydney | Nov 12, 2020 | 14 Days |
| Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Sydney | Nov 12, 2020 | 180 Days |
| % Moisture - Method: LTM-GEN-7080 Moisture | Sydney | Nov 12, 2020 | 14 Days |

Australia

Melbourne
6 Monterey Road
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

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New Zealand

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35 O'Rorke Road
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Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

| | | | | | |
|----------------------|---|-------------------|--------------|----------------------|-----------------------|
| Company Name: | Environmental Consulting Services | Order No.: | | Received: | Nov 12, 2020 12:50 PM |
| Address: | 10 Fort Street Petersham NSW 2049 | Report #: | 756354 | Due: | Nov 17, 2020 |
| Project Name: | CARLINGFORD | Phone: | 02 9518 1161 | Priority: | 3 Day |
| | | Fax: | | Contact Name: | Simon Caples |

Eurofins Analytical Services Manager : Alena Bounkeua

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos Absence /Presence | Moisture Set | Eurofins Suite B9 |
|--|-----------|--------------|---------------|--------|-------------|-------------------|----------------------------|--------------|-------------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | | | | |
| Sydney Laboratory - NATA Site # 18217 | | | | | | X | X | X | X |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | |
| Mayfield Laboratory | | | | | | | | | |
| External Laboratory | | | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | |
| 1 | A1 | Nov 12, 2020 | | Soil | S20-No19992 | X | | X | X |
| 2 | A2 | Nov 12, 2020 | | Soil | S20-No19993 | X | | X | X |
| 3 | A3 | Nov 12, 2020 | | Soil | S20-No19994 | X | | X | X |
| 4 | A4 | Nov 12, 2020 | | Soil | S20-No19995 | X | | X | X |
| 5 | A5 | Nov 12, 2020 | | Soil | S20-No19996 | X | | X | X |
| 6 | A6 | Nov 12, 2020 | | Soil | S20-No19997 | X | | X | X |
| 7 | A7 | Nov 12, 2020 | | Soil | S20-No19998 | X | | X | X |
| 8 | A8 | Nov 12, 2020 | | Soil | S20-No19999 | X | | X | X |
| 9 | A9 | Nov 12, 2020 | | Soil | S20-No20000 | X | | X | X |
| 10 | D | Nov 12, 2020 | | Soil | S20-No20001 | X | | X | X |

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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1/21 Smallwood Place
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

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IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

| | | | | | |
|--|---|-------------------|--------------|----------------------|-----------------------|
| Company Name: | Environmental Consulting Services | Order No.: | | Received: | Nov 12, 2020 12:50 PM |
| Address: | 10 Fort Street Petersham NSW 2049 | Report #: | 756354 | Due: | Nov 17, 2020 |
| Project Name: | CARLINGFORD | Phone: | 02 9518 1161 | Priority: | 3 Day |
| | | Fax: | | Contact Name: | Simon Caples |
| Eurofins Analytical Services Manager : Alena Bounkeua | | | | | |

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos Absence /Presence | Moisture Set | Eurofins Suite B9 |
|--|-----|--------------|--|--------------------|-------------|-------------------|----------------------------|--------------|-------------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | | | | |
| Sydney Laboratory - NATA Site # 18217 | | | | | | X | X | X | X |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | |
| Mayfield Laboratory | | | | | | | | | |
| External Laboratory | | | | | | | | | |
| 11 | SP | Nov 12, 2020 | | Soil | S20-No20002 | X | | X | X |
| 12 | AR | Nov 12, 2020 | | Soil | S20-No20003 | X | | X | X |
| 13 | A4B | Nov 12, 2020 | | Building Materials | S20-No20004 | | X | | |
| Test Counts | | | | | | 12 | 1 | 12 | 12 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | US Department of Defense Quality Systems Manual Version 5.3 |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|--|-------------------|-------------|-----------------|
| Method Blank | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | | |
| TRH C6-C9 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C10-C14 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C15-C28 | mg/kg | < 50 | | | 50 | Pass | |
| TRH C29-C36 | mg/kg | < 50 | | | 50 | Pass | |
| Method Blank | | | | | | | |
| BTEX | | | | | | | |
| Benzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Toluene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | | 0.2 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | | 0.3 | Pass | |
| Method Blank | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| TRH C6-C10 | mg/kg | < 20 | | | 20 | Pass | |
| TRH >C10-C16 | mg/kg | < 50 | | | 50 | Pass | |
| TRH >C16-C34 | mg/kg | < 100 | | | 100 | Pass | |
| TRH >C34-C40 | mg/kg | < 100 | | | 100 | Pass | |
| Method Blank | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g,h,i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a,h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Method Blank | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4,4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4,4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4,4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |

