

Attachment A9

Report on Detailed Site (Contamination) Investigation

**Report on Detailed Site (Contamination)
Investigation**

Proposed Mixed Use Development

41-49 Mountain Street, Ultimo NSW

**Prepared for Evolution MIT Services Pty
Ltd as trustee for Apt Hold Trust 2**

Project 231957.01

5 September 2025

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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

Signature

Date

Author		5 September 2025
Reviewer		5 September 2025

Executive Summary

Douglas Partners Pty Ltd (Douglas) has been engaged by Evolution MIT Services Pty Ltd as trustee for Apt Hold Trust 2 for a geotechnical and preliminary site (contamination) investigation associated with a proposed mixed-use development at 41-49 Mountain Street, Ultimo ('the site'). The site is shown on Drawing 1, Appendix A.

The objective of this investigation is to assess the suitability of the site from a contamination perspective for the proposed development and whether further investigation and/or management is required.

This DSI comprised a site walkover, a desktop study and intrusive soil, groundwater and vapour sampling to assess the suitability of the site for the proposed mixed-use commercial residential development and whether further investigation and/or management of contamination is required.

The desktop search identified on-site activities / potential source of contamination as including imported fill of unknown origin, demolition of previous structures which may have contained hazardous building materials (including asbestos), substation, metal and engineering workshop(s), warehousing (including of asbestos products), Ausgrid depot [including storage of waste (including in an inground pit) and small containers / quantities of fuels, chemical and batteries] storage area and hazardous building materials from current buildings. The long history of commercial / industrial land use in the area around the site is also considered to indicate the potential for contamination off the site which could impact the site. The previous workshop / warehousing buildings appear to have been demolished between 2006 and 2014, and the former substation is currently disused.

The field work comprised sampling from 10 boreholes (BH101 to BH107, BH110, BH1014A and BH105A) across the accessible areas of the site. Fill was encountered in all of the boreholes to depths between 1 m to 1.9 m bgl. Building debris (brick, concrete, sandstone, metal, ash, slag, asphalt, tile, terracotta) were recorded in all boreholes across the site, which can be an indicator of asbestos. Three groundwater wells were constructed, in BH101 to BH103 as part of the geotechnical investigation. Groundwater sampling was conducted from each groundwater well. A soil vapour sample was collected from one soil vapour well constructed for the DSI (BH105A) and one ambient air sample was collected from within the disused substation building. Selected soil, groundwater and vapour samples were analysed for the identified CoPC.

Limitations to current investigation included:

- The footprint of the demountable buildings / metal containers and storage areas were not accessible for sampling;
- Intrusive sampling in the former substation building was not permitted; and
- The use of boreholes instead of test pits to minimise disturbance to current site activities, noting boreholes are not efficient for identifying asbestos. Given that building debris, a potential indicator of asbestos, was observed across the site, there is considered to be a risk of asbestos being present more extensively than identified herein that has not been well characterised by the current data.

The soil, soil vapour and groundwater sampling and analysis has identified the following during the current investigation:

- Soils:
 - o Fill was encountered in all of the boreholes to depths between 1 m to 1.9 m bgl. Building debris (brick, concrete, sandstone, metal, ash, slag, asphalt, tile, terracotta) were recorded in all boreholes across the site, which can be an indicator of asbestos;
 - o Chrysotile asbestos identified above the HSL B criteria in one fill sample. As asbestos contamination is often associated with building debris, and small diameter boreholes are not efficient sampling at detecting asbestos, there is considered to be a high potential for undetected asbestos to be present at other locations in the fill; and
 - o B(a)P TEQ: above the HIL B criteria in various fill samples. Total PAH was also recorded during previous investigation at the site (reviewed herein).
- Vapour and ambient air:
 - o All results were within the adopted SAC.
- Groundwater:
 - o Lead in the sample from BH101 was above the adopted SAC and expected ambient levels. The source is unknown;
 - o TRH, toluene and trihalomethanes recorded in the sample from BH103 are considered to indicate the potential for impact from sediments, potable water and/or drilling fluids. It is noted that the sample collected was poor quality due to the limited water and high turbidity; and
 - o Other metals, and PFAS recorded above the adopted SAC are considered to be within expected ambient concentrations.

Preliminary comments on waste classification of soils and rock are provided in Section 14.

Based on the results of the DSI it is considered that the site can be made suitable for the proposed mixed-use development subject to implementation of the following:

- Preparation of a remediation action plan (RAP) to outline the process for data gap investigation (if not conducted prior to RAP preparation, refer to next dot point), remediation and validation of the site as required to render the site suitable for the proposed development. The RAP should also include an unexpected finds protocol and contingency plan;
- A data gap investigation to address the data gaps in the current investigation. This should include testing in the footprints of existing demountable buildings, metal containers, storage areas and the former substation, further groundwater assessment and characterisation of asbestos (as required to for waste classification and to meet remediation objectives). The data gap investigation may need to occur when the site is unoccupied / following removal of current structures; and
- Implementation and validation of the works under the RAP.

All soils to be removed from the site will need to be classified and managed in accordance with the *Protection of the Environment Operations Act 1997*.

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Report on Detailed Site (Contamination) Investigation Proposed Mixed Use Development 41-49 Mountain Street, Ultimo NSW

1. Introduction

Douglas Partners Pty Ltd (Douglas) has been engaged by Evolution MIT Services Pty Ltd as trustee for Apt Hold Trust 2 for a geotechnical and contamination Investigation associated with a proposed mixed-use development at 41 - 49 Mountain Street, Ultimo ('the site'). The site is shown on Drawing 1, Appendix A.

The investigation was undertaken in accordance with Douglas' proposal 231957.02.P.001.Rev1 dated 29 November 2024.

The objective of this investigation is to assess the suitability of the site from a contamination perspective for the proposed development and whether further investigation and/or management is required.

Douglas has also conducted a hazardous building material survey (reference 231957.01.R.001.Rev) and geotechnical investigation (reference: 231957.02.R.001.Rev0), which are reported separately. Fieldwork for this.

This report must be read in conjunction with all appendices including the notes provided in Appendix B.

The following key guidelines were consulted in the preparation of this report:

- NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013); and
- NSW EPA *Guidelines for Consultants Reporting on Contaminated Land* (NSW EPA, 2020).

2. Proposed development

Douglas has been provided with the planning proposal – DAP Pack (prepared by Bates Smart, dated 28 January 2025). The Planning Proposal includes three options being considered for the development.

It is understood that all three options include:

- Retention and adaptive reuse of the heritage-listed substation at the corner of Mountain and Smail Streets (for retail use);
- Removal of the existing demountable buildings, metal containers and external pavements;
- Construction of a mixed-use residential / commercial development including:
 - o A single-level basement over the site, excluding the heritage listed substation area. The basement is proposed for parking and services;

- o Ground level commercial (retail, loading dock), residential lobby and service area; and
- o Residential units on Level 1 and above.

3. Scope of work

The scope of work comprised:

Desktop

- Review of available relevant previous reports prepared for the site and inclusion of relevant information and results in the current assessment;
- Review of publicly available government held records including NSW Environment Protection Authority (EPA) contaminated land databases and the environmental protection license and notices database;
- Obtain a property report from Lotsearch and review the following included data:
 - o Historical aerial photographs;
 - o Historical business records;
 - o Historical maps;
 - o Registered groundwater wells;
 - o Geological and topographic maps;
 - o Published maps of acid sulfate soil (ASS) potential for the site; and
 - o Published maps of salinity potential for the site.
- Obtain and review records of chemicals stored on-site held by SafeWork NSW under a Schedule 11 hazardous chemicals on premises search; and
- A site walkover to observe signs or indicators of Potential Areas of Environmental Concern (PAEC).

Fieldwork and Laboratory

- Preparation of a fieldwork, safety and environmental plan (FWSEP) and safe work method statements (SWMS);
- Before You Dig Australia (BYDA) search and scanning of the test locations for buried services. Note Douglas was advised that no plans of services within the site were available at the time of fieldwork;
- Concrete coring at nine boreholes (BH101 to BH107, BH104A and BH105A);
- Drilling of 10 boreholes (BH101 to BH107 and BH110, BH104A and BH105A) across the site using non destructive digging (NDD) and hand tools (hand auger) as below:
 - o Boreholes BH101, BH102, BH106, BH107 and BH110 drilled 0.5 m below ground level into natural soil to depths ranging between 1.5 m to 2.4 m bgl;
 - o Boreholes BH103, BH104 and BH105 were terminated at depths ranging between 0.5 m to 0.8 m bgl due to practical refusal on sandstone boulders, bricks and concrete;

- o Borehole BH104A was drilled to depth of 1.1 m bgl (to provide additional data given the early refusal in BH104). BH104A was terminated due to practical refusal on sandstone cobbles;
- o Borehole BH105A was drilled to depth of 1.7 m bgl (to provide additional data given the early refusal in BH105). Borehole BH105A was terminated upon reaching the target depth of 0.5 m into natural soil. It was then backfilled to a depth of 1 m below ground level (bgl) to enable the construction of a vapour well;
- o Three of the locations (BH101 to BH103) were subsequently extended to depths of between 5 m and 10.1 m bgl as part of the geotechnical investigation using a drilling rig; and
- o Groundwater wells were constructed in BH101 to BH103 as part of the geotechnical investigation.
- Logging and collection of soil samples from the 10 boreholes drilled into the soil. Collection and field screening of replicate soil samples for volatile organic compounds (VOC) using a photoionization detector (PID);
- Purge and sample the soil vapour well;
- Collect one ambient air sample in the substation building;
- Develop the groundwater wells;
- Micropurge the groundwater wells and collect groundwater on 21 February 2025. Samples were collected using a low flow bladder pump including measuring and recording physical parameters prior to sampling. Note: insufficient water was present in BH103 to allow micropurging, or collection of field parameters, and as such a 'grab' groundwater sample was collected;
- Analyse selected samples at a National Association of Testing Authorities (NATA) accredited laboratory for various combination of the identified contaminants of potential concern (CoPC), as follows:

Soil samples:

- o Metals (including arsenic (As), cadmium (Cd), total chromium (Cr), copper (Cu), lead (Pb), mercury (Hg), nickel (Ni) and zinc (Zn));
- o Total recoverable hydrocarbons (TRH) (as a screening test for total petroleum hydrocarbons - TPH);
- o Benzene, toluene, ethyl benzene, total xylenes (BTEX);
- o Polycyclic aromatic hydrocarbons (PAH);
- o Organochlorine pesticides (OCP);
- o Organophosphorus pesticides (OPP);
- o Polychlorinated biphenyls (PCB);
- o Per- and poly-fluoroalkyl substances (PFAS);
- o Asbestos (fibrous asbestos / asbestos fines - FA / AF);
- o Toxicity characteristic leaching procedure (TCLP) (metal, PFAS).

Groundwater samples:

- o Metals (total and dissolved);
- o TRH;
- o BTEX;
- o VOC;
- o PAH;
- o OCP;
- o OPP;
- o PCB;
- o PFAS;
- o pH / turbidity / hardness;
- o Oil and grease;
- o Total dissolved solids (TDS); and
- o Total suspended solids (TSS).

Soil vapour and ambient air samples:

- o Volatile chlorinated hydrocarbons (VCH); and
- o Volatile total recoverable hydrocarbons.
- Quality control (QC) samples were also collected and analysed, including replicate samples, rinsate samples and trip spike and trip blanks; and
- Preparation of this report.

4. Site information

The site is located within Ultimo, south-west of the Sydney CBD. The site is known as 41-49 Mountain Street, Ultimo and comprising two lots.

The site is located at the corner of Smail and Mountain Streets, one block east of Broadway Shopping Centre. It is in a mixed-use area with residential, commercial, and hotel developments, near several tertiary campuses, and within 200 m of public transport to the CBD and Western suburbs. It is also part of the 'Mountain Street' heritage conservation area under the LEP.

The site features at the time of reporting comprised a single storey substation at the north-east corner, along with various demountable sheds, structures, pavements and parking space for service vehicles.

Summary information for the site is provided below:

Site address	41-49 Mountain Street, Ultimo NSW
Legal description	Lot 21 Deposited Plan 5567 Lot 2 Deposited Plan 191928 (Former substation)
Approximate area	1,460 m ²
Zoning	Zone MU1 Mixed Use
Local council area	City of Sydney
Current use	Ausgrid Ultimo depot site and a former single storey disused substation building in north-east corner
Surrounding uses	North – Smail Street, followed by 35-39 Mountain Street (a four-storey hotel accommodation) East – Mountain Street, followed by commercial / retail development South – St Barnabas Street, followed by 51-55 Mountain Street (a mixed used commercial / retail development) West – immediately adjacent to the site a mixed-use commercial / retail, followed by Kettle Lane

The site boundary is shown on Figure 1.

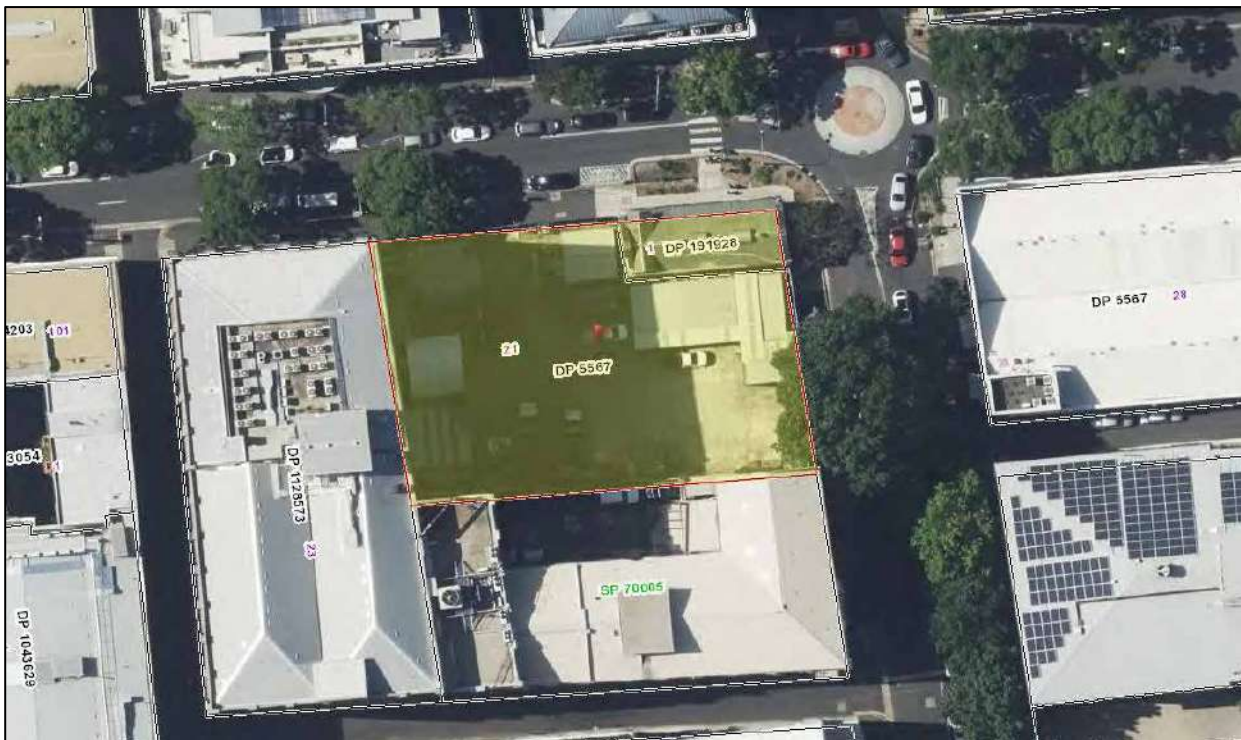


Figure 1: Site location (red outline shows site boundary, refer to Drawing 1 for full legend)

5. Environmental setting

The desktop assessment involved a search of the site history information obtained from published database and mapping. In addition, the Lotsearch report provides supporting figures and information, and is included in Appendix C.

5.1 Topography

The NSW elevation contours obtained from NSW Department of Lands in April 2009, indicate that the regional topography around the site slopes towards a valley sloping generally north / north-west to Blackwattle Bay approximately 1.1 km to the north-west of the site. The site is located on the south-western slopes of the valley, which slope generally to the north / north-east.

Reference to the NSW 2 m elevation contour map indicates that the site levels slope gently downwards to the north-east with an approximate elevation of 8 m relative to Australian Height Datum (AHD) in the south-west corner to 6 m AHD in the north-east.

5.2 Soil landscape

Reference to the Soil Landscape of Sydney 1:100 000 sheet maps the site as being within an area of disturbed terrain. The soil landscape is mapped as being extensively disturbed by human activity, including complete disturbance, removal or burial of soil. Landfill includes soil, rock, building and waste materials.

Approximately 90 m south of the site is shown to be underlain by Blacktown residual soils, comprising of shallow to moderately deep (>100cm) red brown podzolic soils. The Blacktown soil landscape comprises gently undulating rises in Wianamatta group shales and Hawkesbury shale with broad rounded crests and ridges with gently inclined slopes. Blacktown residual soils, comprising of shallow to moderately deep (>100cm) red brown podzolic soils.

Approximately 120 m north-east of the site is shown to be underlain by Gymea landscape comprising undulating to rolling rises and low hills on Hawkesbury Sandstone.



Figure 2: Soil landscape mapping with approximate site location (red boundary)

5.3 Site geology

Reference to the NSW Seamless Geology Dataset indicates that the site is located on the boundary of areas mapped as anthropogenic deposits (in the north) and Hawkesbury Sandstone (in the south).

The anthropogenic deposit are recorded to typically vary from large man-made clasts (concrete blocks to building demolition rubble) to quarried natural boulders, within an interstitial sand to clay matrix.

Hawkesbury Sandstone consists of medium to coarse grained quartz sandstone with minor shale and laminate lenses, refer to Figure 3.

Approximately 150 m south of the site is shown to be underlain by Ashfield Shale, which consists of black to light grey shale and laminate.



Figure 3: NSW Seamless Geology map with approximate site location (red boundary)

5.4 Acid sulfate soils

The Atlas of Australia Acid Sulfate Soil maps the site as being within an area with low probability of occurrence with a 6-7% chance of occurrence.

Review of NSW Acid Sulfate Soil Risk map (Reference to 1:25,000 Acid Sulfate Soil Risk Mapping, 1994-1998) indicated that the northern half of the site is located within an area mapped as Disturbed Terrain which require acid sulfate soil investigation.

Review of the Sydney Local Environmental Plan (LEP) 2012, Acid Sulfate Soils Map Sheet ASS_009, indicates that the northern and eastern portions of the site fall within 'Class 2' Acid Sulfate Soils, while the remainder of the site in the western portion is classified 'Class 5'.

Class 2 Acid Sulfate Soils are likely to be found below the natural ground surface. Development consent is required in Class 2 areas for works below natural ground surface and works by which the water table is likely to be lowered below natural ground surface.

Acid Sulfate soils are not typically found in Class 5 areas. Development consent is required in Class 5 areas for works within 500 metres of adjacent Class 1, 2, 3 or 4 land that is below 5 metres Australian Height Datum and by which the watertable is likely to be lowered below 1 metre Australian Height Datum on adjacent Class 1, 2, 3 or 4 land.

Douglas previously conducted a contamination investigation for the adjacent site at 1 Smail Street. An acid sulfate soil investigation was undertaken and reported as part of the contamination assessment. The field and laboratory results for the adjacent site indicated low potential for the presence of acid sulfate soil.

Based on the desktop data the potential for acid sulfate soil at the site is generally considered to be low. Further assessment of the potential for acid sulfate soils at the site is discussed in Section 13.1.

5.5 Dryland salinity

Regional mapping of salinity potential in Western Sydney was undertaken in 2002 by the former Department of Infrastructure, Planning and Natural Resources, now the NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW). The site is located outside the mapped area of salinity potential.

Reference to the NSW DCCEEW information system (eSPADE) indicates that soils in the surrounding area have shown 'no salting evident' within available soil profiles.

5.6 Surface water and groundwater

Surface water is anticipated to be intercepted by the local stormwater drainage system. The stormwater system is expected to discharge into Blackwattle Bay, located approximately 1 km to the north-west.

A search of Water NSW (formerly the NSW Office of Water) groundwater bores database was undertaken on 12 February 2025. The search indicated that there are 13 registered groundwater bores within 500 m radius of the site. The groundwater wells were constructed to depths between 3.7 m to 8.2 m with the standing water level ranging between 2.18 m to 5.93 m bgl. The intended purpose of all of the bores was monitoring. Table 1 provides a summary of the six closest wells to the site.

Table 1: Summary of available information from nearby registered groundwater bores

Bore ID	Location	Depth	Geology	Water Level	Purpose
GW109646	Up-gradient 135 m east	8.20 m	Fill to 0.8 m bgl Clay, silt and sand to 8.0 m bgl Sandstone to 8.2 m bgl	5.93 m bgl	Monitoring bore
GW109649	Up-gradient 139 m east	7.2 m	Fill to 4.8 m bgl Silty sand to 5.9 m bgl Sandstone to 7.2 m bgl	2.95 m bgl	Monitoring bore
GW109648	Up-gradient 159 m east	6.2 m	Fill to 2.9 m bgl Silty sand/clay to 5.8 m bgl Sandstone to 6.2 m bgl	5.23 m bgl	Monitoring bore
GW109501	Up-gradient 313 m south-east	6.0 m	Not supplied	2.30 m bgl	Monitoring bore
GW109502	Up-gradient 355 m south-east	6.4 m	Not supplied	2.18 m bgl	Monitoring bore

Bore ID	Location	Depth	Geology	Water Level	Purpose
GW109503	Up-gradient 400 m south-east	5.20	Not supplied	2.24	Monitoring bore

Based on the regional topography, the anticipated groundwater flow direction is to the north / north-east towards Blackwattle Bay. The results from the registered bore search indicate groundwater levels at the site could be between 2 m and 6 m bgl.

The Hydrological Map of Australia: Commonwealth of Australia (Geoscience Australia) indicates that the aquifer beneath the site comprises porous, extensive highly productive aquifers. Given the highly urbanised nature of the area, and known long history of contaminating land uses, it is considered that the potential for beneficial use of groundwater from shallow aquifers beneath the site is low. This is consistent with the results of the registered bore search.

6. Previous investigation and summary report

Douglas has previously prepared a Statutory Site Audit Report and a Hazardous Building Materials (HAZMAT) on the site, reported in:

- *Statutory Site Audit Report on 43-49 Mountain Street, Ultimo* (report reference: 43701, February 2006) (Douglas, 2006); and
- *Report on Hazardous Building Materials (HAZMAT) Survey – 41-49 Mountain Street, Ultimo* (report reference: 231957.00, February 2025) (Douglas, 2025).

6.1 Douglas (2006)

Douglas (2006) comprise a Site Audit Report (SAR) for a statutory site audit under the Contaminated Land Management Act 1997 (CLM Act) undertaken for a previous proposed development. The Audit Area covered by Douglas (2006) and the reports reviewed therein, did not over the portion of the current site cover by the former substation building.

Douglas (2006) included a review of reports, including environmental site assessments, conducted by Environmental Investigation Services Pty Ltd (EIS).

EIS initially conducted a Stage 1 environmental site assessment (2005) including a review of site history and site walkover. At the time of EIS investigation, the site was occupied by a two storey commercial building with no basement.

The site history and walkover recorded that:

- The land title deeds suggest that the Audit Area was under ownership of Council of the City of Sydney, and then was subdivided into three parts in 1949 and went under different ownership;
- Council records suggest the (then) existing building at the Audit Area may have been constructed in 1909 for use as a workshop and subsequently been used as a warehouse and office;

- A review of SafeWork records indicated no records of licensed dangerous goods storage pertinent to the Audit Area;
- Council records indicates that the existing building within the Audit Area may have constructed in 1909 and were used as a workshop, warehouses and offices;
- The main potential sources for contamination determined to be: imported filling and hydrocarbons associated with workshop activities; and
- EIS recorded the Audit Area to be completely covered by two storey commercial building with a café and unoccupied areas. EIS found limited evidence of any potential contamination during the walkover.

In December 2005 to January 2006, EIS conducted a Phase 2 environmental site assessment comprising intrusive testing of soil and groundwater sampling. Seven boreholes (BH1 to BH7) were drilled across the site. A summary of the results is provided below:

- Boreholes were drilled to a maximum depth of 4.5 m bgl prior to refusal on sandstone;
- Concrete pavement (150-450 mm thick) was encountered in all boreholes except at BH3;
- Fill comprises silty sand, sandstone, traces of igneous gravel, clay, traces of ceramics and bricks, ash and slag; with silty or clayey (in-situ) silty or clayey sand below the filling grading into sandstone;
- Fill thickness above natural soils ranged from 0.45 m to 1.6 m, with the thickest fill was found in BH6. EIS did not record fill in BH3;
- Sandstone was recorded at depths ranging between 1.2 m to 2.7 m;
- No seepage water was encountered during drilling;
- A temporary piezometer was installed in BH3 with a slotted screen from 1.5 m to 4.5 m against sandstone. Water level was recorded at 2.2 m in the piezometer after 4 hours;
- PID screening results were recorded as 0 ppm in all samples;
- All laboratory results were below the site assessment criteria (SAC) adopted in the current DSI (refer to Section 11) with the exception of:
 - o Total PAH: in samples BH1/0.15-0.5 and BH6/0.2-0.6 at concentrations 109 mg/kg and 197 mg/kg which exceeded HIL criteria of 100 mg/kg; and
 - o B(a)P TEQ: although B(a)P TEQ was not reported in Douglas (2006) (and was not a required analyte at that time, it is noted that B(a)P in samples BH1/0.15-0.5, BH2/0.15-1.05 and BH6/0.2-0.6 at concentrations 8.1 mg/kg, 5.3 mg/kg and 23 mg/kg exceeded current HIL criteria of 5 mg/kg, and B(a)P in samples BH5/0.2-0.5 and BH7/0.25-0.4 recorded B(a)P concentrations of 2.5 mg/kg and 3 mg/kg respectively, close the current B(a)P TEQ HIL, indicating a potential that B(a)P TEQ, if analysed, would have exceeded in these samples.
- Asbestos was not detected in any of the fill soils tested. Douglas notes, however, that boreholes are not efficient at detected asbestos, and that the laboratory methods available for asbestos at the time of the EIS investigations were not as well developed as current methods; and
- Zinc at 11 µg/L was detected in groundwater sample above the ANZECC trigger level for the protection of 95% of species of 8 µg/L.

An extract of borehole locations, drawings and summary table results are included in Appendix D.

6.2 Douglas (2025)

Douglas conducted a HAZMAT survey of the Ausgrid substation building at 41-49 Mountains Street. The assessment comprised a non-destructive / non-intrusive visual inspection along with a limited program of testing and analysis. Samples of suspected ACM, lead paint, ceiling cavity dust and SMF insulation were collected by Douglas using hand tools and analysed by a NATA accredited laboratory.

The laboratory results of HAZMAT survey summarised below:

- Asbestos detected in multiple locations in the main room / ground (conduit); and
- Lead paint detected in white paint on the walls, green paint on the door and red paint on the trench wall.

Douglas recommended a destructive / intrusive survey of all areas prior to building modification work (e.g. demolition, refurbishment and maintenance work).

7. Site history

7.1 Information from previous reports

Historic information from Douglas (2006) is summarised in Section 6.1.

7.2 Former substation heritage

The Bates Smart planning proposal – DAP Pack (dated 28 January 2025) reported that the Mountain Street Substation was built in 1906 and is located in the Pyrmont / Ultimo Urban Conservation Area.

7.3 Historical aerial photography

The historical aerial photographs for the years of 1930, 1943, 1951, 1956, 1970, 1978, 1982, 1956, 1991, 1994, 2000, 2014 and 2024 were obtained from the Lotsearch historical database on 19 September 2024. These photographs were reviewed with reference to possible previous land use and around the site. Further information is provided in the Lotsearch report included in Appendix C.

Note: The Lotsearch report cover both the site, and the adjacent property at 1-3 Smail Street, which are shown using two site boundaries. For this investigation, the pertinent site boundary is the one corresponding to the current site only, i.e. Lots 21 Deposited Plan 5567 and Lot 2 Deposited Plan 191928 (Former substation).

It is noted that the site boundary appears to shift in some of the aerial photographs. This is due to georeferencing issues related to the age of the aerial photographs, and as such the marked boundaries should be used for reference purposes only.

A summary of key features observed for the site and surrounding land is presented in Table 2.

Table 2: Summary of historical aerial photographs

Year	Site	Surrounding land use
1930	Available image resolution is poor, and potential structures cannot be clearly seen.	Smail Street was present to the north of the site with St Barnabas Street to the south and Mountain Street to the east. The building on the adjacent surrounding land were consistent with commercial / industrial land use.
1943	The entire site was occupied by commercial / industrial style structures. The substation was present in the north-east corner of the site.	No significant changes to the land use of the surrounding lands to the north, south, east and west were apparent when compared with the 1930 aerial photograph.
1951 - 1970	No significant changes to the site layout were apparent when compared with the 1943 aerial photograph.	No significant changes to the general land use of the surrounding lands to the north, south, east and west were apparent when compared with the 1930 aerial photograph. A building to the south-east of the site was demolished and appeared to have changed to at grade parking land use.
1978	No significant changes to the site layout were apparent when compared with the 1943 aerial photograph.	No significant changes to the land use were apparent when compared with the 1930 aerial photograph.
1982 - 1986	No significant changes to the site layout were apparent when compared with the 1943 aerial photograph.	No significant changes to the land use of the surrounding lands to the north, south, east and west were apparent when compared with the 1978 aerial photograph.
1991	No significant changes to the site layout were apparent when compared with the 1943 aerial photograph.	No significant changes were apparent to the land use of the surrounding lands were apparent when compared to 1986 aerial photograph.
1994	Some of the structures in the south-west corner has undergone some redevelopment, with the site layout remained the same.	No significant changes to the land use of the surrounding lands to the north, south, east and west were apparent when compared with the 1991 aerial photograph.
2000	The building in the north-west of the site may have been demolished. The remainder of the building at site appeared largely unchanged.	Redevelopment of the buildings further to the south with commercial building.
2014	All previous commercial structures / warehouses had been demolished and removed from the site. Few structures (demountable buildings) including	Development of land further to the west of the site had been completed,

Year	Site	Surrounding land use
	Ausgrid substation were present in the north, north-east and southern part of the site with the remainder of the site is vacant.	which is consistent with the current commercial building structure.
2024 - 2025	Additional structures were present along the western boundary of the site. The remainder of the site appeared similar to 2014 aerial photograph.	Development of the land further to the west, south and south-east of the site had been completed with commercial building structures.

7.4 Historical maps

Historical maps from the Lotsearch report are included in Appendix C. Relevant information includes:

- A Fires Underwriters' plan dated 1917 from the Council of City of Sydney showing the site layout and businesses, and surrounding land uses. An extract is provided as Figure 4 below. The plan shows the site occupied by the substation, a sawtooth building and yard. The occupiers are listed as being Fitzroy Ironworks (J. Connolly) and an Engineer. Surrounding land uses are shown as including warehousing, Waters Trading (with a carpenters workshop and rice and cereal storage, engineering and welding workshop, pattern store, motor engineering and repair shop; and
- A map from 1956 showing the site containing the substation with the remaining area marked as "Eliza Tinsley Pty Ltd". Labels on surrounding land indicate generally commercial or industrial land uses, with the exception of a school and church to the south.

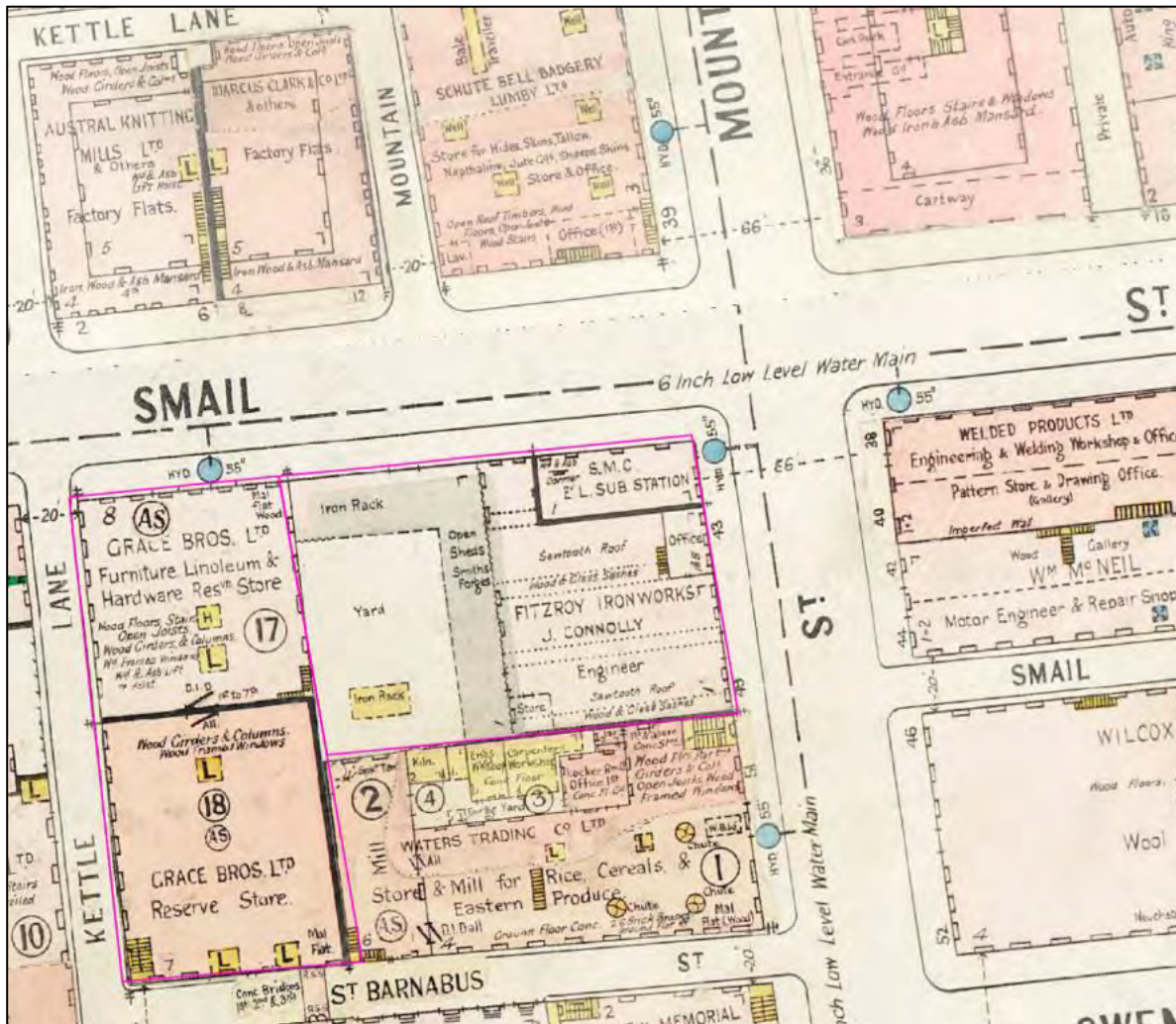


Figure 4: Extract of 1917 Fire Underwriters' Plans, from Lotsearch report

7.5 Public registers and planning records

7.5.1 EPA Notices under Section 58 of the Contaminated Land Management (CLM Act)

A search of the record of notices on the NSW EPA public register of contaminated land record was undertaken on 3 March 2025. The search did not identify notices for the site or for other sites within the suburb of Ultimo.

The Lotsearch report mapped listings under NSW EPA contaminated sites, with the closest property was located approximately 600 m south-east of the site. Given the distance of the property, the potential for it to impact the site is considered low and such no further detail was sought.

7.5.2 List of NSW contaminated sites notified to EPA under section 60 of the CLM Act

A search of the public database of sites notified to the NSW EPA under Section 60 of the CLM was undertaken on 3 March 2025 on the NSW EPA website. The results of the search indicated that the site was not listed as a notified contaminated site.

One property was recorded for the suburb of Ultimo for the Shell Coles Express Service Station located at 387-429 Wattle Street, approximately 152 m north-east (down-gradient) of the site. Regulation under CLM Act was not required. Given the topography, the property is not considered to present a contamination risk to the site and therefore further detail was not sought.

7.5.3 Licences listed under section 308 of the protection of the Environment Operations Act 1997 (POEO Act)

A search of the NSW EPA public records of current environmental protection license, applications, notices or audits under POEO Act was undertaken on the NSW EPA website on 12 March 2025. No listings were recorded for the site or for other properties listed under the suburb of Ultimo.

The Lotsearch report mapped listings under the POEO Act register, with the closest property located approximately 370 m south-east of the site at 3 Central Park Avenue, Chippendale. The license number for this operation is 20768 and the activity pertaining to the site recorded as generation of electrical power from gas. The license review indicates that the site's activities involve air pollution with ammonia and nitrogen oxides as pollutant, necessitating air monitoring. Based on the license summary information this property is not considered to present a contamination risk to the site.

7.5.4 Former Licensed Activities under the POEO Act 1997

A search of the NSW EPA public records of former environmental protection license, applications, notices or audits under POEO Act was undertaken on the NSW EPA website on 12 March 2025. No listings were recorded for the site.

The Lotsearch report mapped former listings under the POEO Act register, with the closest property located approximately 280 m south-east of the site at 26-28 Broadway, Chippendale. The license number for the property was 1521, and the activity pertaining to the site recorded as brewing and distilling, hazardous, industrial or Group A Waste generation or storage.

However, the property has been redeveloped for commercial, public open space and residential uses and is not listed as a notified site. As such, the property is not considered to present a contamination risk to the site and no further detail was sought.

7.5.5 PFAS investigations sites listed on the EPA

A review of PFAS investigation sites listed on the NSW EPA website was undertaken on 12 March 2025, along with a review of additional PFAS investigation registers undertaken by Lotsearch.

Neither the site nor adjacent sites were listed under:

- NSW EPA PFAS Investigation Program;

- Defence PFAS Management Program;
- Defence PFAS Management Program; and
- Airservices Australia national PFAS Management Program.

7.6 **SafeWork NSW record search**

A NSW Dangerous Good Search application for the site was submitted on 6 December 2024. The SafeWork NSW response stated that they did not locate any records pertaining to site.

A copy of the SafeWork NSW search record is included in Appendix E.

7.7 **Historical business activity**

A review of the Universal Business Directory (UBD) records was undertaken as part of the Lotsearch report for the site and of surrounding area for high-risk activities including dry cleaning, motor garage and service stations. The UBDs were published between 1950 and 1991, with selected years searched. Further information is provided in the Lotsearch report, provided in Appendix C and in Section 7.7.

Businesses identified at the site included the following:

- Eliza Tinsley (Aust) Pty Ltd, listed business activities included:
 - o Asbestos Cement Products manufacturing and/or distribution and/or suppliers;
 - o Asbestos Cloth Suppliers; and
 - o Manufacturers and/or distributors and wholesalers of Adhesives /tape, insulation materials, felt, filters, welding equipment.
- Connolly J. Ltd, listed business activities included:
 - o Frame manufacturers;
 - o Engineering;
 - o Metal workers;
 - o Tool makers;
 - o Vice manufacturers; and
 - o Safe and strongroom door manufacturers.

Overall, given the variety of business activities listed for Eliza Tinsley (Aust) Pty Ltd, it appears that these most likely related to the warehousing and distribution of various products, notably including asbestos products.

Overall, given the variety of business activities listed for Connolly J. Ltd, it appears that this business is likely to have included manufacturing / engineering works.

Lotsearch identified the following off-site potentially contaminating businesses:

- Multiple motor garages and/or engineers and/or dry cleaners over 200 m south of the site. These are not deemed to pose a significant contamination risk to the site based on their distance from the site;

- Multiple motor garages and/or engineers and/or dry cleaners were identified within a range of 70 m or more to the cross-gradient of the site. These are not deemed to pose a significant contamination risk to the site based on their distance and relative location; and
- Multiple motor garages and/or engineers and/or dry cleaners were identified within a range of 20 m or more to the north – north-east (down-gradient) of the site. These were operational between 1948 to 1972. These are not deemed to pose a significant contamination risk to the site based on their distance and relative location.

7.8 Site history integrity assessment

The information used to establish the history of the site was sourced from reputable and reliable reference documents, many of which were official records held by Government departments / agencies. The databases maintained by various Government agencies potentially can contain high quality information, but some of these do not contain any data at all.

In particular, aerial photographs can provide high quality information that is generally independent of memory or documentation. They are only available at intervals of several years, so some gaps exist in the information from this source. The observed site features are open to different interpretations and can be affected by the time of day and/or year at which they were taken, as well as specific events, such as flooding. Care has been taken to consider different possible interpretations of aerial photographs and to consider them in conjunction with other lines of evidence.

7.9 Summary of site history

The site history indicates that the electrical substation was constructed at the site in 1906. It is not known when the substation was decommissioned, however there has been no information on it having been used for other purposes since decommissioning.

The site history records commercial / light industrial use of the site from circa 1909, commencing with metal and engineering workshops and then becoming warehousing. Records indicate that products distributed from the site may have included asbestos products.

The previous workshop / warehousing buildings appear to have been demolished between 2006 and 2014. Recent use of the site has been as an Ausgrid work depot.

A search of EPA notices and licenses did not identify the site to be identified to the EPA as contaminated, be regulated under the CLM Act, hold a license or have received any EPA notices. A SafeWork NSW search did not locate any records pertaining to storage of chemicals / fuels at the site.

No significant recent adjacent off-site sources of contamination have been identified, however the review did identify that the surrounding land has a long history of light industrial uses, including motor garages, workshops and dry cleaners, which may be source of contamination to the site, especially in groundwater.

8. Site walkover

8.1 Observations

A site walkover was undertaken by an environmental scientist on 6 December 2024 (and subsequently during field work). The general topography was consistent with that described in Section 5.1, relatively level with a gentle slope towards north-east. The site layout was also observed to be generally consistent with the 2024 aerial photograph.

The following key site features pertinent to the site were observed (refer to site photographs in Appendix F):

- The electrical substation was located at the corner of Smail Street and Mountain Street, and was disused at the time of fieldwork (Photograph 1);
- Access to the former substation building was from a small entrance door from the Mountain Street footpath (no vehicular access was available to the substation building at the site of fieldwork);
- No plant remained in the substation building. A number of pits and pipes were observed in the floor;
- Access to the remainder of the site was via an entrance gate from Smail Street to the north;
- The site was being used as an Ausgrid depot;
- Two demountable buildings and two metal containers were observed in the north-east portion of the site, functioning as an office, first aid office, and storage area (Photograph 2);
- Vehicle batteries and a small fuel container were observed at the ground surface to the east of a demountable (Photograph 3);
- Petroleum gases liquid cylinders were stored in metal cage located in the north-east of the site, to the west of the substation (Photograph 4);
- A small open stormwater drain was observed in the north east of the site, to the west of the substation (Photograph 5);
- An electrical kiosk with high voltage electricity was present on an elevated concrete slab in the north-west corner of the site (Photograph 6);
- A few metal containers were located in the north-western part of the site next to the elevated concrete slab. There was no access to the containers (Photograph 7);
- A canopy structure was present the west central portion of the site, being used as a car space and storage area (Photograph 8);
- A covered maintenance area was present the south-western part of the site. The area was used to store a variety of items including equipment, tools for maintenance, wood, small containers of chemical, including cleaning products, spray paints, fertiliser, cement additive, sealants, pesticides, oil containers, containers of solvent degreaser to remove oil, grease, paint (Photographs 9 and 10);
- A storage cupboard signed as a 'flammable liquid' depot was present in covered maintenance area and was observed to contain small containers ('jerry cans') of fuel, fuel additives, lubricants, acetone and thinners (Photograph 11);

- A second metal cabinet depot signed as 'flammable liquid' was present in the south-west of the site adjacent to the southern boundary (Photograph 12). It was empty when opened on 6 December 2024;
- A shed being used to store asphalt mix was present in the south-west of the site adjacent to the southern boundary (Photographs 13 and 14);
- A washdown areas was observed in the south-west of the site adjacent to the southern boundary, between the asphalt storage shed and the flammable liquid depot. A number of containers were present in this area at the time of inspection (Photograph 13);
- A pit was located in the south-east corner of the site (Photograph 15);
- The site was paved with concrete with major cracks and staining (Photograph 16); and
- Adjacent land uses were not observed to contain point sources of contamination (based on limited inspection from the street). Land uses were observed to be predominantly commercial (retail / office space) with some residential units.