| Test | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|-------------------|-------------|-----------------|
| Endosulfan sulphate | mg/kg | < 0.05 | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | 0.05 | Pass | |
| g-BHC (Lindane) | mg/kg | < 0.05 | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.2 | | 0.2 | Pass | |
| Toxaphene | mg/kg | < 0.1 | | 0.1 | Pass | |
| Method Blank | | | | | | |
| Heavy Metals | | | | | | |
| Arsenic | mg/kg | < 2 | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | | 5 | Pass | |
| Copper | mg/kg | < 5 | | 5 | Pass | |
| Lead | mg/kg | < 5 | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | 5 | Pass | |
| LCS - % Recovery | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | |
| TRH C6-C9 | % | 97 | | 70-130 | Pass | |
| TRH C10-C14 | % | 75 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | |
| BTEX | | | | | | |
| Benzene | % | 98 | | 70-130 | Pass | |
| Toluene | % | 103 | | 70-130 | Pass | |
| Ethylbenzene | % | 108 | | 70-130 | Pass | |
| m&p-Xylenes | % | 108 | | 70-130 | Pass | |
| o-Xylene | % | 114 | | 70-130 | Pass | |
| Xylenes - Total* | % | 110 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | |
| Naphthalene | % | 130 | | 70-130 | Pass | |
| TRH C6-C10 | % | 95 | | 70-130 | Pass | |
| TRH >C10-C16 | % | 73 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Acenaphthene | % | 87 | | 70-130 | Pass | |
| Acenaphthylene | % | 81 | | 70-130 | Pass | |
| Anthracene | % | 93 | | 70-130 | Pass | |
| Benz(a)anthracene | % | 81 | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 73 | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 74 | | 70-130 | Pass | |
| Benzo(g,h,i)perylene | % | 92 | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 98 | | 70-130 | Pass | |
| Chrysene | % | 89 | | 70-130 | Pass | |
| Dibenz(a,h)anthracene | % | 78 | | 70-130 | Pass | |
| Fluoranthene | % | 81 | | 70-130 | Pass | |
| Fluorene | % | 85 | | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | % | 78 | | 70-130 | Pass | |
| Naphthalene | % | 84 | | 70-130 | Pass | |
| Phenanthrene | % | 86 | | 70-130 | Pass | |

| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code | | |
|---|---------------|-----------|-------------------|-------------|-------------------|-------------|-----------------|
| Pyrene | % | 87 | 70-130 | Pass | | | |
| LCS - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | % | 77 | 70-130 | Pass | | | |
| 4.4'-DDD | % | 97 | 70-130 | Pass | | | |
| 4.4'-DDE | % | 90 | 70-130 | Pass | | | |
| 4.4'-DDT | % | 82 | 70-130 | Pass | | | |
| a-BHC | % | 84 | 70-130 | Pass | | | |
| Aldrin | % | 79 | 70-130 | Pass | | | |
| b-BHC | % | 93 | 70-130 | Pass | | | |
| d-BHC | % | 95 | 70-130 | Pass | | | |
| Dieldrin | % | 82 | 70-130 | Pass | | | |
| Endosulfan I | % | 86 | 70-130 | Pass | | | |
| Endosulfan II | % | 100 | 70-130 | Pass | | | |
| Endosulfan sulphate | % | 97 | 70-130 | Pass | | | |
| Endrin | % | 85 | 70-130 | Pass | | | |
| Endrin aldehyde | % | 87 | 70-130 | Pass | | | |
| Endrin ketone | % | 89 | 70-130 | Pass | | | |
| g-BHC (Lindane) | % | 95 | 70-130 | Pass | | | |
| Heptachlor | % | 90 | 70-130 | Pass | | | |
| Heptachlor epoxide | % | 76 | 70-130 | Pass | | | |
| Hexachlorobenzene | % | 80 | 70-130 | Pass | | | |
| Methoxychlor | % | 93 | 70-130 | Pass | | | |
| LCS - % Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | % | 99 | 80-120 | Pass | | | |
| Cadmium | % | 101 | 80-120 | Pass | | | |
| Chromium | % | 100 | 80-120 | Pass | | | |
| Copper | % | 97 | 80-120 | Pass | | | |
| Lead | % | 105 | 80-120 | Pass | | | |
| Mercury | % | 96 | 80-120 | Pass | | | |
| Nickel | % | 99 | 80-120 | Pass | | | |
| Zinc | % | 99 | 80-120 | Pass | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | |
| Acenaphthene | S20-No23149 | NCP | % | 107 | 70-130 | Pass | |
| Acenaphthylene | S20-No23149 | NCP | % | 107 | 70-130 | Pass | |
| Anthracene | S20-No23149 | NCP | % | 105 | 70-130 | Pass | |
| Benz(a)anthracene | S20-No23149 | NCP | % | 120 | 70-130 | Pass | |
| Benzo(a)pyrene | S20-No23149 | NCP | % | 109 | 70-130 | Pass | |
| Benzo(b&i)fluoranthene | S20-No23149 | NCP | % | 103 | 70-130 | Pass | |
| Benzo(g,h,i)perylene | S20-No17897 | NCP | % | 117 | 70-130 | Pass | |
| Benzo(k)fluoranthene | S20-No23149 | NCP | % | 119 | 70-130 | Pass | |
| Chrysene | S20-No23149 | NCP | % | 109 | 70-130 | Pass | |
| Dibenz(a,h)anthracene | S20-No23149 | NCP | % | 116 | 70-130 | Pass | |
| Fluoranthene | S20-No17897 | NCP | % | 105 | 70-130 | Pass | |
| Fluorene | S20-No23149 | NCP | % | 108 | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | S20-No23149 | NCP | % | 114 | 70-130 | Pass | |
| Naphthalene | S20-No23149 | NCP | % | 103 | 70-130 | Pass | |
| Phenanthrene | S20-No23149 | NCP | % | 110 | 70-130 | Pass | |
| Pyrene | S20-No23149 | NCP | % | 115 | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Chlordanes - Total | S20-No17897 | NCP | % | 81 | | | 70-130 | Pass | |
| 4.4'-DDD | S20-No17897 | NCP | % | 111 | | | 70-130 | Pass | |
| 4.4'-DDE | S20-No17897 | NCP | % | 88 | | | 70-130 | Pass | |
| 4.4'-DDT | S20-No17897 | NCP | % | 106 | | | 70-130 | Pass | |
| a-BHC | S20-No17897 | NCP | % | 89 | | | 70-130 | Pass | |
| Aldrin | S20-No17897 | NCP | % | 84 | | | 70-130 | Pass | |
| b-BHC | S20-No17897 | NCP | % | 104 | | | 70-130 | Pass | |
| d-BHC | S20-No17897 | NCP | % | 93 | | | 70-130 | Pass | |
| Dieldrin | S20-No17897 | NCP | % | 96 | | | 70-130 | Pass | |
| Endosulfan I | S20-No17897 | NCP | % | 99 | | | 70-130 | Pass | |
| Endosulfan II | S20-No17897 | NCP | % | 92 | | | 70-130 | Pass | |
| Endosulfan sulphate | S20-No17897 | NCP | % | 72 | | | 70-130 | Pass | |
| Endrin | S20-No17897 | NCP | % | 109 | | | 70-130 | Pass | |
| Endrin aldehyde | S20-No16771 | NCP | % | 87 | | | 70-130 | Pass | |
| Endrin ketone | S20-No17897 | NCP | % | 80 | | | 70-130 | Pass | |
| g-BHC (Lindane) | S20-No17897 | NCP | % | 104 | | | 70-130 | Pass | |
| Heptachlor | S20-No17897 | NCP | % | 109 | | | 70-130 | Pass | |
| Heptachlor epoxide | S20-No17897 | NCP | % | 92 | | | 70-130 | Pass | |
| Hexachlorobenzene | S20-No17897 | NCP | % | 78 | | | 70-130 | Pass | |
| Methoxychlor | S20-No12667 | NCP | % | 85 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | | |
| Arsenic | S20-No19273 | NCP | % | 103 | | | 75-125 | Pass | |
| Cadmium | S20-No19273 | NCP | % | 108 | | | 75-125 | Pass | |
| Chromium | S20-No15630 | NCP | % | 122 | | | 75-125 | Pass | |
| Copper | S20-No15630 | NCP | % | 116 | | | 75-125 | Pass | |
| Lead | S20-No15630 | NCP | % | 121 | | | 75-125 | Pass | |
| Mercury | S20-No15630 | NCP | % | 118 | | | 75-125 | Pass | |