8.2 Discussion with site personnel

Ausgrid personnel present on 6 December 2024 provided the following anecdotal information:

- That there were no known service plans for the site;
- The substation (signed as No. 5) was the fifth one constructed in the Sydney area;
- That the substation was disused, and that all known live electrical services at the site were above ground (with power controlled at the meter board in the north-west of the site, with conduits service the site attached to the walls at the site boundaries);
- The site was used a works depot for an Ausgrid civil works team;
- That the pit in the south-east of the site was used to collect wash down water from equipment following works, with the liquids subsequently being pumped out for off-site disposal site (Photograph 15); and
- That they were unaware of any underground fuel or chemical storage / tanks at the site.

9. Preliminary conceptual site model

A conceptual site model (CSM) is a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The CSM provides the framework for identifying how the site became contaminated and how potential receptors may be exposed to contamination either in the present or the future i.e. it enables an assessment of the potential source – pathway – receptor linkages (complete pathways).

Based on the current investigation / previous reports, the following potential sources of contamination and associated contaminants of potential concern (CoPC) have been identified and summarised in Table 3.

Table 3: Summary of potential sources

Potential sources and associated CoPC
On-site sources S1: Fill: Imported fill from unknown sources and demolition of former buildings on the site. Douglas noted ash, slag ceramic and brick inclusions reported in Douglas (2006) CoPC: asbestos, metals, TRH, BTEX, PAH, PCB, OCP, phenols and PFAS S2: Former activities including substation, engineering and metal workshop, warehousing, including of asbestos products CoPC: include asbestos, metals, PCB, TRH, BTEX, PAH, OCP, OPP, VOC S3: Current activities including maintenance shed, chemical storage areas (including petroleum containers, oil, paint, thinners, cleaners, pesticides, fertilisers) in the south-west portion of the site CoPC: include metals, TRH, BTEX, PAH, OCP, OPP, and VOC S4: Open pit used for storage of wash down water in the south-west corner of the site CoPC: include asbestos, metals, TRH, BTEX, PAH, OCP, PCB, VOC, PFAS S5: Existing buildings (hazardous building materials from existing structures) CoPC: asbestos, synthetic mineral fibres (SMF), lead (in paint) and PCB
Off-site sources S6: Surrounding historical land uses (commercial / industrial) CoPC: metals, TRH, BTEX, PAH, PCB, OCP, OPP, phenols, VOC and PFAS

The following potential human and environmental receptors, along with relevant potential pathways, have been identified and summarised in Table 4.

Table 4: Summary of potential receptors and pathways

Potential human receptors
HR1: Construction and maintenance workers HR2: End users [mixed use commercial / residential] HR3: Adjacent site user's [commercial / residential]
Potential environmental receptors
ER1: Surface water [Blackwattle Bay, marine / estuarine aquatic ecosystems] ER2: Groundwater <u>Note:</u> given the distance of the closest surface water body (1 km north of the site), the potential for contamination at the site to impact the nearest surface water body is considered to be low unless transported via the stormwater system. <u>Note:</u> given the current state of the site, which is entirely paved with concrete and the proposed basement excavation, the ecological significance of the site is considered to be low, and not to provide high value habitat to terrestrial ecology. Accordingly, terrestrial ecosystem receptors have not be considered further.

Potential pathways to human receptors
HP1: Ingestion and dermal contact HP2: Inhalation of dust and/or vapours HP3: Vapour migration into buildings
Potential pathways to environmental receptors
EP1: Surface water run-off EP2: Leaching of contaminants and vertical migration into groundwater EP3: Lateral migration of groundwater providing base flow to water bodies

Summary of potentially complete exposure pathways

A 'source–pathway–receptor' approach has been used to assess the potential risks of harm being caused to human or environmental receptors from contamination sources on or in the vicinity of the site, via exposure pathways (potential complete pathways). The possible pathways between the above sources (S1 to S4) and receptors are provided in below Table 5.

Table 5: Summary of potentially complete exposure pathways

Source and CoPC	Exposure pathway	Receptor	Risk management action
S1: Fill: Imported fill from unknown sources and demolition of former buildings on the site: Asbestos, metals, TRH, BTEX, PAH, PCB, OCP, phenols and PFAS S2: Former activities including substation, engineering and metal workshop, warehousing: asbestos, metals, PCB, TRH, BTEX, PAH, OCP, OPP, VOC S3: Current activities including maintenance shed, chemical storage	HP1: Ingestion and dermal contact	HR1: Construction and maintenance workers HR2: End users [mixed use commercial / residential]	An intrusive investigation is recommended to assess possible contamination, including testing of the soils, soil vapour and groundwater
	HP2: Inhalation of dust and/or vapours	HR1: Construction and maintenance workers HR2: End users [mixed use commercial / residential] HR3: Adjacent site users [commercial/ residential]	
	EP1: Surface water run-off EP3: Lateral migration of groundwater providing base flow to water bodies	ER1: Surface water	

Source and CoPC	Exposure pathway	Receptor	Risk management action
areas in the south-west portion of the site: metals, TRH, BTEX, PAH, OCP, OPP, and VOC S4: Open pit used for storage of wash down water in the south-west corner of the site: asbestos, metals, TRH, BTEX, PAH, OCP, PCB, VOC, PFAS S6: Surrounding historical land uses: metals, TRH, BTEX, PAH, PCB, OCP, OPP, phenols, VOC and PFAS	EP2: Leaching of contaminants and vertical migration into groundwater	ER2: Groundwater	
S5: Existing buildings (hazardous building materials from existing structures): asbestos, synthetic mineral fibres (SMF), lead (in paint) and PCB	HP1: Ingestion and dermal contact HP2: Inhalation of dust and/or vapours	HR1: Construction and maintenance workers HR1: Construction and maintenance workers HR2: End users [mixed use commercial / residential] HR3: Adjacent site users [commercial/ residential]	Undertake a hazardous building materials survey and manage hazardous building materials in accordance with the recommendations of the survey and regulatory requirements.

10. Sampling and analysis plan

10.1 Data quality objectives

The contamination investigation was devised with reference to the seven-step data quality objectives (DQO) process, which is provided in Appendix B Schedule B2, NEPC (2013). The data quality objectives process is outlined in Appendix G.

10.2 Soil sampling and analysis rationale

Based on the CSM and data quality objectives (DQO) a judgmental sampling strategy was adopted for the site, including locations targeted at specific areas of concern and locations to provide indicative information on general site conditions, taking into consideration data available from previous investigations.

The soil sampling locations were chosen based on the previous investigation results, previous site uses, suspected contamination and the CSM with the rationale provided below. Borehole locations are shown on Drawing R.001.D01, Appendix A.

Table 2 of NSW EPA (2022) recommends a minimum of eight test locations to characterise a site of 0.15 ha. Soil samples were collected from a total 10 boreholes including additional two additional locations drilled due to practical refusal of the primary borehole locations (BH104A and BH105A) comprising the following:

- BH101 to BH104, BH104A, BH106 to BH107: boreholes on general to identify potential source of contamination;
- BH105 and BH105A; boreholes targeting fuel containers, chemical storage areas and flammable liquid storage area; and
- BH110: borehole targeting the pit used for storage of wash down water in the south-east corner of the site.

Note that Ausgrid did not permit intrusive investigation in the former substation during this investigation, and consequently, the two proposed boreholes (BH108 and BH109) inside the substation were not drilled.

The footprint of the demountable buildings, metal containers and sheds, which are predominately situated in the north-east and western portion of the site, were not accessible for intrusive sampling at the time of fieldwork.

Concrete coring was undertaken at all sampling locations except for BH110. Boreholes were drilled using NDD with samples collected using hand tools. Two additional boreholes (BH104A and BH105A) were drilled due to termination of the primary boreholes, which encountered sandstone cobbles.

Soil samples were collected from each borehole and directly from hand auger at regular depth intervals, or upon signs of contamination, and changes in lithology or signs of contamination (such as odours or staining).

Samples were selected for analysis based upon field observations and PID screening results, and to provide lateral and vertical coverage of the site. At least one fill sample from each borehole was analysed for CoPC associated with fill, with more samples analysed from boreholes where deeper fill was encountered, or where signs of contamination were observed (such as staining and odours). Four natural soil samples have been analysed to initially evaluate the contamination status of the natural soil.

The selected samples were analysed for the CoPC in the CSM as discussed in Section 9. The general sampling methods are described in the field work methodology in Appendix H.

10.3 Soil vapour sampling and analysis rationale

In order to assess the current soil vapour concentrations at the site and evaluate whether historical / current off site land uses have impacted the site, sampling was undertaken from one soil vapour well. Vapour samples were tested for the identified CoPC, namely VOC.

BH105A, used for soil vapour sampling, was positioned in the vicinity of the maintenance shed including fuel containers and flammable liquid storage area.

Details of the vapour well construction are provided in Appendix H and on the borehole log in Appendix K. General sampling methods are described in the field work methodology in Appendix H.

10.4 Ambient air sampling rationale

As discussed in Section 10.2, the installation of boreholes BH108 and BH109 was not possible due to access restriction within the former substation. To provide preliminary data, an ambient air sample was collected to assess the potential VCH in ambient air inside the enclosed space of substation building.

The general sampling methods are described in the field work methodology in Appendix H.

10.5 Groundwater sampling and analysis rationale

Groundwater monitoring wells were constructed as part of the geotechnical investigation, and groundwater sampling from the geotechnical monitoring wells was carried out as part of this contamination investigation.

The locations were selected based on the following rationale:

- GWBH102 is positioned in the south-west corner, hydraulically up-gradient. The results from GWBH102 will be used to evaluate data on the concentration of contaminants in groundwater sourced entering the site;
- GWBH101 is positioned in the central portion of the site; and
- GWBH103 is positioned in the south-east corner and hydraulically up-gradient. The results from GWBH103 will be used to evaluate data on the concentration of contaminants in groundwater entering the site.

Note: no borehole could be constructed in the down-gradient portion of the site due to restrictions on drilling in the substation building.

Details of the groundwater well construction are provided in Appendix H and on the borehole logs in Appendix K. The general sampling methods are described in the field work methodology in Appendix H.

11. Site assessment criteria

The site assessment criteria (SAC) applied in the current investigation are informed by the CSM (Section 7) which identified human and environmental receptors to potential contamination on the site. Analytical results are assessed (as Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1 of NEPC (2013). The investigation and screening levels applied in the current investigation comprise as follow:

The site is proposed development includes a mixed commercial / residential building with a single-level basement across the entire site excluding the substation building.

The SAC applied in the current investigation comprise levels adopted for a generic residential with minimal opportunities for soil access, land use category 'B'. Given the currently proposed basement commercial use, the land use category 'D' for commercial/industrial land use potential suitability of commercial category 'D' will be also applied.

The derivation of the SAC is in Appendix I, and the adopted SAC are listed on the summary analytical results tables in Appendix J.

12. Results

12.1 Field work results

12.1.1 Soil

The borehole logs for this assessment are provided in Appendix K. The logs recorded the following general sub-surface profile:

- Concrete Pavement:** Concrete pavement was encountered at the surface in all test locations, thickness of 80 mm to 160 mm to depths of between 0.05 m and 0.3 m below ground level (bgl) except for BH10.
- Fill:** Variably compacted sandy soil with varying amounts of sandstone gravels and reclamation fill including asphalt, sandstone cobbles, tiles, metal, slag, ash, bricks, concrete. The fill extended to depths of between 1.0 m and 1.5 m; overlying
- Alluvial Soil:** Very loose to dense sandy soil with varying amount of sandstone and ironstone gravels, extending to depths between 2.4 m and 2.5 m; overlying
- Sandstone Bedrock:** Extremely weathered sandstone only encountered at depths of between 2.5 m and 3.6 m in BH102.
Generally highly to moderately weathered low strength with medium strength bands becoming slightly weathered and medium to high strength encountered to termination depth.

Building debris and/or other anthropogenic inclusions (sandstone gravel, brick, cobbles, sandstone cobbles, tile, trace terracotta, concrete, rusty metals, glass, ash, slag) were recorded in all boreholes across the site within the fill material from 0.1 to 1.5 m bgl. No potential asbestos containing material (PACM) was recorded, however; building debris is indicative of the potential presence of asbestos.

Trace of ash, slag and asphalt were also encountered in all of the boreholes across the site within the fill layer.

The photoionisation detector (PID) screening for volatile organic compounds was conducted on the soil samples collected at each borehole. The PID recorded values of less than 10 ppm (consistent with background Australian soils) suggesting very low concentrations, of VOC in the samples tested.

No free groundwater was observed during drilling of boreholes. It should be noted that groundwater levels area affected by climate conditions and soil permeability and will therefore vary with time. In addition, the essential use of water during NDD precluded any further groundwater observations during drilling.

12.1.2 Soil vapour

Soil vapour sampling location is shown on Drawing 2, Appendix A and construction details are outlined on the borehole logs provided in Appendix K. Field records are provided in Appendix L.

Field measurements were recorded from vapour well prior to sampling. In summary:

- Carbon dioxide was recorded at concentrations of 0 v/v;
- Methane, hydrogen sulfate and carbon monoxide were not recorded above the detection limit in the sample; and
- PID sampling was less than 1 ppm.

12.1.3 Groundwater

Groundwater BH101, BH102 and BH103 levels were gauged on 12, 13 and 14 February 2025 using an electronic oil/water interface meter prior to developing the wells and again on 20 February 2025 prior to sampling. The measured water levels prior to sampling are shown in Table 6.

Table 6: Summary of groundwater level measurements on 20 February 2025

Well ID	Location of monitoring well	Ground level * m (AHD)	SWL m (bgl)	SWL m (AHD)
GW BH101	down-gradient	6.50	3.9	2.6
GWBH102	up-gradient	12.30	2.60	9.7
GWBH103	up-gradient	5.0	3.87	1.13

Notes:

*Surveyed by dGPS

AHD – Australian Height Datum

SWL – standing water level

bgl – below ground level

No non-aqueous phase liquid was recorded by the interface meter and no hydrocarbon odour was noted during development or sampling. The purge groundwater was light brown and silty during sampling.

The stabilised groundwater field parameters recorded prior to sampling are shown on the groundwater field sheets provided in Appendix L and summarised below.

Physical parameters were measured whilst sampling (where possible) and are summarised in Table 7.

Table 7: Summary of field parameters (groundwater and surface water)

Well / Sample ID	Temp. (°C)	DO (ppm)	Turbidity	EC (µS/cm)	pH	Redox (mV)
BH101	23.2	-0.20	75.17	12.2	3.81	409.4
BH102	22.5	-0.17	37.82	18.4	5.13	230.7
BH103	Insufficient groundwater in well to obtain parameters					

12.2 Laboratory analytical results

The results of laboratory analysis are summarised in the following tables in Appendix J:

- Table J1: Summary of results of soil analysis;
- Table J2: Summary of results of waste classification assessment;
- Table J3: Summary of results of soil vapour and ambient air analysis; and
- Table J4: Summary of results of groundwater analysis.

The laboratory certificate(s) of analysis together with the chain of custody and sample receipt information is / are provided in Appendix M.

12.3 Data quality assurance and quality control

The data quality assurance and quality control (QA / QC) results are provided in Appendix N. Based on the results of the field QA and field and laboratory QC, and evaluation against the data quality indicators (DQI) it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

13. Discussion

13.1 Soils

Chemical Contaminants

The concentration of BTEX, phenols, OCP, OPP and PCB in all samples tested were below the PQL and the adopted human health investigation levels (HIL B). Concentrations of metals, PAH, TRH and PFAS were recorded above the practical quantification limit (PQL) but below the adopted SAC with the exception of:

- Benzo(a)pyrene [B(a)P] TEQ: in samples BH101/0.1-0.3, BH101/0.9-1.1, BH102/0.35-0.55, BH103/0.1-0.3 and BH105/0.25-0.35 at concentrations of 5.4 mg/kg, 5 mg/kg, 8 mg/kg, 6.2 mg/kg and 14 mg/kg respectively, which exceeded the HIL B criteria of 4 mg/kg.

It is noted that trace ash, slag and asphalt were observed and logged in the fill profile across the site at depths between 0.2 to 1.9 m. The presence of ash, slag and asphalt inclusions are common indicators of elevated PAH and TRH levels and is possibly the source of the elevated B(a)P TEQ and TRH concentrations.

EIS (as reported in Douglas, 2006) also recorded inclusions of ash and slag within the fill layer. In addition, total PAH and B(a)P at concentrations which exceeded B(a)P TEQ HIL within fill samples including ash and slag were detected.

Asbestos

Chrysotile asbestos identified embedded in a fragment of fibre cement of 1.29 g/kg (0.13%) which exceeded the SAC of 0.04%.

Although asbestos was only detected in one sample, building rubble (tile, asphalt, sandstone block, brick, concrete, slag, glass) was observed in all of the boreholes. As asbestos contamination is often associated with building debris, and small diameter boreholes are not efficient sampling at detecting asbestos, there is considered to be a high potential for undetected asbestos to be present at other locations in the fill.

Acid sulfate soil

Based on the acid sulfate soils (ASS) mapping (as reviewed in Section 5.4) the risk of ASS was assessed to be low. The risk of ASS was further assessed based on the field results of the current testing, along with pH testing conducted as part of the geotechnical investigation. The assessment considered the following:

- The groundwater in the site was present in the rock, with all encountered alluvial soil and fill being above the water table;
- No sulfide odours were recorded in soils during the drilling or soil sampling; and
- Testing for pH for geotechnical aggressivity testing (Douglas reference: 231957.02.R.001.Rev0) of recorded pH results of between 8.5 and 9.5. Three samples were tested, one of the fill and two of the alluvial soils.

Based on these findings, the materials recorded in the boreholes are considered to have a very low risk of comprising ASS, and testing for ASS was not considered warranted. If alluvial soils with indicators of ASS (e.g. grey soils below the water table, sulfide odours) are observed on the in future site (e.g. in the currently inaccessible north east area of the site), assessment of these materials would be warranted.

13.2 Soil vapour

All analytical results for sample BH105A and the duplicate sample BD were found to be within the adopted HSL and HIL for commercial land use and adopted screening values for indoor air (where no SAC available).

In summary, the data has not identified a vapour intrusion risk in the location tested.

13.3 Ambient air

All analytical results for sample Sub-AB01 were found to be within the adopted screening values for indoor air, and less than the adopted HSL and interim HIL for commercial land use by a factor of 10 (noting the soil vapour screening values are based on an indoor air-to-soil vapour attenuation factor of 0.1).

In summary, the data has not identified a vapour intrusion risk in the substation.

13.4 Groundwater

As shown in Table J4, groundwater concentrations of dissolved metals: arsenic, cadmium, chromium, mercury and nickel; PAH, OCP, OPP, PCB were within the recreation land use and 95% (LOP) marine water criteria.

Elevated levels of copper, lead, manganese, zinc and PFOS were variously detected above the adopted SAC in the following groundwater samples:

BH101:

- Dissolved copper (8 µg/L), lead (9 µg/L) and zinc (23 µg/L), exceeded the ANZC (2018) 95% marine guideline; and
- PFOS (0.028 µg/L), exceeded the HEPA (2018) 99% LOP marine guideline, but was within the 95% LOP guideline.

BH102:

- Dissolved copper (2 µg/L), manganese (110 µg/L) and zinc (72 µg/L), exceeded the ANZ (2018) 95% marine water guideline; and
- PFOS (0.06 µg/L), exceeded the HEPA (2018) 99% LOP marine water guideline, but was within the 95% LOP guideline.

BH103:

- Total chromium (93 µg/L), copper (220 µg/L), nickel (170 µg/L) and zinc (250 µg/L), exceeded the ANZC (2018) 95% marine guideline.

The dissolved copper, manganese and zinc detected above the adopted SAC are generally considered to be consistent with ambient background ranges. The lead is not considered likely to be background, and the source is unknown.

PFAS concentrations were elevated at both up-gradient BH102 and mid-gradient BH101 groundwater wells. Concentration of PFOS in BH102 (positioned up-gradient) is higher than BH101 (positioned mid-gradient) of the site. Given the results above, and the surrounding commercial land use, it is considered that the elevated concentration of PFOS and metals are likely attributed to background / regional concentrations rather than specifically associated with the site.

It is noted that the below contaminants were recorded below the SAC (where one is available) but above expected background concentrations:

- BH103:
 - o TRH F2 (>C10-C16 less Naphthalene) (120 µg/L);
 - o TRH F3 (>C16-C34) (180 µg/L);
 - o Toluene (81 µg/L); and

- o Trihalomethanes [bromodichloromethane (1 µg/L)] and Chloroform (7 µg/L)](note these are byproduct of water chlorination).

Borehole BH103 was initially drilled to a maximum depth of 8.7 m bgl and subsequently backfilled with fill material (bentonite / dirt) to 0.5 m to facilitate geotechnical investigation to allow for the construction of a shallow well for geotechnical purposes. At the time of sampling there was only limited water in the well, and as such a lower quality 'grab' sample was collected which was observed to be highly turbid. Insufficient sample was recovered to allow all proposed analytes to be tested. Review of the field observation, methods and laboratory results indicates that the sample collected may have been impacted by sediment, potable and/or drilling fluids, which may be contributing to the TRH, toluene, bromodichloromethane and chloroform detections. The physical parameters of the groundwater samples collected from BH103 also differed from samples BH101 and BH102, indicating a potential different source.

Low chloroform concentrations recorded in BH101 and BH102 are considered to be within expected ambient levels.

14. Preliminary comments on waste classification

14.1 Limitations

The comments in this section are preliminary advice only based on currently available results, which have known limitations (including areas inaccessible for sampling, and a sampling method which is inefficient at detection asbestos).

If soil is proposed for removal from the site, a formal waste classification is required, which incorporate the test data reported herein and addition supplementary sampling and testing.

14.2 Fill

The following Table 8 presents the results of the six-step procedure outlined in NSW EPA (2014) for determining the type of waste and the waste classification. This process applies to the fill (including surface soils) at the site, which do not meet the definition of VENM.

Table 8: Six step classification procedure

Step	Comments	Rationale
1. Is the waste special waste?	Yes BH107	Chrysotile asbestos identified embedded in a fragment of fibre cement in sample BH107/0.5-0.7. No clinical or related waste, or waste tyres were observed in the boreholes.

Step	Comments	Rationale
	Remaining areas Not detected in samples to date**	No ACM, clinical or related waste, or waste tyres were observed in the boreholes. Asbestos was not detected in the soils samples tested; however, the presence of building rubble and the limitations of the sampling method indicates the potential for asbestos to be present throughout fill at the site.
2. Is the waste liquid waste?	No	The fill comprised a soil matrix.
3. Is the waste "pre-classified"?	No	The fill is not pre-classified with reference to NSW EPA (2014).
4. Does the waste possess hazardous waste characteristics?	No	The fill was not observed to contain explosives, gases, flammable solids, oxidising agents, organic peroxides, toxic substances, corrosive substances, coal tar, batteries, lead paint or dangerous goods containers.
5. Determining a wastes classification using chemical assessment.	Conducted	Refer to Table J2, Appendix J.
6. Is the waste putrescible or non-putrescible?	Non-putrescible	The fill does not contain materials considered to be putrescible*.

*Note: Wastes that are generally not classified as putrescible include soils, timber, garden trimmings, agricultural, forestry and crop materials, and natural fibrous organic and vegetative materials (NSW EPA, 2014).

**Note: Whilst asbestos was not found in the sampling locations, there is a potential for asbestos to be found in fill in other parts of the site. This risk is elevated given the historical demolition of previous structures within the site and the building rubble recorded during the sampling process. The demolition of the existing dwelling may also contribute asbestos contamination to surface soils.

As shown in Table J2, Appendix J, all contaminant concentrations for the analysed fill samples were below the contaminant thresholds (CTI) for general solid waste (GSW) with the exception of the following:

- Lead in a number of samples (as indicated by the highlighted results on Table J2) exceeded the CTI criteria for GSW of 100 mg/kg. Subsequent toxicity characteristic leaching procedure (TCLP) analysis was conducted on the 'worst-case' scenario, with the recorded total and TCLP contaminant concentrations within the SCC1 and TCLP1 thresholds for GSW; and
- Benzo(a)pyrene B(a)P in a number of samples (as indicated by the highlighted results on Table J2) exceeded the CTI criteria for GSW of 0.8 mg/kg. TCLP extract and analysis was conducted on the 'worst-case' scenario, with the recorded total and TCLP contaminant concentrations within the SCC1 and TCLP1 thresholds for GSW.

PFAS was detected in fill in three samples (BH101/0.1-0.3, BH102/0.9-1.0, BH110/0-0.2). Noting there are no CT thresholds for PFAS, TCLP was conducted on two samples. The recorded total and TCLP contaminant concentrations within the SCC1 and TCLP1 thresholds for GSW.

Chrysotile asbestos was detected and confirmed by laboratory analysis in a fragment of fibre cement collected at BH107 /0.5-0.7 m which exceeded 0.1 g/kg reporting limit. Although no asbestos was detected in any of the other samples, the potential risk of uncovering asbestos in the soil remains a significant concern for the site, given the presence of building rubble recorded through the fill.

Based on the observations at the time of sampling and the reported analytical results, the following preliminary waste classification are provided for fill at the site:

- Fill soils in the vicinity of BH107 is provisionally classified as Special Waste (Asbestos) – GSW (non-putrescible); and
- Remaining fill within the site – further assessment required to assess the for asbestos contamination, GSW (non-putrescible) with respect to chemical contamination.

14.3 Natural soil and rock

The following Table 9 presents the results of the assessment of natural soil and rock at the site with reference to the VENM definition in the POEO Act and the [EPA website](#).

Table 9: VENM classification procedure

No.	Item	Comment	Rationale
1.	Is the material natural?	Yes	Natural soil and rock logged in the test pits as sand, silty sand and clayey sand underlain by sandstone. These materials underlie the fill at the site.
2.	Are manufactured chemicals or process residues present?	Low risk	There were no visual or olfactory indicators of chemical contamination of the materials in the test pits. Concentrations of contaminants are shown in Table J2 and discussed below.
3.	Are sulfidic ores or soils present?	Not identified in current investigation	Refer to Section 13.1
4.	Are there current or previous land uses that have (or may have) contaminated the materials?	Yes	Refer to Section 9.

As shown in the attached Table J2, contaminant concentrations for the analysed natural soil samples were within the typical background concentration in three of the four samples tested. One sample (BH110/1.2-1.4) recorded trace levels of PAH, which could be naturally sourced or from cross contamination with the overlying fill during the sampling process.

Indicators of ASS were not recorded in the current boreholes as discussed in Section 13.1. Noting that Class 2 Ass was mapped in the north-east of the site, which was not accessible for sampling during the current investigation, further assessment of ASS in this area would be required to finalise the classification of alluvial soils in this area.

Based on the outcomes presented in Table 6, the sandstone bedrock within the assessment area as shown on Drawing 1, is considered to be classifiable as virgin excavated natural material (VENM). Further assessment is considered to be required to assess if the alluvial soils are VENM, although the current data is considered to be generally consistent with VENM classification subject to the soils not being mixed with other materials / fill.

15. Updated conceptual site model

The data collected during this DSI has generally confirmed that certain potential contaminant sources outlined in the CSM outlined in Section 9 pose a potentially complete pathway to the identified receptor(s) whilst others do not.

Based on the discussion presented in Section 13, the following key considerations informed the updated CSM:

- Soils:
 - o Detections of CoPCs above the SAC was limited to asbestos and B(a)P TEQ in the current investigation and B(a)P / B(a)P TEQ and total PAH in the previous investigation (Douglas, 2006);
 - o Based on observations during the fieldwork, slag, asphaltic concrete, and ash were observed in fill in all of sampling locations, and may be the source of the PAH;
 - o Asbestos was detected in only one sample analysed, however due to presence of building debris within fill layer across the site, there is considered to be a high potential for undetected asbestos to be present at other locations in the fill. Testing pitting and sampling in accordance with the recommendations of NEPC (2013) would be required to characterise asbestos concentrations across the site;
 - o The confirmed contamination in soil is associated with the fill. As discussed in Section 2, the majority of the site, excluding the substation area, is proposed for a single-level basement, therefore, it is expected a bulk excavation across the site would require removal of fill; and
 - o Not all areas of the site were accessible for soil sampling (notably the former substation and north east of the site, and as such contamination has not been characterised in these areas. This is considered to be a data gap.
- Soil vapour:
 - o The results did not record contaminant concentrations of concern.

- Groundwater:
 - o A number of contaminants were recorded above the SAC;
 - o Of these only one, lead, was recorded above expected ambient concentrations. The source of this has not been identified, but could be fill at the site;
 - o The sample collected from well BH103 was of low quality due to the limited water in the well at the time of sampling; and
 - o Construction of a down-gradient groundwater well was not possible at the time of assessment due to the down-gradient north east of the site not being accessible for intrusive investigation at the time of the assessment. This is considered to be a data gap.

Table 10: Updated summary of potentially complete exposure pathways

Source and CoPC	Exposure pathway	Receptor	Risk management action
S1: Fill: Imported fill from unknown sources and demolition of former buildings on the site: Asbestos, metals, TRH, BTEX, PAH, PCB, OCP, phenols and PFAS S2: Former activities including substation, engineering and metal workshop, warehousing: asbestos, metals, PCB, TRH, BTEX, PAH, OCP, OPP, VOC S3: Current activities including maintenance shed, chemical storage areas in the south-west portion of the site: metals, TRH, BTEX, PAH, OCP, OPP, and VOC S4: Open pit used for storage of wash down water in the south-west corner of the site: asbestos, metals, TRH, BTEX, PAH, OCP, PCB, VOC, PFAS	HP1: Ingestion and dermal contact	HR1: Construction and maintenance workers HR2: End users [mixed use commercial / residential]	Remediation / management is required for the asbestos, B(a)P TEQ and PAH recorded in fill at the site.
	HP2: Inhalation of dust and/or vapours	HR1: Construction and maintenance workers HR2: End users [mixed use commercial / residential] HR3: Adjacent site users [commercial/ residential]	Given the proposed basement over the majority of the site (except the area of the heritage substation), off-site disposal of soil to form the basement is likely to achieve the remediation goals for the above contaminants.
	EP1: Surface water run-off EP3: Lateral migration of groundwater providing base flow to water bodies	ER1: Surface water	Further testing is required in areas which are currently not accessible and of groundwater.
	EP2: Leaching of contaminants and vertical migration into groundwater	ER2: Groundwater	Further investigation of the extent of asbestos may be conducted as required to inform the remediation requirements / waste classification of soils.

Source and CoPC	Exposure pathway	Receptor	Risk management action
S6: Surrounding historical land uses: metals, TRH, BTEX, PAH, PCB, OCP, OPP, phenols, VOC and PFAS			Implementation of appropriate WHS and environmental management controls during construction works.
S5: Existing buildings (hazardous building materials from existing structures): asbestos, synthetic mineral fibres (SMF), lead (in paint) and PCB	HP1: Ingestion and dermal contact	HR1: Construction and maintenance workers	Undertake a hazardous building materials survey and manage hazardous building materials in accordance with the recommendations of the survey and regulatory requirements.
	HP2: Inhalation of dust and/or vapours	HR1: Construction and maintenance workers HR2: End users [mixed use commercial / residential] HR3: Adjacent site users [commercial/ residential]	

16. Conclusions and recommendations

This DSI comprised a site walkover, desktop study and intrusive soil, groundwater and vapour sampling to assess the suitability of the site for the proposed mixed-use commercial residential development and whether further investigation and/or management of contamination is required. Ten boreholes were drilled in accessible portions of the site as part of the DSI.

The desktop search identified on-site activities / potential source of contamination as including imported fill of unknown origin, demolition of previous structures which may have contained hazardous building materials (including asbestos), substation, metal and engineering workshop(s), warehousing (including of asbestos products), Ausgrid depot [including storage of waste (including in an inground pit) and small containers / quantities of fuels, chemical and batteries] storage area and hazardous building materials from current buildings. The long history of commercial / industrial land use in the area around the site is also considered to indicate the potential for contamination off the site which could impact the site. The previous workshop / warehousing buildings appear to have been demolished between 2006 and 2014, and the former substation is currently disused.

Limitations to current investigation included:

- The footprint of the demountable buildings / metal containers and storage areas were not accessible for sampling;
- Intrusive sampling in the former substation building was not permitted; and
- The use of boreholes instead of test pits to minimise disturbance to current site activities, noting boreholes are not efficient for identifying asbestos. Given that building debris, a

potential indicator of asbestos, was observed across the site, there is considered to be a risk of asbestos being present more extensively than identified herein that has not been well characterised by the current data.

The soil, soil vapour and groundwater sampling and analysis has identified the following during the current investigation:

- Soils:
 - o Fill was encountered in all of the boreholes to depths between 1 m to 1.9 m bgl. Building debris (brick, concrete, sandstone, metal, ash, slag, asphalt, tile, terracotta) were recorded in all boreholes across the site, which can be an indicator of asbestos;
 - o Chrysotile asbestos identified above the HSL B criteria in one fill sample. As asbestos contamination is often associated with building debris, and small diameter boreholes are not efficient sampling at detecting asbestos, there is considered to be a high potential for undetected asbestos to be present at other locations in the fill; and
 - o B(a)P TEQ: above the HIL B criteria in various fill samples. Total PAH was also recorded during previous investigation at the site (reviewed herein).
- Vapour and ambient air:
 - o All results were within the adopted SAC.
- Groundwater:
 - o Lead in the sample from BH101 was above the adopted SAC and expected ambient levels. The source is unknown;
 - o TRH, toluene and trihalomethanes recorded in the sample from BH103 are considered to indicate the potential for impact from sediments, potable water and/ or drilling fluids. It is noted that the sample collected was poor quality due to the limited water and high turbidity; and
 - o Other metals, and PFAS recorded above the adopted SAC are considered to be within expected ambient concentrations.

Preliminary comments on waste classification of soils and rock are provided in Section 14.

Based on the results of the DSI it is considered that the site can be made suitable for the proposed mixed-use development subject to implementation of the following:

- Preparation of a remediation action plan (RAP) to outline the process for data gap investigation (if not conducted prior to RAP preparation, refer to next dot point), remediation and validation of the site as required to render the site suitable for the proposed development. The RAP should also include an unexpected finds protocol and contingency plan;
- A data gap investigation to address the data gaps in the current investigation. This should include testing in the footprints of existing demountable buildings, metal containers, storage areas and the former substation, further groundwater assessment and characterisation of asbestos (as required to for waste classification and to meet remediation objectives). The data gap investigation may need to occur when the site is unoccupied / following removal of current structures; and
- Implementation and validation of the works under the RAP.

All soils to be removed from the site will need to be classified and managed in accordance with the *Protection of the Environment Operations Act 1997*.

17. References

Douglas. (2006). *Statutory Site Audit Report on 43-49 Mountain Street, Ultimo*. (Report reference: 43701, February 2006).

Douglas. (2025). *Report on Hazardous Building Materials (HAZMAT) Survey*. (Reference: 231957.00 dated 27 February 2025).

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.

NSW EPA. (2020). *Guidelines for Consultants Reporting on Contaminated Land*. Contaminated Land Guidelines: NSW Environment Protection Authority.

NSW EPA. (2022). *Contaminated Sites, Sampling Design Guidelines*. NSW Environment Protection Authority.

18. Limitations

Douglas Partners Pty Ltd (Douglas) has prepared this report for this project at 41-49 Mountain Street, Ultimo NSW in line with Douglas' proposal dated 29 November 2024 and acceptance received from Juey Thanyakittikul of Evolution MIT Services Pty Ltd as trustee for Apt Hold Trust 2. The work was carried out under Douglas' Engagement Terms. This report is provided for the exclusive use of Evolution MIT Services Pty Ltd as trustee for Apt Hold Trust 2 for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of Douglas, does so entirely at its own risk and without recourse to Douglas for any loss or damage. In preparing this report Douglas has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after Douglas' field testing has been completed.

Douglas' advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by Douglas in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

The assessment of atypical safety hazards arising from this advice is restricted to the environmental components set out in this report and based on known project conditions and stated design advice and assumptions. While some recommendations for safe controls may be provided, detailed 'safety in design' assessment is outside the current scope of this report and requires additional project data and assessment.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. Douglas cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by Douglas. This is because this report has been written as advice and opinion rather than instructions for construction.

Asbestos was detected in only one location. Building demolition materials such as brick and ceramic, were however, located in below ground fill, and there are considered as indicative of the possible presence of hazardous building materials (HBM), including asbestos. Although the sampling plan adopted for this investigation is considered appropriate to achieve the stated project objectives, there are necessarily parts of the site that have not been sampled and analysed. This is either due to undetected variations in ground conditions, or to parts of the site being inaccessible and not available for inspection / sampling. It is therefore considered possible that HBM, including asbestos, may be hence no warranty can be given that asbestos is not present.

Appendix A

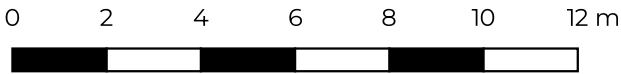
Drawings



SITE LOCATION

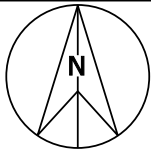
LEGEND

 Site Boundary



CLIENT: Apt. Residential Pty Ltd	
OFFICE: Sydney	DRAWN BY: NLE/MN
SCALE: 1:200 @A3	DATE: 18.March.2025

TITLE: **Site Boundary**
Proposed Mixed Use Development
41-49 Mountain Street, Ultimo NSW



PROJECT:	231957.01
DRAWING NO:	1
REVISION:	0



SITE LOCATION

LEGEND

- Site Boundary
- Current Investigation
 - Borehole Location
 - Borehole and Groundwater Well
 - Previous Contamination Borehole



CLIENT: Apt. Residential Pty Ltd	
OFFICE: Sydney	DRAWN BY: NLE/MN
SCALE: 1:200 @A3	DATE: 18.March.2025

TITLE: **Test Locattion Plan**
Proposed Mixed Use Development
41-49 Mountain Street, Ultimo NSW



PROJECT:	231957.01
DRAWING NO:	2
REVISION:	0

Appendix B

About this Report

Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

Borehole and Test Pit Logs

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

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

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

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;
- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at

the time of construction as are indicated in the report; and

- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

continued next page

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

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Appendix C

Lotsearch Report



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 19 Sep 2024 10:49:24

Reference: LS061831 EP

Address: 1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Disclaimer:

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

Dataset Listing

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

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	24/07/2024	24/07/2024	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	21/05/2024	21/05/2024	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority NSW	02/09/2024	13/08/2024	Monthly	1000m	0	0	4
Contaminated Land Records of Notice	Environment Protection Authority NSW	02/09/2024	02/09/2024	Monthly	1000m	0	0	1
Former Gasworks	Environment Protection Authority NSW	06/08/2024	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority NSW	03/09/2024	03/09/2024	Monthly	1000m	0	0	3
National Waste Management Facilities Database	Geoscience Australia	29/04/2024	29/11/2022	Annually	1000m	0	1	1
National Liquid Fuel Facilities	Geoscience Australia	20/09/2023	07/09/2020	Annually	1000m	0	0	2
EPA PFAS Investigation Program	Environment Protection Authority NSW	19/08/2024	14/06/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	19/08/2024	19/08/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	19/08/2024	19/08/2024	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	19/08/2024	19/08/2024	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	17/07/2024	17/07/2024	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	05/08/2024	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Australian Department of Defence	17/07/2024	17/07/2024	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority NSW	13/11/2023	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	3
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	3
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	10
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	100m	114	1340	1340
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	100m	-	25	25
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	250m	0	111	214
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	250m	-	2	2
Points of Interest	NSW Department of Customer Service - Spatial Services	18/07/2024	18/07/2024	Quarterly	1000m	0	2	101
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	18/07/2024	18/07/2024	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	18/07/2024	18/07/2024	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	09/08/2024	09/08/2024	Quarterly	1000m	0	1	6
State Forest	Forestry Corporation of NSW	12/12/2023	11/12/2023	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Geoscience Australia	17/04/2024	19/08/2019	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Climate Change, Energy, the Environment and Water	28/05/2024	23/02/2018	Quarterly	1000m	0	0	1
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	28/05/2024	20/06/2023	Annually	2000m	0	0	91
NSW Seamless Geology Single Layer: Rock Units	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	2	2	6
NSW Seamless Geology Single Layer: Trendlines	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	7
NSW Seamless Geology Single Layer: Geological Boundaries and Faults	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Department of Regional NSW	26/04/2024	14/03/2024	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	12/01/2024	17/02/2011	Annually	1000m	1	1	3
Soil Landscapes of Central and Eastern NSW	NSW Department of Climate Change, Energy, the Environment and Water	12/12/2023	27/07/2020	Annually	1000m	1	2	5
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Housing and Infrastructure	13/09/2024	16/08/2024	Monthly	500m	2	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	12/01/2024	21/02/2013	Annually	1000m	1	1	3
Dryland Salinity - National Assessment	Australian Bureau of Agricultural and Resource Economics and Sciences	03/06/2024	24/05/2024	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service	06/08/2024	06/08/2024	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Regional NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Regional NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Regional NSW	26/08/2024	26/08/2024	Monthly	1000m	12	12	12
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Housing and Infrastructure	13/09/2024	08/09/2023	Monthly	1000m	0	0	7
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Housing and Infrastructure	13/09/2024	30/08/2024	Monthly	1000m	1	4	130
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	20/10/2023	13/04/2022	Annually	250m	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	20/10/2023	13/04/2022	Annually	250m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	29/07/2024	05/07/2024	Quarterly	250m	1	1	2
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Housing and Infrastructure	13/09/2024	30/08/2024	Monthly	250m	2	10	52
Bush Fire Prone Land	NSW Rural Fire Service	26/08/2024	19/07/2024	Monthly	1000m	0	0	0
NSW Native Vegetation Type Map	NSW Department of Climate Change, Energy, the Environment and Water	02/09/2024	30/11/2023	Quarterly	1000m	1	1	1
Ramsar Wetlands of Australia	Australian Department of Climate Change, Energy, the Environment and Water	16/05/2024	11/04/2024	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/05/2024	28/05/2024	Annually	1000m	0	0	0
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/05/2024	28/05/2024	Annually	1000m	0	0	0
NSW BioNet Species Sightings	NSW Department of Climate Change, Energy, the Environment and Water	10/09/2024	10/09/2024	Monthly	10000m	-	-	-

Site Diagram

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

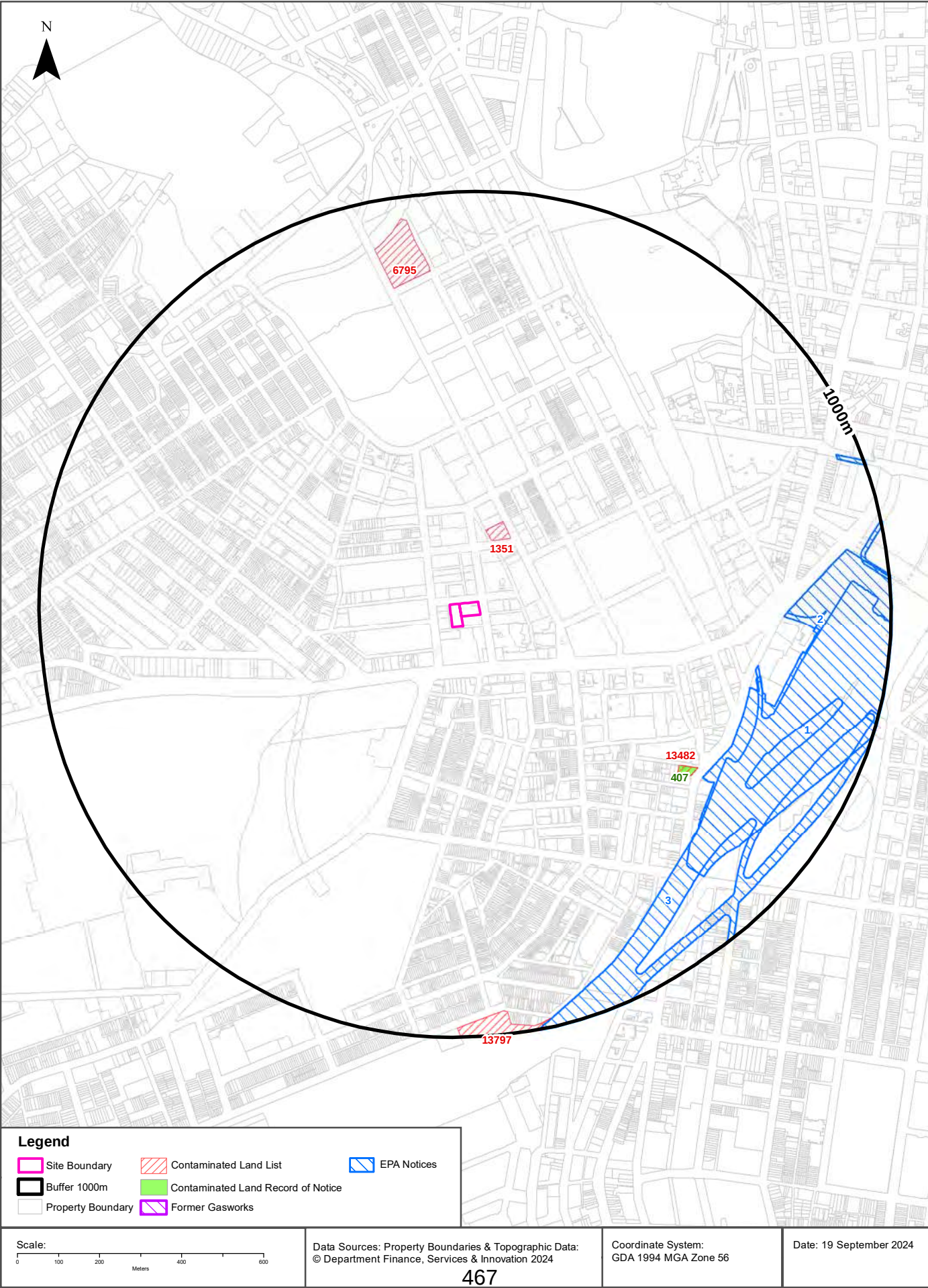


Legend Site Boundary Internal Parcel Boundaries	Total Area: 2839m² Total Perimeter: 316m	
	Scale: 0 12.5 25 Meters	
	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2024	Date: 19 September 2024

Disclaimers:
Measurements are approximate only and may have been simplified or smaller lengths removed for readability.
Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Contaminated Land

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Contaminated Land

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

List of NSW contaminated sites notified to EPA

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

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
1351	Shell Coles Express Service Station	387-429 Wattle Street	Ultimo	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	152m	North East
13482	Cnr Regent Street & Wellington Street, Chippendale	Wellington STREET	CHIPPENDALE	Chemical Industry	Contamination currently regulated under CLM Act	Current EPA List	Premise Match	606m	South East
6795	Former Council Works Depot (Fig and Wattle Depot)	14-26 Wattle STREET	Pymont	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	783m	North
13797	Redfern North Eveleigh Precinct – Paint Shop and Clothing Storesub-precincts	281 Wilson STREET	DARLINGTON	Unclassified	Under assessment	Current EPA List	Premise Match	941m	South

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.