| Nickel | S20-No15630 | NCP | % | 123 | | | 75-125 | Pass | |
| Zinc | S20-No15630 | NCP | % | 117 | | | 75-125 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | Result 1 | | | | | |
| TRH C6-C9 | S20-No19997 | CP | % | 72 | | | 70-130 | Pass | |
| TRH C10-C14 | S20-No19997 | CP | % | 82 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| BTEX | | | | Result 1 | | | | | |
| Benzene | S20-No19997 | CP | % | 81 | | | 70-130 | Pass | |
| Toluene | S20-No19997 | CP | % | 78 | | | 70-130 | Pass | |
| Ethylbenzene | S20-No19997 | CP | % | 79 | | | 70-130 | Pass | |
| m&p-Xylenes | S20-No19997 | CP | % | 79 | | | 70-130 | Pass | |
| o-Xylene | S20-No19997 | CP | % | 79 | | | 70-130 | Pass | |
| Xylenes - Total* | S20-No19997 | CP | % | 79 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | Result 1 | | | | | |
| Naphthalene | S20-No19997 | CP | % | 71 | | | 70-130 | Pass | |
| TRH C6-C10 | S20-No19997 | CP | % | 74 | | | 70-130 | Pass | |
| TRH >C10-C16 | S20-No19997 | CP | % | 79 | | | 70-130 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S20-No19993 | CP | % | 19 | 20 | 2.0 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S20-No19996 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|---|-------------|----|-------|----------|----------|-----|-----|----------|
| BTEX | | | | Result 1 | Result 2 | RPD | | |
| Benzene | S20-No19996 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Toluene | S20-No19996 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Ethylbenzene | S20-No19996 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| m&p-Xylenes | S20-No19996 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| o-Xylene | S20-No19996 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Xylenes - Total* | S20-No19996 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | |
| Naphthalene | S20-No19996 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| TRH C6-C10 | S20-No19996 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S20-No19997 | CP | mg/kg | 4.7 | 12 | 84 | 30% | Fail Q15 |
| Cadmium | S20-No19997 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | S20-No19997 | CP | mg/kg | 15 | 45 | 100 | 30% | Fail Q15 |
| Copper | S20-No19997 | CP | mg/kg | 16 | 11 | 35 | 30% | Fail Q15 |
| Lead | S20-No19997 | CP | mg/kg | 100 | 84 | 21 | 30% | Pass |
| Mercury | S20-No19997 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Nickel | S20-No19997 | CP | mg/kg | 7.5 | < 5 | 58 | 30% | Fail Q15 |
| Zinc | S20-No19997 | CP | mg/kg | 93 | 62 | 40 | 30% | Fail Q15 |
| Duplicate | | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | |
| TRH C10-C14 | S20-No19998 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass |
| TRH C15-C28 | S20-No19998 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass |
| TRH C29-C36 | S20-No19998 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | |
| TRH >C10-C16 | S20-No19998 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass |
| TRH >C16-C34 | S20-No19998 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass |
| TRH >C34-C40 | S20-No19998 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | Result 2 | RPD | | |
| Acenaphthene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Acenaphthylene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Anthracene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benz(a)anthracene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzo(a)pyrene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzo(b&j)fluoranthene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzo(g,h,i)perylene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzo(k)fluoranthene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Chrysene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Dibenz(a,h)anthracene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Fluoranthene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Fluorene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Indeno(1,2,3-cd)pyrene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Naphthalene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Phenanthrene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Pyrene | S20-No19998 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Chlordanes - Total | S20-No19998 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| 4,4'-DDD | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDE | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDT | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |

| Duplicate | | | | | | | | | |
|----------------------------------|-------------|----|-------|----------|----------|-----|-----|------|-----|
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| a-BHC | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-BHC | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-BHC | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| γ-BHC (Lindane) | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | S20-No19998 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S20-No19998 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S20-No19998 | CP | mg/kg | 11 | 20 | 60 | 30% | Fail | Q15 |
| Cadmium | S20-No19998 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S20-No19998 | CP | mg/kg | 43 | 60 | 32 | 30% | Fail | Q15 |
| Copper | S20-No19998 | CP | mg/kg | 27 | 38 | 32 | 30% | Fail | Q15 |
| Lead | S20-No19998 | CP | mg/kg | 81 | 85 | 5.0 | 30% | Pass | |
| Mercury | S20-No19998 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S20-No19998 | CP | mg/kg | 14 | 14 | 5.0 | 30% | Pass | |
| Zinc | S20-No19998 | CP | mg/kg | 180 | 150 | 18 | 30% | Pass | |

Comments

Sample Integrity

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Qualifier Codes/Comments

| Code | Description |
|------|--|
| N01 | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |
| Q15 | The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report. |

Authorised By

| | |
|------------------|-------------------------------|
| Asim Khan | Analytical Services Manager |
| Andrew Sullivan | Senior Analyst-Organic (NSW) |
| Gabriele Cordero | Senior Analyst-Metal (NSW) |
| Nibha Vaidya | Senior Analyst-Asbestos (NSW) |



Glenn Jackson General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Environmental Consulting Services
**10 Fort Street
Petersham
NSW 2049**

NATA Accredited
Accreditation Number 1261
Site Number 18217

 Accredited for compliance with ISO/IEC 17025–Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Simon Caples
Report 756354-AID
Project Name **CARLINGFORD**
Received Date Nov 12, 2020
Date Reported Nov 17, 2020

Methodology:

- Asbestos Fibre Identification** Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.
NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.
- Unknown Mineral Fibres** Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.
NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.
- Subsampling Soil Samples** The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.
NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.
- Bonded asbestos-containing material (ACM)** The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.
NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.
- Limit of Reporting** The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).
 The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).
NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name CARLINGFORD
Project ID
Date Sampled Nov 12, 2020
Report 756354-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|------------------|---------------------|--------------|---|---|
| A1 | 20-No19992 | Nov 12, 2020 | Approximate Sample 80g Sample consisted of: Brown coarse-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| A2 | 20-No19993 | Nov 12, 2020 | Approximate Sample 64g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| A3 | 20-No19994 | Nov 12, 2020 | Approximate Sample 68g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| A4 | 20-No19995 | Nov 12, 2020 | Approximate Sample 69g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| A5 | 20-No19996 | Nov 12, 2020 | Approximate Sample 72g Sample consisted of: Brown coarse-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| A6 | 20-No19997 | Nov 12, 2020 | Approximate Sample 67g Sample consisted of: Brown coarse-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| A7 | 20-No19998 | Nov 12, 2020 | Approximate Sample 66g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| A8 | 20-No19999 | Nov 12, 2020 | Approximate Sample 69g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|------------------|---------------------|--------------|--|---|
| A9 | 20-No20000 | Nov 12, 2020 | Approximate Sample 66g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| D | 20-No20001 | Nov 12, 2020 | Approximate Sample 68g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| SP | 20-No20002 | Nov 12, 2020 | Approximate Sample 64g Sample consisted of: Brown coarse-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| AR | 20-No20003 | Nov 12, 2020 | Approximate Sample 52g Sample consisted of: Brown coarse-grained clayey soil, brick, cement fragments and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| A4B | 20-No20004 | Nov 12, 2020 | Approximate Sample 24g / 90x50x5mm Sample consisted of: Grey compressed fibre cement fragment | Chrysotile, amosite and crocidolite asbestos detected. |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|-------------------------|---------------------|------------------|---------------------|
| Asbestos - LTM-ASB-8020 | Sydney | Nov 12, 2020 | Indefinite |
| Asbestos - LTM-ASB-8020 | Sydney | Nov 12, 2020 | Indefinite |