EPA site management class	Explanation
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

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
407	Cnr Regent Street & Wellington Street, Chippendale	Wellington Street	Chippendale	3 current and 7 former	3406	Premise Match	606m	South East

Contaminated Land Records of Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority
Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit
<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

Former Gasworks

Former Gasworks within the dataset buffer:

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

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

Contaminated Land

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

EPA Notices

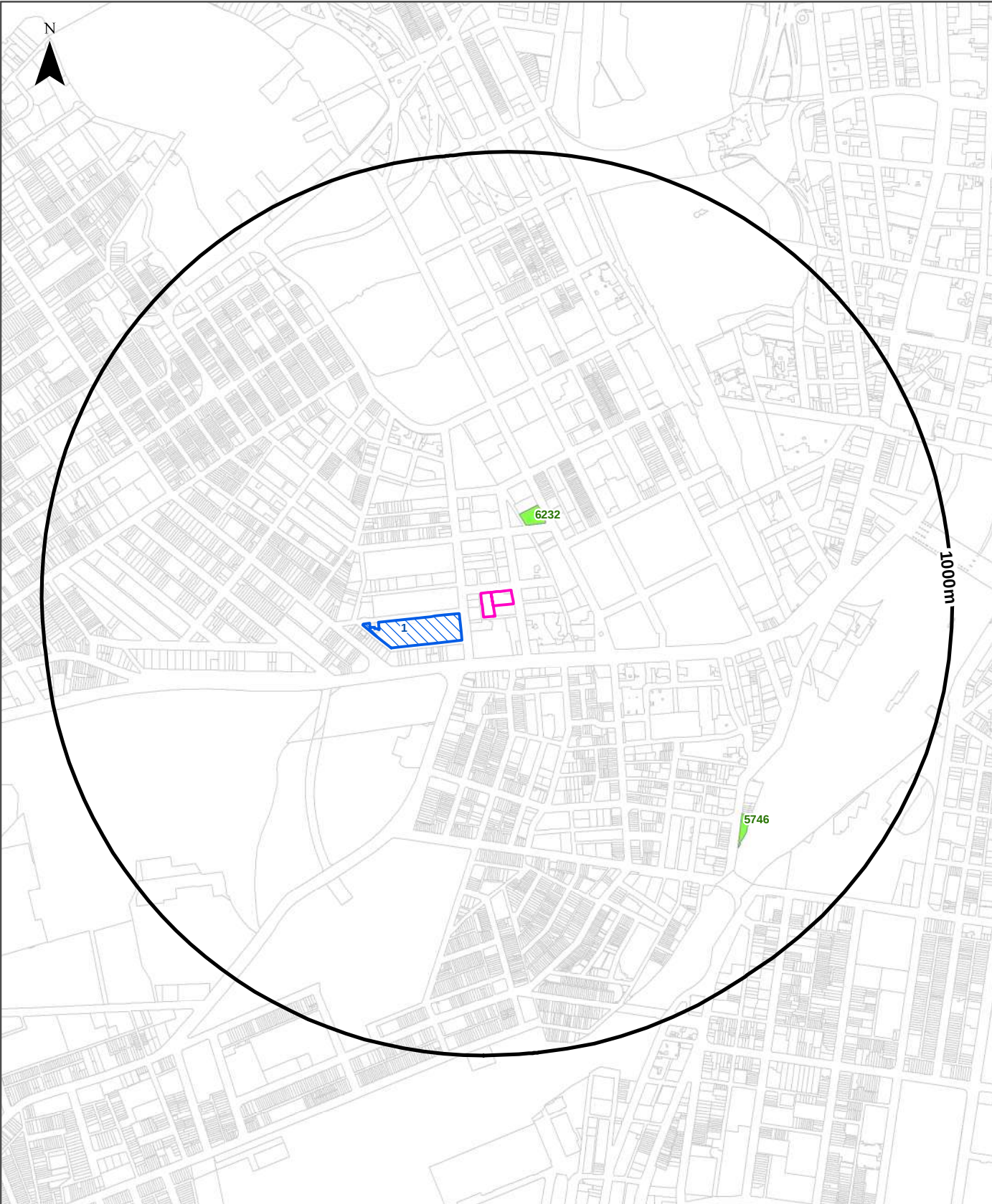
Penalty Notices, s.91 & s.92 Clean up Notices and s.96 Prevention Notices within the dataset buffer:

Map ID	Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
1	3085778300	Penalty Notice	JACKSON PHILLIPS	Central Station, HAYMARKET, NSW 2000	Issued	18/12/2015	Protection of the Environment Operations Act 1997 - 145(1)	Deposit litter (lit cigarette) excluding from vehicle - Individual	16/12/2015	Premise Match	670m	East
2	3173529820	Penalty Notice	LAING O'ROURKE AUSTRALIA CONSTRUCTION PTY LTD	HAYMARKET, NSW 2000	Issued	10/12/2020	Protection of the Environment Operations Act 1997 - 64(1)	Contravene condition of licence - Corporation	19/03/2020	Premise Match	670m	East
3	3173530755	Penalty Notice	SYDNEY TRAINS	SYDNEY TRAINS, HAYMARKET, NSW 1238	Issued	10/11/2021	Protection of the Environment Operations Act 1997 - 64(1)	Contravene condition of licence - Corporation	31/05/2021	Network of Features	687m	South East

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

Waste Management & Liquid Fuel Facilities

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Legend	
Site Boundary	Waste Management Facilities
Buffer 1000m	National Liquid Fuel Facilities
Property Boundary	
Scale: 0 100 200 400 600 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2024
472	
Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024

Waste Management & Liquid Fuel Facilities

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

National Waste Management Facilities Database

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

Map ID	Owner	Name	Address	Management Type	Facility Type	Status	Loc Conf	Dist	Dir
1	COLES	COLES SUPERMARKET	1-21 BAY STREET, GLEBE	DROP-OFF	SOFT PLASTICS DROP-OFF FACILITY	OPERATIONAL	Premise Match	54m	West

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

National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
6232	COLES EXPRESS	COLES EXPRESS ULTIMO	387 427 WATTLE STREET	ULTIMO	PETROL STATION	OPERATIONAL			Premise Match	152m	North East
5746	BUDGET	BUDGET PETROL CHIPPENDALE	66-70 REGENT STREET	CHIPPENDALE	PETROL STATION	OPERATIONAL			Premise Match	706m	South East

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

PFAS Investigation & Management Programs

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

EPA PFAS Investigation Program

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

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

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation Program

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

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

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

Defence PFAS Management Program

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

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

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

Airservices Australia National PFAS Management Program

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

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites and Unexploded Ordnance

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Defence Controlled Areas (DCA)

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

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

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

Defence 3 Year Regional Contamination Investigation Program (RCIP)

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

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

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

National Unexploded Ordnance (UXO)

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

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

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

EPA Other Sites with Contamination Issues

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

EPA Other Sites with Contamination Issues

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

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

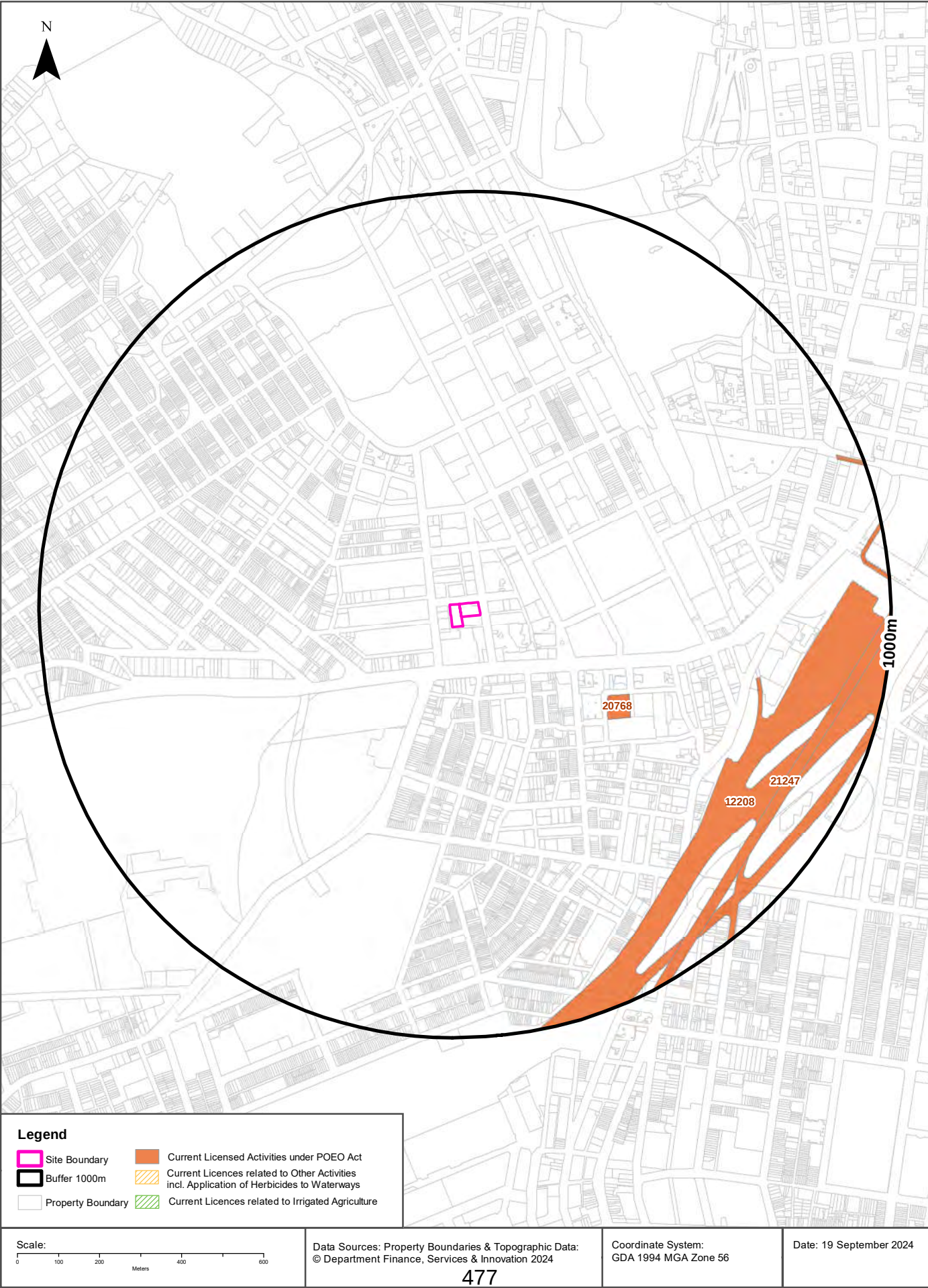
Sites within the dataset buffer:

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

EPA Other Sites with Contamination Issues: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



EPA Activities

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Licensed Activities under the POEO Act 1997

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

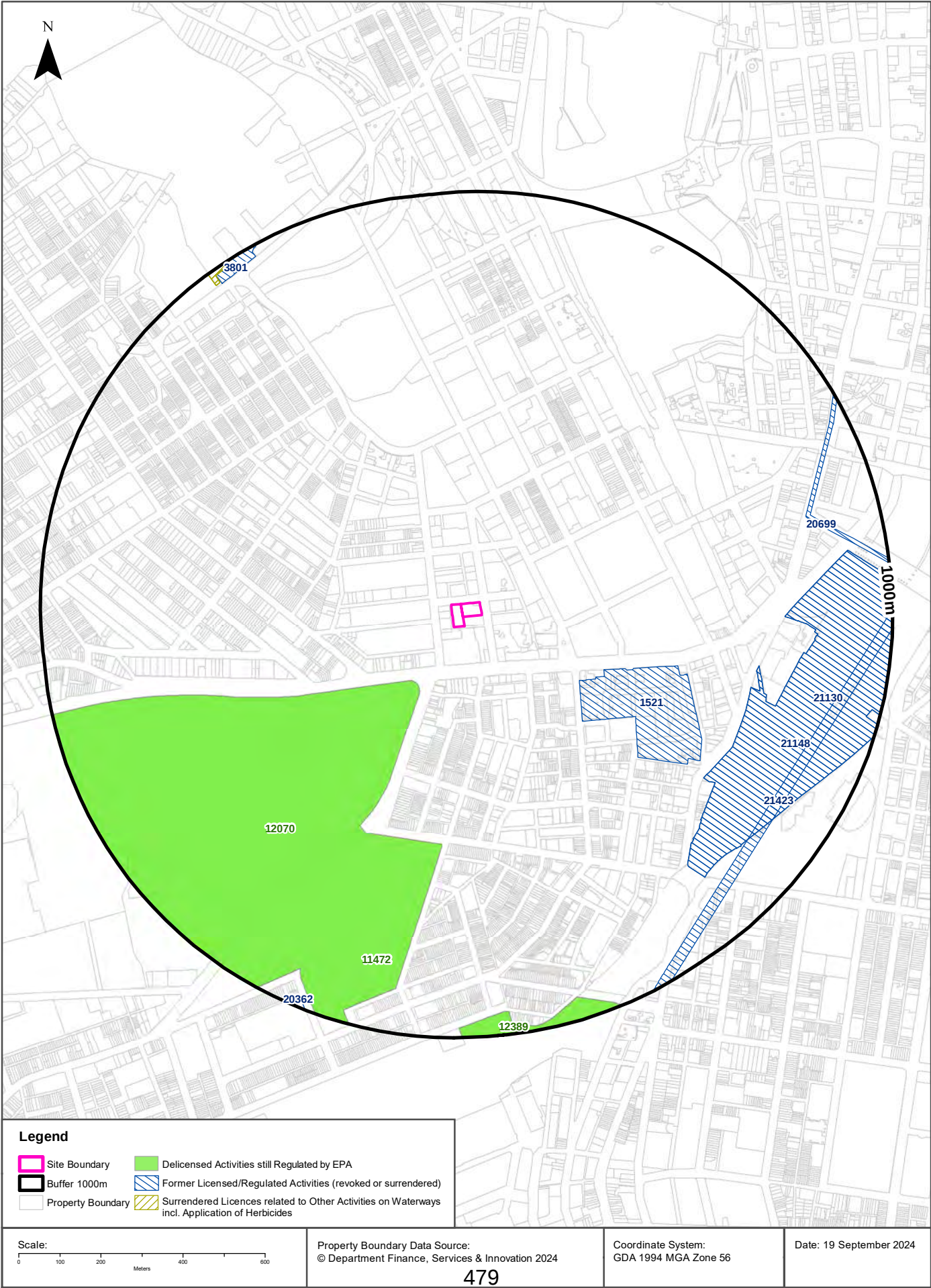
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
20768	CPE CENTRAL PARK PTY LTD		3 CENTRAL PARK AVENUE, CHIPPENDALE, NSW 2008		Generation of electrical power from gas	Premise Match	368m	South East
12208	SYDNEY TRAINS		SYDNEY TRAINS, HAYMARKET, NSW 1238		Railway systems activities	Network of Features	687m	South East
21247	Metro Trains Sydney Pty Ltd		SYDNEY METRO, ROUSE HILL, NSW 2155		Railway systems activities	Network of Features	839m	South East

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



EPA Activities

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

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
12070	THE UNIVERSITY OF SYDNEY	The University of Sydney	Camperdown & Darlington Campuses	SYDNEY UNIVERSITY	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	164m	South West
11472	INTEC LTD	INTEC LTD	Room 427, Building J01, Maze Crescent, the University of Sydney	DARLINGTON	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	808m	South
12389	RAIL CORPORATION NEW SOUTH WALES	Xplorer Service Centre	Henderson Road (off)	EVELEIGH	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	941m	South

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:

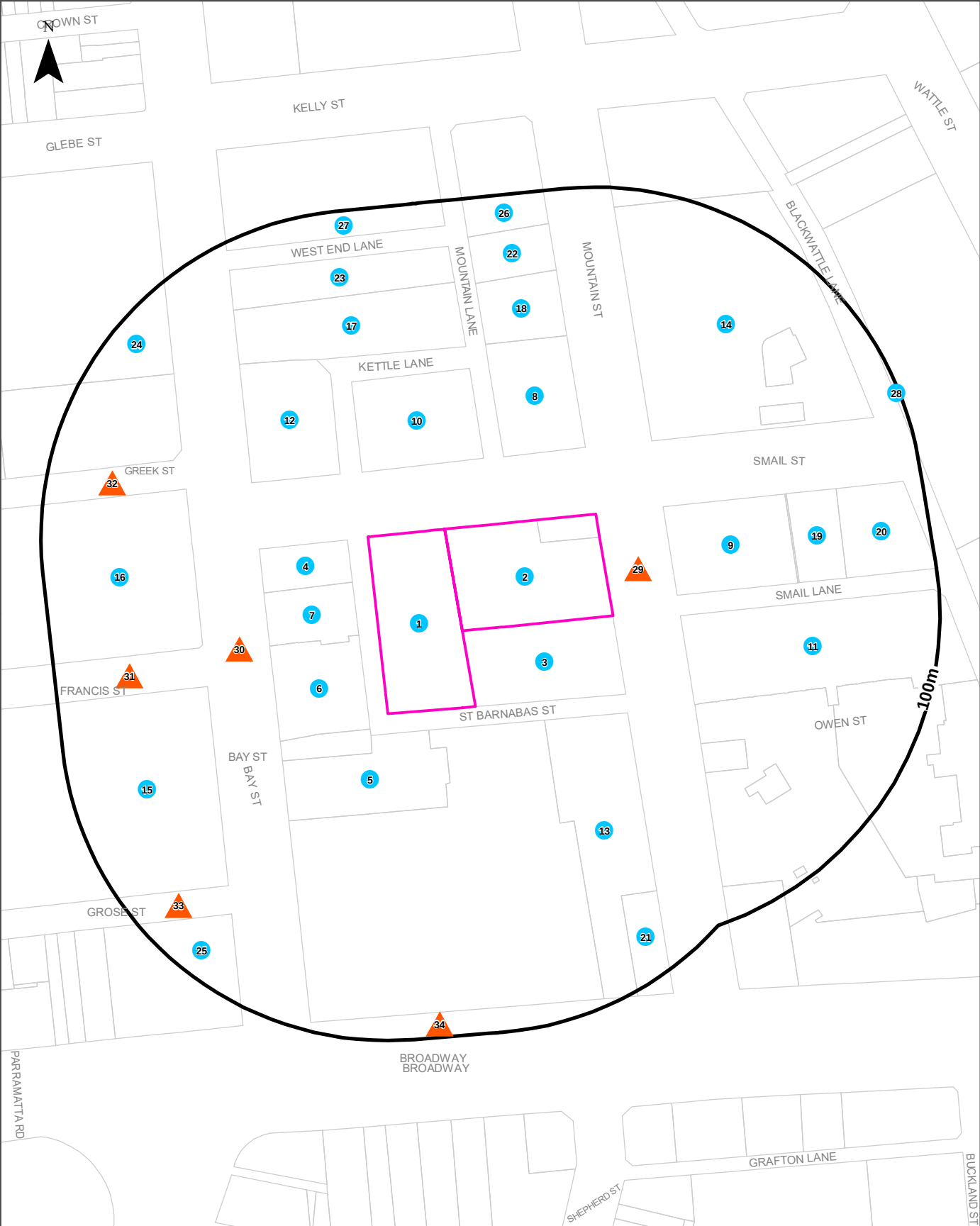
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
1521	CARLTON & UNITED BREWERIES (N S W) PTY LTD	26-98 BROADWAY, SYDNEY, NSW 2000	Surrendered	24/03/2000	Brewing and distilling, Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	286m	South East
21130	DOWNER EDI WORKS PTY LTD	, Parts of Lot 118 DP1078271 and Lot 103 DP1188890, SYDNEY, NSW 2000,	Surrendered	10/10/2018	Railway systems activities	Premise Match	670m	East
21148	Laing O'Rourke Australia Construction Pty Ltd	HAYMARKET, NSW 2000,	Surrendered	28/11/2018	Railway systems activities	Premise Match	670m	East
20699	ACCIONA INFRASTRUCTURE AUSTRALIA PTY LTD	CBD and South East Light Rail, CBD and South East Light Rail Alignment and Ancillary Sites, SYDNEY	Surrendered	08/04/2016	Land-based extractive activity	Network of Features	821m	East
21423	CPB CONTRACTORS PTY LIMITED	BETWEEN CHATSWOOD DIVE SITE AND SYDENHAM DIVE SITE, SYDNEY, NSW 2000,	Surrendered	31/07/2020	Railway infrastructure construction (<50,000T)	Network of Features	839m	South East
3801	HANSON CONSTRUCTION MATERIALS PTY LTD	HANSON CONSTRUCTION MATERIALS PTY LTD, BRIDGE ROAD, GLEBE	Surrendered	09/12/1999	Shipping in bulk	Premise Match	962m	North West
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	966m	North West

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
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	966m	North West
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	966m	North West
20362	JOHN HOLLAND PTY LTD	University of Sydney Darlington Campus, Corner Codrington and Abercrombie Streets, DARLINGTON	Surrendered	20/01/2014	Land-based extractive activity	Premise Match	973m	South West

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

Historical Business Directories

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Legend		Scale: 0 20 40 60 80 Meters	Coordinate System: GDA 1994 MGA Zone 56
Site Boundary	Business directory records mapped to a specific premise		Date: 19 September 2024
Buffer 100m	Business directory records mapped to a road intersection	Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018	
Property Boundary	Business directory records mapped to a road corridor	482	
Business directory records mapped to a general area			

Historical Business Directories

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	Gift Shop Supplies Mfrs &/or W/salers	Davmac International., 3 Smail St., Broadway. 2007	47618	1991	Premise Match	0m	On-site
	Gift Shop Supplies Mfrs &/or W/salers	Davmac International., 3 Smail St., Broadway. 2007	47619	1991	Premise Match	0m	On-site
	Gift Shop Supplies Mfrs &/or W/salers	Gempo Giftware Pty. Ltd., 3 Smail St., Broadway. 2007	47624	1991	Premise Match	0m	On-site
	Gift Shop Supplies Mfrs &/or W/salers	Webb Distributors (Universal) Pty. Ltd., 3 Smail St., Broadway. 2007	47658	1991	Premise Match	0m	On-site
	PUBLISHERS.	Associated Business Publications, 104/3 Smail St., Broadway. 2007	78171	1986	Premise Match	0m	On-site
	ELEVATOR MFRS. &/OR INSTALLERS &/OR MAINTENANCE.	Elevators Pty. Ltd., 3 Smail St., Broadway. 2007	28289	1986	Premise Match	0m	On-site
	IMPORTERS.	Garak Trading Co., 3 Smail St., Ultimo. 2007	47640	1986	Premise Match	0m	On-site
	IMPORTERS.	Hall, R. M. Pty. Ltd., 3 Smail St., Broadway. 2007	47664	1986	Premise Match	0m	On-site
	IMPORTERS.	John Down Agencies, 3 Smail St., Broadway. 2007	47719	1986	Premise Match	0m	On-site
	TYPESETTING SPECIALISTS.	Macabar Pty. Ltd., 3 Smail St., Broadway. 2007	96109	1986	Premise Match	0m	On-site
	HOBBY &/OR HANDICRAFT SUPPLIES.	Semco Pty. Ltd., 1st Fl., 3 Smail St., Broadway. 2007	46002	1986	Premise Match	0m	On-site
	GLASSWARE, CRYSTALWARE, IMPS. &/OR MFRS. &/OR W/SALERS.	Speering International, 402/3 Smail St., Broadway. 2007	39945	1986	Premise Match	0m	On-site
	KITCHENWARE - WHOLESALERS	Speering International, 402/3 Smail St., Broadway. 2007	50636	1986	Premise Match	0m	On-site
	SILVERWARE MFRS. &/OR IMPS. &/OR W/SALERS.	Speering International, 402/3 Smail St., Broadway. 2007	86931	1986	Premise Match	0m	On-site
	TOY IMPS. &/OR W/SALERS.	Speering International, 402/3 Smail St., Broadway. 2007	94662	1986	Premise Match	0m	On-site
	KITCHENWARE - WHOLESALERS	Vandelo (Aust) Pty. Ltd., 105/3 Smail St., Broadway. 2007	50637	1986	Premise Match	0m	On-site
	GLASSWARE, CRYSTALWARE, IMPS. &/OR MFRS. &/OR W/SALERS.	Whitmont, J. Pty Ltd., 3 Smail St., Broadway. 2007	39950	1986	Premise Match	0m	On-site
	KITCHENWARE &/OR HOLLOWWARE MFRS. &/OR DIST.	Whitmont, J. Pty. Ltd., 3 Smail St., Broadway. 2007	50602	1986	Premise Match	0m	On-site
	IMPORTERS. (I0750)	Eagle Import Co., 3 Smail St., Broadway. 2007.	41526	1982	Premise Match	0m	On-site
	ELEVATOR MAINTENANCE SPECIALISTS. (E5160)	Elevators Pty. Ltd., 3 Smail St., Broadway. 2007.	26440	1982	Premise Match	0m	On-site
	ELEVATOR MFRS. &/OR INSTALLERS. (E5190)	Elevators Pty. Ltd., 3 Smail St., Broadway. 2007.	26454	1982	Premise Match	0m	On-site
	ARTISTS - COMMERCIAL &INDUSTRIAL. (A7385)	Monogram Art Service, 3 Smail St., Ultimo 2007.	3462	1982	Premise Match	0m	On-site
	TYPESETTERS - TRADE. (T8500)	Monogram Art Service, 3 Smail St., Ultimo. 2007.	82435	1982	Premise Match	0m	On-site
	HOBBY &/OR HANDICRAFT SUPPLIES. (H4250)	Semco Pty. Ltd., 1st. Fl, 3 Smail St., Broadway. 2007.	40190	1982	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	GLASSWARE, CRYSTALWARE, IMPS. &/OR MFRS. &/OR W/SALERS. (G4540)	Whitmont, J. Pty. Ltd., 3 Smail St., Broadway. 2007.	36917	1982	Premise Match	0m	On-site
	KITCHENWARE &/OR HOLLOWARE MFRS. &/OR DISTS. (K0550)	Whitmont, J. Pty. Ltd., 3 Smail St., Broadway. 2007.	44331	1982	Premise Match	0m	On-site
	IMPORTERS.	Biggs. M. & Sons Pty. Ltd., 3 Smail St., Broadway. 2007	36737	1978	Premise Match	0m	On-site
	CARPET &/OR FLOOR COVERING IMPS &/OR W/SALERS.	Bond-Worth (Aust.) Pty. Ltd., 3 Smail St., Broadway. 2007	11396	1978	Premise Match	0m	On-site
	CARPET &/OR FLOOR COVERING MFRS. &/OR IMPS. &/OR DISTS.	Bond-Worth (Aust.) Pty. Ltd., 3 Smail St., Broadway. 2007	11445	1978	Premise Match	0m	On-site
	ELEVATOR MAINTENANCE SPECIALISTS.	Elevators Pty. Ltd., 3 Smail St., Broadway. 2007	23442	1978	Premise Match	0m	On-site
	ELEVATOR MFRS. &/OR INSTALLERS.	Elevators Pty. Ltd., 3 Smail St., Broadway. 2007	23459	1978	Premise Match	0m	On-site
	CLOTHING - FROCKS & SUITS MFRS. &/OR W/SALERS.	Freeman. M. Agencies Pty. Ltd., 3 Smail St., Broadway. 2007	14729	1978	Premise Match	0m	On-site
	ENGINEERS-CONSULTING.	Gibson Engineering (Div. of Baker Perkins Pty. Ltd.), 3 Smail St.	24067	1978	Premise Match	0m	On-site
	FOUNDRY SUPPLIES - MACHINERY MFRS. &/OR IMPS. &/OR DISTS.	Gibson Engineering (Div. of Baker Perkins Pty. Ltd.) 3 Smail St.,	29826	1978	Premise Match	0m	On-site
	ENGINEERS-FOUNDRY.	Gibson Engineering (Div. of Baker Perkins Pty. Ltd.), 3 Smail St.,	24771	1978	Premise Match	0m	On-site
	HOBBY &/OR HANDICRAFT SUPPLIES.	Semco Pty. Ltd., 1st Fl., 3 Smail St, Broadway. 2007	35663	1978	Premise Match	0m	On-site
	GLASSWARE, CRYSTALWARE IMPS. &/OR MFRS. &/OR W/SALERS.	Whitmont, J. Pty. Ltd., 3 Smail St., Broadway. 2007	33187	1978	Premise Match	0m	On-site
	KITCHENWARE &/OR HOLLOWARE MFRS. &/OR DISTS.	Whitmont, J. Pty. Ltd., 3 Smail St., Broadway. 2007	39346	1978	Premise Match	0m	On-site
	TOY IMPS. &/OR W/SALERS.	Williams, C. Agencies Pty. Ltd, 3 Smail St, Broadway. 2007	71817	1978	Premise Match	0m	On-site
	MANUFACTURERS AGENTS.	Williams, C. Agencies Pty. Ltd., 3 Smail St., Broadway. 2007	41513	1978	Premise Match	0m	On-site
	EXPORTERS.	Bata Shoe Co. of Aust. Pty. Ltd., 3 Smail St., Broadway. 2007	30958	1975	Premise Match	0m	On-site
	IMPORTERS.	Bata Shoe Co. of Aust. Pty. Ltd., 3 Smail St., Broadway. 2007	43501	1975	Premise Match	0m	On-site
	CARPET &/OR FLOOR COVERING MFRS. &/OR IMPS. &/OR DISTS.	Bond-Worth Aust. Pty. Ltd., 3 Smail St., Broadway 2007	13368	1975	Premise Match	0m	On-site
	CARPET &/OR FLOOR COVERING IMPS &/OR W/SALERS.	Bond-Worth Aust. Pty. Ltd., 3 Smail St., Broadway. 2007	13309	1975	Premise Match	0m	On-site
	IMPORTERS.	Briggs. M. & Sons Pty. Ltd., 3 Smail St., Broadway. 2007	43530	1975	Premise Match	0m	On-site
	TYPESETTERS-TRADE	City & Suburban Litho-Typesetters Pty. Ltd., 3 Smail St., Broadway. 2007	85342	1975	Premise Match	0m	On-site
	ELEVATOR MAINTENANCE SPECIALISTS.	Elevators Pty. Ltd., 3 Smail St., Broadway. 2007	27110	1975	Premise Match	0m	On-site
	CLOTHING - FROCKS & SUITS MFRS. &/OR W/SALERS.	Freeman, M. Agencies Pty. Ltd., 3 Smail St., Broadway. 2007	16983	1975	Premise Match	0m	On-site
	POSTER SPECIALISTS.	Koala-Australia Imports Pty. Ltd., 3 Smail St., Broadway. 2007	68919	1975	Premise Match	0m	On-site
	KITCHENWARE &/OR HOLLOWARE MFRS. &/OR DISTS. .	Whitmont J. Pty Ltd., 3 Smail St., Broadway. 2007	46461	1975	Premise Match	0m	On-site
	GLASSWARE, CRYSTALWARE, IMPS &/OR MFRS. &/OR W/SALERS.	Whitmont, J. Pty. Ltd., 3 Smail St., Broadway. 2007.	38576	1975	Premise Match	0m	On-site
	TOY IMPS. &/OR W/SALERS.	Williams, C. Agencies, 3 Smail St., Broadway. 2007	84524	1975	Premise Match	0m	On-site

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1	MANUFACTURERS AGENTS.	Williams, C. Agencies., 3 Smail St., Broadway. 2007.	49055	1975	Premise Match	0m	On-site
2	Gift Shop Supplies Mfrs &/or W/salers	Nationwide Importers of Aust Pty. Ltd., 43 Mountain St., Broadway. 2007	47639	1991	Premise Match	0m	On-site
	FILTER MFRS. &/OR DISTS.	Eliza Tinsley (Aust) Pty. Ltd., 43 Mountain St., Broadway. 2007	32690	1986	Premise Match	0m	On-site
	TAPE - ADHESIVE - MFRS. &/OR IMPS. &/OR DISTS.	Eliza Tinsley (Aust) Pty. Ltd., 43 Mountain St., Broadway. 2007	92078	1986	Premise Match	0m	On-site
	ABRASIVE MERCHANTS.	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St., Broadway. 2007	92	1986	Premise Match	0m	On-site
	ENGINEERS SUPPLIES	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St., Broadway. 2007	31408	1986	Premise Match	0m	On-site
	FILTRATION SUPPLIERS.	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St., Broadway. 2007	32743	1986	Premise Match	0m	On-site
	INSULATING MATERIALS MFRS. &/OR DISTS. &/OR SUPPLIERS.	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St., Broadway. 2007	48588	1986	Premise Match	0m	On-site
	ADHESIVES MFRS. &/OR DISTS.	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St., Broadway.2007	1346	1986	Premise Match	0m	On-site
	ADHESIVES MFRS. &/OR DISTS.(A1110)	Eliza Tinsley (Aust) Pty. Ltd., 43 Mountain St., Broadway. 2007.	1212	1982	Premise Match	0m	On-site
	ASBESTOS CEMENT PRODUCTS MFRS. &/OR DISTS. (A7650)	Eliza Tinsley (Aust) Pty. Ltd., 43 Mountain St., Broadway. 2007.	3557	1982	Premise Match	0m	On-site
	FILTER MFRS. &/OR DISTS. (F1825)	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St, Broadway. 2007.	30531	1982	Premise Match	0m	On-site
	FILTRATION SUPPLIERS. (F1850)	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St, Broadway. 2007.	30578	1982	Premise Match	0m	On-site
	ENGINEERS SUPPLIES. (E8370)	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St, Broadway.2007.	29442	1982	Premise Match	0m	On-site
	ABRASIVE MERCHANTS &/OR DISTS. (A0245)	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St., Broadway. 2007.	92	1982	Premise Match	0m	On-site
	ADHESIVES - TAPE MFRS. &/OR DISTS. (A1230)	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St., Broadway. 2007.	1255	1982	Premise Match	0m	On-site
	INSULATING MATERIALS MFRS.&/OR DISTS. &/OR SUPPLIERS.(I3660)	Eliza Tinsley (Aust.) Pty. Ltd., 43 Mountain St., Broadway. 2007.	42461	1982	Premise Match	0m	On-site
	ASBESTOS MFRS. &/OR SUPPLIERS.	Eliza Tinsley (N.S.W.) Pty. Ltd., 43 Mountain St. Broadway. 2007	3386	1978	Premise Match	0m	On-site
	ADHESIVES-TAPE MFRS. &/OR DISTS.	Eliza Tinsley (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway 2007	1155	1978	Premise Match	0m	On-site
	ABRASIVE MERCHANTS &/OR DISTS.	Eliza Tinsley (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway. 2007	68	1978	Premise Match	0m	On-site
	ADHESIVES MFRS. &/OR DISTS.	Eliza Tinsley (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway. 2007	1116	1978	Premise Match	0m	On-site
	ENGINEERS SUPPLIES	Eliza Tinsley (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway. 2007	26541	1978	Premise Match	0m	On-site
	FILTER MFRS. &/OR DISTS.	Eliza Tinsley (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway. 2007	27610	1978	Premise Match	0m	On-site
	FILTRATION SUPPLIERS.	Eliza Tinsley (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway. 2007	27659	1978	Premise Match	0m	On-site
	INSULATING MATERIALS MFRS. &/OR DISTS. &/OR SUPPLIERS.	Eliza Tinsley (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway. 2007	37803	1978	Premise Match	0m	On-site
	FELT MFRS. &/OR W/SALERS.	Tinsley Eliza (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway. 2007	31401	1975	Premise Match	0m	On-site
	FILTER MFRS. &/OR DISTS.	Tinsley, Eliza (NSW) Pty. Ltd., 43 Mountain St., Broadway 2007	31844	1975	Premise Match	0m	On-site
	ABRASIVE MERCHANTS &/OR DISTS.	Tinsley, Eliza (NSW) Pty. Ltd., 43 Mountain St., Broadway. 2007	82	1975	Premise Match	0m	On-site
	ADHESIVES MFRS. &/OR DISTS.	Tinsley, Eliza (NSW) Pty. Ltd., 43 Mountain St., Broadway. 2007	877	1975	Premise Match	0m	On-site
	ASBESTOS CLOTH SUPPLIERS.	Tinsley, Eliza (NSW) Pty. Ltd., 43 Mountain St., Broadway. 2007	3100	1975	Premise Match	0m	On-site
	FILTRATION SUPPLIERS.	Tinsley, Eliza (NSW) Pty. Ltd., 43 Mountain St., Broadway. 2007	31872	1975	Premise Match	0m	On-site

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2	WELDING EQUIPMENT &/OR SUPPLIES MFRS. &/OR DIST.	Tinsley, Eliza (NSW) Pty. Ltd., 43 Mountain St., Broadway. 2007	87233	1975	Premise Match	0m	On-site
	ASBESTOS MFRS. &/OR SUPPLIERS.	Tinsley, Eliza (NSW) Pty. Ltd., 43 Mountain St., Broadway. 2007	3109	1975	Premise Match	0m	On-site
	INSULATING MATERIALS MFRS. &/OR DIST. &/OR SUPPLIERS.	Tinsley, Eliza (NSW) Pty. Ltd., 43 Mountain St., Broadway. 2007	44745	1975	Premise Match	0m	On-site
	ASBESTOS CLOTH SUPPLIERS (A555)	Tinsley, Eliza (N.S.W.) Pty. Ltd, 43 Mountain St., Broadway	262538	1970	Premise Match	0m	On-site
	FELT MFRS./W'SALERS (F085)	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway	302208	1970	Premise Match	0m	On-site
	WELDING EQUIPMENT & SUPPLIES MFRS. &/OR DIST	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43 Mountain St., Broadway	374154	1970	Premise Match	0m	On-site
	ASBESTOS MFRS. &/OR SUPPLIERS (A570)	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St, Broadway	262553	1970	Premise Match	0m	On-site
	ABRASIVE DISTRIBUTORS &/OR MERCHANTS (A020)	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	258403	1970	Premise Match	0m	On-site
	ADHESIVE DISTRIBUTORS &/OR WHOLESALERS (A115)	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	259696	1970	Premise Match	0m	On-site
	FILTRATION SUPPLIERS (F175)	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	302809	1970	Premise Match	0m	On-site
	INSULATING MATERIAL SUPPLIERS(I480)	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	319884	1970	Premise Match	0m	On-site
	Asbestos Mfrs. &/or Suppliers	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	47158	1965	Premise Match	0m	On-site
	ABRASIVE DISTRIBUTORS &/OR MERCHANTS	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	43311	1965	Premise Match	0m	On-site
	Adhesive Distributors &/or Wholesalers	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	44579	1965	Premise Match	0m	On-site
	Filtration Suppliers	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	86182	1965	Premise Match	0m	On-site
	Insulating Material Suppliers	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	104027	1965	Premise Match	0m	On-site
	Leather/Grindery Merch.	Tinsley, Eliza Pty. Ltd., 43 Mountain St., Broadway	107448	1965	Premise Match	0m	On-site
	FILTRATION SUPPLIERS	Tinsley Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	310424	1961	Premise Match	0m	On-site
	ABRASIVE DISTRIBUTORS &/OR MERCHANTS	Tinsley Eliza (NSW) Pty Ltd 43-49 Mountain St., Broadway	264515	1961	Premise Match	0m	On-site
	ABRASIVE DISTRIBUTORS &/OR MERCHANTS	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	264516	1961	Premise Match	0m	On-site
	FILTRATION SUPPLIERS	Tinsley, Eliza (N.S.W.) Pty. Ltd., 43-49 Mountain St., Broadway	310425	1961	Premise Match	0m	On-site
	MOTOR BODY BUILDERS' SUPPLIES	Tinsley, Eliza Pty. Ltd., 43 Mountain St., Broadway	344262	1961	Premise Match	0m	On-site
	FRAME MANUFACTURERS	Connolly J. Ltd. (Steel, Aluminium and Bronze), 43-49 Mountain St., Broadway	48016	1950	Premise Match	0m	On-site
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Connolly, J. Ltd., 43 Mountain St., Broadway	40584	1950	Premise Match	0m	On-site
	METAL WINDOW FRAME MANUFACTURERS	Connolly, J. Ltd., 43 Mountain St., Broadway	76128	1950	Premise Match	0m	On-site
	METAL WORKERS-GENERAL	Connolly, J. Ltd., 43 Mountain St., Broadway	76140	1950	Premise Match	0m	On-site
	TOOL MAKERS	Connolly, J. Ltd., 43 Mountain St., Broadway	109093	1950	Premise Match	0m	On-site
	VICE MANUFACTURERS	Connolly, J. Ltd., 43 Mountain St., Broadway	112000	1950	Premise Match	0m	On-site
	WINDOW FRAME MANUFACTURERS	Connolly, J. Ltd., 43 Mountain St., Broadway	113437	1950	Premise Match	0m	On-site
	SAFES & STRONGROOM DOOR MANUFACTURERS	Connolly, J. Ltd., 43-49 Mountain St., Broadway	100126	1950	Premise Match	0m	On-site
	STEEL WINDOW FRAME MANUFACTURERS	Connolly, J. Pty. Ltd., 43 Mountain St., Broadway	105328	1950	Premise Match	0m	On-site
3	EXPORTERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St. Broadway. 2007	27015	1978	Premise Match	0m	South East

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3	CARPET &/OR FLOOR COVERING IMPS &/OR W/SALERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	11432	1978	Premise Match	0m	South East
	CONDIMENT MFRS. & DIST.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	16051	1978	Premise Match	0m	South East
	FISH IMPORTERS &/OR DIST.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	27947	1978	Premise Match	0m	South East
	FOOD EXPORTERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	28823	1978	Premise Match	0m	South East
	FOOD IMPORTERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	28921	1978	Premise Match	0m	South East
	IMPORTERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	37181	1978	Premise Match	0m	South East
	PRODUCE MERCHANTS-WHOLESALE.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	59971	1978	Premise Match	0m	South East
	CARPET &/OR FLOOR COVERING IMPS &/OR W/SALERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	13351	1975	Premise Match	0m	South East
	COFFEE IMP. ROASTER &/OR MERCHANTS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	18221	1975	Premise Match	0m	South East
	CONDIMENT MFRS. & DIST.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	18616	1975	Premise Match	0m	South East
	EXPORTERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	31190	1975	Premise Match	0m	South East
	FISH IMPORTERS &/OR DIST.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	32239	1975	Premise Match	0m	South East
	FOOD EXPORTERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	33381	1975	Premise Match	0m	South East
	FOOD IMPORTERS	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	33511	1975	Premise Match	0m	South East
	IMPORTERS.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	43998	1975	Premise Match	0m	South East
	PRODUCE MERCHANTS., W/SALE.	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway. 2007	70471	1975	Premise Match	0m	South East
	CARPET & FLOOR COVERING IMPS. &/OR WHOLESALERS (C123)	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway	277611	1970	Premise Match	0m	South East
	CONDIMENT MFRS. &/OR DIST.(C611)	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway	285349	1970	Premise Match	0m	South East
	PRODUCE MERCH.-W/SALE (P858)	Waters Trading Co. Pty. Ltd., 51 Mountain St., Broadway	352926	1970	Premise Match	0m	South East
	EXPORTERS (E835)	Waters Trading Co. Pty. Ltd., 51-55 Mountain St., Broadway	301906	1970	Premise Match	0m	South East
	FISH IMPORTS/EXPORTS &/OR DIST.(F240)	Waters Trading Co. Pty. Ltd., 51-55 Mountain St., Broadway	303261	1970	Premise Match	0m	South East
	FOOD EXPORTERS (F400)	Waters Trading Co. Pty. Ltd., 51-55 Mountain St., Broadway	304802	1970	Premise Match	0m	South East
	FOOD IMPORTERS (F405)	Waters Trading Co. Pty. Ltd., 51-55 Mountain St., Broadway	304876	1970	Premise Match	0m	South East
	IMPORTERS (I200)	Waters Trading Co. Pty. Ltd., 51-55 Mountain St., Broadway	318849	1970	Premise Match	0m	South East
	Condiment Mfrs. &/or Dist.	Waters Trading Co. Pty. Ltd., 51 Mountain St.	70021	1965	Premise Match	0m	South East
	Exporters	Waters Trading Co. Pty. Ltd., 51 Mountain St.	85275	1965	Premise Match	0m	South East
	Importers	Waters Trading Co. Pty. Ltd., 51 Mountain St.	103051	1965	Premise Match	0m	South East
	Merchants/Importers	Waters Trading Co. Pty. Ltd., 51 Mountain St.	114011	1965	Premise Match	0m	South East
	Produce Merch. - W/Sale	Waters Trading Co. Pty. Ltd., 51 Mountain St.	136970	1965	Premise Match	0m	South East
	Carpet & Floor Covering Imps. &/Wholesalers	Waters Trading Co. Pty. Ltd., 51-55 Mountain St.	62374	1965	Premise Match	0m	South East
	Fish Imports. &/or Dist.	Waters Trading Co. Pty. Ltd., 51-55 Mountain St.	86629	1965	Premise Match	0m	South East
	Millers/Gristers	Waters Trading Co. Pty. Ltd., 51-55 Mountain St.	115972	1965	Premise Match	0m	South East

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3	TEXTILE WHOLESALERS	Waters Traders Co. Ltd., 51-55 Mountain St., Broadway	108189	1950	Premise Match	0m	South East
	MILLERS & GRISTERS	Waters Trading Co. Ltd. (Rice), 51 Mountain St., Broadway	78347	1950	Premise Match	0m	South East
	MANUFACTURERS' AGENTS	Waters Trading Co. Ltd., 51 Mountain St., Broadway	71911	1950	Premise Match	0m	South East
	EXPORTERS	Waters Trading Co. Ltd., 51-55 Mountain St.	43187	1950	Premise Match	0m	South East
	BARLEY & PEA MILLERS	Waters Trading Co. Ltd., 51-55 Mountain St., Broadway	6060	1950	Premise Match	0m	South East
	CARPET & FLOOR COVERING IMPORTERS &/OR WHOLESALERS	Waters Trading Co. Ltd., 51-55 Mountain St., Broadway	18100	1950	Premise Match	0m	South East
	FOOD IMPORTERS	Waters Trading Co. Ltd., 51-55 Mountain St., Broadway	46487	1950	Premise Match	0m	South East
	FURNISHINGS-SOFT-MANUFACTURERS &/OR WHOLESALERS	Waters Trading Co. Ltd., 51-55 Mountain St., Broadway	52227	1950	Premise Match	0m	South East
	IMPORTERS	Waters Trading Co. Ltd., 51-55 Mountain St., Broadway	64064	1950	Premise Match	0m	South East
	PRODUCE MERCHANTS-WHOLESALE	Waters Trading Co. Ltd., 51-55 Mountain St., Broadway	95899	1950	Premise Match	0m	South East
	FOOD MANUFACTURERS-CEREAL	Waters Trading Co., 51 Mountain St., Broadway	46505	1950	Premise Match	0m	South East
	MERCHANTS & IMPORTERS	Waters Trading Co., 51 Mountain St., Broadway	75710	1950	Premise Match	0m	South East
4	Exporters	Jack Y M & Co Pty Ltd, 66 Bay St., Broadway 2007	45133	1991	Premise Match	6m	West
	FURNITURE-GENERAL-MFRS. &/OR W/SALERS.	Jack, Y M & Co Pty Ltd., 66 Bay St., Broadway 2007	37498	1986	Premise Match	6m	West
	EXPORTERS.	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007	31755	1986	Premise Match	6m	West
	IMPORTERS.	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007	47713	1986	Premise Match	6m	West
	FURNITURE-CANE &/OR WICKER-MFRS. &/OR DIST.	Jack., Y M & Co Pty Ltd., 66 Bay St., Broadway 2007	36869	1986	Premise Match	6m	West
	EXPORTERS. (E9270)	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007	29782	1982	Premise Match	6m	West
	FURNITURE-CANE &/OR WICKER MFRS. &/OR DIST. (F7375)	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007.	34438	1982	Premise Match	6m	West
	FURNITURE-GENERAL-MFRS.&/OR W/SALERS. (F7675)	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007.	35030	1982	Premise Match	6m	West
	IMPORTERS. (I0750)	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007.	41617	1982	Premise Match	6m	West
	TRANSISTOR MFRS. &/OR DIST.	Australian General Electric Ltd, 66 Bay St, Ultimo. 2007	72133	1978	Premise Match	6m	West
	IMPORTERS.	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007	36950	1978	Premise Match	6m	West
	FURNITURE-GENERAL-MFRS. &/OR W/SALERS.	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007	31617	1978	Premise Match	6m	West
	EXPORTERS.	Jack, Y.M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007	26902	1978	Premise Match	6m	West
	STEAM TURBINE MFRS.	Australian General Electric Ltd, 66 Bay St, Ultimo 2007	80382	1975	Premise Match	6m	West
	INSTRUMENTS ELECTIC MFRS. &/OR DIST.	Australian General Electric Ltd., 66 Bay St, Ultimo. 2007	44337	1975	Premise Match	6m	West
	METER &/OR METER EQUIPMENT MFRS. &/OR IMPS. &/OR DIST.	Australian General Electric Ltd., 66 Bay St., Ultimo. 2007	53111	1975	Premise Match	6m	West
	CONCRETE ADDITIVES-COLOURING-WATER PROFING ETC.MFRS &/OR DIST	Hodgsons Dye Agencies Pty. Ltd., 66 Bay St., Broadway. 2007	18318	1975	Premise Match	6m	West
	FURNITURE-GENERAL-MFRS. &/OR W/SALERS.	Jack, Y. M. & Co. Pty. Ltd., 66 Bay St., Broadway. 2007	36729	1975	Premise Match	6m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
4	DUST COLLECTION EQUIPMENT MANUFACTURERS (D800)	Van Gelder, J. P. & Co Pty. Ltd., 66 Bay St., Broadway	292867	1970	Premise Match	6m	West
	CRUSHING MACHINE MFRS. &/OR DISTRIBUTORS (C765)	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	286427	1970	Premise Match	6m	West
	ELECTRONICS-INDUSTRIAL CONTROL EQUIPMENT MFRS.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	296540	1970	Premise Match	6m	West
	ENGINEERS-GENERAL &/OR MFRG.&/OR MECHANICAL (E615)	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	299726	1970	Premise Match	6m	West
	ENGINEERS-MINING (E685)	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	300280	1970	Premise Match	6m	West
	GRINDING/PULVERISING MACHINERY MANUFACTURERS (G645)	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	312122	1970	Premise Match	6m	West
	MACHINERY MFRS. (M035)	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	324347	1970	Premise Match	6m	West
	PACKING MACHINERY MFRS. & DISTRIBUTORS	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	345884	1970	Premise Match	6m	West
	SCALE & WEIGHING MACHINE MFRS., DIST. &/OR IMPORTS.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	359412	1970	Premise Match	6m	West
	FLOUR MILLING MACHINERY MFRS. &/OR DIST.(F360)	Van Gelder, J.P.& Co. Pty. Ltd., 66 Bay St., Broadway	304562	1970	Premise Match	6m	West
	Electronics - Industrial Control Equipment Mfrs.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	80120	1965	Premise Match	6m	West
	Dust Collection Equipment Manufacturers	Van Gelder, J. P. & Co Pty. Ltd., 66 Bay St., Broadway	76652	1965	Premise Match	6m	West
	Air Conditioning Units & Machinery Mfrs.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	45716	1965	Premise Match	6m	West
	Crushing Machine Mfrs. &/or Distributors	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	71175	1965	Premise Match	6m	West
	Engineers - Mining	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	83486	1965	Premise Match	6m	West
	Engineers General &/or Mfrg. &/or Mechanical	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	82975	1965	Premise Match	6m	West
	Flour Milling Machinery Mfrs. &/or Dists.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	87943	1965	Premise Match	6m	West
	Machinery Manufacturers	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	108760	1965	Premise Match	6m	West
	Packing Machinery Mfrs./Distributors	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	130380	1965	Premise Match	6m	West
	Scale & Weighing Machine Mfrs. Dists. &/or Imports.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	142640	1965	Premise Match	6m	West
	Engineers - Electrical	Van Gelder, J.P. P. Co. Pty. Ltd., 66 Bay St., Broadway	81598	1965	Premise Match	6m	West
	Scale/Weighing Machine Hirers	Wedderburn, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	142612	1965	Premise Match	6m	West
	DUST COLLECTION EQUIPMENT MANUFACTURERS	Van Gelder J P & Co Pty Ltd 66 Bay St., Broadway	299585	1961	Premise Match	6m	West
	ENGINEERS-GENERAL/MFRG./MECHANICAL	Van Gelder J P & Co Pty Ltd 66 Bay St., Broadway	307158	1961	Premise Match	6m	West
	GRINDING/PULVERISING MACHINERY MANUFACTURERS	Van Gelder J P & Co Pty Ltd 66 Bay St., Broadway	320035	1961	Premise Match	6m	West
	MILLING ENGINEERS	Van Gelder J P & Co Pty Ltd 66 Bay St., Broadway	340187	1961	Premise Match	6m	West
	PACKING MACHINERY MFRS./DISTRIBUTORS	Van Gelder J P & Co Pty Ltd 66 Bay St., Broadway	355391	1961	Premise Match	6m	West
	CRUSHING MACHINE MFRS. &/OR DISTRIBUTORS	Van Gelder J P & Go Pty Ltd 66 Bay St., Broadway	293847	1961	Premise Match	6m	West
	MACHINERY MFRS.	Van Gelder J P & Go Pty Ltd 66 Bay St., Broadway	332716	1961	Premise Match	6m	West
	SCALE & WEIGHING MACHINE MFRS., DIST. &/OR IMPORTS.	Van Gelder J P & Go Pty Ltd 66 Bay St., Broadway	248131	1961	Premise Match	6m	West

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4	ELECTRONICS-INDUSTRIAL CONTROL EQUIPMENT MFRS.	Van Gelder, J. P. & Co Pty. Ltd., 66 Bay St., Broadway	303803	1961	Premise Match	6m	West
	CRUSHING MACHINE MFRS. &/OR DISTRIBUTORS	Van Gelder, J. p. & Co. Pty. Ltd., 66 Bay St., Broadway	293848	1961	Premise Match	6m	West
	DUST COLLECTION EQUIPMENT MANUFACTURERS	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	299586	1961	Premise Match	6m	West
	ENGINEERS-FLOUR MILLING	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	306014	1961	Premise Match	6m	West
	ENGINEERS-GENERAL/MFRG./MECHANICAL	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	307159	1961	Premise Match	6m	West
	FLOUR MILLING MACHINERY MFRS. &/OR DIST.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	312180	1961	Premise Match	6m	West
	GRINDING/PULVERISING MACHINERY MANUFACTURERS	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	320036	1961	Premise Match	6m	West
	MACHINERY MFRS.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	332717	1961	Premise Match	6m	West
	SCALE & WEIGHING MACHINE MFRS., DIST. &/OR IMPORTS.	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	248132	1961	Premise Match	6m	West
	PACKING MACHINERY MFRS./DISTRIBUTORS	Van Gelder, J. P. & Co. Pty. Ltd., 66 Bay St., Broadway	355392	1961	Premise Match	6m	West
	GRINDING & PULVERISING MACHINERY MFRS.	Van Gelder, J. P. and Co. Ltd., 66 Bay St.	55262	1950	Premise Match	6m	West
	PACKING MACHINERY MANUFACTURERS &/OR DISTRIBUTORS	Van Gelder, J. P. and Co. Ltd., 66 Bay St.	90551	1950	Premise Match	6m	West
	ENGINEERS-FLOUR MILLING	Van Gelder, J. P. and Co. Pty. Ltd., 66 Bay St.	40308	1950	Premise Match	6m	West
	DUST COLLECTION EQUIPMENT MFRS.	Van Gelder, J. P. and Co. Pty. Ltd., 66 Bay St., Broadway	36014	1950	Premise Match	6m	West
	FLOUR MILLING MACHINERY	Van Gelder, J. P. and Co. Pty. Ltd., 66 Bay St., Broadway	46358	1950	Premise Match	6m	West
	MACHINERY MANUFACTURERS	Van Gelder, J. P. and Co. Pty. Ltd., 66 Bay St., Glebe	69996	1950	Premise Match	6m	West
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Van Gelder, J. P. and Co. Pty. Ltd., 66 Bay St., Glebe	41370	1950	Premise Match	6m	West
5	ELECTRICAL SUPPLIES &/OR APPLIANCES - MFRS. (E3780)	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007.	25628	1982	Premise Match	6m	South West
	ELECTRONIC EQUIPMENT MFRS.&/OR DIST. (E4770)	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007.	26124	1982	Premise Match	6m	South West
	ENGINEERS - ELECTRICAL. (E6780)	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007.	27257	1982	Premise Match	6m	South West
	TRANSFORMER &/OR TRANSFORMER EQUIPMENT MFRS.&/OR IMPS. &/OR DIST. (T7160)	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007.	81599	1982	Premise Match	6m	South West
	TRANSISTOR MFRS. &/OR DIST.(T7175)	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007.	81635	1982	Premise Match	6m	South West
	X-RAY & ELECTRO MEDICAL APPARATUS MFRS. &/OR DIST.(X0200)	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007.	85523	1982	Premise Match	6m	South West
	DATA PROCESSING EQUIPMENT MFRS. &/OR DIST. &/OR HIRERS.(D1050)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	19007	1982	Premise Match	6m	South West
	DIAMONDS-INDUSTRIAL-SUPPLIERS. (D2650)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	21363	1982	Premise Match	6m	South West
	ELECTRIC GENERATING EQUIPMENT MFRS. &/OR IMPS.&/OR DIST. (E1560)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	24722	1982	Premise Match	6m	South West
	ELECTRIC LAMP (BED, DESK, STANDARD ETC.) MFRS &/OR DIST. (E1830)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	24751	1982	Premise Match	6m	South West
	ELECTRIC LIGHT FITTINGS (SHADES. BRACKETS, ETC) MFRS.&/OR DIST. (E1980)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	24791	1982	Premise Match	6m	South West

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5	ELECTRIC MOTOR MFRS. &/OR DISTS. (E2370)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	25010	1982	Premise Match	6m	South West
	ELECTRONIC INDUSTRIAL CONTROL EQUIPMENT MFRS. (E4792)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	26273	1982	Premise Match	6m	South West
	GENERATOR MFRS. &/OR DISTS.(G2900)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	36003	1982	Premise Match	6m	South West
	INSTRUMENTS - ELECTRIC - MFRS.&/OR DISTS. (I2840)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	42124	1982	Premise Match	6m	South West
	INSTRUMENTS - INDUSTRIAL - MFRS. &/OR DISTS. (I2900)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	42156	1982	Premise Match	6m	South West
	LOCOMOTIVE MFRS. &/OR IMPS., (L6550)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	45596	1982	Premise Match	6m	South West
	METER &/OR METER EQUIPMENT MFRS. &/OR IMPS. &/OR DISTS.(M2860)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	51989	1982	Premise Match	6m	South West
	STEAM TURBINE MFRS. (S5080)	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007.	76774	1982	Premise Match	6m	South West
	FLUORESCENT LIGHTING SPECIALISTS. (F4375)	Australian General Electric Ltd., 86 Bay St., Ultimo.2007.	31719	1982	Premise Match	6m	South West
	ELECTRIC LIGHT FITTINGS (SHADES, BRACKETS, ETC) MFRS. &/OR DISTS.	Australian General Electric Ltd, 86 Bay St, Ultimo. 2007	21758	1978	Premise Match	6m	South West
	INSTRUMENTS-INDUSTRIAL-MFRS. &/OR DISTS.	Australian General Electric Ltd, 86 Bay St, Ultimo. 2007	37489	1978	Premise Match	6m	South West
	LOCOMOTIVE MFRS. &/OR IMPS.	Australian General Electric Ltd, 86 Bay St, Ultimo. 2007	40581	1978	Premise Match	6m	South West
	TRANSFORMER &/OR TRANSFORMER EQUIPMENT MFRS. &/OR IMPS. &/OR DISTS.	Australian General Electric Ltd, 86 Bay St, Ultimo. 2007	72101	1978	Premise Match	6m	South West
	ELECTRICAL SUPPLIES &/OR APPLIANCES-MFRS.	Australian General Electric Ltd. 86 Bay St., Ultimo. 2007	22647	1978	Premise Match	6m	South West
	DATA PROCESSING EQUIPMENT MFRS &/OR DISTS. &/OR HIRERS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	17149	1978	Premise Match	6m	South West
	DIAMONDS-INDUSTRIAL-SUPPLIERS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	18845	1978	Premise Match	6m	South West
	ELECTRIC MOTOR MFRS. &/OR DISTS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	21972	1978	Premise Match	6m	South West
	ELECTRONIC EQUIPMENT MFRS. &/OR DISTS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	23132	1978	Premise Match	6m	South West
	ENGINEERS-ELECTRICAL.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	24309	1978	Premise Match	6m	South West
	FLUORESCENT LIGHTING SPECIALISTS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	28717	1978	Premise Match	6m	South West
	GENERATOR MFRS. &/OR DISTS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	32695	1978	Premise Match	6m	South West
	INSTRUMENTS - ELECTRIC - MFRS. &/OR DISTS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	37460	1978	Premise Match	6m	South West
	METER &/OR METER EQUIPMENT MFRS. &/OR IMPS. &/OR DISTS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	45749	1978	Premise Match	6m	South West
	X-RAY & ELECTRO MEDICAL APPARATUS MFRS. &/OR DISTS.	Australian General Electric Ltd., 86 Bay St., Ultimo 2007	75383	1978	Premise Match	6m	South West
	ELECTRIC GENERATING EQUIPMENT MFRS., &/OR IMPS., &/OR DISTS.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	21702	1978	Premise Match	6m	South West
	ELECTRIC LAMP (BED, DESK, STANDARD ETC.) MFRS &/OR DISTS.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	21730	1978	Premise Match	6m	South West
	ELECTRONICS-INDUSTRIAL CONTROL EQUIPMENT MFRS.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	23248	1978	Premise Match	6m	South West
	STEAM TURBINE MFRS.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	67982	1978	Premise Match	6m	South West
	CLOTHING - BLOUSES MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	14582	1978	Premise Match	6m	South West

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5	CLOTHING - FROCKS & SUITS MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	14830	1978	Premise Match	6m	South West
	CLOTHING - SPORTSWEAR MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	15418	1978	Premise Match	6m	South West
	CLOTHING-GENERAL MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	14953	1978	Premise Match	6m	South West
	CLOTHING-MATERNITY,WEAR MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	15124	1978	Premise Match	6m	South West
	ELECTRONIC EQUIPMENT MFRS. &/OR DIST.	Australian General Electric Ltd. 86 Bay St, Broadway, 2007	26758	1975	Premise Match	6m	South West
	ELECTRONICS-INDUSTRIAL CONTROL EQUIPMENT MFRS.	Australian General Electric Ltd. 86 Bay St. Broadway 2007	26884	1975	Premise Match	6m	South West
	ELECTRONIC EQUIPMENT MFRS. &/OR DIST.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	26771	1975	Premise Match	6m	South West
	ELECTRONICS-INDUSTRIAL CONTROL EQUIPMENT MFRS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	26892	1975	Premise Match	6m	South West
	LOCOMOTIVE MFRS. &/OR IMPS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007	47913	1975	Premise Match	6m	South West
	FLUORESCENT LIGHTING SPECIALISTS.	Australian General Electric Ltd., 86 Bay St, Ultimo. 2007,	33245	1975	Premise Match	6m	South West
	ELECTRICAL SUPPLIES &/OR APPLIANCES-MFRS.	Australian General Electric Ltd., 86 Bay St. Ultimo. 2007	26147	1975	Premise Match	6m	South West
	INSTRUMENTS – INDUSTRIAL MFRS. &/OR DIST	Australian General Electric Ltd., 86 Bay St., Broadway. 2007	44365	1975	Premise Match	6m	South West
	TRANSISTOR MFRS. &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Broadway. 2007	84874	1975	Premise Match	6m	South West
	TURBINES.,GAS.	Australian General Electric Ltd., 86 Bay St., Broadway. 2007	85333	1975	Premise Match	6m	South West
	GENERATOR MFRS. &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Ultimo, 2007	37905	1975	Premise Match	6m	South West
	ELECTRIC GENERATING EQUIPMENT MFRS., &/OR IMPS, &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	25255	1975	Premise Match	6m	South West
	ELECTRIC LAMP (BED, DESK, STANDARD ETC.) MFRS &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	88138	1975	Premise Match	6m	South West
	ELECTRIC LIGHT FITTINGS (SHADES, BRACKETS, ETC) MFRS. &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	88139	1975	Premise Match	6m	South West
	ELECTRIC MOTOR MFRS. &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	25418	1975	Premise Match	6m	South West
	INSTRUMENTS – INDUSTRIAL MFRS. &/OR DIST	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	44377	1975	Premise Match	6m	South West
	TRANSFORMER &/OR TRANSFORMER EQUIPMENT MFRS. &/OR IMPS. &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	84838	1975	Premise Match	6m	South West
	TRANSISTOR MFRS. &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	84875	1975	Premise Match	6m	South West
	X-RAY & ELECTRO MEDICAL APPARATUS MFRS. &/OR DIST.	Australian General Electric Ltd., 86 Bay St., Ultimo. 2007	88012	1975	Premise Match	6m	South West
	CLOTHING - BLOUSES MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St. Broadway. 2007	16792	1975	Premise Match	6m	South West
	CLOTHING - FROCKS & SUITS MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	17085	1975	Premise Match	6m	South West
	CLOTHING - GENERAL MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	17247	1975	Premise Match	6m	South West
	CLOTHING-MATERNITY WEAR MFRS. &/OR W/SALERS.	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	17450	1975	Premise Match	6m	South West
	CLOTHING-SPORTSWEAR LADIES MFRS.&/OR W/SALERS	Pasadena Pty. Ltd., 86 Bay St., Broadway. 2007	17838	1975	Premise Match	6m	South West
	Confectioners - Manufacturing &/or Wholesale	Ennever & Appleton, 86 Bay St., Broadway	70045	1965	Premise Match	6m	South West
	Confectioners - Manufacturing &/or Wholesale	Hertford Management Pty. Ltd., 86 Bay St., Broadway	70060	1965	Premise Match	6m	South West

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5	CONFECTIONERS-MANUFACTURING &/OR WHOLESALE	Ennever & Appleton, 86 Bay St., Broadway	292600	1961	Premise Match	6m	South West
	CHOCOLATE MANUFACTURERS	Ennever and Appleton, 86 Bay St.	22783	1950	Premise Match	6m	South West
	CONFECTIONERS-MANUFACTURING &/OR WHOLESALE	Ennever and Appleton, 86-90 Bay St., Ultimo	28564	1950	Premise Match	6m	South West
6	PUBLISHERS	Collier MacMillan Australia., 80 Bay St.	70992	1975	Premise Match	6m	South West
	WAREHOUSEMEN (W040)	Arrow Shirts Pty. Ltd., 76 Bay St., Ultimo	372934	1970	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Shirt & Pyjama	Arrow Shirts Pty. Ltd., 82 Bay St., Ultimo	68148	1965	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Underwear	Arrow Shirts Pty. Ltd., 82 Bay St., Ultimo	68459	1965	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Ladies' Coats & Costumes	Colonial Sales Corp. Pty. Ltd., 82 Bay St., Ultimo	67380	1965	Premise Match	6m	South West
	Manufacturers' Agents	Colonial Sales Corporation Ltd., 82 Bay St., Ultimo	109378	1965	Premise Match	6m	South West
	Warehousemen	Colonial Sales Corporation Pty. Ltd., 82 Bay St., Ultimo	155719	1965	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Blouses	Pelaco Ltd., 76 Bay St., Ultimo	66894	1965	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Ladies' Skirts	Pelaco Ltd., 76 Bay St., Ultimo	67917	1965	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Collars & Ties, Etc.	Pelaco Ltd., 76-84 Bay St., Ultimo	66941	1965	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Men's & Boys' Wear	Pelaco Ltd., 76-84 Bay St., Ultimo	68061	1965	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Sportswear	Pelaco Ltd., 76-84 Bay St., Ultimo	68398	1965	Premise Match	6m	South West
	Clothing Mfrs. &/or W'salers - Underwear	Pelaco Ltd., 76-84 Bay St., Ultimo	68548	1965	Premise Match	6m	South West
	CLOTHING MFRS. &/OR W'SALERS-SHIRT & PYJAMA	Arrow Shirts Pty. Ltd., 82 Bay St., Ultimo	290721	1961	Premise Match	6m	South West
	CLOTHING MFRS. &/OR W'SALERS-UNDERWEAR	Arrow Shirts Pty. Ltd., 82 Bay St., Ultimo	290945	1961	Premise Match	6m	South West
	CLOTHING MFRS. &/OR W'SALERS-LADIES' COATS & COSTUMES	Colonial Sales Corp. Pty. Ltd., 82 Bay St., Ultimo	289888	1961	Premise Match	6m	South West
	MANUFACTURERS' AGENTS	Colonial Sales Corporation Ltd., 82 Bay St., Ultimo	333168	1961	Premise Match	6m	South West
	WAREHOUSEMEN	Colonial Sales Corporation Pty. Ltd., 82 Bay St., Ultimo	261305	1961	Premise Match	6m	South West
	CLOTHING MFRS. &/OR W'SALERS-BLOUSES	Pelaco Ltd., 76 Bay St., Ultimo	289228	1961	Premise Match	6m	South West
	CLOTHING MFRS. &/OR W'SALERS-LADIES' SKIRTS	Pelaco Ltd., 76 Bay St., Ultimo	290498	1961	Premise Match	6m	South West
	CLOTHING MFRS. &/OR W'SALERS-COLLARS & TIES, ETC.	Pelaco Ltd., 76-84 Bay St., Ultimo	289290	1961	Premise Match	6m	South West
	CLOTHING MFRS. &/OR W'SALERS-MEN'S & BOYS' WEAR	Pelaco Ltd., 76-84 Bay St., Ultimo	290635	1961	Premise Match	6m	South West
	CLOTHING MFRS. &/OR W'SALERS-UNDERWEAR	Pelaco Ltd., 76-84 Bay St., Ultimo	291046	1961	Premise Match	6m	South West
	CLOTHING MFRS. &/OR WHOLESALE-SPORTSWEAR	Pelaco Ltd., 76-84 Bay St., Ultimo	291192	1961	Premise Match	6m	South West
	SEWING MACHINE MOTORS-MANUFACTURERS &/OR DISTRIBUTORS	Gemco Pty. Ltd. (Clutch Brake), 76 Bay St., Ultimo	101480	1950	Premise Match	6m	South West
	SEWING MACHINE MANUFACTURERS &/OR DISTRIBUTORS-TRADE	Gemco Pty. Ltd. (Power), 76 Bay St., Ultimo	101463	1950	Premise Match	6m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
6	CLOTH CUTTING MACHINES MANUFACTURERS & DEALERS	Gemco Pty. Ltd., 76 Bay St., Ultimo	23077	1950	Premise Match	6m	South West
	INDIVIDUAL POWER BENCHING	Gemco Pty. Ltd., 76 Bay St., Ultimo	64273	1950	Premise Match	6m	South West
	SEWING MACHINE DEALERS	Gemco Pty. Ltd., 76-84 Bay St.	101419	1950	Premise Match	6m	South West
	CLOTHING MANUFACTURERS &/OR WHOLESALERS- COLLARS & TIES	Pelaco Ltd. 76-84 Bay St., Ultimo	23142	1950	Premise Match	6m	South West
	CLOTHING MFRS. &/OR WHOLESALERS SHIRT & PYJAMA	Pelaco Ltd., Sales and Warehouse, Reg. Office, 76-84 Bay St., Ultimo	24169	1950	Premise Match	6m	South West
7	Air Compressor Mfrs. &/or Dist.	Air Compressors Pty. Ltd., 68 Bay St., Broadway	45600	1965	Premise Match	6m	West
	ELECTRONIC EQUIPMENT MFRS. &/OR DISTRIBUTORS	Pix T.V. Components Pty. Ltd., 68-74 Bay St., Broadway	303759	1961	Premise Match	6m	West
	RADIO &/OR T.V. DISTRIBUTORS-WHOLESALE	Pix T.V. Components Pty. Ltd., 68-74 Bay St., Broadway	363781	1961	Premise Match	6m	West
	TELEVISION EQUIPMENT IMPORTS., MFRS. &/OR DIST.	Pix T.V. Components Pty. Ltd., 68-74 Bay St., Broadway	255950	1961	Premise Match	6m	West
	RADIO &/OR TELEVISION COMPONENT PARTS MFRS.	Pix T.V. Components, 68 Bay St.	363849	1961	Premise Match	6m	West
	RADIO COMPONENT PARTS DEALERS	Pix T.V. Components, 68 Bay St.	364554	1961	Premise Match	6m	West
	ELECTRICAL SUPPLIES/APPLIANCES-WHOLESALE	Pix-T.V. Components Pty. Ltd., 68 Bay St., Broadway	303602	1961	Premise Match	6m	West
8	Leather Goods Mfrs &/or W/salers &/or Suppliers	Buxton Leather Goods (Aust) Pty. Ltd., 39 Mountain St., Broadway.2007	96777	1991	Premise Match	20m	North
	Leather Goods Mfrs &/or W/salers &/or Suppliers	Tatra Industries Pty Ltd. Buxton Leather., 39 Mountain St., Broadway. 2007	50725	1991	Premise Match	20m	North
	LEATHER GOODS MFRS. &/OR W/SALERS. &/OR SUPPLIERS.	Buxton Leather Goods (Aust.) Pty. Ltd., 39 Mountain St., Broadway. 2007	51500	1986	Premise Match	20m	North
	LEATHER GOODS MFRS. &/OR W/SALERS. &/OR SUPPLIERS.	Tatra Industries Pty. Ltd., 39 Mountain St., Broadway. 2007	51536	1986	Premise Match	20m	North
	LEATHER GOODS MFRS. &/OR W/SALERS. (L3350)	Buxton Leather Goods (Aust.) Pty. Ltd., 39 Mountain St., Broadway. 2007.	45142	1982	Premise Match	20m	North
	MANCHESTER MFRS. &/OR W/SALERS. (M0600)	Joseph, E. & N. Pty. Ltd., 35 Mountain St., Broadway. 2007.	46027	1982	Premise Match	20m	North
	CLOTHING - KNITTED GOODS MFRS. &/OR W/SALERS. (C5169)	Roo Knitting Mills Pty. Ltd., 35 Mountain St., Broadway. 2007.	16827	1982	Premise Match	20m	North
	KNITTED GOODS MFRS. &/OR KNITTING MILLS. (K0750)	Roo Knitting Mills Pty. Ltd., 35 Mountain St., Broadway. 2007.	44392	1982	Premise Match	20m	North
	LEATHER GOODS MFRS. &/OR W/SALERS. (L3350)	Tatra Industries Pty. Ltd., 39 Mountain St., Broadway. 2007.	45176	1982	Premise Match	20m	North
	LEATHER GOODS MFRS. &/OR W/SALERS.	Buxton Leather Goods (Aust.) Pty. Ltd., 39 Mountain St., Broadway. 2007	40060	1978	Premise Match	20m	North
	CLOTHING - KNITTED GOODS MFRS. &/OR W/SALERS.	Roo Knitting Mills Pty. Ltd., 35 Mountain St., Broadway. 2007	15055	1978	Premise Match	20m	North
	KNITTED GOODS MFRS. &/OR KNITTING MILLS.	Roo Knitting Mills Pty. Ltd., 35 Mountain St., Broadway. 2007	39415	1978	Premise Match	20m	North
	LEATHER GOODS MFRS. &/OR W/SALERS.	Tatra Leather Goods Ltd., 39 Mountain St., Broadway. 2007	40095	1978	Premise Match	20m	North
	LEATHER GOODS MFRS. &/OR W/SALERS.	Buxton Leather Goods Aust. Pty. Ltd., 39 Mountain St., Broadway	47226	1975	Premise Match	20m	North
	CLOTHING - KNITTED GOODS MFRS. &/OR W/SALER&	Roo Knitting Mills, 35 Mountain St., Broadway. 2007	17378	1975	Premise Match	20m	North
	KNITTED GOODS MFRS. &/OR KNITTING MILLS.	Roo Knitting Mills., 35 Mountain St., Broadway. 2007	46534	1975	Premise Match	20m	North
	PRODUCE MERCHANTS-WHOLESALE	Schute, Bell, Badgery, Lumhy Ltd., 35 Mountain St.	95882	1950	Premise Match	20m	North
9	PHOTOGRAPHERS COMMERCIAL &/OR INDUSTRIAL.	Baxter, Phillip Studios, 44 Mountain Rd., Ultimo. 2007	72809	1986	Premise Match	20m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
9	COIR FIBRE IMPS.&/OR DIST.	Brown & Bureau Ltd., 38 Mountain St., Broadway. 2007	18226	1975	Premise Match	20m	East
	STEEL EXPORTERS.	Brown & Bureau Ltd., 38 Mountain St., Broadway. 2007	80423	1975	Premise Match	20m	East
	WEEDICIDE MFRS. &/OR IMPS. &/OR DIST.	Brown & Bureau Ltd., 38 Mountain St., Broadway. 2007	86735	1975	Premise Match	20m	East
	FERTILIZER MFRS. &/OR SUPPLIERS.	Brown & Dureau Ltd. 38 Mountain St., Broadway. 2007	31501	1975	Premise Match	20m	East
	FOOD EXPORTERS.	Brown & Dureau Ltd., 38 Mountain St, Broadway 2007	33352	1975	Premise Match	20m	East
	AGRICULTURAL CHEMICALS MFRS. &/OR DIST.	Brown & Dureau Ltd., 38 Mountain St, Broadway. 2007	1304	1975	Premise Match	20m	East
	BUILDERS SUPPLIERS.	Brown & Dureau Ltd., 38 Mountain St, Broadway. 2007	9184	1975	Premise Match	20m	East
	CHEMICAL MFRS. &/OR DIST. &/OR IMPS	Brown & Dureau Ltd., 38 Mountain St, Broadway. 2007	14455	1975	Premise Match	20m	East
	EXPORTERS.	Brown & Dureau Ltd., 38 Mountain St, Broadway. 2007	30972	1975	Premise Match	20m	East
	FISH IMPORTERS &/OR DIST.	Brown & Dureau Ltd., 38 Mountain St, Broadway. 2007	32216	1975	Premise Match	20m	East
	FOOD PRODUCTS MFRS. &/OR DIST.	Brown & Dureau Ltd., 38 Mountain St, Broadway. 2007	33637	1975	Premise Match	20m	East
	MINING AGENTS.	Brown & Dureau Ltd., 38 Mountain St, Broadway. 2007	54140	1975	Premise Match	20m	East
	IMPORTERS.	Brown & Dureau Ltd., 38 Mountain St. Broadway. 2007	43535	1975	Premise Match	20m	East
	FOOD IMPORTERS	Brown & Dureau Ltd., 38 Mountain St., Broadway 2007	33469	1975	Premise Match	20m	East
	CONDIMENT MFRS. & DIST.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007	18600	1975	Premise Match	20m	East
	METAL MERCHANTS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007	52764	1975	Premise Match	20m	East
	MINING MACHINERY &/OR EQUIPMENT IMPS. &/OR DIST. &/OR MFRS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007	54242	1975	Premise Match	20m	East
	PAINT-DRY COLOURS-PIGMENT MFRS. &/OR DIST.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007	65281	1975	Premise Match	20m	East
	SCRAP METAL MERCHANTS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007	76117	1975	Premise Match	20m	East
	SHELLAC IMPS. &/OR W/SALERS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007	77012	1975	Premise Match	20m	East
	STEEL IMPORTERS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007	80692	1975	Premise Match	20m	East
	TEXTILE YARN IMPORTERS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007	82979	1975	Premise Match	20m	East
	MANUFACTURERS AGENTS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007.	48632	1975	Premise Match	20m	East
	MARBLE &/OR GRANITE MERCHANTS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007.	49100	1975	Premise Match	20m	East
	MEAT EXPORTERS.	Brown & Dureau Ltd., 38 Mountain St., Broadway. 2007.	49488	1975	Premise Match	20m	East
	MANUFACTURERS REPRESENTATIVES.	Brown & Dureau Ltd., 38-44 Mountain St., Sydney. 2000.	49073	1975	Premise Match	20m	East
	COAL MECHANIZATION EQUIPMENT & WASHING PLANTS	Brown & Durssu Ltd., 38 Mountain St., Broadway. 2007	18163	1975	Premise Match	20m	East
	PLASTIC GOODS IMP &/OR DIST.	Brown Dureau Ltd., 38 Mountain St., Broadway. 2007	67840	1975	Premise Match	20m	East
	TEXTILE MACHINERY MFRS. &/OR DISTRIBUTORS	Brown & Dureau Ltd, 38 Mountain St.	368136	1970	Premise Match	20m	East
	CHEMICAL IMPORTERS &/OR DISTRIBUTORS (C265)	Brown & Dureau Ltd., 38 Mountain St.	279194	1970	Premise Match	20m	East
	CHEMICAL-HEAVY-SUPPLIERS (C262)	Brown & Dureau Ltd., 38 Mountain St.	279581	1970	Premise Match	20m	East
	CHINA, & CROCKERY MFRS., IMPS. &/OR WHOLESALERS	Brown & Dureau Ltd., 38 Mountain St.	281325	1970	Premise Match	20m	East