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Phone : 0800 856 450
IANZ # 1290

| | | | | | |
|----------------------|---|-------------------|--------------|----------------------|-----------------------|
| Company Name: | Environmental Consulting Services | Order No.: | | Received: | Nov 12, 2020 12:50 PM |
| Address: | 10 Fort Street Petersham NSW 2049 | Report #: | 756354 | Due: | Nov 17, 2020 |
| Project Name: | CARLINGFORD | Phone: | 02 9518 1161 | Priority: | 3 Day |
| | | Fax: | | Contact Name: | Simon Caples |

Eurofins Analytical Services Manager : Alena Bounkeua

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos Absence /Presence | Moisture Set | Eurofins Suite B9 |
|--|-----------|--------------|---------------|--------|-------------|-------------------|----------------------------|--------------|-------------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | | | | |
| Sydney Laboratory - NATA Site # 18217 | | | | | | X | X | X | X |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | |
| Mayfield Laboratory | | | | | | | | | |
| External Laboratory | | | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | |
| 1 | A1 | Nov 12, 2020 | | Soil | S20-No19992 | X | | X | X |
| 2 | A2 | Nov 12, 2020 | | Soil | S20-No19993 | X | | X | X |
| 3 | A3 | Nov 12, 2020 | | Soil | S20-No19994 | X | | X | X |
| 4 | A4 | Nov 12, 2020 | | Soil | S20-No19995 | X | | X | X |
| 5 | A5 | Nov 12, 2020 | | Soil | S20-No19996 | X | | X | X |
| 6 | A6 | Nov 12, 2020 | | Soil | S20-No19997 | X | | X | X |
| 7 | A7 | Nov 12, 2020 | | Soil | S20-No19998 | X | | X | X |
| 8 | A8 | Nov 12, 2020 | | Soil | S20-No19999 | X | | X | X |
| 9 | A9 | Nov 12, 2020 | | Soil | S20-No20000 | X | | X | X |
| 10 | D | Nov 12, 2020 | | Soil | S20-No20001 | X | | X | X |

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| | | | | | |
|--|---|-------------------|--------------|----------------------|-----------------------|
| Company Name: | Environmental Consulting Services | Order No.: | | Received: | Nov 12, 2020 12:50 PM |
| Address: | 10 Fort Street Petersham NSW 2049 | Report #: | 756354 | Due: | Nov 17, 2020 |
| Project Name: | CARLINGFORD | Phone: | 02 9518 1161 | Priority: | 3 Day |
| | | Fax: | | Contact Name: | Simon Caples |
| Eurofins Analytical Services Manager : Alena Bounkeua | | | | | |

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos Absence /Presence | Moisture Set | Eurofins Suite B9 |
|--|-----|--------------|--|--------------------|-------------|-------------------|----------------------------|--------------|-------------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | | | | |
| Sydney Laboratory - NATA Site # 18217 | | | | | | X | X | X | X |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | |
| Mayfield Laboratory | | | | | | | | | |
| External Laboratory | | | | | | | | | |
| 11 | SP | Nov 12, 2020 | | Soil | S20-No20002 | X | | X | X |
| 12 | AR | Nov 12, 2020 | | Soil | S20-No20003 | X | | X | X |
| 13 | A4B | Nov 12, 2020 | | Building Materials | S20-No20004 | | X | | |
| Test Counts | | | | | | 12 | 1 | 12 | 12 |