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9	CLOCK IMPS. &/OR DISTS. (C398)	Brown & Dureau Ltd., 38 Mountain St.	282019	1970	Premise Match	20m	East
	COAL MECHANIZATION EQUIP.(C497)	Brown & Dureau Ltd., 38 Mountain St.	284792	1970	Premise Match	20m	East
	CONDIMENT MFRS. &/OR DISTS.(C611)	Brown & Dureau Ltd., 38 Mountain St.	285327	1970	Premise Match	20m	East
	CUTLERY IMPS.&/OR W'SALERS (C789)	Brown & Dureau Ltd., 38 Mountain St.	286681	1970	Premise Match	20m	East
	FACTORY REPRESENTATIVES (F025)	Brown & Dureau Ltd., 38 Mountain St.	301982	1970	Premise Match	20m	East
	FISH IMPORTS/EXPORTS &/OR DISTS.(F240)	Brown & Dureau Ltd., 38 Mountain St.	303232	1970	Premise Match	20m	East
	FOOD EXPORTERS (F400)	Brown & Dureau Ltd., 38 Mountain St.	304752	1970	Premise Match	20m	East
	FOOD IMPORTERS (F405)	Brown & Dureau Ltd., 38 Mountain St.	304816	1970	Premise Match	20m	East
	JEWELLERS-COSTUME-MFRS. &/OR DISTRIBUTORS (J030)	Brown & Dureau Ltd., 38 Mountain St.	321401	1970	Premise Match	20m	East
	LEATHER GOODS MFRS. &/OR WHOLESALEERS (L400)	Brown & Dureau Ltd., 38 Mountain St.	322942	1970	Premise Match	20m	East
	MACHINE TOOL MFRS./IMPORTERS/DISTRIBUTORS (M020)	Brown & Dureau Ltd., 38 Mountain St.	323976	1970	Premise Match	20m	East
	MACHINERY MERCH./IMPORTERS(M045)	Brown & Dureau Ltd., 38 Mountain St.	324130	1970	Premise Match	20m	East
	MANUFACTURERS' AGENTS (M112)	Brown & Dureau Ltd., 38 Mountain St.	324717	1970	Premise Match	20m	East
	MARBLE/GRANITE MERCH. (M120)	Brown & Dureau Ltd., 38 Mountain St.	325461	1970	Premise Match	20m	East
	MEAT EXPORTERS (M188)	Brown & Dureau Ltd., 38 Mountain St.	325929	1970	Premise Match	20m	East
	MINING AGENTS (M384)	Brown & Dureau Ltd., 38 Mountain St.	331666	1970	Premise Match	20m	East
	MINING MACHINERY & EQUIPMENT IMPORTERS, DISTRIBUTORS &/OR MANUFACTURERS	Brown & Dureau Ltd., 38 Mountain St.	331756	1970	Premise Match	20m	East
	PAINT-DRY COLOURS/PIGMENT-MFRS/DISTRIBUTORS (P 020)	Brown & Dureau Ltd., 38 Mountain St.	346488	1970	Premise Match	20m	East
	SHELLAC IMPORTERS &/OR WHOLESALEERS (S239)	Brown & Dureau Ltd., 38 Mountain St.	360829	1970	Premise Match	20m	East
	STEEL EXPORTERS (S670)	Brown & Dureau Ltd., 38 Mountain St.	365137	1970	Premise Match	20m	East
	STEEL IMPORTERS (S679)	Brown & Dureau Ltd., 38 Mountain St.	365435	1970	Premise Match	20m	East
	STEEL MERCHANTS-GENERAL (S694)	Brown & Dureau Ltd., 38 Mountain St.	365561	1970	Premise Match	20m	East
	TEXTILE YARN IMPORTERS (T290)	Brown & Dureau Ltd., 38 Mountain St.	368424	1970	Premise Match	20m	East
	TILE MFRS. &/OR DISTS.-FLOOR & WALL	Brown & Dureau Ltd., 38 Mountain St.	368648	1970	Premise Match	20m	East
	TOOL IMPORTS. &/OR DISTS.	Brown & Dureau Ltd., 38 Mountain St.	369483	1970	Premise Match	20m	East
	TOOL WHOLESALEERS (T490)	Brown & Dureau Ltd., 38 Mountain St.	369826	1970	Premise Match	20m	East
	TOY IMPORTERS &/OR WHOLESALEERS(T540)	Brown & Dureau Ltd., 38 Mountain St.	370328	1970	Premise Match	20m	East
	WEEDICIDE MFRS &/OR IMPS &/OR DISTS	Brown & Dureau Ltd., 38 Mountain St.	373396	1970	Premise Match	20m	East
	WOODWORK MACHINERY IMPORTS. &/OR DISTRIBUTORS	Brown & Dureau Ltd., 38 Mountain St.	375097	1970	Premise Match	20m	East
	PENCILS-PROPELLING-MFRS./SUPPLIERS (P232)	Brown & Dureau Ltd., 38 Mountain St.,	347524	1970	Premise Match	20m	East
	PEN-FOUNTAIN &/OR BALL POINT MFRS. &/OR IMPS. (P225)	Brown & Dureau Ltd., 38 Mountain St.,	347530	1970	Premise Match	20m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
9	PLASTIC GOODS IMPORTERS & DISTRIBUTORS (P560)	Brown & Dureau Ltd., 38 Mountain St.,	349581	1970	Premise Match	20m	East
	BAKERS' & PASTRYCOOKS' SUPPLIES (B075)	Brown & Dureau Ltd., Dureau House., 38 Mountain St.	264479	1970	Premise Match	20m	East
	EXPORTERS (E835)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	301518	1970	Premise Match	20m	East
	MANUFACTURERS' REPRESENTATIVES	BROWN & Dureau LTD., DUREAU HSE, 38-44 MOUNTAIN ST., P.O. BOX 3894, SYDNEY, 2001	325441	1970	Premise Match	20m	East
	BUILDERS' SUPPLIERS (B814)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	271257	1970	Premise Match	20m	East
	ELECTRICAL INSULATION & INSULATORS MFRS. &/OR IMP. &/OR DISTRIBUTORS (E310)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	295454	1970	Premise Match	20m	East
	GARDEN TOOL MFRS., IMPORTERS &/OR DIST. (G070)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	310384	1970	Premise Match	20m	East
	GLASSWARE & CRYSTALWARE IMPORTS.&/OR W'SALERS (G300)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	311264	1970	Premise Match	20m	East
	GRINDING MACHINES-PRECISION-MFRS. &/OR DIST. (G640)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	312080	1970	Premise Match	20m	East
	IMPORTERS (I200)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	318131	1970	Premise Match	20m	East
	JEWELLERS-MANUFACTURING-W'SALERS &/OR IMPORTS. (J050)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	321524	1970	Premise Match	20m	East
	LACE IMPORTERS &/OR WHOLESALERS (L030)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	322315	1970	Premise Match	20m	East
	ENGINE IMPORTERS &/OR DISTRIBUTORS (E435)	Brown & Dureau Ltd., Dureau Hse., 38 Mountain St.	296979	1970	Premise Match	20m	East
	COIR FIBRE IMPORT. &/OR DIST.(C526)	Brown & Dureau Pty. Ltd., 38 Mountain St.	284883	1970	Premise Match	20m	East
	ELECTRIC CLOCK IMPORTERS &/OR DISTRIBUTORS (E070)	Brown & Dureau Pty. Ltd., 38 Mountain St.	293454	1970	Premise Match	20m	East
	HOTEL/MOTEL EQUIPMENT/SUPPLIES(H680)	Brown & Dureau Pty. Ltd., 38 Mountain St.	316977	1970	Premise Match	20m	East
	METAL MERCHANTS (M260)	Brown & Dureau Pty. Ltd., 38 Mountain St.	329773	1970	Premise Match	20m	East
	RUBBER MFRS/ MATERIALS SUPPLIERS(R495)	Brown & Dureau Pty. Ltd., 38 Mountain St.	358148	1970	Premise Match	20m	East
	TEXTILE MANUFACTURERS (T255)	Brown & Dureau Pty. Ltd., 38 Mountain St.	368186	1970	Premise Match	20m	East
	TOOL MAKERS (T480)	Brown & Dureau Pty. Ltd., 38 Mountain St.	369590	1970	Premise Match	20m	East
	TRACTOR IMPORTS. &/OR MFRS. &/OR DIST.	Brown & Dureau Pty. Ltd., 38 Mountain St.	370473	1970	Premise Match	20m	East
	TRAVEL GOODS MFRS.(T650)	Brown & Dureau Pty. Ltd., 38 Mountain St.	371202	1970	Premise Match	20m	East
	WEAVERS (W125)	Brown & Dureau Pty. Ltd., 38 Mountain St.	373355	1970	Premise Match	20m	East
	PLASTIC MFRS.' MATERIALS SUPPLIERS(P588)	Brown & Dureau., 38 Mountain St.,	349964	1970	Premise Match	20m	East
	FERTILIZER IMPORTERS &/OR DISTRIBUTORS (F110)	Brown & Oureau Ltd., 38 Mountain St.	302341	1970	Premise Match	20m	East
	FOOD PRODUCTS MFRS. &/OR DIST.(F432)	Brown and Dureau Pty. Ltd., 38 Mountain St.	305027	1970	Premise Match	20m	East
	FOUNDRY SUPPLIES-METALS (F565)	Brown and Dureau Pty. Ltd., 38 Mountain St.	306222	1970	Premise Match	20m	East
	PIPES/PIPE FITTINGS MFRS. &/OR DISTRIBUTORS (P508)	Brown and Dureau Pty. Ltd., 38 Mountain St.	349081	1970	Premise Match	20m	East
	STARCH MANUFACTURERS (S502)	Brown and Dureau Pty. Ltd., 38 Mountain St.	364229	1970	Premise Match	20m	East
	PEN MANUFACTURERS &/OR IMPORTERS (P224)	Brown and Dureau Pty. Ltd., 38 Mountain St.,	347499	1970	Premise Match	20m	East

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9	HAND TOOL MANUFACTURERS &/OR DISTRIBUTORS	Brown J, Dureau Ltd., Dureau Hse., 38 Mountain St.	314653	1970	Premise Match	20m	East
	AGRICULTURAL CHEMICALS-IMPS. &/OR DIST.	Brown-Dureau Ltd., Dureau Hse., 38 Mountain St.	260477	1970	Premise Match	20m	East
	HARDWARE MERCHANTS-WHOLESALE (H260)	Brown-Dureau Ltd., Dureau Hse., 38 Mountain St.	315455	1970	Premise Match	20m	East
	CHEMICALS-TECHNICAL-SUPPLIERS (C274)	own & Dureau Pty. Ltd., 38 Mountain St.	279617	1970	Premise Match	20m	East
	IMPORTERS (I200)	Rubin, H. H. Pty. Ltd., 38 Mountain St.	318698	1970	Premise Match	20m	East
	LEATHER GOODS MFRS. &/OR WHOLESALE (L400)	Rubin, H. H. Pty. Ltd., 38 Mountain St.	323008	1970	Premise Match	20m	East
	MANUFACTURERS' AGENTS (M112)	Rubin, H. H. Pty. Ltd., 38 Mountain St.	325261	1970	Premise Match	20m	East
	TRAVEL GOODS WHOLESALE (T660)	Rubin, H.H.Pty. Ltd., 38 Mountain St.	371338	1970	Premise Match	20m	East
	CARPET & FLOOR COVERING IMPS. &/OR WHOLESALE	Waters Trading Co. Ltd., 38-44 Mountain St.	284252	1961	Premise Match	20m	East
	PRODUCE MERCH.-W/SALE	Waters Trading Co. Pty. Ltd., 38 Mountain St., Broadway	362983	1961	Premise Match	20m	East
	BARLEY & PEA MILLERS	Waters Trading Co. Pty. Ltd., 38-44 Mountain St.	271338	1961	Premise Match	20m	East
	CONDIMENT MFRS. &/OR DIST.	Waters Trading Co. Pty. Ltd., 38-44 Mountain St.	292566	1961	Premise Match	20m	East
	EXPORTERS	Waters Trading Co. Pty. Ltd., 38-44 Mountain St.	309448	1961	Premise Match	20m	East
	IMPORTERS	Waters Trading Co. Pty. Ltd., 38-44 Mountain St.	326751	1961	Premise Match	20m	East
	MERCHANTS/IMPORTERS	Waters Trading Co. Pty. Ltd., 38-44 Mountain St.	337770	1961	Premise Match	20m	East
	MILLERS/GRISTERS	Waters Trading Co. Pty. Ltd., 38-44 Mountain St.	339804	1961	Premise Match	20m	East
10	OPTICAL SUPPLIES MFRS. &/OR W/SALE.	Polaroid Australia Pty Ltd, 2 Smail St, Broadway 2007	54933	1978	Premise Match	20m	North
	PHOTOGRAPHIC &/OR MOVIE CAMERA REPAIRS.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	56796	1978	Premise Match	20m	North
	PHOTOGRAPHIC DEVELOPING, PRINTING &/OR COLOURING SERVICES.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	56698	1978	Premise Match	20m	North
	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPS.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	56738	1978	Premise Match	20m	North
	PHOTOGRAPHIC EQUIPMENT-MFRS.&/OR DIST.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	56775	1978	Premise Match	20m	North
	PHOTOGRAPHIC SUPPLIES.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	56832	1978	Premise Match	20m	North
	PHOTOGRAPHIC &/OR MOVIE CAMERA REPAIRS.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	66944	1975	Premise Match	20m	North
	PHOTOGRAPHIC DEVELOPING, PRINTING &/OR COLOURING SERVICES.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	66826	1975	Premise Match	20m	North
	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPS.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	66875	1975	Premise Match	20m	North
	OPTICAL SUPPLIES MFRS. &/OR W/SALE.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	64821	1975	Premise Match	20m	North
	PHOTOGRAPHIC EQUIPMENT-MFRS. &/OR DIST.	Polaroid Australia Pty. Ltd., 2 Smail St., Broadway. 2007	66920	1975	Premise Match	20m	North
	PHOTOGRAPHIC SUPPLIES.	Polaroid Australia Pty. Ltd., 2 Smail st., Broadway. 2007	66989	1975	Premise Match	20m	North
	OPTICAL SUPPLIES-MFRG. &/OR WHOLESALE (O 260)	Polaroid Aust. Pty. Ltd., 2 Smail St., Broadway	345252	1970	Premise Match	20m	North
	PHOTOGRAPHIC DEVELOPING,PRINTING/COLORING SERVICES (P288)	Polaroid Australia Pty. Ltd., 2-12 Smail St., Broadway	348179	1970	Premise Match	20m	North
	PHOTOGRAPHIC EQUIPMENT MFRS. &/OR DIST. (P294)	Polaroid Australia Pty. Ltd., 2-12 Smail St., Broadway	348298	1970	Premise Match	20m	North

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10	PHOTOGRAPHIC SUPPLIES (P300)	Polaroid Australia Pty. Ltd., 2-12 Smail St., Broadway	348383	1970	Premise Match	20m	North
	PHOTOGRAPHIC/MOVIE CAMERA REPAIRS (P296)	Polaroid Australia Pty. Ltd., 2-12 Smail St., Broadway	348427	1970	Premise Match	20m	North
	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPORTERS (P292)	Polaroid Australia Pty. Ltd., 2-12 Smail St., Broadway	348240	1970	Premise Match	20m	North
	Hospital Equipment Mfrs. &/or Suppliers	Young, R. Pty. Ltd., 2-12 Smail St., Broadway	100802	1965	Premise Match	20m	North
	Warehousemen	Young, Robert Pty. Ltd., 2-12 Smail St., Broadway	155793	1965	Premise Match	20m	North
	HAT & CAP MANUFACTURERS &/OR WHOLESALERS	Austral Hat & Cap Factory Pty. Ltd., 6 Smail St., Broadway	323809	1961	Premise Match	20m	North
	ENGINEERS-GENERAL/MFRG./MECHANICAL	Motor Repairing & Welding Pty. Ltd., 2-4 Smail St., Broadway	306809	1961	Premise Match	20m	North
	ENGINEERS-INDUSTRIAL	Motor Repairing & Welding Pty. Ltd., 2-4 Smail St., Broadway	307495	1961	Premise Match	20m	North
	MOTOR SPARE PARTS MFRS. &/OR WHOLESALERS	Motor Repairing & Welding Pty. Ltd., 2-4 Smail St., Broadway	351896	1961	Premise Match	20m	North
	WELDERS-ELECTRIC &/OR OXY	Motor Repairing & Welding Pty. Ltd., 2-4 Smail St., Broadway	262321	1961	Premise Match	20m	North
	MOTOR WHEEL REPAIRERS/SPECIALISTS	Motor Repairing & Welding Pty. Ltd., 2-4 Smail St., Broadway	352447	1961	Premise Match	20m	North
	ENGINEERS-GENERAL/MFRG./MECHANICAL	Perdriau, J. A. Pty. Ltd, 2-4 Smail St., Broadway	306895	1961	Premise Match	20m	North
	HAT &/OR CAP MFRS. &/OR WHOLESALERS	Austral Hat and Cap Factory., 6 Smail St., Broadway	61688	1950	Premise Match	20m	North
	MOTOR GARAGES &/OR ENGINEERS	Motor Repairing and Welding Pty. Ltd., 2 Smail St., Broadway	84112	1950	Premise Match	20m	North
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Motor Repairing and Welding Pty. Ltd., 2-4 Smail St, Broadway	41044	1950	Premise Match	20m	North
	WELDERS-ELECTRIC &/OR OXY	Motor Repairing and Welding Pty. Ltd., 2-4 Smail St., Broadway	112963	1950	Premise Match	20m	North
	FOOTWEAR MANUFACTURERS-BOOTS & SHOES	Nielsen, C. P. and R. Pty. Ltd., 8-12 Smail St., Broadway	46872	1950	Premise Match	20m	North
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Perdriau, J. A. Pty. Ltd., 2-4 Smail St., Broadway	41108	1950	Premise Match	20m	North
11	PLASTIC GOODS MFRS. &/OR DIST.	Elfen Plastics Pty. Ltd., 46 Mountain St., Broadway. 2007	74465	1986	Premise Match	21m	East
	PLASTIC MFRS. &/OR MOULDERS.	Elfen Plastics Pty. Ltd., 46 Mountain St., Broadway. 2007	74655	1986	Premise Match	21m	East
	PLASTIC MFRS. &/OR MOULDERS.(P6080)	Elfen Plastics Pty. Ltd., 46 Mountain St., Broadway. 2007.	64887	1982	Premise Match	21m	East
	PLASTIC GOODS MFRS. (P5860)	Ellen Plastics Pty. Ltd., 46 Mountain St., Broadway. 2007.	64725	1982	Premise Match	21m	East
	CARRIERS DEPOTS - RECEIVING&/OR DESPATCH. (C2175)	Leask Storage, 46 Mountain St., Broadway. 2007.	13898	1982	Premise Match	21m	East
	SAW BLADES-BAND, CIRCULAR, - MFRS. &/OR IMPS. &/OR DIST.(S0885)	Lyne Engineering Company, 46 Mountain St., Broadway. 2007.	73139	1982	Premise Match	21m	East
	PLASTIC GOODS MFRS.	Elfen Plastics Pty. Ltd., 46 Mountain St., Broadway. 2007	57670	1978	Premise Match	21m	East
	PLASTIC MFRS. &/OR MOULDERS.	Elfen Plastics Pty. Ltd., 46 Mountain St., Broadway. 2007	57867	1978	Premise Match	21m	East
	PLASTIC GOODS MFRS.	Elfen Plastics Pty. Ltd., 46 Mountain St., Broadway. 2007	67913	1975	Premise Match	21m	East
	PLASTIC MFRS. &/OR MOULDERS.	Elfen Plastics Pty. Ltd., 46 Mountain St., Broadway. 2007	68111	1975	Premise Match	21m	East
	AUTOMATIC SLOT MACHINES MFRS. &/OR DIST.	Hunter Electronics Pty. Ltd., 46 Mountain St., Broadway. 2007	3680	1975	Premise Match	21m	East
	PHOTO COPYING SERVICES.	Kays Secretarial Services., 46 Mountain St., Broadway. 2007	66498	1975	Premise Match	21m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
11	CARRIERS DEPOTS-RECEIVING &/OR DESPATCH.	Leask Storage, 46 Mountain St., Broadway. 2007	13930	1975	Premise Match	21m	East
	SAW MFRS. &/OR IMPS. &/OR DIST.	Lyne Engineering Company., 46 Mountain St., Broadway. 2007	75693	1975	Premise Match	21m	East
	Lawn Mowers - Motor Powered - Importers, Distributors &/or Manufacturers	Malleys Ltd., 50 Mountain St., Broadway	107246	1965	Premise Match	21m	East
	REFRIGERATOR MFRS.-DOMESTIC-ELECTRIC	Mai leys Ltd., 50 Mountain St., Broadway	245826	1961	Premise Match	21m	East
	SANITARYWARE MANUFACTURERS &/OR DISTRIBUTORS	Mai leys Ltd., 50 Mountain St., Broadway	247784	1961	Premise Match	21m	East
	WASHING MACHINE SALES/SERVICE	Mai leys Ltd., 50 Mountain St., Broadway	261530	1961	Premise Match	21m	East
	WASHING MACHINE MFRS.	Mailleys Ltd., 50 Mountain St., Broadway	261471	1961	Premise Match	21m	East
	GALVANISING & TINNING	Malley's Ltd., 50 Mountain St.	318452	1961	Premise Match	21m	East
	BATH & SINK HEATERS-LIQUID FUEL-MFRS. & DIST.	Malley's Ltd., 50 Mountain St., Broadway	271753	1961	Premise Match	21m	East
	DAIRY FACTORY SUPPLIES	Malley's Ltd., 50 Mountain St., Broadway	294335	1961	Premise Match	21m	East
	ELECTRICAL CONTRACTORS-LICENSED	Malleys Limited, 50 Mountain St.	302214	1961	Premise Match	21m	East
	DUST COLLECTION EQUIPMENT MANUFACTURERS	Malleys Ltd., 50 Mountain St.	299577	1961	Premise Match	21m	East
	ROOM HEATERS-LIQUID FUEL-MFRS./DISTRIBUTORS	Malleys Ltd., 50 Mountain St.	246807	1961	Premise Match	21m	East
	STAINLESS STEEL FABRICATORS	Malleys Ltd., 50 Mountain St.	252660	1961	Premise Match	21m	East
	BUILDERS' HARDWARE-MFRS. &/OR DISTRIBUTORS	Malleys Ltd., 50 Mountain St., Broadway	277917	1961	Premise Match	21m	East
	COPPERS-FUEL-MANUFACTURERS &/OR DISTRIBUTORS	Malleys Ltd., 50 Mountain St., Broadway	293179	1961	Premise Match	21m	East
	COPPERSMITHS	Malleys Ltd., 50 Mountain St., Broadway	293200	1961	Premise Match	21m	East
	DAIRY UTENSILS-MANUFACTURERS &/OR DISTRIBUTORS	Malleys Ltd., 50 Mountain St., Broadway	294406	1961	Premise Match	21m	East
	HARDWARE MANUFACTURERS	Malleys Ltd., 50 Mountain St., Broadway	323613	1961	Premise Match	21m	East
	RANGES-ELECTRIC-MFRS.	Malleys Ltd., 50 Mountain St., Broadway	364767	1961	Premise Match	21m	East
	SHEET METAL WORKERS	Malleys Ltd., 50 Mountain St., Broadway	249342	1961	Premise Match	21m	East
	VENTILATING EQUIPMENT MFRS. &/OR DISTRIBUTORS	Malleys Ltd., 50 Mountain St., Broadway	260939	1961	Premise Match	21m	East
	BUILDERS' SUPPLIERS	Malley's Ltd., 50 Mountain St., Broadway	11831	1950	Premise Match	21m	East
	DAIRY FACTORY SUPPLIES	Malley's Ltd., 50 Mountain St., Broadway	30104	1950	Premise Match	21m	East
	FAN & BLOWER MFRS. &/OR DISTRIBUTORS	Malley's Ltd., 50 Mountain St., Broadway	43292	1950	Premise Match	21m	East
	PLUMBERS' SUPPLIERS	Malleys Ltd. 50 Mountain St., Broadway	93379	1950	Premise Match	21m	East
	BATH HEATERS	Malleys Ltd., 50 Mountain St., Broadway	6415	1950	Premise Match	21m	East
	BUILDERS' HARDWARE MANUFACTURERS &/OR DISTRIBUTORS	Malleys Ltd., 50 Mountain St., Broadway	11626	1950	Premise Match	21m	East
	COPPERSMITHS	Malleys Ltd., 50 Mountain St., Broadway	28999	1950	Premise Match	21m	East
	DAIRY MACHINERY MFRS. &/OR DEALERS	Malleys Ltd., 50 Mountain St., Broadway	30130	1950	Premise Match	21m	East
	HARDWARE DEALERS &/OR IRONMONGERS	Malleys Ltd., 50 Mountain St., Broadway	61208	1950	Premise Match	21m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
11	PAINT, VARNISH, OILS & COLOUR MERCHANTS	Malleys Ltd., 50 Mountain St., Broadway	90793	1950	Premise Match	21m	East
	SHEET METAL WORKERS	Malleys Ltd., 50 Mountain St., Broadway	101754	1950	Premise Match	21m	East
12	KITCHENWARE &/OR HOLLOWWARE MFRS. &/OR DIST.	Rena-Ware Distributors Pty. Ltd., 60 Bay St., Ultimo. 2007	50594	1986	Premise Match	21m	North West
	MOTOR WHEEL REPAIRERS/SPECIALISTS (M756)	West's Wheel Works., 60 Bay St., Broadway.	342785	1970	Premise Match	21m	North West
	Motor Wheel Repairers/Specialists	West's Wheel Works, 60 Bay St., Broadway	127389	1965	Premise Match	21m	North West
	MOTOR WHEEL REPAIRERS/SPECIALISTS	West's Wheel Works, 60 Bay St., Broadway.	352464	1961	Premise Match	21m	North West
	WHEELS-MFRS. &/OR DISTRIBUTORS WHEELWRIGHTS	West's Wheel Works, 60 Bay St., Broadway	113266	1950	Premise Match	21m	North West
	WHEELS-MFRS. &/OR DISTRIBUTORS WHEELWRIGHTS	West's Wheel Works, 60 Bay St., Glebe	113267	1950	Premise Match	21m	North West
	MOTOR WHEEL REPAIRERS & SPECIALISTS	West's Wheel Works, 60-64 Bay St.	87160	1950	Premise Match	21m	North West
13	Missions/Religious Bodies	Hammond's Social Services, St. Barnabas Church, Broadway	116458	1965	Premise Match	22m	South East
	MISSIONS/RELIGIOUS BODIES	Hammond's Social Services, St. Barnabas Church, Broadway	340379	1961	Premise Match	22m	South East
	MISSIONS & RELIGIOUS BODIES	Father and Son Welfare Movement of Australasia (J. Robson, Director), St. Barnabas Church Bldg., Broadway	79185	1950	Premise Match	22m	South East
14	Furniture Importers	Casard Distributors, 2/28 Mountain St., Ultimo 2007	46862	1991	Premise Match	28m	North East
	Furniture Mfrs &/or W/salers Office	Forsyth, Level 3, 22-36 Mountain St., Broadway. 2007	47219	1991	Premise Match	28m	North East
	Welders	Motor Repairing & Welding Pty Ltd, 16 Smail St, Broadway 2007	66067	1991	Premise Match	28m	North East
	Engineers General	Perdriau J A Pty Ltd, 16 Small St., Broadway 2007	44263	1991	Premise Match	28m	North East
	Kitchenware &/or Hollowware Mfrs &/or Dists	Raco Homewares, 3rd., Fl., 22 Mountain St., Ultimo. 2007	50371	1991	Premise Match	28m	North East
	FURNITURE IMPORTERS.	Casard Distributors, 2/28 Mountain St., Ultimo 2007	37628	1986	Premise Match	28m	North East
	MANUFACTURERS AGENTS.	Minox (Aust.) Pty. Ltd., 20 Smail St., Broadway. 2007	52622	1986	Premise Match	28m	North East
	ENGINEERS – INDUSTRIAL.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	30595	1986	Premise Match	28m	North East
	MOTOR WHEEL REPAIRERS &/OR SPECIALISTS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	68610	1986	Premise Match	28m	North East
	TRAILER &/OR SEMI-TRAILER EQUIPMENT &/OR SPARE PARTS MFRS. &/OR IMPS. &/OR DIST.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	94932	1986	Premise Match	28m	North East
	ENGINEERS – FACTORY MAINTENANCE.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	29595	1986	Premise Match	28m	North East
	ENGINEERS – GENERAL &/OR MANUFACTURING &/OR MECHANICAL.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	30185	1986	Premise Match	28m	North East
	WELDERS - ELECTRIC &/OR OXY.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	98686	1986	Premise Match	28m	North East
	ENGINEERS – INDUSTRIAL.	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway. 2007	30598	1986	Premise Match	28m	North East
	ENGINEERS – FACTORY MAINTENANCE.	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway. 2007	29597	1986	Premise Match	28m	North East
	ENGINEERS – GENERAL &/OR MANUFACTURING &/OR MECHANICAL.	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway. 2007	30238	1986	Premise Match	28m	North East
	ENGINEERS-DESIGNING.	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway. 2007	29049	1986	Premise Match	28m	North East

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14	WELDERS - ELECTRIC &/OR OXY.	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007	98700	1986	Premise Match	28m	North East
	MANUFACTURERS AGENTS, (M0800)	Minox (Aust.) Pty. Ltd., 20 Small St., Broadway. 2007.	46292	1982	Premise Match	28m	North East
	ENGINEERS - FACTORY MAINTENANCE. (E6900)	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007.	27692	1982	Premise Match	28m	North East
	ENGINEERS - INDUSTRIAL (E7320)	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007.	28666	1982	Premise Match	28m	North East
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL. (E7140)	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007.	28227	1982	Premise Match	28m	North East
	MOTOR SPARE PARTS MFRS. &/OR W/SALERS. (M7860)	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007.	59406	1982	Premise Match	28m	North East
	MOTOR WHEEL REPAIRERS &/OR SPECIALISTS. (M8540)	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007.	59949	1982	Premise Match	28m	North East
	TRAILER &/OR SEMI-TRAILER SPARE PART MFRS. &/OR DIST.(T6875)	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007.	81542	1982	Premise Match	28m	North East
	WELDERS - ELECTRIC &/OR OXY.(W3160)	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007.	84206	1982	Premise Match	28m	North East
	ENGINEERS - DESIGNING. (E6690)	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007.	27183	1982	Premise Match	28m	North East
	ENGINEERS - FACTORY MAINTENANCE. (E6900)	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007.	27695	1982	Premise Match	28m	North East
	ENGINEERS - INDUSTRIAL (E7320)	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007.	28668	1982	Premise Match	28m	North East
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL. (E7140)	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007.	28277	1982	Premise Match	28m	North East
	WELDERS - ELECTRIC &/OR OXY.(W3160)	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007.	84219	1982	Premise Match	28m	North East
	CARRIERS &/OR CARTAGE CONTRACTORS - MASTER.	Green. T. S. & Co. Pty. Ltd., 20 Small St., Broadway. 2007	12000	1978	Premise Match	28m	North East
	MOTOR SPARE PARTS MFRS.&/OR W/SALERS.	Motor Repairing & Welding Pty Ltd, 16 Small St, Broadway 2007	52943	1978	Premise Match	28m	North East
	MOTOR WHEEL REPAIRERS &/OR SPECIALISTS.	Motor Repairing & Welding Pty Ltd, 16 Small St, Broadway 2007	53338	1978	Premise Match	28m	North East
	TRAILER &/OR SEMI TRAILER SPARE PART MFRS. &/OR DIST.	Motor Repairing & Welding Pty. Ltd, 16 Small St, Broadway. 2007	72056	1978	Premise Match	28m	North East
	ENGINEERS- GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007	25282	1978	Premise Match	28m	North East
	ENGINEERS-FACTORY MAINTENANCE.	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007	24731	1978	Premise Match	28m	North East
	ENGINEERS-INDUSTRIAL.	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007	25744	1978	Premise Match	28m	North East
	WELDERS-ELECTRIC &/OR OXY.	Motor Repairing & Welding Pty. Ltd., 16 Small St., Broadway. 2007	74285	1978	Premise Match	28m	North East
	ENGINEERS-DESIGNING.	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007	24232	1978	Premise Match	28m	North East
	ENGINEERS-FACTORY MAINTENANCE.	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007	24734	1978	Premise Match	28m	North East
	ENGINEERS-INDUSTRIAL.	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007	25746	1978	Premise Match	28m	North East
	WELDERS-ELECTRIC &/OR OXY.	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007	74302	1978	Premise Match	28m	North East
	ENGINEERS- GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Perdriau, J. A. Pty. Ltd., 16 Small St., Broadway. 2007	25329	1978	Premise Match	28m	North East
	FURNISHINGS - SOFT - MFRS. &/OR W/SALERS.	Wilson, A. G. Pty. Ltd., 28 Mountain St., Broadway. 2007	31095	1978	Premise Match	28m	North East
	PLASTIC MFRS. MATERIAL SUPPLIES.	Brown & Dureau Ltd., 36 Mountain St., Broadway. 2007	68005	1975	Premise Match	28m	North East
	TEXTILE MACHINERY MFRS. &/OR DIST.	Brown & Dureau Ltd., 36 Mountain St., Broadway. 2007	82803	1975	Premise Match	28m	North East

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14	CARRIERS &/OR CARTAGE CONTRACTORS - MASTER.	Green, T. S. & Co. Pty. Ltd., 20 Smail St., Broadway. 2007.	13849	1975	Premise Match	28m	North East
	ENGINEERS-INDUSTRIAL	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway 2007	29726	1975	Premise Match	28m	North East
	ENGINEERS - GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	29232	1975	Premise Match	28m	North East
	ENGINEERS-FACTORY MAINTENANCE	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	28607	1975	Premise Match	28m	North East
	MOTOR WHEEL REPAIRERS &/OR SPECIALISTS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	62886	1975	Premise Match	28m	North East
	TRAILER &/OR SEMI TRAILER SPARE PART MFRS &/OR DIST	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	84799	1975	Premise Match	28m	North East
	WELDERS., Electric &/OR OXY.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	87006	1975	Premise Match	28m	North East
	MOTOR SPARE PARTS MFRS. &/OR W/SALERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway. 2007	62468	1975	Premise Match	28m	North East
	ENGINEERS - GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Perdriau J. A. Pty. Ltd., 16 Smail St., Broadway. 2007	29286	1975	Premise Match	28m	North East
	ENGINEERS-INDUSTRIAL	Perdriau, J. A. Pty. Ltd., 16 Smail St, Broadway. 2007	29728	1975	Premise Match	28m	North East
	ENGINEERS-DESIGNING	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway. 2007	28023	1975	Premise Match	28m	North East
	ENGINEERS-FACTORY MAINTENANCE	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway. 2007	28611	1975	Premise Match	28m	North East
	WELDERS., Electric &/OR OXY.	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway. 2007	87033	1975	Premise Match	28m	North East
	FURNISHINGS - SOFT - MFRS. &/OR W/SALERS.	Wilson, A. G. Pty. Ltd., 28 Mountain St., Broadway. 2007	36168	1975	Premise Match	28m	North East
	CARRIERS & CARTAGE CONTRACTORS-MASTER (C147)	Green, T. S. & Co. Pty. Ltd., 20 Smail St., Broadway	278480	1970	Premise Match	28m	North East
	HAULAGE CONTRACTORS (H323)	Green, T. S. & Co. Pty. Ltd., 20 Smail St., Broadway	315637	1970	Premise Match	28m	North East
	ROAD TRANSPORT SERVICES-N.S.W.(R385)	Green, T. S. & Co. Pty. Ltd., 20 Smail St., Broadway	357600	1970	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Motor Repairing & Welding Pty. Ltd., 16 Smail St. Broadway	338296	1970	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Motor Repairing & Welding Pty. Ltd., 16 Smail St. Ultimo	338297	1970	Premise Match	28m	North East
	ENGINEERS-INDUSTRIAL (E655)	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway	300063	1970	Premise Match	28m	North East
	MOTOR ENGINE RECONDITIONERS(M624)	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway	337042	1970	Premise Match	28m	North East
	MOTOR SPARE PARTS MFRS. &/OR WHOLESALERS (M732)	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway	342186	1970	Premise Match	28m	North East
	MOTOR WHEEL REPAIRERS/SPECIALISTS (M756)	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway	342767	1970	Premise Match	28m	North East
	WELDERS-ELECTRIC &/OR OXY	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway,	373846	1970	Premise Match	28m	North East
	ENGINEERS-GENERAL &/OR MFRG.&/OR MECHANICAL (E615)	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Broadway.	299404	1970	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Perdriau, J. A. Pty. Ltd., 16 Smail St. Broadway	338410	1970	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Perdriau, J. A. Pty. Ltd., 16 Smail St. Ultimo	338409	1970	Premise Match	28m	North East
	ENGINEERS-GENERAL &/OR MFRG.&/OR MECHANICAL (E615)	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway	299487	1970	Premise Match	28m	North East
	ENGINEERS-INDUSTRIAL (E655)	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway	300066	1970	Premise Match	28m	North East
	WELDERS-ELECTRIC &/OR OXY	Perdriau, J. A. Pty. Ltd., 16 Smail St., Broadway	373895	1970	Premise Match	28m	North East

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14	Cosmetic Mfrs. &/or W'salers	Helena Rubinstein Pty. Ltd., 28 Mountain St., Broadway	70722	1965	Premise Match	28m	North East
	Motor Garages & Engineers	Motor Repairing & Welding Pty. Ltd., 16 Smail St. Ultimo	123477	1965	Premise Match	28m	North East
	Motor Garages & Engineers	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Sydney	122057	1965	Premise Match	28m	North East
	Motor Engine Reconditioners	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Ultimo	121927	1965	Premise Match	28m	North East
	Motor Spare Parts Mfrs. &/or Wholesalers	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Ultimo	126800	1965	Premise Match	28m	North East
	Motor Wheel Repairers/Specialists	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Ultimo	127374	1965	Premise Match	28m	North East
	Engineers - Industrial	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Ultimo	83304	1965	Premise Match	28m	North East
	Engineers General &/or Mfrg. &/or Mechanical	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Ultimo	82670	1965	Premise Match	28m	North East
	Engineers - Industrial	Perdriau J. A. Pty. Ltd., 16 Small St., Ultimo	83307	1965	Premise Match	28m	North East
	Motor Garages & Engineers	Perdriau, J. A. Pty. Ltd., 16 Smail St. Ultimo	123479	1965	Premise Match	28m	North East
	Motor Garages & Engineers	Perdriau, J. A. Pty. Ltd., 16 Smail St., Sydney	122061	1965	Premise Match	28m	North East
	Engineers General &/or Mfrg. &/or Mechanical	Perdriau, J. A. Pty. Ltd., 16 Small St., Ultimo	82748	1965	Premise Match	28m	North East
	Welders - Electric &/or Oxy	Perdriau, J. A. Pty. Ltd., 16 Small St., Ultimo	156732	1965	Premise Match	28m	North East
	CLOTHING MFRS. &/OR W'SALERS-GENERAL	Cadon Clothing Pty. Ltd., 28-36 Mountain St., Broadway	289385	1961	Premise Match	28m	North East
	COSMETIC MFRS. &/OR W'SALERS	Helena Rubinstein Pty. Ltd., 28 Mountain St., Broadway	293377	1961	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Motor Repairing & Welding Pty. Ltd., 16 Smail St. BROADWAY	347750	1961	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Perdriau, J. A. Pty. Ltd., 16 Small St., BROADWAY	347896	1961	Premise Match	28m	North East
	CLOTHING MANUFACTURERS &/OR WHOLESALERS-MEN'S & BOYS	Cadon Clothing Pty. Ltd., 28 Mountain St., Broadway	23627	1950	Premise Match	28m	North East
	TAILORS-MANUFACTURING	Cadon Clothing Pty. Ltd., 28 Mountain St., Broadway	106846	1950	Premise Match	28m	North East
	CLOTHING MFRS. &/OR WHOLESALERS-GENERAL	Cadon Clothing Pty. Ltd., 28-36 Mountain St., Broadway	24729	1950	Premise Match	28m	North East
	LEATHER GOODS MFRS. &/OR WHOLESALERS	Golden Arrow Leather Goods Co., 28 Mountain St., Broadway	68123	1950	Premise Match	28m	North East
	TRAVEL GOODS MANUFACTURERS	Golden Arrow Leather Goods Co., 28 Mountain St., Broadway	110423	1950	Premise Match	28m	North East
	TRAVEL GOODS MANUFACTURERS	Golden Arrow Leather Goods Co., 28-36 Mountain St., Broadway (Near Grace Bros.)	110424	1950	Premise Match	28m	North East
	LEATHER GOODS MFRS. &/OR WHOLESALERS	Golden Arrow Leather Goods Co., Showroom & Factory: 28-36 Mountain St., Broadway (Near Grace Bros)	68124	1950	Premise Match	28m	North East
	HANDBAG MFRS. &/OR WHOLESALERS	Golden Arrow Leathergoods Co., 28-36 Mountain St., Broadway	60667	1950	Premise Match	28m	North East
	HANDBAG MFRS. &/OR WHOLESALERS	Golden Arrow Leathergoods Co., Showroom & Factory 28-36 Mountain St., Broadway (Near Grace Bros.)	60668	1950	Premise Match	28m	North East
	GLOVE MANUFACTURERS-FASHION	Murany Glove Co., 28-36 Mountain St., Broadway	54724	1950	Premise Match	28m	North East
	GLOVE MANUFACTURERS-INDUSTRIAL	Plotkin, S., 28 Mountain St., Broadway	54740	1950	Premise Match	28m	North East
	SPORTS GOODS MANUFACTURERS	Plotkin, S., 28 Mountain St., Broadway	104326	1950	Premise Match	28m	North East
	SPORTS GOODS MANUFACTURERS	Plotkin, S., 28 Mountain St., Broadway	104325	1950	Premise Match	28m	North East
	FOOTWEAR MANUFACTURERS-BOOTS & SHOES	Plymouth Shoe Co., 26-28 Mountain St., Broadway	46889	1950	Premise Match	28m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
14	FOOTWEAR MANUFACTURERS-BOOTS & SHOES	Plymouth Shoe Co., 28-36 Mountain St., Broadway	46890	1950	Premise Match	28m	North East
	WOODWORKING MACHINERY MANUFACTURERS	Veneer and Woodworker Supply Co., 28-36 Mountain St., Broadway	114213	1950	Premise Match	28m	North East
	VENEER MANUFACTURERS &/OR MERCHANTS	Veneer and Woodworkers Supply Co., 28-36 Mountain St., Broadway	111878	1950	Premise Match	28m	North East
	WOODWORKERS' SUPPLIES	Veneer and Woodworkers Supply Co., 28-36 Mountain St., Broadway	114165	1950	Premise Match	28m	North East
15	BISCUIT MFRS. MACHINERY.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	5994	1986	Premise Match	54m	South West
	CARDBOARD BOX MAKING MACHINERY MFRS. &/OR DIST.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	12306	1986	Premise Match	54m	South West
	CONVEYOR &/OR CONVEYING EQUIP. MFRS. &/OR IMPS. &/OR DIST.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	20309	1986	Premise Match	54m	South West
	ENGINEERS – FLOUR MILLING.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	29629	1986	Premise Match	54m	South West
	ENGINEERS – GENERAL &/OR MANUFACTURING &/OR MECHANICAL.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	30034	1986	Premise Match	54m	South West
	ENGINEERS – HYDRAULIC.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	30538	1986	Premise Match	54m	South West
	FLOUR MILLING MACHINERY MFRS. &/OR DIST.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	33994	1986	Premise Match	54m	South West
	FOOD PROCESSING MACHINERY MFRS. &/OR DEALERS.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	34286	1986	Premise Match	54m	South West
	GRINDING &/OR PULVERISING MACHINERY MFRS. &/OR DIST.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	40407	1986	Premise Match	54m	South West
	MATERIAL HANDLING EQUIPMENT MFRS. &/OR IMPS. &/OR DIST.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	53094	1986	Premise Match	54m	South West
	PACKAGING &/OR PACKING SPECIALISTS.,.	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037	71264	1986	Premise Match	54m	South West
	ENGINEERS- FLOUR MILLING. (E6990)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	27725	1982	Premise Match	54m	South West
	FOOD PROCESSING MACHINERY MFRS. &/OR DEALERS. (F4900)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	31972	1982	Premise Match	54m	South West
	BISCUIT MFRS. MACHINERY. (B2600)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	6886	1982	Premise Match	54m	South West
	CARDBOARD BOX MAKING MACHINERY MFRS. &/OR DIST.(C1545)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	13189	1982	Premise Match	54m	South West
	CONVEYOR &/OR CONVEYING EQUIP. MFRS. &/OR IMPS. &/OR DIST. (C7710)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	17994	1982	Premise Match	54m	South West
	ENGINEERS - HYDRAULIC. (E7260)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	28600	1982	Premise Match	54m	South West
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL. (E7140)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	28074	1982	Premise Match	54m	South West
	FLOUR MILLING MACHINERY MFRS. &/OR DIST. (F4250)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	31685	1982	Premise Match	54m	South West
	GRINDING &/OR PULVERISING MACHINERY MFRS. &/OR DIST.(G7650)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	37320	1982	Premise Match	54m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
15	MATERIAL HANDLING EQUIPMENT MFRS. IMPS. &/OR DISTS. (M1500)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	46714	1982	Premise Match	54m	South West
	PACKAGING &/OR PACKING SPECIALISTS. (P0040)	Henry Simon Australia, (Simon Hydraulics), Simon House, 40 Francis St., Glebe. 2037.	62178	1982	Premise Match	54m	South West
	ENGINEERS-HYDRAULIC.	Henry Simon Aust. & Div. of Simon Engineering (Aust) Pty. Ltd., 40 Francis St, Glebe	25691	1978	Premise Match	54m	South West
	CONVEYORS &/OR CONVEYING EQUIP. MFRS. &/OR IMPS. &/OR DISTS.	Henry Simon Aust, 40 Francis St, Glebe	16251	1978	Premise Match	54m	South West
	CARDBOARD BOX MAKING MACHINERY MFRS. &/OR DISTS.	Henry Simon Aust, A Div. of Simon Engineering (Aust) Pty. Ltd, 40 Francis St, Glebe	11349	1978	Premise Match	54m	South West
	FOOD PROCESSING MACHINERY MFRS. &/OR DEALERS.	Henry Simon Aust, A Div. of Simon Engineering (Aust) Pty. Ltd, 40 Francis St, Glebe	28962	1978	Premise Match	54m	South West
	MATERIAL HANDLING EQUIPMENT MFRS	Henry Simon Aust, A Div. of Simon Engineering (Aust) Pty. Ltd, 40 Francis St, Glebe.	41838	1978	Premise Match	54m	South West
	ENGINEERS-FLOUR MILLING.	Henry Simon Aust, A Div. of Simon Engineering (Aust) Pty. Ltd., 40 Francis St, Glebe	24766	1978	Premise Match	54m	South West
	GRINDING &/OR PULVERISING MACHINERY MFRS. &/OR DISTS.	Henry Simon Aust, A Div. of Simon Engineering (Aust) Pty. Ltd., 40 Francis St, Glebe	33623	1978	Premise Match	54m	South West
	BISCUIT MFRS. MACHINERY.	Henry Simon Aust, A Div. of Simon Engineering (Aust) Pty. Ltd., 40 Francis St., Glebe	5889	1978	Premise Match	54m	South West
	ENGINEERS- GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Henry Simon Aust, A Div. of Simon Engineering (Aust) Pty. Ltd., 40 Francis St., Glebe	25134	1978	Premise Match	54m	South West
	PACKAGING &/OR PACKING SPECIALISTS.	Henry Simon Aust., A Div. of Simon Engineering (Aust) Pty. Ltd., 40 Francis St., Glebe. 2037	55227	1978	Premise Match	54m	South West
	FLOUR MILLING MACHINERY MFRS.&/OR DISTS.	Henry Simon Aust., A Div. of Simon Engineering (Aust.) Pty. Ltd., 40 Francis St, Glebe	28673	1978	Premise Match	54m	South West
	ENGINEERS-HYDRAULIC.	Henry Simon Australia "Simon House", Francis Street, Glebe.	25658	1978	Premise Match	54m	South West
	FLOUR MILLING MACHINERY MFRS. &/OR DISTS.	Simon Henry Pty Ltd., 40 Francis St., Glebe. 2037.	33200	1975	Premise Match	54m	South West
	BISCUIT MFRS. MACHINERY.	Simon, Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037	6300	1975	Premise Match	54m	South West
	CARDBOARD BOX MAKING MACHINERY MFRS. &/OR DISTS.	Simon, Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037	13267	1975	Premise Match	54m	South West
	CONVEYORS &/OR CONVEYING EQUIP. MFRS. &/OR IMPS. &/OR DISTS.	Simon, Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037	18860	1975	Premise Match	54m	South West
	ENGINEERS - GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Simon, Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037	29385	1975	Premise Match	54m	South West
	ENGINEERS-FLOUR MILLING.	Simon, Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037	28647	1975	Premise Match	54m	South West
	PACKAGING &/OR PACKING SPECIALISTS	Simon, Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037	65185	1975	Premise Match	54m	South West
	ENGINEERS-HYDRAULIC.	Simon, Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037.	29703	1975	Premise Match	54m	South West
	MATERIAL HANDLING EQUIPMENT MFRS.	Simon, Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037.	49442	1975	Premise Match	54m	South West
	GRINDING &/OR PULVERISING MACHINERY MFRS. &/OR DISTS.	Simon, Henry (Aust.) Pty., Ltd., 40 Francis St., Glebe. 2037	39102	1975	Premise Match	54m	South West
	FOOD PROCESSING MACHINERY MFRS. &/OR DEALERS.	Simon. Henry (Aust.) Pty. Ltd., 40 Francis St., Glebe. 2037.	33550	1975	Premise Match	54m	South West
	BISCUIT MFRS.' MACHINERY (B360)	Simon Henry (Aust.) Ltd., Francis St., Glebe	267029	1970	Premise Match	54m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
15	ENGINEERS-FLOUR MILLING (E595)	Simon Henry (Aust.) Ltd., Francis St., Glebe	298744	1970	Premise Match	54m	South West
	ENGINEERS-LIFTING/HANDLING(E670)	Simon Henry (Aust.) Ltd., Francis St., Glebe	300128	1970	Premise Match	54m	South West
	FLOUR MILLING MACHINERY MFRS. &/OR DIST.(F360)	Simon, H. (Aust.) Ltd., Francis St., Glebe	304560	1970	Premise Match	54m	South West
	CARDBOARD BOX-MAKING MACHINERY MFRS(C114)	Simon, Henry (Aust) Ltd., Francis St., Glebe	277516	1970	Premise Match	54m	South West
	FOOD PROCESSING MACH. MFRS./DEALERS (F425)	Simon, Henry (Aust) Ltd., Francis St., Glebe	304927	1970	Premise Match	54m	South West
	CONVEYORS & CONVEYING EQUIP.MANUFACTURERS (C639)	Simon, Henry (Aust.) Ltd., Francis St., Glebe	285731	1970	Premise Match	54m	South West
	ELECTRICAL SWITCHBOARD MANUFACTURERS (E335)	Simon, Henry (Aust.) Ltd., Francis St., Glebe	296250	1970	Premise Match	54m	South West
	ELECTRONIC EQUIPMENT MFRS.&/OR DISTRIBUTORS (E355)	Simon, Henry (Aust.) Ltd., Francis St., Glebe	296444	1970	Premise Match	54m	South West
	ENGINEERS-GENERAL &/OR MFRG.&/OR MECHANICAL (E615)	Simon, Henry (Aust.) Ltd., Francis St., Glebe	299610	1970	Premise Match	54m	South West
	GRINDING/PULVERISING MACHINERY MANUFACTURERS (G645)	Simon, Henry (Aust.) Ltd., Francis St., Glebe	312119	1970	Premise Match	54m	South West
	MATERIAL-HANDLING EQUIP. MANUFACTURERS	Simon, Henry (Aust.) Ltd., Francis St., Glebe	325880	1970	Premise Match	54m	South West
	PACKING MACHINERY MFRS. & DISTRIBUTORS	Simon, Henry (Aust.) Ltd., Francis St., Glebe	345878	1970	Premise Match	54m	South West
	STOCK FOODS MANUFACTURERS &/OR DISTRIBUTORS	Simon Henry (Aust.) Ltd., Simon Hse., Francis St., Glebe	149009	1965	Premise Match	54m	South West
	Biscuit Mfrs. Machinery	Simon, H. (Aust.) Ltd., Francis St., Glebe	51566	1965	Premise Match	54m	South West
	Cardboard Box - Making Machinery Mfrs.	Simon, H. (Aust.) Ltd., Francis St., Glebe	62232	1965	Premise Match	54m	South West
	Conveyors & Conveying Equip. Manufacturers	Simon, H. (Aust.) Ltd., Francis St., Glebe	70457	1965	Premise Match	54m	South West
	Engineers - Factory Main - Tenace	Simon, H. (Aust.) Ltd., Francis St., Glebe	81981	1965	Premise Match	54m	South West
	Engineers - Lifting/Handling	Simon, H. (Aust.) Ltd., Francis St., Glebe	83361	1965	Premise Match	54m	South West
	Engineers General &/or Mfrg. &/or Mechanical	Simon, H. (Aust.) Ltd., Francis St., Glebe	82863	1965	Premise Match	54m	South West
	Flour Milling Machinery Mfrs. &/or Dists.	Simon, H. (Aust.) Ltd., Francis St., Glebe	87942	1965	Premise Match	54m	South West
	Food Processing Mach. Mfrs./Dealers	Simon, H. (Aust.) Ltd., Francis St., Glebe	88311	1965	Premise Match	54m	South West
	Grinding/Pulverising Machinery Mfrs.	Simon, H. (Aust.) Ltd., Francis St., Glebe	96111	1965	Premise Match	54m	South West
	DRY CLEANERS, PRESSERS / DYERS	Grace Bros. Pty. Ltd., Broadway	299125	1961	Premise Match	54m	South West
	CARDBOARD BOX & CARTON MANUFACTURERS	Simon, H. (Aust.) Ltd., Francis St., Glebe	284029	1961	Premise Match	54m	South West
	CONVEYORS & CONVEYING EQUIP. MANUFACTURERS	Simon, H. (Aust.) Ltd., Francis St., Glebe	292994	1961	Premise Match	54m	South West
	ENGINEERS-FLOUR MILLING	Simon, H. (Aust.) Ltd., Francis St., Glebe	306012	1961	Premise Match	54m	South West
	ENGINEERS-GENERAL/MFRG./MECHANICAL	Simon, H. (Aust.) Ltd., Francis St., Glebe	307023	1961	Premise Match	54m	South West
	ENGINEERS-LIFTING/HANDLING	Simon, H. (Aust.) Ltd., Francis St., Glebe	307546	1961	Premise Match	54m	South West
	FOOD PROCESSING MACH. MFRS./DEALERS	Simon, H. (Aust.) Ltd., Francis St., Glebe	312486	1961	Premise Match	54m	South West
	GRINDING/PULVERISING MACHINERY MANUFACTURERS	Simon, H. (Aust.) Ltd., Francis St., Glebe	320030	1961	Premise Match	54m	South West

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15	DRY CLEANERS, PRESSERS & DYERS	Grace Bros. Pty. Ltd., Broadway	35269	1950	Premise Match	54m	South West
	GRINDING & PULVERISING MACHINERY MFRS.	Simon, H. (Aust.) Ltd., Grose St., Glebe	55259	1950	Premise Match	54m	South West
	ENGINEERS-FLOUR MILLING	Simon, Henry Aust. Ltd., Grose St., Glebe	40306	1950	Premise Match	54m	South West
	FLOUR MILLING MACHINERY	Simon, Henry Ltd., Grose St., Glebe	46356	1950	Premise Match	54m	South West
16	FURNITURE-CONTEMPORARY MFRS. &W/SALERS.	Fuetron Furniture Pty. Ltd., 31 Bay St., Glebe. 2037	31302	1978	Premise Match	54m	West
	FURNITURE-GENERAL-MFRS. &OR W/SALERS.	Fuetron Furniture Pty. Ltd., 31 Bay St., Glebe. 2037	31599	1978	Premise Match	54m	West
	DRAFTING EQUIPMENT IMPORTERS &OR SUPPLIERS (D520)	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	290198	1970	Premise Match	54m	West
	DRAWING OFFICE SUPPLIES (D543)	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	290733	1970	Premise Match	54m	West
	GAUGE MANUFACTURERS &OR IMPORTERS (G140)	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	310523	1970	Premise Match	54m	West
	INSTRUMENT REPAIRERS (I360)	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	319340	1970	Premise Match	54m	West
	INSTRUMENTS - INDUSTRIAL - MFRS. &OR DISTRIBUTORS	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	319559	1970	Premise Match	54m	West
	INSTRUMENTS - MEASURING - MFRS &OR IMPS. &OR DIST.	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	319390	1970	Premise Match	54m	West
	INSTRUMENTS-NAUTICAL-DISTRIBUTORS (I415)	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	319617	1970	Premise Match	54m	West
	INSTRUMENTS-OPTICAL-MFRS.(I420)	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	319626	1970	Premise Match	54m	West
	INSTRUMENTS-PRECISION-MFRS. &OR DISTRIBUTORS	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	319645	1970	Premise Match	54m	West
	INSTRUMENTS-SCIENTIFIC-IMPORTERS, MANUFACTURERS &OR DISTRIBUTORS	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	319713	1970	Premise Match	54m	West
	INSTRUMENTS-SURVEYING, GEODETIC/GEOPHYSICAL-DIST.	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	319787	1970	Premise Match	54m	West
	THERMOMETER IMPORTERS &OR DISTRIBUTORS (T315)	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe, 2307.	368519	1970	Premise Match	54m	West
	CHEMISTS-MANUFACTURING &OR WHOLESALE	Hudson's Eumenthol Chemical Co Pty Ltd, 31 Bay St, Glebe	279873	1970	Premise Match	54m	West
	SOFTGOODS MFRS. &OR IMPS. &OR W/SALERS.	Kennard & Kennard, 84 Greek St., Glebe	362184	1970	Premise Match	54m	West
	ELECTRIC MOTORS-DEALERS &OR WHOLESALE (E210)	Lawrence, E. E. and Co., 35a Bay St., Glebe	294223	1970	Premise Match	54m	West
	METAL MERCHANTS (M260)	Ward, G. Distributors Pty. Ltd., 67 Francis St., Broadway	329817	1970	Premise Match	54m	West
	Drafting Equipment Importers &/or Suppliers	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	74843	1965	Premise Match	54m	West
	Drawing Office Supplies	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	75422	1965	Premise Match	54m	West
	Gauge Mfrs. &/or Importers	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	94682	1965	Premise Match	54m	West
	Instrument Repairers	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	103553	1965	Premise Match	54m	West
	Instruments - Industrial - Mfrs. &/or Distributors	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	103674	1965	Premise Match	54m	West
	Instruments - Measuring - Imports. &/or Dists.	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	103740	1965	Premise Match	54m	West
	Instruments - Nautical - Distributors	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	103786	1965	Premise Match	54m	West
	Instruments - Optical - Mfrs.	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	103794	1965	Premise Match	54m	West
	Instruments - Precision - Mfrs. &/or Distributors	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	103810	1965	Premise Match	54m	West

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16	Instruments - Scientific - Importers, Mfrs. &/or Dist.	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	103866	1965	Premise Match	54m	West
	Instruments - Surveying, Geodetic/Geophysical - Dist.	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	103933	1965	Premise Match	54m	West
	THERMOMETER IMPORTERS &/OR DISTRIBUTORS	Esdaile, E. & Sons Pty. Ltd., 31 Bay St., Glebe	151349	1965	Premise Match	54m	West
	Chemists - Manufacturing &/or Wholesale	Hudson's Eumenthol Chemical Co. Pty. Ltd., 31 Bay St., Glebe	64536	1965	Premise Match	54m	West
	SOFTGOODS IMPORTERS &/OR WHOLESALERS	Kennard & Kennard, 84 Greek St., Glebe	145375	1965	Premise Match	54m	West
	Clothing Mfrs. &/or W'salers - Baby &/or Children's Wear	Kennard and Kennard, 84 Greek St., Glebe	66750	1965	Premise Match	54m	West
	Clothing Mfrs. &/or W'salers - General	Kennard and Kennard, 84 Greek St., Glebe	67091	1965	Premise Match	54m	West
	Clothing Mfrs. &/or W'salers - Men's & Boys' Wear	Kennard and Kennard, 84 Greek St., Glebe	68033	1965	Premise Match	54m	West
	Clothing Mfrs. &/or W'salers - Shirt & Pyjama	Kennard and Kennard, 84 Greek St., Glebe	68203	1965	Premise Match	54m	West
	Clothing Mfrs. &/or W'salers - Underwear	Kennard and Kennard, 84 Greek St., Glebe	68522	1965	Premise Match	54m	West
	Manchester Manufacturers/Wholesalers	Kennard and Kennard, 84 Greek St., Glebe	109059	1965	Premise Match	54m	West
	Clothing Mfrs. &/or W'salers - Ladies' Dresses & Gowns	Kennard and Kennard, 84 Greek St., Glebe	67629	1965	Premise Match	54m	West
	Electric Motors - Dealers &/or Wholesalers	Lawrence, E. E. and Co., 35a Bay St., Glebe	78002	1965	Premise Match	54m	West
	STEEL ROOFING MFRS./DIST.	Ward George Pty. Ltd., 67 Francis St., Glebe	148563	1965	Premise Match	54m	West
	Metal Merchants	Ward, G. Distributors Pty. Ltd., 67 Francis St., Broadway	114302	1965	Premise Match	54m	West
	Builders & Contractors	Ward, G. Pty. Ltd., 67 Francis St., Glebe	55694	1965	Premise Match	54m	West
	Joinery Manufacturers	Ward, G. Pty. Ltd., 67 Francis St., Glebe	106609	1965	Premise Match	54m	West
	Musical Instrument Repairers/Reconditioners	Ward, G. Pty. Ltd., 67 Francis St., Glebe	127881	1965	Premise Match	54m	West
	Roofing Material Mfrs. &/or Distributors	Ward, G. Pty. Ltd., 67 Francis St., Glebe	141178	1965	Premise Match	54m	West
	Builders & Contractors - (M.M.B.A.)	Ward, George Pty. Ltd., 67 Francis St. Glebe	54727	1965	Premise Match	54m	West
	Painters, Paperhangers/Decorators	Ward, George Pty. Ltd., 67 Francis St., Glebe	131216	1965	Premise Match	54m	West
	Roofing Contractors/Repairers	Ward, George Pty. Ltd., 67 Francis St., Glebe	141130	1965	Premise Match	54m	West
	SHOP/OFFICE FITTERS	Ward, George Pty. Ltd., 67 Francis St., Glebe	144688	1965	Premise Match	54m	West
	CHEMISTS-MANUFACTURING &/OR WHOLE SALE	Hudson's Eumenthol Chemical Co Pty Ltd, 31 Bay St, Glebe	287132	1961	Premise Match	54m	West
	CONFECTIONERS-MANUFACTURING &/OR WHOLESALE	Hudson's Eumenthol Chemical Co. Pty. Ltd., 31 Bay St., Glebe	292620	1961	Premise Match	54m	West
	EUCALYPTUS OIL DISTILLERS	Hudsons Eumenthol Chemical Co. Ltd., 31 Bay St., Glebe	308952	1961	Premise Match	54m	West
	CHEMICAL MANUFACTURERS &/OR DISTRIBUTORS	Hudsons Eumenthol Chemical Co. Pty. Ltd., 31 Bay St., Glebe	286629	1961	Premise Match	54m	West
	JEWELLERS—MANUFACTURING—W' SALERS &/OR IMPORTS	Kennard & Kennard, 81 Greek St., Glebe	329588	1961	Premise Match	54m	West
	JEWELLERS-COSTUME-MFRS., W'SALERS &/OR IMPORTS	Kennard & Kennard, 84 Greek St., Glebe	328925	1961	Premise Match	54m	West
	SOFTGOODS IMPORTERS &/OR WHOLESALERS	Kennard & Kennard, 84 Greek St., Glebe	251013	1961	Premise Match	54m	West
	CLOTHING MFRS. &/OR W'SALERS-BABY &/OR CHILDREN'S WEAR	Kennard and Kennard, 84 Greek St., Glebe	289070	1961	Premise Match	54m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
16	CLOTHING MFRS. &/OR W'SALERS-GENERAL	Kennard and Kennard, 84 Greek St., Glebe	289489	1961	Premise Match	54m	West
	CLOTHING MFRS. &/OR W'SALERS-LADIES' DRESSES & GOWNS	Kennard and Kennard, 84 Greek St., Glebe	290161	1961	Premise Match	54m	West
	CLOTHING MFRS. &/OR W'SALERS-MEN'S & BOYS' WEAR	Kennard and Kennard, 84 Greek St., Glebe	290602	1961	Premise Match	54m	West
	CLOTHING MFRS. &/OR W'SALERS-SHIRT & PYJAMA	Kennard and Kennard, 84 Greek St., Glebe	290785	1961	Premise Match	54m	West
	CLOTHING MFRS. &/OR W'SALERS-UNDERWEAR	Kennard and Kennard, 84 Greek St., Glebe	291011	1961	Premise Match	54m	West
	MANCHESTER MANUFACTURERS/WHOLESA LERS	Kennard and Kennard, 84 Greek St., Glebe	332848	1961	Premise Match	54m	West
	TOY IMPORTERS &/OR WHOLESALERS	Kennard and Kennard, 84 Greek St., Glebe	258703	1961	Premise Match	54m	West
	CLOTHING MFRS. &/OR W'SALERS-WATERPROOF	Kennard and Kennard., 84 Greek St., Glebe	291125	1961	Premise Match	54m	West
	HANDLE MANUFACTURERS &/OR WHOLESALERS	Kennard Bros. Ltd. (Tool), 15-31 Francis St., Glebe	322976	1961	Premise Match	54m	West
	BROOM & BRUSH-SWEEPING-WHOLESALERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	276043	1961	Premise Match	54m	West
	KITCHENWARE WHOLESALERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	330339	1961	Premise Match	54m	West
	ELECTRIC MOTORS-DEALERS &/OR WHOLESALERS	Lawrence, E. E. and Co., 35a Bay St., Glebe	301097	1961	Premise Match	54m	West
	BUILDERS & CONTRACTORS-(M.M.B.A.)	Ward George Pty Ltd., 67 Francis St., Glebe	277746	1961	Premise Match	54m	West
	METAL MERCHANTS	Ward, G. Distributors Pty. Ltd., 67 Francis St., Broadway	338094	1961	Premise Match	54m	West
	BUILDERS & CONTRACTORS	Ward, G. Pty. Ltd., 67 Francis St., Glebe	276708	1961	Premise Match	54m	West
	ROOFING CONTRACTORS/REPAIRERS	Ward, G., 67 Francis St., Glebe	246673	1961	Premise Match	54m	West
	BUILDERS & CONTRACTORS-(M.M.B.A.)	Ward, George Pty. Ltd 67 Francis St Glebe	277747	1961	Premise Match	54m	West
	PAINTERS, PAPERHANGERS/DECORATORS	Ward, George Pty. Ltd., 67 Francis St., Glebe	356465	1961	Premise Match	54m	West
	ROOFING CONTRACTORS/REPAIRERS	Ward, George Pty. Ltd., 67 Francis St., Glebe	246674	1961	Premise Match	54m	West
	SHOP/OFFICE FITTERS	Ward, George Pty. Ltd., 67 Francis St., Glebe	250156	1961	Premise Match	54m	West
	CHEMISTS-MANUFACTURING & WHOLESALE	Hudson's Eumenthol Coy. Pty. Ltd., 31 Bay St., Glebe	70528	1950	Premise Match	54m	West
	EUCALYPTUS OIL DISTILLERS	Hudsons Eumenthol Chemical Co. Ltd., 31 Bay St., Glebe	42657	1950	Premise Match	54m	West
	FOOTWEAR MANUFACTURERS-BOOTS & SHOES	Ilford Shoes Pty. Ltd., 45 Francis St., Glebe	46832	1950	Premise Match	54m	West
	CLOTHING MFRS. &/OR WHOLESALERS SHIRT & PYJAMA	Kennard and Kennard, 64 Greek St., Glebe	24149	1950	Premise Match	54m	West
	CLOTHING MANUFACTURERS &/OR WHOLESALERS-LADIES' DRESSES & GOWNS	Kennard and Kennard, 84 Greek St., Glebe	23393	1950	Premise Match	54m	West
	CLOTHING MANUFACTURERS &/OR WHOLESALERS-MEN'S & BOYS	Kennard and Kennard, 84 Greek St., Glebe	23669	1950	Premise Match	54m	West
	CLOTHING MFRS. &/OR WHOLESALERS LADIES' MANTLES	Kennard and Kennard, 84 Greek St., Glebe	23918	1950	Premise Match	54m	West
	CLOTHING MFRS. &/OR WHOLESALERS UNDERWEAR	Kennard and Kennard, 84 Greek St., Glebe	24338	1950	Premise Match	54m	West
	CLOTHING MFRS. &/OR WHOLESALERS-BABIES & CHILDREN'S	Kennard and Kennard, 84 Greek St., Glebe	24537	1950	Premise Match	54m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
16	CLOTHING MFRS. &/OR WHOLESALERS-GENERAL	Kennard and Kennard, 84 Greek St., Glebe	24902	1950	Premise Match	54m	West
	CLOTHING MFRS. &/OR WHOLESALERS-WATERPROOF	Kennard and Kennard, 84 Greek St., Glebe	25224	1950	Premise Match	54m	West
	MANCHESTER MFRS. &/OR WHOLESALERS	Kennard and Kennard, 84 Greek St., Glebe	70249	1950	Premise Match	54m	West
	TOY DEALERS-WHOLESALE	Kennard and Kennard, 84 Greek St., Glebe	109702	1950	Premise Match	54m	West
	HANDLE MANUFACTURERS &/OR WHOLESALERS	Kennard Bros. Ltd. (Tool), 15-31 Francis St., Glebe	60796	1950	Premise Match	54m	West
	ALUMINIUMWARE DISTRIBUTORS & WHOLESALERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	1693	1950	Premise Match	54m	West
	BROOM & BRUSH-SWEEPING-WHOLESALE	Kennard Bros. Ltd., 15-31 Francis St., Glebe	11506	1950	Premise Match	54m	West
	CHINA & CROCKERY IMPORTERS &/OR WHOLESALERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	22229	1950	Premise Match	54m	West
	GLASSWARE & CRYSTALWARE IMPORTERS &/OR WHOLESALERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	54684	1950	Premise Match	54m	West
	HARDWARE MERCHANTS-WHOLESALE	Kennard Bros. Ltd., 15-31 Francis St., Glebe	61623	1950	Premise Match	54m	West
	KITCHENWARE WHOLESALERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	67084	1950	Premise Match	54m	West
	MERCHANTS & IMPORTERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	75265	1950	Premise Match	54m	West
	MOP MANUFACTURERS &/OR WHOLESALERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	81447	1950	Premise Match	54m	West
	TOOL WHOLESALERS	Kennard Bros. Ltd., 15-31 Francis St., Glebe	109248	1950	Premise Match	54m	West
	TRAVEL GOODS-WHOLESALE	Kennard Bros. Ltd., 15-31 Francis St., Glebe	110597	1950	Premise Match	54m	West
	CHINA & CROCKERY IMPORTERS &/OR WHOLESALERS	Kennard Bros., 15-31 Francis St., Glebe	22230	1950	Premise Match	54m	West
	ALUMINIUMWARE DISTRIBUTORS & WHOLESALERS	Kennard Bros., 15-31 Francis St., Glebe	1694	1950	Premise Match	54m	West
	BROOM & BRUSH-SWEEPING-WHOLESALE	Kennard Bros., 15-31 Francis St., Glebe	11507	1950	Premise Match	54m	West
	HARDWARE MERCHANTS-WHOLESALE	Kennard Bros., 15-31 Francis St., Glebe	61624	1950	Premise Match	54m	West
	KITCHENWARE WHOLESALERS	Kennard Bros., 15-31 Francis St., Glebe	67085	1950	Premise Match	54m	West
	MERCHANTS & IMPORTERS	Kennard Bros., 15-31 Francis St., Glebe	75267	1950	Premise Match	54m	West
	MOP MANUFACTURERS &/OR WHOLESALERS	Kennard Bros., 15-31 Francis St., Glebe	81448	1950	Premise Match	54m	West
	TOOL HANDLE WHOLESALERS	Kennard Bros., 15-31 Francis St., Glebe	109046	1950	Premise Match	54m	West
	ELECTRIC MOTOR INSTALLATION & MAINTENANCE SPECIALISTS	Lawrence, E. E. and Co., 35a Bay St., Glebe	36903	1950	Premise Match	54m	West
	ELECTRIC MOTORS-DEALERS &/OR WHOLESALE	Lawrence, E. E. and Co., 35a Bay St., Glebe	36997	1950	Premise Match	54m	West
	FOOTWEAR MANUFACTURERS-BOOTS & SHOES	T. and J. Shoe Ltd., 45 Francis St., Glebe	46933	1950	Premise Match	54m	West
17	Dye &/or Dyestuff Mfrs &/or Imps &/or Dists	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St. Broadway 2007	41766	1991	Premise Match	55m	North West
	PAINT - DRY COLOURS &/OR PIGMENT - MFRS. &/OR IMPS. &/OR SUPPLIERS.	Hodgsons Dye Agencies Pty. Ltd, 56 Bay St., Broadway. 2007	71461	1986	Premise Match	55m	North West
	CHEMICAL MFRS. &/OR IMPS. &/OR DISTS.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	13669	1986	Premise Match	55m	North West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
17	CONCRETE ADDITIVES COLOURING-WATER PROOFING ETC. MFRS. &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	19694	1986	Premise Match	55m	North West
	DYE &/OR BLEACH MFRS. &/OR IMPS. &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	25709	1986	Premise Match	55m	North West
	IMPORTERS.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	47686	1986	Premise Match	55m	North West
	MANUFACTURERS AGENTS.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	52570	1986	Premise Match	55m	North West
	DYE &/OR BLEACH MFRS. &/OR IMPS. &/OR DIST. (D9500)	Hodgsons Dye Agencies Pty. Ltd, 56 Bay St., Broadway. 2007.	24230	1982	Premise Match	55m	North West
	CEMENT ADDITIVES MFRS. &/OR DIST. (C3090)	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007.	14146	1982	Premise Match	55m	North West
	CHEMICAL MFRS. &/OR IMPS.&/OR DIST. (C3855)	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007.	14442	1982	Premise Match	55m	North West
	CONCRETE ADDITIVES- COLOURING - WATER PROOFING ETC. MFRS. &/OR DIST. (C6535)	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007.	17484	1982	Premise Match	55m	North West
	IMPORTERS. (I0750)	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007.	41593	1982	Premise Match	55m	North West
	MANUFACTURERS AGENTS, (M0800)	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007.	46238	1982	Premise Match	55m	North West
	PAINT-DRY COLOURS- PIGMENT MFRS. &/OR DIST. (P0340)	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007.	62353	1982	Premise Match	55m	North West
	CONCRETE WATERPROOFING&/OR COLOURING OXIDES MFRS.CC7155)	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway. 2007.	17750	1982	Premise Match	55m	North West
	CONCRETE WATERPROOFING &/OR COLOURING OXIDES MFRS.	Hodgsons Dye Agencies Pty. Ltd. 56-58 Bay St., Broadway, 2007	16034	1978	Premise Match	55m	North West
	CEMENT ADDITIVES MFRS. &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St, Broadway. 2007	12286	1978	Premise Match	55m	North West
	CHEMICAL MFRS. &/OR DIST. &/OR IMPS.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St, Broadway. 2007	12578	1978	Premise Match	55m	North West
	CONCRETE ADDITIVES- COLOURING - WATER PROOFING ETC. MFRS. &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St, Broadway. 2007	15797	1978	Premise Match	55m	North West
	DYE &/OR BLEACH MFRS. &/OR IMPS. &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St, Broadway. 2007	21175	1978	Premise Match	55m	North West
	IMPORTERS.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St, Broadway. 2007	36919	1978	Premise Match	55m	North West
	MANUFACTURERS AGENTS.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St, Broadway. 2007	41304	1978	Premise Match	55m	North West
	PAINT-DRY COLOURS- PIGMENT MFRS.&/OR DIST	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	55377	1978	Premise Match	55m	North West
	CEMENT ADDITIVES MFRS. &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway, 2007	12272	1978	Premise Match	55m	North West
	CEMENT ADDITIVES MFRS. &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd. 56-58 Bay St., Broadway, 2007	14200	1975	Premise Match	55m	North West
	CHEMICAL MFRS. &/OR DIST. &/OR IMPS	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St, Broadway. 2007	14541	1975	Premise Match	55m	North West
	DYE &/OR BLEACH MFRS. &/OR IMPS &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	24656	1975	Premise Match	55m	North West
	IMPORTERS.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	43725	1975	Premise Match	55m	North West
	PAINT-DRY COLOURS- PIGMENT MFRS. &/OR DIST.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007	65288	1975	Premise Match	55m	North West
	MANUFACTURERS AGENTS.	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway. 2007.	48795	1975	Premise Match	55m	North West
	CONCRETE WATERPROOFING &/OR COLOURING OXIDES MFRS.	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway. 2007	18598	1975	Premise Match	55m	North West

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17	CHEMICAL MANUFACTURERS &/OR DISTRIBUTORS (C268)	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway	279407	1970	Premise Match	55m	North West
	PAINT-DRY COLOURS/PIGMENT-MFRS/DISTRIBUTORS (P 020)	Hodgsons Dye Agencies Pty. Ltd., 56 Bay St., Broadway.	346500	1970	Premise Match	55m	North West
	CHEMICAL IMPORTERS &/OR DISTRIBUTORS (C265)	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	279234	1970	Premise Match	55m	North West
	CONCRETE WATERPROOFING & COLOURING OXIDES MFRS. (C605)	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	285298	1970	Premise Match	55m	North West
	DYE & BLEACH MANUFACTURERS,IMPORTS. &/OR DIST.(D820)	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	292884	1970	Premise Match	55m	North West
	IMPORTERS (I200)	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	318399	1970	Premise Match	55m	North West
	MANUFACTURERS' AGENTS (M112)	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	324973	1970	Premise Match	55m	North West
	Fibre & Fibre Goods Mfrs. &/or Distributors	Duro (N.S.W.) Pty. Ltd., 58a Bay St., Broadway	85801	1965	Premise Match	55m	North West
	Leather Goods Mfrs. &/or Wholesalers	Duro (N.S.W.) Pty. Ltd., 58a Bay St., Broadway	107493	1965	Premise Match	55m	North West
	Plastic Goods Manufacturers	Duro (N.S.W.) Pty. Ltd., 58a Bay St., Broadway	133899	1965	Premise Match	55m	North West
	Travel Goods Mfrs.	Duro (N.S.W.) Pty. Ltd., 58a Bay St., Broadway	154004	1965	Premise Match	55m	North West
	Travel Goods Wholesalers	Duro (N.S.W.) Pty. Ltd., 58a Bay St., Broadway	154129	1965	Premise Match	55m	North West
	Chemical Importers &/or Distributors	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	64020	1965	Premise Match	55m	North West
	Chemists - Industrial	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	64412	1965	Premise Match	55m	North West
	Concrete Waterproofing & Colouring Oxides Mfrs.	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	69979	1965	Premise Match	55m	North West
	Dye & Bleach Manufacturers Imports. &/or Dists.	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	76670	1965	Premise Match	55m	North West
	Importers	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	102620	1965	Premise Match	55m	North West
	Manufacturers' Agents	Hodgsons Dye Agencies Pty. Ltd., 56-58 Bay St., Broadway	109595	1965	Premise Match	55m	North West
	Merchants/Importers	Hodgsons Dye Agencies Pty. Ltd., Bay St.	113790	1965	Premise Match	55m	North West
	Paint - Dry Colours/Pigment - Manufacturers/Distributors	Hodgsons Dye Agencies Pty. Ltd., Bay St.	130427	1965	Premise Match	55m	North West
	BAKING POWDER MFRS.	McKenzie, J. F. and Co. Pty. Ltd., 56 Bay St.	271107	1961	Premise Match	55m	North West
	JELLY CRYSTAL MFRS.	McKenzie, J. F. and Co. Pty. Ltd., 56 Bay St.	328938	1961	Premise Match	55m	North West
	COFFEE ESSENCE MFRS.	McKenzie, Jas. and Co. Pty. Ltd., 56-58 Bay St., Glebe	291990	1961	Premise Match	55m	North West
	MERCHANTS/IMPORTERS	McKenzie, Jas. F. & Co. Pty. Ltd., 56-58 Bay St., Broadway	337576	1961	Premise Match	55m	North West
	MILLERS/GRISTERS	McKenzie, Jas. F. & Co. Pty. Ltd., 56-58 Bay St., Broadway	339796	1961	Premise Match	55m	North West
	OATMEAL/ROLLED OATS MFRS:	McKenzie, Jas. F. & Co. Pty. Ltd., 56-58 Bay St., Broadway	354267	1961	Premise Match	55m	North West
	SALINE POWDER MFRS.	McKenzie, Jas. F. & Co. Pty. Ltd., 56-58 Bay St., Broadway	247305	1961	Premise Match	55m	North West
	BAKING POWDER MANUFACTURERS	McKenzie, J. F. and Co. Pty. Ltd, 56 Bay St.	5559	1950	Premise Match	55m	North West
	JELLY CRYSTAL MANUFACTURERS	McKenzie, J. F. and Co. Pty. Ltd., 56 Bay St.	65549	1950	Premise Match	55m	North West
	SALINE POWDER MANUFACTURERS	McKenzie, Jas. and Co. Pty. Ltd., 56-58 Bay St., Broadway	100175	1950	Premise Match	55m	North West
	MILLERS & GRISTERS	McKenzie, Jas. and Co. Pty. Ltd. (Rice), 56-58 Bay St., Glebe	78340	1950	Premise Match	55m	North West