Internal Quality Control Review and Glossary
General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

| | |
|--------------------------------|----------------------------|
| % w/w: weight for weight basis | grams per kilogram |
| Filter loading: | fibres/100 graticule areas |
| Reported Concentration: | fibres/mL |
| Flowrate: | L/min |

Terms

| | |
|-----------------------|---|
| Dry | Sample is dried by heating prior to analysis |
| LOR | Limit of Reporting |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| ISO | International Standards Organisation |
| AS | Australian Standards |
| WA DOH | Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011) |
| NEPM | National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended) |
| ACM | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve. |
| AF | Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable". |
| FA | Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve. |
| Friable | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| Trace Analysis | Analytical procedure used to detect the presence of respirable fibres in the matrix. |

Comments

The samples received were not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-samples to be analysed accurately represented the samples received.

Sample Integrity

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Qualifier Codes/Comments

| Code | Description |
|------|----------------|
| N/A | Not applicable |

Asbestos Counter/Identifier:

Chamath JHM Annakkage Senior Analyst-Asbestos (NSW)

Authorised by:

Laxman Dias Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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IANZ # 1290

Sample Receipt Advice

Company name: Environmental Consulting Services
Contact name: Simon Caples
Project name: CARLINGFORD
Project ID: Not provided
Turnaround time: 3 Day
Date/Time received: Nov 12, 2020 12:50 PM
Eurofins reference: 756354

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 8.4 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes


Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Alena Bounkeua on phone : or by email: AlenaBounkeua@eurofins.com

Results will be delivered electronically via email to Simon Caples - simon@ecsgroup.com.au.

Chain of Custody

| CARLINGFORD | | | | | | | | | | | | | | | | | | |
|---|---------------|-------------|---|-----------------------|-------|---------------------|-----|------------------------|--------|------------------------------|-------------------|--------|------------------|----------|--------------|--|--|--|
| Environmental Consulting Services Pty Ltd | | | | Manager: Simon Caples | | Ph: 0415 225 474 | | Fax: 9518 1787 | | Email: simon@ecsgroup.com.au | | | | | | | | |
| Event Number: | | | Matrix | | | Analysis | | | | | | | | | | | | |
| Lab Number | Sample Number | Sample Date | Soil | Water | Other | BTEX | TPH | PAH | Phenol | Ammonia | Cyanide | Metals | TCLP Metals | Asbestos | Acid Sulfate | | | |
| | A1 | 12/11 | X | | | | | | | | | | | X | | | | |
| | A2 | | | | | | | | | | | | | X | | | | |
| | A3 | | | | | | | | | | | | | X | | | | |
| | A4 | | | | | | | | | | | | | X | | | | |
| | A5 | | | | | | | | | | | | | X | | | | |
| | A6 | | | | | | | | | | | | | X | | | | |
| | A7 | | | | | | | | | | | | | X | | | | |
| | A8 | | | | | | | | | | | | | X | | | | |
| | A9 | | | | | | | | | | | | | X | | | | |
| | D | | | | | | | | | | | | | X | | | | |
| | SP | | | | | | | | | | | | | X | | | | |
| | AR | | | | | | | | | | | | | X | | | | |
| | A10 | | | | | X | | | | | | | | X | | | | |
| Metals: As Cd Cr Cu Ni Pb Zn Hg Ag Be Mo Se | | | | | | Comments: 3 DAY TAT | | | | | | | | | | | | |
| Relinquished By: <i>SMW</i> | | | Signed:  | | | Date: 12/11 | | Received By: <i>UL</i> | | | Signed: <i>UL</i> | | Date: 12/11/2020 | | | | | |

8.4°C
#756354