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17	RICE MILLERS	McKenzie, Jas. and Co. Pty. Ltd., 56-58 Bay St., Broadway	99522	1950	Premise Match	55m	North West
	COFFEE ESSENCE MANUFACTURERS	McKenzie, Jas. and Co. Pty. Ltd., 56-58 Bay St., Glebe	25601	1950	Premise Match	55m	North West
	OARS MANUFACTURED TO OWN SPECIFICATION	McKenzie, Jas. and Co. Pty. Ltd., 56-58 Bay St., Glebe	89405	1950	Premise Match	55m	North West
	MERCHANTS & IMPORTERS	McKenzie, Jas. and Co. Pty. Ltd., 56-58 Bay St., Glebe	75386	1950	Premise Match	55m	North West
18	PLASTIC GOODS MFRS.	B & S. Industries Pty. Ltd., 33 Mountain St., Broadway. 2007	57648	1978	Premise Match	55m	North
	KNITTED GOODS MFRS. &/OR KNITTING MILLS.	B. & S. Industries Pty. Ltd., 33 Mountain St., Broadway. 2007	39375	1978	Premise Match	55m	North
	DYERS &/OR BLEACHERS-TRADE.	Sydney Dyes & Bleachers Pty. Ltd., 33 Mountain St., Broadway. 2007	21198	1978	Premise Match	55m	North
	PLASTIC GOODS MFRS.	B & S. Industries Pty Ltd., 33 Mountain St., Broadway. 2007	67887	1975	Premise Match	55m	North
	BAG &/OR SACK MFRS.	B. & S. Industries Pty. Ltd., 33 Mountain St., Broadway. 2007	4017	1975	Premise Match	55m	North
	KNITTED GOODS MFRS. &/OR KNITTING MILLS.	B. & S. industries Pty. Ltd., 33 Mountain St., Broadway. 2007	46486	1975	Premise Match	55m	North
	LEATHER GOODS MFRS. &/OR WHOLESALE (L400)	Aristocrat Leathergoods Pty. Ltd., 33 Mountain St., Broadway	322934	1970	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS(M6S6)	Gillies, D. H., 33 Mountain St., Broadway	337864	1970	Premise Match	55m	North
	Buildings	Athlone House, 33 Mountain St., Ultimo	56667	1965	Premise Match	55m	North
	Motor Service Stations - Petrol, Oil, Etc.	Gillies, D. H. & Son, 33 Mountain St. Sydney	125333	1965	Premise Match	55m	North
	Motor Garages & Engineers	Gillies, D. H., 33 Mountain St., Broadway, Sydney	122042	1965	Premise Match	55m	North
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Gillies, D. H. & Son, 33 Mountain St. Broadway	350604	1961	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS	Gillies, D. H., 33 Mountain St., Broadway	347226	1961	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS	Gillies, D. H., 33 Mountain St., Broadway	83801	1950	Premise Match	55m	North
	MOTOR SERVICE STATIONS-PETROL, Etc.	Gillies, D., 33 Mountain St., Broadway	85992	1950	Premise Match	55m	North
	TOILET PREPARATIONS MANUFACTURERS	Lambert Pharmacal Co. (Aust.) Pty. Ltd., 33 Mountain St.	108943	1950	Premise Match	55m	North
	TOOTH BRUSH MANUFACTURERS	Lambert Pharmacal Co. (Aust.) Pty. Ltd., 33 Mountain St.	109275	1950	Premise Match	55m	North
	CHEMISTS-MANUFACTURING & WHOLESALE	Lambert Pharmacal Co. Pty. Ltd., 33 Mountain St., Broadway	70551	1950	Premise Match	55m	North
	ANTISEPTIC MANUFACTURERS	Lambert Pharmacal Co., 33 Mountain St., Broadway	1923	1950	Premise Match	55m	North
	TOOTH PASTE MANUFACTURERS	Lambert Pharmacal Company, 33 Mountain St., Broadway	109284	1950	Premise Match	55m	North
	SKIN & HIDE MERCHANTS	Schute,. Bell, Badgery, Lumby Ltd., Bulk Store, 33 Mountain St., Broadway	102958	1950	Premise Match	55m	North
19	Motor Panel Beaters &/or Spray Painters	Gilkesons Auto Services, 11 Small St Broadway 2007	54405	1991	Premise Match	58m	East
	Photo Engravers	Graphic Arts Engraving, 11 Small St., Broadway. 2007	57196	1991	Premise Match	58m	East
	PHOTO ENGRAVERS.	Graphic Arts Engraving, 11 Small St., Broadway. 2007	72779	1986	Premise Match	58m	East
	TYPESETTING SPECIALISTS.	Graphic Arts Engraving, 11 Small St., Broadway. 2007	96103	1986	Premise Match	58m	East
	WIRE ROPE MERCHANTS. (W6760)	Wire Rope Services Pty. Ltd., 11 Small St, Ultimo. 2007.	85206	1982	Premise Match	58m	East
	WIRE ROPE MFRS. &/OR SPLICERS. (W6720)	Wire Rope Services Pty. Ltd., 11 Small St., Ultimo. 2007.	85193	1982	Premise Match	58m	East
	WIRE ROPE MERCHANTS.	Wire Rope Services Pty. Ltd., 11 Small St., Ultimo. 2007	75077	1978	Premise Match	58m	East
	WIRE ROPE MFRS. &/OR SPLICERS.	Wire Rope Services Pty. Ltd., 11 Small St., Ultimo. 2007	75058	1978	Premise Match	58m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
19	WIRE ROPE MFRS. &/OR SPLICERS.	Wire Rope Services Pty. Ltd., 11 Smail St., Ultimo. 2007	87584	1975	Premise Match	58m	East
	WIRE ROPE MERCHANTS.	Wire Rope Services Pty. Ltd., 11 Small St., Ultimo. 2007	87614	1975	Premise Match	58m	East
	WIRE ROPE MFRS. &/OR SPLICERS.	Wire Rope Services Pty. Ltd., 11 Small St., Ultimo. 2007	87596	1975	Premise Match	58m	East
	FOOTWEAR MFRS., REPAIRERS &/OR SUPPLIERS	Caddy, J. Pattern Service., 11 Small St., Broadway	305211	1970	Premise Match	58m	East
	PHOTO ENGRAVERS (P256)	GRAPHIC ARTS ENGRAVING PTY. LTD., 11 SMAIL St., BROADWAY, 2007	347708	1970	Premise Match	58m	East
	PHOTO ENGRAVERS (P256)	Graphic Arts Engraving Pty. Ltd., 11 Smail St., Broadway.	347709	1970	Premise Match	58m	East
	PRINTED CIRCUIT MFRS. (P780)	Graphic Arts Engraving Pty. Ltd., 11 Smail St., Broadway.	351610	1970	Premise Match	58m	East
	PRINTED CIRCUIT MFRS. (P780)	GRAPHIC ARTS PRINTED COMPONENTS., 11 SMAIL St., BROADWAY, 2007	351611	1970	Premise Match	58m	East
	WIRE ROPE MERCHANTS (W340)	Wire Rope Services Pty. Ltd, 11 Smail St, Ultimo.	374878	1970	Premise Match	58m	East
	WIRE ROPE MFRS. &/OR SPLICERS	Wire Rope Services Pty. Ltd., 11 Smail St, Ultimo	374890	1970	Premise Match	58m	East
	OPTICAL ENGINEERS	Australian Optical Co. Pty. Ltd., 11 Smail St., Ultimo	129750	1965	Premise Match	58m	East
	OPTICAL SUPPLIES - MFRG &/OR WHOLESALE	Australian Optical Co. Pty. Ltd., 11 Smail St., Ultimo	129757	1965	Premise Match	58m	East
	Footwear Mfrs. - Boots/Shoes	Caddy, J. Pattern Service, 11 Small St., Ultimo	88593	1965	Premise Match	58m	East
	Footwear Mfrs. - Children's/Infants'	Caddy, J. Pattern Service, 11 Small St., Ultimo	88690	1965	Premise Match	58m	East
	Footwear Mfrs. - Sandals	Caddy, J. Pattern Service, 11 Small St., Ultimo	88775	1965	Premise Match	58m	East
	Footwear Mfrs. - Skating	Caddy, J. Pattern Service, 11 Small St., Ultimo	88798	1965	Premise Match	58m	East
	Footwear Mfrs., Repairers &/or Suppliers	Caddy, J. Pattern Service, 11 Small St., Ultimo	88736	1965	Premise Match	58m	East
	Photo Engravers	Graphic Arts Engraving Pty. Ltd., 11 Smail St., Broadway	132221	1965	Premise Match	58m	East
	STEREOTYPERS—METAL, PLASTIC, RUBBER	Sinclair Stereo Service Pty. Ltd., 11 Smail St., Ultimo	148658	1965	Premise Match	58m	East
	Typesetters - Trade	Sinclair Type Setting Pty. Ltd., 11 Small St., Ultimo	154278	1965	Premise Match	58m	East
	PHOTO ENGRAVERS	Graphic Arts Engraving Pty Ltd 11 Smail St., Broadway	357458	1961	Premise Match	58m	East
	PHOTO ENGRAVERS	Graphic Arts Engraving Pty. Ltd., 11 Smail St., Broadway	357459	1961	Premise Match	58m	East
	LEATHER/GRINDERY MERCH.	Kennon & Sons (N.S.W.) Pty. Ltd., 11 Small St., Ultimo	331240	1961	Premise Match	58m	East
	TANNERS/LEATHER MFRS.	Kennon & Sons (N.S.W.) Pty. Ltd., 11 Small St., Ultimo	255357	1961	Premise Match	58m	East
	LEATHER GOODS RETAILERS	Kennon, J. & Sons (N.S.W.) Pty. Ltd., 11 Small St., Ultimo	331195	1961	Premise Match	58m	East
	SKIN/HIDE MERCHANTS	Kennon, J. & Sons N.S.W. Pty. Ltd., 11 Small St., Ultimo	250692	1961	Premise Match	58m	East
	STEREOTYPERS-METAL, PLASTIC, RUBBER	Sinclair Stereo Service Pty Ltd 11 Smail St., Ultimo	253960	1961	Premise Match	58m	East
	STEREOTYPERS-METAL, PLASTIC, RUBBER	Sinclair Stereo Service Pty. Ltd., 11 Small St., Ultimo	253961	1961	Premise Match	58m	East
	TYPESETTERS-TRADE	Sinclair Type Setting Pty Ltd 11 Smail St., Ultimo	259819	1961	Premise Match	58m	East
	TYPESETTERS-TRADE	Sinclair Type Setting Pty. Ltd., 11 Smail St., Ultimo	259820	1961	Premise Match	58m	East
	SKIN & HIDE MERCHANTS	Kennon and Sons (N.S.W.) Pty. Ltd., 11 Smail St., Broadway	102933	1950	Premise Match	58m	East
	LEATHER & GRINDERY MERCHANTS	Kennon and Sons (N.S.W.) Pty. Ltd., 11 Small St., Ultimo	67990	1950	Premise Match	58m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
20	Corset Manufacturers	Dowd Associates Pty. Ltd., 13-15 Small St.	70663	1965	Premise Match	72m	East
	CORSET MANUFACTURERS	Dowd Associates Pty. Ltd., 13-15 Small St.	293299	1961	Premise Match	72m	East
	CLOTHING MFRS. &/OR W'SALERS-LADIES' SKIRTS	Scamp Pty. Ltd., 15 Smail St., Broadway	290504	1961	Premise Match	72m	East
	CLOTHING MFRS. &/OR W'SALERS-BLOUSES	Scamp Pty. Ltd., 15 Small St., Broadway	289236	1961	Premise Match	72m	East
	CLOTHING MFRS. &/OR WHOLESALERS SPORTSWEAR	Scamp Pty. Ltd., 15 Smail St., Broadway	24247	1950	Premise Match	72m	East
	CLOTHING MFRS. &/OR WHOLESALERS-GENERAL	Scamp Pty. Ltd., 15 Smail St., Broadway	25050	1950	Premise Match	72m	East
	CLOTHING MFRS. &/OR WHOLESALERS SPORTSWEAR	Turner Parachute Pty. Ltd. (The), 15 Smail St., Broadway	24261	1950	Premise Match	72m	East
	CLOTHING MFRS. &/OR WHOLESALERS-BABIES & CHILDREN'S	Turner Parachute Pty. Ltd. (The), 15 Smail St., Broadway	24614	1950	Premise Match	72m	East
21	FILM EQUIP MFRS	Permafilm Aust. Pty. Ltd., 63 Mountain St., Broadway. 2007	27501	1978	Premise Match	73m	South East
	FILM LABORATORIES &/OR PROCESSORS	Permafilm Aust. Pty. Ltd., 63 Mountain St., Broadway. 2007	27513	1978	Premise Match	73m	South East
	FILM LABORATORIES &/OR PROCESSORS.	Permafilm Aust. Pty. Ltd., 63 Mountain St., Broadway 2007	31715	1975	Premise Match	73m	South East
	FILM EQUIP MFRS.	Permafilm Aust. Pty. Ltd., 63 Mountain St., Broadway. 2007	31702	1975	Premise Match	73m	South East
	FILM EQUIPMENT IMPORTERS &/OR DISTRIBUTORS (F135)	Permafilm Aust. Pty. Ltd., 63 Mountain St., Broadway, 2007	302630	1970	Premise Match	73m	South East
	FILM LABORATORIES/PROCESSOR S (F150)	Permafilm Aust. Pty. Ltd., 63 Mountain St., Broadway, 2007	302657	1970	Premise Match	73m	South East
	Importers	Calandra (N.S.W.) Pty. Ltd., 63 Mountain St., Broadway	102393	1965	Premise Match	73m	South East
	Food Importers	Calandra (N.S.W.) Pty. Ltd., 63 Mountain St., Broadway	88209	1965	Premise Match	73m	South East
	ENGINEERS SUPPLIES	Hobbs, F. and Co. (Packings), 63 Mountain St., Broadway	39690	1950	Premise Match	73m	South East
	CORK & CORKWOOD MERCHANTS	Hobbs, F. and Co., 63 Mountain St., Broadway	29048	1950	Premise Match	73m	South East
	ENGINEERS SUPPLIES-ASBESTOS PACKING	Hobbs, F. and Co., 63 Mountain St., Broadway	39770	1950	Premise Match	73m	South East
	CORK & CORKWOOD MANUFACTURERS	Industrial Gasket Co., 63 Mountain St., Broadway	29036	1950	Premise Match	73m	South East
	CORK & CORKWOOD MERCHANTS	Industrial Gasket Co., 63 Mountain St., Broadway	29049	1950	Premise Match	73m	South East
	GASKET MANUFACTURERS	Industrial Gasket Co., 63 Mountain St., Broadway	54137	1950	Premise Match	73m	South East
22	Photographic Equipment &/or Supplies Mfrs &/or Imps &/or Dists	Kennedy C.R. & Co. Pty. Ltd., 29 Mountain St., Ultimo. 2007	57470	1991	Premise Match	74m	North
	PHOTOGRAPHIC EQUIPMENT &/OR IMPS. &/OR DIST.	Kennedy, C. R. & Co. Pty. Ltd., 29 Mountain St., Broadway. 2007	73214	1986	Premise Match	74m	North
	PHOTOGRAPHIC EQUIPMENT DEALERS	Kennedy, C. R. (Sales) Pty. Ltd, 29 Mountain St., Broadway. 2007.	63742	1982	Premise Match	74m	North
	CHEMICAL MFRS. &/OR IMPS.&/OR DIST. (C3855)	Kennedy, C. R. (Sales) Pty. Ltd., 29 Mountain St., Broadway. 2007	14454	1982	Premise Match	74m	North
	BATTERY MFRS. &/OR DIST.	Chloride Batteries Australia Ltd., 29 Mountain St., Broadway. 2007	4511	1978	Premise Match	74m	North
	BATTERY MFRS. &/OR DIST.	Exide Batteries. 29 Mountains. Broadway. 2007	4516	1978	Premise Match	74m	North
	CHEMICAL MFRS. &/OR DIST. &/OR IMPS.	Kennedy. C. R. (Sales) Pty. Ltd., 29 Mountain St., Broadway. 2007	12592	1978	Premise Match	74m	North
	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPS.	Kennedy. C. R. (Sales) Pty. Ltd., 29 Mountain St., Broadway. 2007	56723	1978	Premise Match	74m	North

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
22	BATTERY MFRS. &/OR DIST.	Masse Batteries, 29 Mountain St., Broadway. 2007	4532	1978	Premise Match	74m	North
	BATTERY MFRS. &/OR DIST.	Vesta Batteries, 29 Mountain St., Broadway. 2007	4548	1978	Premise Match	74m	North
	BATTERY MFRS. &/OR DIST.	Chloride Batteries Australia Ltd., 29 Mountain St., Broadway. 2007	4706	1975	Premise Match	74m	North
	BATTERY MFRS. &/OR DIST.	Exide Batteries, 29 Mountain St., Broadway. 2007	4715	1975	Premise Match	74m	North
	CHEMICAL MFRS. &/OR DIST. &/OR IMPS	Kennedy, C. R. Sales Pty. Ltd., 29 Mountain St., Broadway. 2007	14552	1975	Premise Match	74m	North
	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPS.	Kennedy, C. R. Sales Pty. Ltd., 29 Mountain St., Broadway. 2007	66861	1975	Premise Match	74m	North
	BATTERY MFRS. &/OR DIST.	Masse Batteries, 29 Mountain St., Broadway. 2007	4733	1975	Premise Match	74m	North
	BATTERY MFRS. &/OR DIST.	Vesta Batteries, 29 Mountain St., Broadway. 2007	4752	1975	Premise Match	74m	North
	ELECTRIC FURNACE MFRS.&/OR DISTRIBUTORS (E130)	Australian Electric Furnace Co. Pty. Ltd., 29 Mountain St., Broadway	293652	1970	Premise Match	74m	North
	FURNACE MANUFACTURERS (F678)	Australian Electric Furnace Co. Pty. Ltd., 29 Mountain St., Broadway	308395	1970	Premise Match	74m	North
	AUTOMATIC CONTROL EQUIPMENT IMPS. &/OR DIST.	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	263886	1970	Premise Match	74m	North
	BOILER PLANT IMPS. &/OR DIST.(B495)	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	267838	1970	Premise Match	74m	North
	BOILERMAKERS (B510)	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	267928	1970	Premise Match	74m	North
	BRICK, PIPE & TILE MFRS.' MACHINERY (B718)	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	269649	1970	Premise Match	74m	North
	ENGINEERS-FURNACE/COMBUSTION (E605)	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	298780	1970	Premise Match	74m	North
	PICTURE THEATRE EQUIPMENT &/OR SUPPLIES (P348)	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	348803	1970	Premise Match	74m	North
	Electric Furnace Mfrs. &/or Distributors	Australian Electric Furnace Co. Pty. Ltd., 29 Mountain St., Broadway	77443	1965	Premise Match	74m	North
	Furnace Mfrs.	Australian Electric Furnace Co. Pty. Ltd., 29 Mountain St., Broadway	92567	1965	Premise Match	74m	North
	BOILERMAKERS	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	52360	1965	Premise Match	74m	North
	Boiler Plant Imps. &/Or Dists.	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	52272	1965	Premise Match	74m	North
	Engineers General &/or Mfrg. &/or Mechanical	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	82487	1965	Premise Match	74m	North
	Picture Theatre Equipment &/or Supplies	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	133141	1965	Premise Match	74m	North
	ELECTRIC FURNACE MFRS. &/OR DISTRIBUTORS	Australian Electrical Furnace Co Pty Ltd., 29 Mountain St., Broadway.	300469	1961	Premise Match	74m	North
	ELECTRIC FURNACE MFRS. &/OR DISTRIBUTORS	Australian Electrical Furnace Co. Pty. Ltd., 29 Mountain St., Broadway.	300448	1961	Premise Match	74m	North
	ENGINEERS-GENERAL/MFRG./MECHANICAL	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	306599	1961	Premise Match	74m	North
	BOILERMAKERS	Hudson & West Pty. Ltd., 29 Mountain St., Broadway	273940	1961	Premise Match	74m	North
	CONTRACTORS-GENERAL	Ward, George Pty. Ltd., 29 Mountain St., Broadway	292908	1961	Premise Match	74m	North
	MUSICAL INSTRUMENT REPAIRERS/RECONDITIONERS	Ward, George Pty. Ltd., 29 Mountain St., Broadway	352828	1961	Premise Match	74m	North
	ENGINEERS-PRECISION	Gillies, F., 31 Mountain St, Broadway	41855	1950	Premise Match	74m	North
	DIE & PRESS TOOL MAKERS	Gillies, F., 31 Mountain St., Broadway	32694	1950	Premise Match	74m	North
	TOOL MAKERS	Gillies, F., 31 Mountain St., Broadway	109124	1950	Premise Match	74m	North

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
22	KNITTED GOODS MFRS. & KNITTING MILLS	Goulburn Knitting Mills (1947) Pty. Ltd., 31 Mountain St.	67230	1950	Premise Match	74m	North
	COTTON TEXTILE & PIECE GOODS MFRS.	Goulburn Knitting Mills Pty. Ltd., 29-31 Mountain St., Broadway	29328	1950	Premise Match	74m	North
	RUBBER GOODS MANUFACTURERS	Reversible Belts and Mats Pty. Ltd., 29-31 Mountain St., Broadway	99809	1950	Premise Match	74m	North
	BELTING MANUFACTURERS	Reversible Belts and Mats Pty. Ltd., Factory, 29-31 Mountain St., Broadway	8139	1950	Premise Match	74m	North
	MATting MFRS. &/OR WHOLESALERS	Reversible Belts and Mats Pty. Ltd., Factory, 29-31 Mountain St., Broadway	72181	1950	Premise Match	74m	North
23	CLOTHING MFRS. &/OR W'SALERS-KNITTED GOODS	Moon Ray Mills Pty. Ltd., 52 Bay St., Broadway	282675	1970	Premise Match	74m	North West
	KNITTING MILLS (K095)	Moonray Mills Pty. Ltd., 52 Bay St., Broadway	322201	1970	Premise Match	74m	North West
	YARN MANUFACTURERS (Y020)	Moonray Mills Pty. Ltd., 52 Bay St., Broadway	375633	1970	Premise Match	74m	North West
	CLOTHING MFRS &/OR W'SALERS - BLOUSES	Pasadena Pty. Ltd., 52 Bay St., Broadway	282250	1970	Premise Match	74m	North West
	CLOTHING MFRS. & W'SALERS-MATERNITY WEAR (C457).	Pasadena Pty. Ltd., 52 Bay St., Broadway	282090	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS. - SPORTSWEAR	Pasadena Pty. Ltd., 52 Bay St., Broadway	283690	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS - LADIES' COATS & COSTUMES	Pasadena Pty. Ltd., 52 Bay St., Broadway	282810	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS - LADIES' SKIRTS	Pasadena Pty. Ltd., 52 Bay St., Broadway	283223	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-GENERAL (C438)	Pasadena Pty. Ltd., 52 Bay St., Broadway	282499	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-INDUSTRIAL	Pasadena Pty. Ltd., 52 Bay St., Ultimo	282579	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS. - BABY &/OR CHILDRENS WEAR	Reliable Clothing Co. Pty. Ltd., 52 Bay St.	282260	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS. - SPORTSWEAR	Reliable Clothing Co. Pty. Ltd., 52 Bay St., Broadway	283699	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-UNDERWEAR	Reliable Clothing Co. Pty. Ltd., 52 Bay St., Broadway	283829	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS. - SHIRT &/OR PYJAMA	Reliable Clothing Co. Pty. Ltd., 52-54 Bay St., Broadway	283527	1970	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-GENERAL (C438)	Reliable Clothing Co. Pty. Ltd., 52-54 Bay St., Broadway	282506	1970	Premise Match	74m	North West
	PRINTERS-LITHOGRAPHIC (OFFSET)(P810)	Snelling Printing Works Pty. Ltd. (The)., 52 Bay St., Broadway	352732	1970	Premise Match	74m	North West
	PRINTERS-LETTERPRESS (P806)	Snelling Printing Works Pty. Ltd. (The)., 52 Bay St., Broadway.	352352	1970	Premise Match	74m	North West
	Clothing Mfrs. & W'salers - Maternity Wear	Pasadena Pty. Ltd., 52 Bay St., Ultimo	67950	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - Industrial	Pasadena Pty. Ltd., 52 Bay St., Ultimo	67205	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - Ladies' Dresses & Gowns	Pasadena Pty. Ltd., 52 Bay St., Ultimo	67701	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - Ladies' Skirts	Pasadena Pty. Ltd., 52 Bay St., Ultimo	67915	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - Sportswear	Pasadena Pty. Ltd., 52 Bay St., Ultimo	68396	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - Blouses	Pasadena Pty. Ltd., 52-54 Bay St., Ultimo	66892	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - Baby &/or Children's Wear	Reliable Clothing Co. Pty. Ltd., 52 Bay St.	66791	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - Sportswear	Reliable Clothing Co. Pty. Ltd., 52 Bay St., Broadway	68404	1965	Premise Match	74m	North West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
23	Clothing Mfrs. &/or W'salers - Underwear	Reliable Clothing Co. Pty. Ltd., 52 Bay St., Broadway	68555	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - General	Reliable Clothing Co. Pty. Ltd., 52-54 Bay St., Broadway	67126	1965	Premise Match	74m	North West
	Clothing Mfrs. &/or W'salers - Shirt & Pyjama	Reliable Clothing Co. Pty. Ltd., 52-54 Bay St., Broadway	68227	1965	Premise Match	74m	North West
	Printers - Letterpress	Snelling Printing Works Pty. Ltd., 52 Bay St., Broadway	136316	1965	Premise Match	74m	North West
	FOOTWEAR MFRS.-BOOTS/SHOES	Molloy and Grant, 52-54 Bay St., Broadway	312898	1961	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-LADIES' DRESSES & GOWNS	Pasadena Pty. Ltd., 52 Bay St., Ultimo	290234	1961	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-LADIES' SKIRTS	Pasadena Pty. Ltd., 52 Bay St., Ultimo	290496	1961	Premise Match	74m	North West
	CLOTHING MFRS. &/OR WHOLESALE-SPORTSWEAR	Pasadena Pty. Ltd., 52 Bay St., Ultimo	291188	1961	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-BLOUSES	Pasadena Pty. Ltd., 52-54 Bay St., Ultimo	289225	1961	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-BABY &/OR CHILDREN'S WEAR	Reliable Clothing Co. Pty. Ltd., 52 Bay St.	289111	1961	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-GENERAL	Reliable Clothing Co. Pty. Ltd., 52-54 Bay St., Broadway	289572	1961	Premise Match	74m	North West
	CLOTHING MFRS. &/OR W'SALERS-SHIRT & PYJAMA	Reliable Clothing Co. Pty. Ltd., 52-54 Bay St., Broadway	290811	1961	Premise Match	74m	North West
	PRINTERS-LETTERPRESS	Snelling Printing Works Pty. Ltd., 52 Bay St., Broadway	362446	1961	Premise Match	74m	North West
	FOOTWEAR MANUFACTURERS-BOOTS & SHOES	California Productions Ltd., 52 Bay St., Broadway	46748	1950	Premise Match	74m	North West
	NEWSPAPERS & PERIODICALS	Countrywoman In N.S.W. (The), 52 Bay St., Broadway	88673	1950	Premise Match	74m	North West
	CLOTHING MFRS. &/OR WHOLESALE SHIRT & PYJAMA	Greenwood's Textile Co. Pty. Ltd., 52-54 Bay St., Broadway	24133	1950	Premise Match	74m	North West
	WAREHOUSEMEN	Greenwood's Textile Co. Pty. Ltd., 52-54 Bay St., Broadway	112182	1950	Premise Match	74m	North West
	MERCHANTS & IMPORTERS	Greenwood's Textile Co. Pty. Ltd., 52-54 Bay St., Broadway	75122	1950	Premise Match	74m	North West
	FOOTWEAR MANUFACTURERS-BOOTS & SHOES	Molloy and Grant, 52-54 Bay St., Broadway	46864	1950	Premise Match	74m	North West
	BOOKBINDERS	Snelling Printing Works Pty. Ltd., 52 Bay St., Broadway	9277	1950	Premise Match	74m	North West
	PRINTERS-GENERAL	Snelling Printing Works Pty. Ltd., 52 Bay St., Broadway	95190	1950	Premise Match	74m	North West
	PRINTERS-GENERAL	Snelling Printing Works Pty. Ltd., 52 Bay St., Broadway	95165	1950	Premise Match	74m	North West
24	MOTOR TRIMMERS.	Ryan, R, 36 Glebe St, Glebe 2037	53295	1978	Premise Match	78m	North West
	UPHOLSTERERS.	Ryan, R., 36 Glebe St., Glebe. 2037	73146	1978	Premise Match	78m	North West
	ASPHALT & ASPHALTERS.	Armstrong Asphalt Pty. Ltd., 15 Franklin St., Glebe. 2037	3118	1975	Premise Match	78m	North West
	MOTOR CHASSIS STRAIGHTENERS &/OR REPAIRERS &/OR SPECIALISTS.	Baber R. Motors., 50 Glebe St., Glebe. 2037.	57645	1975	Premise Match	78m	North West
	WELDERS., Electric &/OR OXY.	Baber, R. Motors, 50 Glebe St., Glebe. 2037	86783	1975	Premise Match	78m	North West
	MOTOR GARAGES &/OR ENGINEERS.	Baber, R. Motors., 50 Glebe St., Glebe. 2037	58399	1975	Premise Match	78m	North West
	MOTOR PAINTERS.	Baber, R. Motors., 50 Glebe St., Glebe. 2037	59967	1975	Premise Match	78m	North West
	MOTOR PANEL BEATERS.	Baber, R. Motors., 50 Glebe St., Glebe. 2037	60603	1975	Premise Match	78m	North West

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24	METAL PRESSERS &/OR STAMPERS.	Belmont Metal Stamping Co. Pty. Ltd., 2 Glebe St., Glebe. 2037	52858	1975	Premise Match	78m	North West
	SHOP & OR/OFFICE FITTERS	Brier, W. F. Pty. Ltd., 61 Bay St., Glebe. 2037	77378	1975	Premise Match	78m	North West
	UPHOLSTERERS.	Ryan, R., 36 Glebe St., Glebe. 2037	85823	1975	Premise Match	78m	North West
	MOTOR TRIMMERS.	Ryan, R., 36 Glebe St., Glebe. 2037	62835	1975	Premise Match	78m	North West
	WELDERS-ELECTRIC &/OR OXY	Baber, R. Motors, 50 Glebe St, Glebe	373454	1970	Premise Match	78m	North West
	MOTOR CHASSIS STRAIGHTENERS &/OR REPAIRERS/SPECIALISTS (M574)	Baber, R. Motors., 50 Glebe St., Glebe	336476	1970	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS(M6S6)	Baber, R. Motors., 50 Glebe St., Glebe	337259	1970	Premise Match	78m	North West
	MOTOR PAINTERS (M672)	Baber, R. Motors., 50 Glebe St., Glebe	339109	1970	Premise Match	78m	North West
	MOTOR PANEL BEATERS (M680)	Baber, R. Motors., 50 Glebe St., Glebe	339833	1970	Premise Match	78m	North West
	TELEVISION EQUIPMENT IMPORTS., MFRS. &/OR DIST.	E.A.S. Manufacturing Pty. Ltd., 15 Franklin St., Glebe	367643	1970	Premise Match	78m	North West
	TELEVISION SET MANUFACTURERS/DISTRIBUTORS (T155)	E.A.S. Manufacturing Pty. Ltd., 15 Franklin St., Glebe	367704	1970	Premise Match	78m	North West
	ELECTROPLATERS (E370)	Electronic Coatings Pty. Ltd., 11 Franklin St., Glebe	296595	1970	Premise Match	78m	North West
	ENAMELLERS (E431)	Electronic Coatings Pty. Ltd., 11 Franklin St., Glebe	296874	1970	Premise Match	78m	North West
	PLASTIC COATING SPECIALISTS MATERIAL, ETC.	Electronic Coatings Pty. Ltd., 11 Franklyn St., Glebe	349329	1970	Premise Match	78m	North West
	Motor Garages & Engineers	Baber, R. Motors, 50 Glebe St. Glebe	122695	1965	Premise Match	78m	North West
	Motor Chassis Straighteners &/or Repairers/Specialists	Baber, R. Motors, 50 Glebe St., Glebe	121291	1965	Premise Match	78m	North West
	Motor Painters	Baber, R. Motors, 50 Glebe St., Glebe	123697	1965	Premise Match	78m	North West
	Motor Panel Beaters	Baber, R. Motors., 50 Glebe St., Glebe	124424	1965	Premise Match	78m	North West
	Welders - Electric &/or Oxy	Baber, R. Motors., 50 Glebe St., Glebe	156250	1965	Premise Match	78m	North West
	Enamellers	Industrial Plating Co, Pty. Ltd., 11 Franklin St., Glebe	80452	1965	Premise Match	78m	North West
	Road - Making Contractors	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	140738	1965	Premise Match	78m	North West
	Tile Fixers - Floor/Wall	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St. Glebe	151443	1965	Premise Match	78m	North West
	Asphalt & Asphalters	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	47178	1965	Premise Match	78m	North West
	Bitumen & Bituminous Products	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	51588	1965	Premise Match	78m	North West
	Floor Covering - Industrial - Specialists	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	87383	1965	Premise Match	78m	North West
	Paving Contractors	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	131936	1965	Premise Match	78m	North West
	TENNIS COURT CONSTRUCTION CONTRACTORS	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	150622	1965	Premise Match	78m	North West
	Tile Mfrs. &/or Dists. - Floor & Wall	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	151532	1965	Premise Match	78m	North West
	Floor Layers	N.S.W. Asphalte Co. Pty. Ltd., 15 Franklin St., Glebe	87410	1965	Premise Match	78m	North West
	DAMPCOURSE MFRS.	N.S.W. Asphalte Co., 15 Franklin St., Glebe	71675	1965	Premise Match	78m	North West
	Insulating Material Suppliers	Sheard, R. & Co., 61 Bay St., Glebe	104024	1965	Premise Match	78m	North West
	Builders & Contractors	Sheard, R. & G., 61 Bay St., Glebe	55613	1965	Premise Match	78m	North West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
24	Carpenters	Sheard, R. & G., 61 Bay St., Glebe	62288	1965	Premise Match	78m	North West
	Cool Room Builders	Sheard, R. & G., 61 Bay St., Glebe	70490	1965	Premise Match	78m	North West
	Cork & Corkboard Mfrs. &/or Merchants	Sheard, R. & G., 61 Bay St., Glebe	70618	1965	Premise Match	78m	North West
	FEATHER PROCESSORS	Australian Feather Mills Pty. Ltd., Rear 38 Glebe St., Glebe	309767	1961	Premise Match	78m	North West
	FEATHER DUSTER MFRS. &/OR DIST.	Australian Feather Mills Pty. Ltd., Rear 38-42 Glebe St., Glebe	309765	1961	Premise Match	78m	North West
	MOTOR TOWING SERVICES	Baber, R., 36 Glebe St., Glebe	352065	1961	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS	Baber, Ron, Rear 36 Glebe St. GLEBE	346577	1961	Premise Match	78m	North West
	MOTOR PAINTERS	Baber, Ron, Rear 36 Glebe St., Glebe	348632	1961	Premise Match	78m	North West
	MOTOR PANEL BEATERS	Baber, Ron, Rear 36 Glebe St., Glebe	349359	1961	Premise Match	78m	North West
	MOTOR WRECKERS	Baber, Ron, Rear 36 Glebe St., Glebe	352475	1961	Premise Match	78m	North West
	WELDERS-ELECTRIC &/OR OXY	Baber, Ron, Rear 36 Glebe St., Glebe	261887	1961	Premise Match	78m	North West
	CARPENTERS	Gilchrist, J., 61 Bay St., Glebe	284107	1961	Premise Match	78m	North West
	COOL ROOM BUILDERS	Gilchrist, J., 61 Bay St., Glebe	293073	1961	Premise Match	78m	North West
	INSULATING MATERIAL SUPPLIERS	Gilchrist, J., 61 Bay St., Glebe	327598	1961	Premise Match	78m	North West
	JOINERY MANUFACTURERS	Gilchrist, J., 61 Bay St., Glebe	329851	1961	Premise Match	78m	North West
	FURNITURE-TUBULAR STEEL-MFRS. &/OR W'SALERS	Glebe Ornament Iron & Steel Furniture Mfrs., 11-13 Franklin St., Glebe	318299	1961	Premise Match	78m	North West
	ANODISERS	Industrial Plating Co. Pty. Ltd., 11 Franklin St., Glebe	267919	1961	Premise Match	78m	North West
	ELECTROPLATERS	Industrial Plating Co. Pty. Ltd., 11 Franklin St., Glebe	303905	1961	Premise Match	78m	North West
	FURNITURE-TUBULAR STEEL-MFRS. &/OR W'SALERS	Industrial Plating Co. Pty. Ltd., 11 Franklin St., Glebe	318304	1961	Premise Match	78m	North West
	ASPHALT & ASPHALTERS	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	268962	1961	Premise Match	78m	North West
	BITUMEN & BITUMINOUS PRODUCTS	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	273147	1961	Premise Match	78m	North West
	FLOOR LAYERS	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	311535	1961	Premise Match	78m	North West
	ROAD-MAKING CONTRACTORS	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	246524	1961	Premise Match	78m	North West
	TENNIS COURT CONSTRUCTION CONTRACTORS	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	256076	1961	Premise Match	78m	North West
	TILE MFRS. &/OR DIST.-FLOOR & WALL	N.S.W. Asphalt Co. Pty. Ltd., 15 Franklin St., Glebe	256990	1961	Premise Match	78m	North West
	DAMPCOURSE MFRS.	N.S.W. Asphalt Co., 15 Franklin St., Glebe	294417	1961	Premise Match	78m	North West
	MOTOR TRIMMERS	Ryan, H. A., Rear 36 Glebe St., Glebe	352353	1961	Premise Match	78m	North West
	MOTOR PAINTERS	Ryan, H. A., Rear 36 Glebe St., Glebe.	349148	1961	Premise Match	78m	North West
	MOTOR PANEL BEATERS	Ryan, H. A., Rear 36 Glebe St., Glebe.	349932	1961	Premise Match	78m	North West
	MOTOR SPARE PARTS DEALERS—RETAIL	Wattle Spare Parts, 45 Bay St., Broadway	351783	1961	Premise Match	78m	North West
	MOTOR WRECKERS	Wattle Spare Parts, 45 Bay St., Broadway	352542	1961	Premise Match	78m	North West
	CHAIR MANUFACTURERS	Allison Furniture Co., 15 Franklin St., Glebe	20796	1950	Premise Match	78m	North West
	FURNITURE MANUFACTURERS & WHOLESALERS-GENERAL	Allison Furniture Co., 15 Franklin St., Glebe	52610	1950	Premise Match	78m	North West

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24	UPHOLSTERERS	Allison Furniture Co., 15 Franklin St., Glebe	111122	1950	Premise Match	78m	North West
	FEATHER PROCESSORS	Australian Feather Mills, 36 Glebe St., Glebe	43558	1950	Premise Match	78m	North West
	TAXI TRUCK OPERATORS	Broadway Taxi Truck, 40 Glebe St., Glebe	107198	1950	Premise Match	78m	North West
	COACH & HORSE DRAWN VEHICLE BUILDERS	Fitch, L., 36 Glebe St., Glebe	25476	1950	Premise Match	78m	North West
	MOTOR BODY BUILDERS	Fitch, L., 36 Glebe St., Glebe	82074	1950	Premise Match	78m	North West
	SHEET METAL WORKERS	Fulham, C., 6 Glebe St., Glebe	101706	1950	Premise Match	78m	North West
	FURNITURE MANUFACTURERS-TUBULAR STEEL	Glebe Ornament Iron and Steel Furniture Mfrs., 11-13 Franklin St., Glebe	53109	1950	Premise Match	78m	North West
	ORNAMENTAL IRON & STEEL WORKERS	Glebe Ornamental Iron & Steel Furniture Mfg., 11-13 Franklin St., Glebe	90364	1950	Premise Match	78m	North West
	METAL PRESSERS & STAMPERS	Glebe Ornamental Iron and Steel (Furniture Manufacturers), 11-13 Franklin St., Glebe	75969	1950	Premise Match	78m	North West
	ART & ORNAMENTAL METAL WORKERS	Glebe Ornamental Iron and Steel Furniture Manufacturers, 11-13 Franklin St., Glebe	2615	1950	Premise Match	78m	North West
	BLACKSMITHS	Glebe Ornamental Iron and Steel Furniture Manufacturers, 11-13 Franklin St., Glebe	8315	1950	Premise Match	78m	North West
	DIE & PRESS TOOL MAKERS	Glebe Ornamental Iron and Steel Furniture Manufacturers, 11-13 Franklin St., Glebe	32697	1950	Premise Match	78m	North West
	ENGINEERS-STRUCTURAL	Glebe Ornamental Iron and Steel Furniture Manufacturers, 11-13 Franklin St., Glebe	42426	1950	Premise Match	78m	North West
	STEEL FURNITURE MANUFACTURERS	Glebe Ornamental Iron and Steel Furniture Manufacturers, 11-13 Franklin St., Glebe	105190	1950	Premise Match	78m	North West
	WELDERS-ELECTRIC &/OR OXY	Glebe Ornamental Iron and Steel Furniture Manufacturers, 11-13 Franklin St., Glebe	112806	1950	Premise Match	78m	North West
	ORNAMENTAL IRON & STEEL WORKERS	Glebe Ornamental Iron and Steel Furniture Mfg., 11-13 Franklin St., Glebe	90365	1950	Premise Match	78m	North West
	FENCE & GATE MANUFACTURERS	Glebe Ornamental Iron and Steel Furniture Mfrs., 11 Franklin St., Glebe	43626	1950	Premise Match	78m	North West
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Glebe Ornamental Iron and Steel Furniture Mfrs., 11-13 Franklin St., Glebe	40744	1950	Premise Match	78m	North West
	ASPHALT & ASPHALTERS	N.S.W. Asphalt Co., 15 Franklin St., Glebe	3084	1950	Premise Match	78m	North West
	ASPHALT DAMPCOURSE SUPPLIERS & LAYERS	N.S.W. Asphalt Co., 15 Franklin St., Glebe	3091	1950	Premise Match	78m	North West
	ASPHALT MANUFACTURERS	N.S.W. Asphalt Co., 15 Franklin St., Glebe	3092	1950	Premise Match	78m	North West
	ASPHALTING CONTRACTORS	N.S.W. Asphalt Co., 15 Franklin St., Glebe	3095	1950	Premise Match	78m	North West
	BITUMEN & BITUMINOUS SUPPLIES	N.S.W. Asphalt Co., 15 Franklin St., Glebe	8251	1950	Premise Match	78m	North West
	FLOOR LAYERS	N.S.W. Asphalte Co. (Industrial), 15 Franklin St., Glebe	45586	1950	Premise Match	78m	North West
	FLOORING MATERIALS SPECIALISTS	N.S.W. Asphalte Co. 15 Franklin St., Glebe	45671	1950	Premise Match	78m	North West
	CONCRETE TILES-ROOF	N.S.W. Asphalte Co., 15 Franklin St., Glebe	28420	1950	Premise Match	78m	North West
	CONCRETE TILES-ROOF	N.S.W. Asphalte Co., 15 Franklin St., Glebe	28421	1950	Premise Match	78m	North West
	DAMPCOURSE MANUFACTURERS	N.S.W. Asphalte Co., 15 Franklin St., Glebe	30182	1950	Premise Match	78m	North West
	FLOOR LAYERS	N.S.W. Asphalte Co., 15 Franklin St., Glebe	45587	1950	Premise Match	78m	North West

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24	ROAD MAKING CONTRACTORS	N.S.W. Asphalte CO., 15 Franklin St., Glebe	99586	1950	Premise Match	78m	North West
	TENNIS COURT CONSTRUCTION CONTRACTORS	N.S.W. Asphalte Co., 15 Franklin St., Glebe	107661	1950	Premise Match	78m	North West
	TILE MANUFACTURERS-ROOFING-CONCRETE	N.S.W. Asphalte Co., 15 Franklin St., Glebe	108316	1950	Premise Match	78m	North West
25	Footwear Mfrs. - Children's/Infants'	Clarks Australia Ltd., 213-219 Broadway	88691	1965	Premise Match	78m	South West
	Footwear Mfrs. - Boots/Shoes	Clarks Australia Ltd., 2nd Floor, 213-219 Broadway	88599	1965	Premise Match	78m	South West
	Duplicating/Typing Specs.	Howard Hamilton & Co., Grace Bros. Bldg., 213-219 Broadway	76507	1965	Premise Match	78m	South West
	FOOTWEAR MFRS.-BOOTS/SHOES	Clarks Australia Ltd., 2nd Floor, 213-219 Broadway	312828	1961	Premise Match	78m	South West
	ELECTRIC FURNACE MFRS. &/OR DISTRIBUTORS	Hudson & West Pty. Ltd., 213-219 Broadway	300458	1961	Premise Match	78m	South West
	CHEMISTS-PHARMACEUTICAL	Maxwell, R. H. (Grace Bros. Building), 223 Broadway	21785	1950	Premise Match	78m	South West
26	FURNISHINGS-SOFT-MFRS. &/OR W/SALERS.	Trans World Textiles Australia, 23 Mountain St., Broadway. 2007	36640	1986	Premise Match	88m	North
	MANCHESTER MFRS. &/OR W/SALERS.	Trans World Textiles Australia, 23 Mountain St., Broadway. 2007	52393	1986	Premise Match	88m	North
	TEXTILE IMPS. &/OR W/SALERS.	Trans World Textiles Australia, 23 Mountain St., Broadway. 2007	92956	1986	Premise Match	88m	North
	DRESS FABRIC IMPS. &/OR W/SALERS. (D7100)	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007.	22308	1982	Premise Match	88m	North
	FURNISHINGS-SOFT-MFRS.&/OR W/SALERS. (F7230)	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007.	34250	1982	Premise Match	88m	North
	MANCHESTER MFRS. &/OR W/SALERS. (M0600)	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007.	46046	1982	Premise Match	88m	North
	DRESS FABRIC IMPS. &/OR W/SALERS.	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007	19771	1978	Premise Match	88m	North
	FURNISHINGS - SOFT - MFRS. &/OR W/SALERS.	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007	31093	1978	Premise Match	88m	North
	MANCHESTER MFRS. &/OR W/SALERS.	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007	41071	1978	Premise Match	88m	North
	DRESS FABRIC IMPS. &/OR W/SALERS	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007	22790	1975	Premise Match	88m	North
	FURNISHINGS - SOFT - MFRS. &/OR W/SALERS.	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007	36166	1975	Premise Match	88m	North
	MANCHESTER MFRS. &/OR W/SALERS.	Trans World Textiles Pty. Ltd., 23 Mountain St., Broadway. 2007.	48479	1975	Premise Match	88m	North
	Clothing Mfrs. &/or W'salers - Knitted Goods	Bystra Knitting Mills Pty. Ltd., 25 Mountain St., Broadway	67239	1965	Premise Match	88m	North
	Handkerchief Mfrs.	Heaney, Thomas & Sons Pty. Ltd., 23 Mountain St., Broadway	98936	1965	Premise Match	88m	North
	Buildings	Kelly House., 23 Mountain St. Sydney	56959	1965	Premise Match	88m	North
	Buildings	Mountain House., 25 Mountain St., Ultimo	57042	1965	Premise Match	88m	North
	ADVERTISING NOVELTY MFRS.	Ace Welded Plastics Company, 25-27 Mountain St., Ultimo	266560	1961	Premise Match	88m	North
	PLASTIC GOODS MFRS.	Ace Welded Plastics Company, 25-27 Mountain St., Ultimo	359207	1961	Premise Match	88m	North
	LEATHER GOODS MFRS. &/OR WHOLESALERS	Aristocrat Products Pty. Limited, 25 Mountain St., Ultimo	331011	1961	Premise Match	88m	North
	CLOTHING MFRS. &/OR W'SALERS-KNITTED GOODS	Bystra Knitting Mills, 25 Mountain St., Broadway	289659	1961	Premise Match	88m	North
	HANDKERCHIEF MFRS.	Heaney Thomas & Sons Pty Ltd 23 Mountain St., Broadway	322947	1961	Premise Match	88m	North
	ART NEEDLEWORK MFRS. &/OR WHOLESALERS	Heaney, Thomas & Sons Pty. Ltd., 23 Mountain St., Broadway	268722	1961	Premise Match	88m	North
	CLOTHING MFRS. &/OR W'SALERS-BABY &/OR CHILDREN'S WEAR	Heaney, Thomas & Sons Pty. Ltd., 23 Mountain St., Broadway	289048	1961	Premise Match	88m	North

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26	HANDKERCHIEF MFRS.	Heaney, Thomas & Sons Pty. Ltd., 23 Mountain St., Broadway	322948	1961	Premise Match	88m	North
	NAPERY SPECIALISTS	Heaney, Thomas & Sons Pty. Ltd., 23 Mountain St., Broadway	352981	1961	Premise Match	88m	North
	CLOTHING MFRS. &/OR W'SALERS-UNDERWEAR	K.M.G. Knitting Mills Pty. Ltd., 25 Mountain St., Broadway	291008	1961	Premise Match	88m	North
	CLOTHING MFRS. &/OR WHOLESALERS-GENERAL	Excelsior Clothing Co., 25 Mountain St., Broadway	24806	1950	Premise Match	88m	North
	CLOTHING MANUFACTURERS &/OR WHOLESALERS-MEN'S & BOYS	Excelsior Clothing Co., 25-27 Mountain St., Broadway	23654	1950	Premise Match	88m	North
	CLOTHING MFRS. &/OR WHOLESALERS LADIES' MANTLES	Excelsior Clothing Co., 25-27 Mountain St., Broadway	23882	1950	Premise Match	88m	North
	HANDKERCHIEF MANUFACTURERS	Heaney, Thomas & Co., 23 Mountain St., Broadway	60755	1950	Premise Match	88m	North
	HANDKERCHIEF MANUFACTURERS	Heaney, Thomas and Co., 23 Mountain St., Broadway	60756	1950	Premise Match	88m	North
	NAPERY SPECIALISTS	Heaney, Thos. and Co., 23 Mountain St., Broadway	87741	1950	Premise Match	88m	North
	CLOTHING MFRS. &/OR WHOLESALERS UNDERWEAR	K.M.G. Knitting Mills Pty. Ltd., 25 Mountain St., Broadway	24335	1950	Premise Match	88m	North
	KNITTED GOODS MFRS. & KNITTING MILLS	K.M.G. Knitting Mills Pty. Ltd., 25 Mountain St., Broadway	67247	1950	Premise Match	88m	North
27	IMPORTERS.	Trans World Agency & Importing Pty. Ltd., 50 Bay St, Broadway. 2007	47936	1986	Premise Match	92m	North
	CHINA &/OR CROCKERY MFRS. &/OR IMPS &/OR W/SALERS.	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007	15149	1986	Premise Match	92m	North
	FIREWORKS MFRS. &/OR W/SALERS &/OR RETAILERS.	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007	33029	1986	Premise Match	92m	North
	HOBBY &/OR HANDICRAFT SUPPLIES.	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007	46014	1986	Premise Match	92m	North
	TOY IMPS. &/OR W/SALERS.	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007	94673	1986	Premise Match	92m	North
	TRAVEL GOODS - WHOLESALE.	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007	95845	1986	Premise Match	92m	North
	IMPORTERS.	Wong, K. & Co., 50 Bay St., Broadway. 2007	47987	1986	Premise Match	92m	North
	FIREWORKS MFRS. &/OR W/SALERS &/OR RETAILERS. (F2450)	Trans World Agency & Importing Pty. Ltd., 50 Bay St, Broadway. 2007.	30833	1982	Premise Match	92m	North
	CHINA &/OR CROCKERY MFRS.&/OR IMPS &/OR W/SALERS.(C4290)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007.	15987	1982	Premise Match	92m	North
	HOBBY &/OR HANDICRAFT SUPPLIES. (H4250)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007.	40205	1982	Premise Match	92m	North
	IMPORTERS. (I0750)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007.	41839	1982	Premise Match	92m	North
	TOY IMPS. &/OR W/SALERS. (T6225)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007.	81307	1982	Premise Match	92m	North
	TRAVEL GOODS - WHOLESALE(T7550)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007.	82300	1982	Premise Match	92m	North
	IMPORTERS. (I0750)	Wong, K. & Co., 50 Bay St., Broadway. 2007.	41879	1982	Premise Match	92m	North
	FIREWORKS MFRS. &/OR W/SALERS &/OR RETAILERS.	Trans Work Agency & Importing Pty. Ltd., 50 Bay St, Broadway. 2007	27902	1978	Premise Match	92m	North
	CHINA &/OR CROCKERY MFRS. &/OR IMPS &/OR W/SALERS.	Trans World Agency & Importing Pty. Ltd, 50 Bay St, Broadway. 2007	14135	1978	Premise Match	92m	North
	IMPORTERS.	Trans World Agency & Importing Pty. Ltd, 50 Bay St, Broadway. 2007	37164	1978	Premise Match	92m	North
	TOY IMPS. &/OR W/SALERS.	Trans World Agency & Importing Pty. Ltd, 50 Bay St, Broadway. 2007	71812	1978	Premise Match	92m	North
	TRAVEL GOODS W/SALERS.	Trans World Agency & Importing Pty. Ltd, 50 Bay St, Broadway. 2007	72585	1978	Premise Match	92m	North

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27	TOY IMPS. &/OR W/SALERS.	Trans World Agency & Importing Pty. Ltd., 50 Bay St, Broadway. 2007	71760	1978	Premise Match	92m	North
	HOBBY &/OR HANDICRAFT SUPPLIES.	Trans World Agency & Importing Pty. Ltd., 50 Bay St, Broadway. 2007	35669	1978	Premise Match	92m	North
	IMPORTERS.	Wong, K. & Co., 50 Bay St., Broadway. 2007	37203	1978	Premise Match	92m	North
	HANDBAG MFRS. &/OR W/SALERS.	Trans World Agency & Importing Pty. Ltd., 50 Bay St. Broadway. 2007	41147	1975	Premise Match	92m	North
	HOBBY &/OR HANDICRAFT SUPPLIES.	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007	42149	1975	Premise Match	92m	North
	TOY IMPS. &/ORW/SALERS.	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007	84454	1975	Premise Match	92m	North
	TOY IMPS. &/ORW/SALERS.	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway. 2007	84519	1975	Premise Match	92m	North
	IMPORTERS.	Wong, K. & Co., 50 Bay St., Broadway. 2007	44022	1975	Premise Match	92m	North
	IMPORTERS (I200)	Trans World Agency & Importing Pty. Ltd., 50 Bay St, Broadway	318819	1970	Premise Match	92m	North
	EXPORTERS (E835)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	301888	1970	Premise Match	92m	North
	FIREWORKS SUPPLIERS &/OR SPECIALISTS (F215)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	303185	1970	Premise Match	92m	North
	FURNITURE-NURSERY-MFRS.&/OR WHOLESALERS (F760)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	309795	1970	Premise Match	92m	North
	HOBBY/HANDCRAFTS SUPPLIES(H440)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	316322	1970	Premise Match	92m	North
	TOY IMPORTERS &/OR WHOLESALERS(T540)	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	370400	1970	Premise Match	92m	North
	CHINA, & CROCKERY MFRS., IMPS. &/OR WHOLESALERS	Transworld Agency & Importing Pty. Ltd., 50 Bay St., Bdwy	281382	1970	Premise Match	92m	North
	IMPORTERS (I200)	Wong, K. & Co., 50 Bay St., Broadway	318883	1970	Premise Match	92m	North
	Exporters	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	85257	1965	Premise Match	92m	North
	Fireworks Suppliers &/or Specialists	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	86558	1965	Premise Match	92m	North
	Furniture - Nursery - Mfrs. &/or Wholesalers	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	93855	1965	Premise Match	92m	North
	Hobby/Handcrafts Supplies	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	100339	1965	Premise Match	92m	North
	Importers	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	103022	1965	Premise Match	92m	North
	Toy Importers &/or Wholesalers	Trans World Agency & Importing Pty. Ltd., 50 Bay St., Broadway	153242	1965	Premise Match	92m	North
28	Tyre Dealers &/or Retreaders &/or Vulcanisers	Goodyear Tyre Service, 461 Wattle St Ultimo 2007	65273	1991	Premise Match	99m	North East
	Motor Panel Beaters &/or Spray Painters	Scientific Motor Body Works, 451 Wattle St Broadway 2007	54778	1991	Premise Match	99m	North East
	MOTOR BRAKE SERVICES.	Better Brakes Pty, Ltd., 473 Wattle St., Broadway. 2007	61516	1986	Premise Match	99m	North East
	TYRE DEALERS &/OR RETREADERS &/OR VULCANISERS.	Goodyear Tyre Service, 461 Wattle St., Ultimo. 2007	96355	1986	Premise Match	99m	North East
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS.	Scientific Motor Body Works Pty. Ltd., 451 Wattle St., Broadway. 2007	66733	1986	Premise Match	99m	North East
	TYRE DEALERS &/OR RETREADERS &/OR VULCANISERS.	Wattle Street Tyre Service, 449 Wattle St., Broadway. 2007	96461	1986	Premise Match	99m	North East
	MOTOR BRAKE SERVICES. (M5240)	Better Brakes Pty. Ltd., 467 Wattle St., Broadway. 2007.	54392	1982	Premise Match	99m	North East
	TYRE DEALERS &/ORRETREADERS &/OR VULCANISERS. (T8830)	Goodyear Tyre Service, 461 Wattle St., Ultimo. 2007.	82648	1982	Premise Match	99m	North East
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360)	Scientific Motor Body Works Pty. Ltd., 451 Wattle St., Broadway. 2007.	58694	1982	Premise Match	99m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
28	TYRE DEALERS &/OR RETREADERS &/OR VULCANISERS. (T8830)	Wattle Street Tyre Service, 449 Wattle St., Broadway. 2007.	82753	1982	Premise Match	99m	North East
	TYRE DEALERS &/OR RETREADERS &/OR VULCANISERS	Motor Tyre Service Pty. Ltd., 461 Wattle St., Broadway.	72956	1978	Premise Match	99m	North East
	MOTOR PANEL BEATERS	Scientific Motor Body Works Pty. Ltd., 451 Wattle St., Broadway.	52342	1978	Premise Match	99m	North East
	MOTOR PAINTERS.	Scientific Motor Body Works Pty. Ltd., 451 Wattle St., Broadway. 2007	51661	1978	Premise Match	99m	North East
	TYRE DEALERS &/OR RETREADERS &/OR VULCANISERS	Wattle Street Tyre Service, 449 Wattle St., Broadway,	72992	1978	Premise Match	99m	North East
	TYRE DEALERS, RETREADERS &/OR VULCANISERS,	Motor Tyre Service Pty. Ltd., 461 Wattle St., Broadway.	85606	1975	Premise Match	99m	North East
	MOTOR PAINTERS.	Scientific Motor Body Works Pty. Ltd., 451 Wattle St., Broadway.	60409	1975	Premise Match	99m	North East
	MOTOR PANEL BEATERS.	Scientific Motor Body Works Pty. Ltd., 451 Wattle St., Broadway.	61101	1975	Premise Match	99m	North East
	TYRE DEALERS, RETREADERS &/OR VULCANISERS,	Wattle Street Tyre Service, 449 Wattle St., Broadway.	85658	1975	Premise Match	99m	North East
	TYRE DEALERS, RETREADERS & VULCANISERS	Motor Tyre Service Pty. Ltd., 461 Wattle St., Broadway	371733	1970	Premise Match	99m	North East
	TYRE/TUBE DEALERS (T760)	Motor Tyre Service Pty. Ltd., 461 Wattle St., Broadway	371909	1970	Premise Match	99m	North East
	BATTERY SALES & SERVICE (B230)	Motor Tyre Service Pty. Ltd., 461 Wattle St., Broadway & Branches	265377	1970	Premise Match	99m	North East
	MOTOR ELECTRICIANS (M620)	Speedo Electric Co Pty. Ltd., 451 Wattle St., Broadway	336959	1970	Premise Match	99m	North East
	ARMATURE WINDERS (A465)	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway	262264	1970	Premise Match	99m	North East
	BATTERY DISTRIBUTORS (B190)	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway	265254	1970	Premise Match	99m	North East
	BATTERY SALES & SERVICE (B230)	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway	265390	1970	Premise Match	99m	North East
	INSTRUMENTS-AUTOMOTIVE-SPECIALISTS (I380)	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway	319485	1970	Premise Match	99m	North East
	MOTOR PARKING STATIONS (M688)	Wattle Service Station., 479 Wattle St., Ultimo	340631	1970	Premise Match	99m	North East
	TYRE/TUBE DEALERS (T760)	Wattle Street Tyre Service, 449 Wattle St., Ultimo	371955	1970	Premise Match	99m	North East
	Instruments - Automotive - Specialists	Auto Exchange Service Pty. Ltd., 451 Wattle St., Broadway	103594	1965	Premise Match	99m	North East
	Motor Electricians	Auto Exchange Service Pty. Ltd., 451 Wattle St., Broadway	121674	1965	Premise Match	99m	North East
	Tyre Dealers, Retreaders & Vulcanizers	Motor Tyre Service Pty. Ltd, 461 Wattle St, Broadway	154745	1965	Premise Match	99m	North East
	Motor Accessories - Dealers	Motor Tyre Service Pty. Ltd., 461 Wattle St., Broadway	119568	1965	Premise Match	99m	North East
	Tyre/Tube Dealers	Motor Tyre Service Pty. Ltd., 461 Wattle St., Broadway,	154546	1965	Premise Match	99m	North East
	Armature Winders	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway	46921	1965	Premise Match	99m	North East
	Motor Electricians	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway	121828	1965	Premise Match	99m	North East
	Tyre/Tube Dealers	Wattle Street Tyre Service, 449 Wattle St., Ultimo	154603	1965	Premise Match	99m	North East
	MOTOR ELECTRICIANS	Auto Xchange Service Pty. Ltd., 451 Wattle St., Broadway	345976	1961	Premise Match	99m	North East
	MOTOR GARAGES & ENGINEERS	Carter, C., 449 Wattle St. Ultimo	346835	1961	Premise Match	99m	North East
	TYRE RETREAD./VULCANIZERS	Motor Tyre Service Pty. Ltd., 461-471 Wattle St., Ultimo	260084	1961	Premise Match	99m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
28	TYRE/TUBE DEALERS	Motor Tyre Service Pty. Ltd., 469-471 Wattle St., Ultimo	260285	1961	Premise Match	99m	North East
	ARMATURE WINDERS	Speedo Electric Co Pty Ltd 451 Wattle St., Broadway	268677	1961	Premise Match	99m	North East
	MOTOR ELECTRICIANS	Speedo Electric Co Pty Ltd 451 Wattle St., Broadway	346171	1961	Premise Match	99m	North East
	ARMATURE WINDERS	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway.	268678	1961	Premise Match	99m	North East
	BATTERY SERVICE STATIONS	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway.	272080	1961	Premise Match	99m	North East
	INSTRUMENTS—AUTOMOTIVE-SPECIALISTS	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway.	327260	1961	Premise Match	99m	North East
	MOTOR ELECTRICIANS	Speedo Electric Co. Pty. Ltd., 451 Wattle St., Broadway.	346172	1961	Premise Match	99m	North East
	TYRE RETREAD./VULCANIZERS	Wattle Street Tyre Service, 449 Wattle St., Ultimo	260129	1961	Premise Match	99m	North East
	TYRE/TUBE DEALERS	Wattle Street Tyre Service, 449 Wattle St., Ultimo	260345	1961	Premise Match	99m	North East
	TYRE & TUBE DEALERS	Advanx Tyre and Rubber Co. Pty. Ltd., 449 Wattle St., Ultimo	110781	1950	Premise Match	99m	North East
	TYRE & TUBE MFRS. &/OR DISTRIBUTORS	Advanx Tyre and Rubber Co. Pty. Ltd., 449 Wattle St., Ultimo	110905	1950	Premise Match	99m	North East
	TYRE RETREADERS & VULCANISERS	Advanx Tyre and Rubber Co. Pty. Ltd., 449 Wattle St., Ultimo	110933	1950	Premise Match	99m	North East
	WELDERS-ELECTRIC &/OR OXY	Carter, C., 449 Wattle St., Ultimo	112703	1950	Premise Match	99m	North East
	CARRIERS & CARTAGE CONTRACTORS (MASTER)	Cavanough, H., 469 Wattle St., Ultimo	20132	1950	Premise Match	99m	North East
	LIME & CEMENT MERCHANTS	Morrissey, L., 449 Wattle St., Ultimo	69090	1950	Premise Match	99m	North East
	CONCRETE GOODS MANUFACTURERS	Thomson, J. B., 449 Wattle St., Ultimo	28371	1950	Premise Match	99m	North East
	LANDSCAPE GARDENERS	Thomson, J. B., 449 Wattle St., Ultimo	67499	1950	Premise Match	99m	North East
	BOTTLE MERCHANTS & EXCHANGES	Union Bottle Coy., 467 Wattle St., Broadway	10959	1950	Premise Match	99m	North East
	CARRIERS & CARTAGE CONTRACTORS	Whitehead, H. S. and Co., 479 Wattle St., Ultimo	20053	1950	Premise Match	99m	North East
	CARRIERS & CARTAGE CONTRACTORS (MASTER)	Whitehead, H. S. and Co., 479 Wattle St., Ultimo	20347	1950	Premise Match	99m	North East

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Business Directory Records 1950-1991 Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
29	CAN & DRUM MANUFACTURERS	Consumers Canister Works, Mountain St.	283501	1961	Road Match	0m
	HOT WATER SYSTEMS-ELECTRIC-MFRS. &/OR DISTS.	Malleys Ltd., Mountain St., Broadway	324953	1961	Road Match	0m
	SEWING MACHINE REPAIRERS	Singer Sewing Machine Co., Mountain St., Broadway	101508	1950	Road Match	0m
	SEWING MACHINE DEALERS	Singer Sewing Machine Co., Mountain Street, Broadway	101445	1950	Road Match	0m
	MOTOR ACCESSORIES-DEALER	Ward, H., Mountain St., Ultimo	81830	1950	Road Match	0m
30	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS.	Gilkesons Auto Services, Bay St., Ultimo. 2007	66332	1986	Road Match	34m
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360)	Gilkesons Auto Services, Bay St., Ultimo. 2007.	58326	1982	Road Match	34m
	Nurserymen	Bay Street Nursery, Bay St., Glebe	129047	1965	Road Match	34m
	Clothing Mfrs. &/or W'salers - Collars & Ties, Etc.	Jayson Traurig Bros. Pty. Ltd., 6th Floor, Grace Bros. Women's Store, Bay St., Broadway	66931	1965	Road Match	34m
	Clothing Mfrs. &/or W'salers - Shirt & Pyjama	Jayson Traurig Bros. Pty. Ltd., 6th Flr., Grace Bros. Women's Store, Bay St., Broadway	68197	1965	Road Match	34m
	FURNITURE REMOVALISTS/STORAGE	Mercantile Free Stores, Bay St., Glebe	317122	1961	Road Match	34m
	TRANSPORT SERVICES-INTERSTATE	Bailey, Trevor, City Depot, Amors Free Stores, Bay St., Ultimo	110211	1950	Road Match	34m
	CARRIERS & CARTAGE CONTRACTORS	Wong, S. and Sons, Bay St., Ultimo	20081	1950	Road Match	34m
31	OFFICE MACHINE REPAIRS	Stott & Morley N.S.W. Pty. Ltd., Francis St., Broadway	129401	1965	Road Match	54m
	ELECTRICAL CONTRACTORS-LICENSED	Simon-Carves (Aust.) Pty. Ltd, 16 Francis St., Glebe	302515	1961	Road Match	54m
32	Carriers & Cartage Contractors - Master	Green, T. S. & Co. Pty. Ltd., Greek St., Glebe	62702	1965	Road Match	57m
	CARRIERS & CARTAGE CONTRACTORS-MASTER	Green, T. S. & Co., Greek St., Glebe	285662	1961	Road Match	57m
33	PHOTOGRAPHERS—AERIAL	Grace Studio, Grose St., Broadway	357531	1961	Road Match	72m
	PHOTOGRAPHERS—COMMRL.	Grace Studio, Grose St., Broadway	357595	1961	Road Match	72m
	FLOUR MILLING MACHINERY MFRS. &/OR DISTS.	Simon, H. (Aust.) Ltd., Grose St., Glebe	312179	1961	Road Match	72m
	CANNERS & CANNED FOOD SPECIALISTS	Christie, A. E., Grose St., Glebe	17498	1950	Road Match	72m
	PHOTOGRAPERS-COMMERCIAL	Searle, Edward, Grose St., Broadway	91674	1950	Road Match	72m
	PHOTOGRAPHERS-PORTRAIT	Searle, Edward, Grose St., Broadway	92000	1950	Road Match	72m
34	TOURS-MOTOR SERVICES.	Grace Bros. Travel, Broadway	71522	1978	Road Match	92m
	TEA MERCHANTS & PACKERS	Oriental Tea Co. Ltd., P.O. Box 12, Broadway	107588	1950	Road Match	92m

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Dry Cleaners, Motor Garages & Service Stations

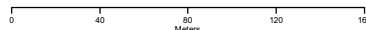
1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Legend

- Site Boundary
- Buffer 250m
- 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: 19 September 2024

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Historical Business Directories

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

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	MOTOR GARAGES & ENGINEERS	Motor Repairing & Welding Pty. Ltd., 2 Smail St., Bdwy	13387	1959	Premise Match	20m	North
	MOTOR GARAGE/ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 2 Smail St., Broadway	4622	1958	Premise Match	20m	North
	MOTOR GARAGES &/OR ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 2 Smail St., Broadway	61169	1956	Premise Match	20m	North
	MOTOR GARAGES &/OR ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 2 Smail St., Broadway	49730	1954	Premise Match	20m	North
	MOTOR GARAGES &/OR ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 2 Smail St., Broadway	31981	1952	Premise Match	20m	North
	MOTOR GARAGES &/OR ENGINEERS	Motor Repairing and Welding Pty. Ltd., 2 Smail St., Broadway	84112	1950	Premise Match	20m	North
	MOTOR GARAGES &/OR ENGINEERS.	Motor Repairing And Welding Pty. Ltd., 2 Smail St., Broadway	22653	1948-49	Premise Match	20m	North
2	MOTOR GARAGES &/OR ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Ultimo	13169	1972	Premise Match	28m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Ultimo	13170	1972	Premise Match	28m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Motor Repairing & Welding Pty Ltd., 16 Smail St., Broadway	56408	1971	Premise Match	28m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St Ultimo	62822	1971	Premise Match	28m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Ultimo	62823	1971	Premise Match	28m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St., Broadway	56409	1971	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Motor Repairing & Welding Pty. Ltd., 16 Smail St. Broadway	338296	1970	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Motor Repairing & Welding Pty. Ltd., 16 Smail St. Ultimo	338297	1970	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Perdriau, J. A. Pty. Ltd., 16 Smail St. Broadway	338410	1970	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Perdriau, J. A. Pty. Ltd., 16 Smail St. Ultimo	338409	1970	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St Broadway	37683	1969	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St Ultimo	47270	1969	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Broadway	37684	1969	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Ultimo	47271	1969	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Motor Repairing & Welding Pty. Ltd., 16 Smail St Broadway	21113	1968	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Motor Repairing & Welding Pty. Ltd., 16 Smail St Ultimo	30697	1968	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Perdriau J. A. Pty. Ltd., 16 Smail St Broadway	21114	1968	Premise Match	28m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
2	MOTOR GARAGES & ENGINEERS	Perdriau J. A. Pty. Ltd., 16 Smail St Ultimo	30698	1968	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St Broadway	6683	1967	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St Ultimo	11115	1967	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Broadway	6684	1967	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Ultimo	11120	1967	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St Ultimo	60845	1966	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St.	55475	1966	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Sydney	55479	1966	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Ultimo	60846	1966	Premise Match	28m	North East
	Motor Garages & Engineers	Motor Repairing & Welding Pty. Ltd., 16 Smail St. Ultimo	123477	1965	Premise Match	28m	North East
	Motor Garages & Engineers	Motor Repairing & Welding Pty. Ltd., 16 Smail St., Sydney	122057	1965	Premise Match	28m	North East
	Motor Garages & Engineers	Perdriau, J. A. Pty. Ltd., 16 Smail St. Ultimo	123479	1965	Premise Match	28m	North East
	Motor Garages & Engineers	Perdriau, J. A. Pty. Ltd., 16 Smail St., Sydney	122061	1965	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Motor Repairing & Welding Pty. Ltd., 16 Smail St Sydney	43253	1964	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Motor Repairing & Welding Pty. Ltd., 16 Smail St Ultimo	48752	1964	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Perdriau J. A. Pty. Ltd., 16 Smail St Sydney	43259	1964	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Perdriau J. A. Pty. Ltd., 16 Smail St Ultimo	48753	1964	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St Sydney	28644	1962	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Motor Repairing & Welding Pty. Ltd., 16 Smail St Ultimo	33541	1962	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Sydney	28651	1962	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS.	Perdriau J. A. Pty. Ltd., 16 Smail St Ultimo	33542	1962	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Motor Repairing & Welding Pty. Ltd., 16 Smail St. BROADWAY	347750	1961	Premise Match	28m	North East
	MOTOR GARAGES & ENGINEERS	Perdriau, J. A. Pty. Ltd., 16 Smail St., BROADWAY	347896	1961	Premise Match	28m	North East
3	DRY CLEANERS & PRESSERS.	Broadway Dry Cleaners, 35 Bay St., Glebe. 2037	53025	1988	Premise Match	54m	West
	DRY CLEANERS & PRESSERS.	Broadway Dry Cleaners., 35A Bay St., Broadway 2007	8500	1983	Premise Match	54m	West
4	DRY CLEANERS, PRESSERS/DYERS.	Grace Bros. Pty. Ltd., Broadway	24775	1962	Premise Match	54m	West
	DRY CLEANERS, PRESSERS / DYERS	Grace Bros. Pty. Ltd., Broadway	299125	1961	Premise Match	54m	West
	DRY CLEANERS, PRESSERS/DYERS	Grace Bros. Pty. Ltd., Broadway	10069	1959	Premise Match	54m	West
	DRY CLEANERS, PRESSERS & DYERS	Grace Bros. Pty. Ltd., Broadway	260	1958	Premise Match	54m	West
	DRY CLEANERS, PRESSERS & DYERS.	Grace Bros. Pty. Ltd., Broadway	54851	1956	Premise Match	54m	West
	DRY CLEANERS, PRESSERS & DYERS.	Grace Bros. Pty. Ltd., Broadway	44381	1954	Premise Match	54m	West
	DRY CLEANERS, PRESSERS & DYERS.	Grace Bros. Pty. Ltd., Broadway	36196	1953	Premise Match	54m	West
	DRY CLEANERS, PRESSERS & DYERS.	Grace Bros. Pty. Ltd., Broadway	27078	1952	Premise Match	54m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
4	DRY CLEANERS, PRESSERS & DYERS	Grace Bros. Pty. Ltd., Broadway	35269	1950	Premise Match	54m	West
5	MOTOR GARAGES &/OR ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	7655	1972	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS.	Gillies D. H., 33 Mountain St., Broadway	7391	1972	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	56407	1971	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS.	Gillies D. H., 33 Mountain St., Broadway	55132	1971	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS(M6S6)	Gillies, D. H., 33 Mountain St., Broadway	337864	1970	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	37406	1969	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	37682	1969	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS	Gillies D. H. & Son., 33 Mountain St., Broadway	20857	1968	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	6414	1967	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS.	Gillies D. H., 33 Mountain St., Broadway, Sydney	55461	1966	Premise Match	55m	North
	Motor Service Stations - Petrol, Oil, Etc.	Gillies, D. H. & Son, 33 Mountain St. Sydney	125333	1965	Premise Match	55m	North
	Motor Garages & Engineers	Gillies, D. H., 33 Mountain St., Broadway, Sydney	122042	1965	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS	Gillies D. H. & Son., 33 Mountain St., Broadway	43238	1964	Premise Match	55m	North
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Gillies, D. H. & Son., 33 Mountain St., Sydney	48869	1964	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	28616	1962	Premise Match	55m	North
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Gillies D. H. & Son., 33 Mountain St., Sydney	37760	1962	Premise Match	55m	North
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Gillies, D. H. & Son, 33 Mountain St. Broadway	350604	1961	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS	Gillies, D. H., 33 Mountain St., Broadway	347226	1961	Premise Match	55m	North
	MOTOR GARAGES & ENGINEERS	Gillies D. H. & Son., 33 Mountain St., Broadway	13357	1959	Premise Match	55m	North
	MOTOR SERVICE STATIONS-PETROL., OIL, ETC.	Gillies D. H. & Son., 33 Mountain St., Broadway	24021	1959	Premise Match	55m	North
	MOTOR GARAGE/ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	4164	1958	Premise Match	55m	North
	MOTOR SERVICE STATIONS-PETROL, ETC.	Gillies D. H. & Son., 33 Mountain St., Broadway	9537	1958	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	57702	1956	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	49313	1954	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	40042	1953	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS.	Gillies D. H. & Son., 33 Mountain St., Broadway	31682	1952	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS	Gillies, D. H., 33 Mountain St., Broadway	83801	1950	Premise Match	55m	North
	MOTOR SERVICE STATIONS-PETROL, Etc.	Gillies, D., 33 Mountain St., Broadway	85992	1950	Premise Match	55m	North
	MOTOR GARAGES &/OR ENGINEERS.	Gillies, D. H., 33 Mountain St., Broadway	22379	1948-49	Premise Match	55m	North

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	MOTOR SERVICE STATIONS-PETROL, ETC.	Gillies, D., 33 Mountain St., Broadway	23278	1948-49	Premise Match	55m	North
6	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Baber. R. Motors., 50 Glebe St., Glebe 2037	25077	1976	Premise Match	78m	North West
	MOTOR GARAGES &/OR ENGINEERS.	Baber, R. Motors., 50 Glebe St., Glebe. 2037	58399	1975	Premise Match	78m	North West
	MOTOR GARAGES &/OR ENGINEERS.	Baber R. Motors., 50 Glebe St Glebe	12220	1972	Premise Match	78m	North West
	MOTOR GARAGES &/OR ENGINEERS.	Baber R. Motors., 50 Glebe St Glebe	56831	1971	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS(M6S6)	Baber, R. Motors., 50 Glebe St., Glebe	337259	1970	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS.	Baber R. Motors., 50 Glebe St., Glebe	42246	1969	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS	Baber R. Motors., 50 Glebe St Glebe	25768	1968	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS.	Baber R. Motors., 50 Glebe St Glebe	10271	1967	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS.	Baber R. Motors., 50 Glebe St Glebe	56161	1966	Premise Match	78m	North West
	Motor Garages & Engineers	Baber, R. Motors, 50 Glebe St. Glebe	122695	1965	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS	Baber Ron Rear., 36 Glebe St Glebe	47961	1964	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS.	Baber Ron Rear., 36 Glebe St Glebe	29478	1962	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS	Baber, Ron, Rear 36 Glebe St. GLEBE	346577	1961	Premise Match	78m	North West
	MOTOR GARAGES & ENGINEERS.	Baber, Ron, Rear 36 Glebe St. Glebe	14142	1959	Premise Match	78m	North West
	MOTOR GARAGE/ENGINEERS.	Baber Ron., Rear 36 Glebe St., Glebe	580	1958	Premise Match	78m	North West
	MOTOR GARAGES &/OR ENGINEERS.	Baber Ron Rear., 36 Glebe St Glebe	57204	1956	Premise Match	78m	North West
7	MOTOR GARAGES & ENGINEERS.	Carter C., 449 Wattle St Ultimo	33540	1962	Premise Match	99m	North East
	MOTOR GARAGES & ENGINEERS	Carter, C., 449 Wattle St. Ultimo	346835	1961	Premise Match	99m	North East
	MOTOR GARAGES & ENGINEERS.	Carter C., 449 Wattle St Ultimo	20058	1959	Premise Match	99m	North East
	MOTOR GARAGE/ENGINEERS.	Carter C., 449 Wattle St Ultimo	793	1958	Premise Match	99m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Carter C., 449 Wattle St Ultimo	57394	1956	Premise Match	99m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Carter C., 449 Wattle St Ultimo	49017	1954	Premise Match	99m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Speedo Electric Co Pty Ltd., 451 Wattle St Broadway	27401	1952	Premise Match	99m	North East
8	MOTOR GARAGES & SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway. 2007	53983	1988	Premise Match	103m	East
	MOTOR GARAGES & SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway. 2007	64450	1986	Premise Match	103m	East
	MOTOR GARAGES & SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway. 2007	39445	1985	Premise Match	103m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway. 2007	28033	1984	Premise Match	103m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway 2007	14450	1983	Premise Match	103m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
8	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Century Motors Pty. Ltd., 3 Owen St., Broadway. 2007.	56507	1982	Premise Match	103m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway. 2007	3070	1981	Premise Match	103m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway. 2007	52699	1980	Premise Match	103m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway. 2007.	41251	1979	Premise Match	103m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Century Motors Pty. Ltd., 3 Owen St., Broadway.	49781	1978	Premise Match	103m	East
	MOTOR GARAGES &/OR ENGINEERS.	Century Motors Pty. Ltd., 3 Owen St Broadway	7654	1972	Premise Match	103m	East
	MOTOR GARAGES &/OR ENGINEERS.	Century Motors Pty. Ltd., 3 Owen St Broadway	56406	1971	Premise Match	103m	East
	MOTOR GARAGES & ENGINEERS(M6S6)	Century Motors Pty. Ltd., 3 Owen St. BROADWAY	337556	1970	Premise Match	103m	East
	MOTOR GARAGES & ENGINEERS.	Century Motors Pty. Ltd., 3 Owen St Broadway	37681	1969	Premise Match	103m	East
	MOTOR GARAGES & ENGINEERS	Century Motors Pty. Ltd., 3 Owen St Broadway	21112	1968	Premise Match	103m	East
	MOTOR GARAGES & ENGINEERS.	Century Motors Pty. Ltd., 3 Owen St Broadway	6682	1967	Premise Match	103m	East
	MOTOR GARAGES & ENGINEERS.	Century Motors Pty. Ltd., 3 Owen St Ultimo	55454	1966	Premise Match	103m	East
	Motor Garages & Engineers	Century Motors. Pty. Ltd., 3 Owen St., Ultimo, Sydney	122037	1965	Premise Match	103m	East
9	DRY CLEANERS, PRESSERS & DYERS.	Jenkins Fred C. & Son., 163 Broadway	44399	1954	Premise Match	109m	South East
	DRY CLEANERS, PRESSERS & DYERS.	Jenkins Fred C. & Son., 163 Broadway	36217	1953	Premise Match	109m	South East
10	MOTOR GARAGES & SERVICE STATIONS.	Ultimo Auto Port, 389 Wattle St., Ultimo. 2007	25512	1993	Premise Match	152m	North East
	Motor Garages & Service Stations	Ultimo Auto Port, 389 Wattle St., Ultimo 2007	53969	1991	Premise Match	152m	North East
	MOTOR GARAGES & SERVICE STATIONS.	Ultimo Auto Port, 389 Wattle St., Ultimo. 2007	18352	1990	Premise Match	152m	North East
	MOTOR GARAGE & SERVICE STATIONS.	Ultimo Auto Port, 389 Wattle St., Ultimo. 2007	5683	1989	Premise Match	152m	North East
	MOTOR GARAGES & SERVICE STATIONS.	Ultimo Auto Port, 389 Wattle St., Ultimo. 2007	64160	1988	Premise Match	152m	North East
	MOTOR GARAGES & SERVICE STATIONS.	Ultimo Auto Port, 389 Wattle St., Ultimo. 2007	65654	1986	Premise Match	152m	North East
	MOTOR GARAGES & SERVICE STATIONS.	Ultimo Auto Port, 389 Wattle St., Ultimo. 2007	45777	1985	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ultimo Auto Port, 389 Wattle St., Ultimo. 2007	34340	1984	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ultimo Auto Port., 389 Wattle St., Ultimo 2007	21780	1983	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Ultimo Auto Port, 389 Wattle St., Ultimo. 2007.	57781	1982	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ultimo Alma Port., 389 Wattle St., Ultimo 2007	8359	1981	Premise Match	152m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
10	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ultimo Auto Port., 389 Wattle St., Ultimo. 2007	59046	1980	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ultimo Auto Port., 389 Wattle St., Ultimo. 2007.	46545	1979	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ultimo Auto Port, 389 Wattle St., Ultimo.	51030	1978	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ultimo Auto Port., 389 Wattle St., Ultimo 2007	35128	1976	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Ultimo Auto Port. 389 Wattle St., Ultimo.	59711	1975	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS.	G.B. Auto Port (The), 389 Wattle St., Ultimo	13168	1972	Premise Match	152m	North East
	MOTOR GARAGES &/OR ENGINEERS.	G.B. Auto Port (The), 389 Wattle St., Ultimo	62821	1971	Premise Match	152m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	G.B. Auto Port (The), 389 Wattle St. Ultimo	337839	1970	Premise Match	152m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	G.B. Auto Port (The), 389 Wattle St. Ultimo	337840	1970	Premise Match	152m	North East
	MOTOR GARAGES & ENGINEERS.	G.B. Auto Port (The)., 389 Wattle St Ultimo	47269	1969	Premise Match	152m	North East
	MOTOR GARAGES & ENGINEERS	G.B. Auto Port (The)., 389 Wattle St Ultimo	30696	1968	Premise Match	152m	North East
	MOTOR GARAGES & ENGINEERS.	G.B. Auto Port (The)., 389 Wattle St Ultimo	11118	1967	Premise Match	152m	North East
	MOTOR GARAGES & ENGINEERS.	G.B Auto Port (The)., 389 Wattle St Ultimo	60844	1966	Premise Match	152m	North East
	Motor Garages & Engineers	Palmers Auto Service, 389 Wattle St. Ultimo	123478	1965	Premise Match	152m	North East
11	MOTOR GARAGES & ENGINEERS.	Klein H. A., 10 Shepherd St., Sydney	28636	1962	Premise Match	166m	South
	MOTOR GARAGES & ENGINEERS	Klein, H. A., 10 Shepherd St., SYDNEY	347519	1961	Premise Match	166m	South
	MOTOR GARAGES & ENGINEERS	Klein H. A., 10 Shepherd St Sydney	13376	1959	Premise Match	166m	South
	MOTOR GARAGE/ENGINEERS.	Klein H. A., 10 Shepherd St	4413	1958	Premise Match	166m	South
	MOTOR GARAGES &/OR ENGINEERS.	Klein H. A., 10 Shepherd St	57933	1956	Premise Match	166m	South
	MOTOR GARAGES &/OR ENGINEERS.	Klein H. A., 10 Shepherd St	49534	1954	Premise Match	166m	South
	MOTOR GARAGES &/OR ENGINEERS.	Klein H. A., 10 Shepherd St	40235	1953	Premise Match	166m	South
	MOTOR GARAGES &/OR ENGINEERS.	Klein H. A., 10 Shepherd St	31838	1952	Premise Match	166m	South
	MOTOR GARAGES &/OR ENGINEERS	Klein, H. A., 10 Shepherd St.	83963	1950	Premise Match	166m	South
	MOTOR GARAGES &/OR ENGINEERS.	Klein H. A., 10 Shepherd St	22527	1948-49	Premise Match	166m	South
12	DRY CLEANERS, PRESSERS & DYERS	Du Monde Dry Cleaners., 8 City Rd Chippendale	226	1958	Premise Match	173m	South
	DRY CLEANERS, PRESSERS & DYERS.	Mckenzie D. F., 8 City Rd Chippendale	54898	1956	Premise Match	173m	South
13	MOTOR GARAGES & ENGINEERS	Palmers Auto Service., 369 Wattle St Ultimo	48754	1964	Premise Match	174m	North
14	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Wattle Street Service Station, 478 Wattle St., Ultimo. 2007	27861	1984	Premise Match	175m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
14	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Wattle Street Service Station, 478 Wattle St., Ultimo. 2007	65753	1983	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	BP Wattle Street Service Station, 478 Wattle St., Ultimo. 2007.	56323	1982	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Wattle Street Service Station., 478 Wattle St., Ultimo. 2007	64002	1981	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Wattle St. Service Station., 478 Wattle St., Ultimo. 2007	51507	1980	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Wattle St. Service Station., 478 Wattle St., Ultimo. 2007.	41110	1979	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Wattle St. Service Station. 478 Wattle St., Ultimo.	49644	1978	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Wattle St. Service Station., 478 Wattle St., Ultimo 2007	25364	1976	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS.	BP Wattle St. Service Station, 478 Wattle St., Ultimo.	58561	1975	Premise Match	175m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Service Station., 490 Wattle St Ultimo	18236	1972	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Wattle Service Station., 478 Wattle St., Ultimo	13171	1972	Premise Match	175m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Service Station., 490 Wattle St., Ultimo	2653	1971	Premise Match	175m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Wattle Service Station., 478 Wattle St., Ultimo	62824	1971	Premise Match	175m	North East
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	BP Service Station, 490 Wattle St. Ultimo	340892	1970	Premise Match	175m	North East
	MOTOR GARAGES & ENGINEERS(M6S6)	Wattle Service Station, 478 Wattle St. Ultimo	338847	1970	Premise Match	175m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Service Station., 490 Wattle St Ultimo	50822	1969	Premise Match	175m	North East
	MOTOR GARAGES & ENGINEERS.	Wattle Service Station., 478 Wattle St Ultimo	47272	1969	Premise Match	175m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Service Station., 490 Wattle St Ultimo	36909	1968	Premise Match	175m	North East
	MOTOR GARAGES & ENGINEERS	Willing & Sons Pty. Ltd., 478 Wattle St Ultimo	30699	1968	Premise Match	175m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Service Station., 490 Wattle St Ultimo	20373	1967	Premise Match	175m	North East
	MOTOR GARAGES & ENGINEERS.	Willing & Sons Pty. Ltd., 478 Wattle St Ultimo	11121	1967	Premise Match	175m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Service Station., 490 Wattle St., Ultimo	1875	1966	Premise Match	175m	North East
	MOTOR GARAGES & ENGINEERS.	Willing & Sons Pty. Ltd., 478 Wattle St Ultimo	60847	1966	Premise Match	175m	North East
	Motor Service Stations - Petrol, Oil, Etc.	Willing & Sons Pty. Ltd., 478 Wattle St. Ultimo	126212	1965	Premise Match	175m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Willing & Sons Pty. Ltd., 478 Wattle St, Ultimo	52469	1964	Premise Match	175m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
15	MOTOR GARAGES & ENGINEERS.	Larry's Auto Service., 1 Mountain St Broadway Sydney	28639	1962	Premise Match	181m	North
	MOTOR GARAGES & ENGINEERS	Larry's Auto Service, 1 Mountain St., Broadway	347552	1961	Premise Match	181m	North
	MOTOR GARAGES & ENGINEERS	Larry's Auto Service., 1 Mountain St., Broadway	13380	1959	Premise Match	181m	North
	MOTOR GARAGE/ENGINEERS.	Larry's Auto Service., 1 Mountain St Broadway	4436	1958	Premise Match	181m	North
	MOTOR GARAGES &/OR ENGINEERS.	Larry's Auto Service., 1 Mountain St Broadway	57951	1956	Premise Match	181m	North
	MOTOR GARAGES &/OR ENGINEERS.	Larry's Auto Service., 1 Mountain St Broadway	49559	1954	Premise Match	181m	North
	MOTOR GARAGES &/OR ENGINEERS.	Larry's Auto Service, 1 Mountain St., Broadway	40255	1953	Premise Match	181m	North
	MOTOR GARAGES &/OR ENGINEERS.	Larry's Auto Service., 1 Mountain St Broadway	31858	1952	Premise Match	181m	North
	MOTOR GARAGES &/OR ENGINEERS	Larry's Auto Service, 1 Mountain St., Broadway	83987	1950	Premise Match	181m	North
	MOTOR SERVICE STATIONS-PETROL, Etc.	Larry's Auto Service., 1 Mountain St., Broadway	86132	1950	Premise Match	181m	North
16	DRY CLEANERS, PRESSERS &/OR DYERS	Immaculate Dry Cleaners-81 Broadway.	51100	1971	Premise Match	208m	East
	DRY CLEANERS, PRESSERS & DYERS.	Immaculate Dry Cleaners Pty. Ltd., 247-249 Jones St, Ultimo	44393	1954	Premise Match	208m	East
	DRY CLEANERS, PRESSERS & DYERS.	Immaculate Dry Cleaners Pty. Ltd., 81 George St Broadway	36212	1953	Premise Match	208m	East
	DRY CLEANERS, PRESSERS & DYERS.	Immaculate Dry Cleaners Pty. Ltd., 81 George St Broadway	27099	1952	Premise Match	208m	East
	DRY CLEANERS, PRESSERS & DYERS	Immaculate Dry Cleaners, 81 Broadway	35302	1950	Premise Match	208m	East
	DRY CLEANERS, PRESSERS & DYERS	Jones, Dry Cleaners Pty. Ltd. 103 Broadway	35355	1950	Premise Match	208m	East
	DRY CLEANERS, PRESSERS & DYERS.	Immaculate Dry Cleaners., 81 Broadway	17190	1948-49	Premise Match	208m	East
	DRY CLEANERS, PRESSERS & DYERS.	Jones Dry Cleaners Pty. Ltd., 103 Broadway	17242	1948-49	Premise Match	208m	East
17	DRY CLEANERS, PRESSERS & DYERS.	California Pressing Service., 22 City Rd	44323	1954	Premise Match	233m	South
	DRY CLEANERS, PRESSERS & DYERS.	California Pressing Service., 22 City Rd	36132	1953	Premise Match	233m	South

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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.

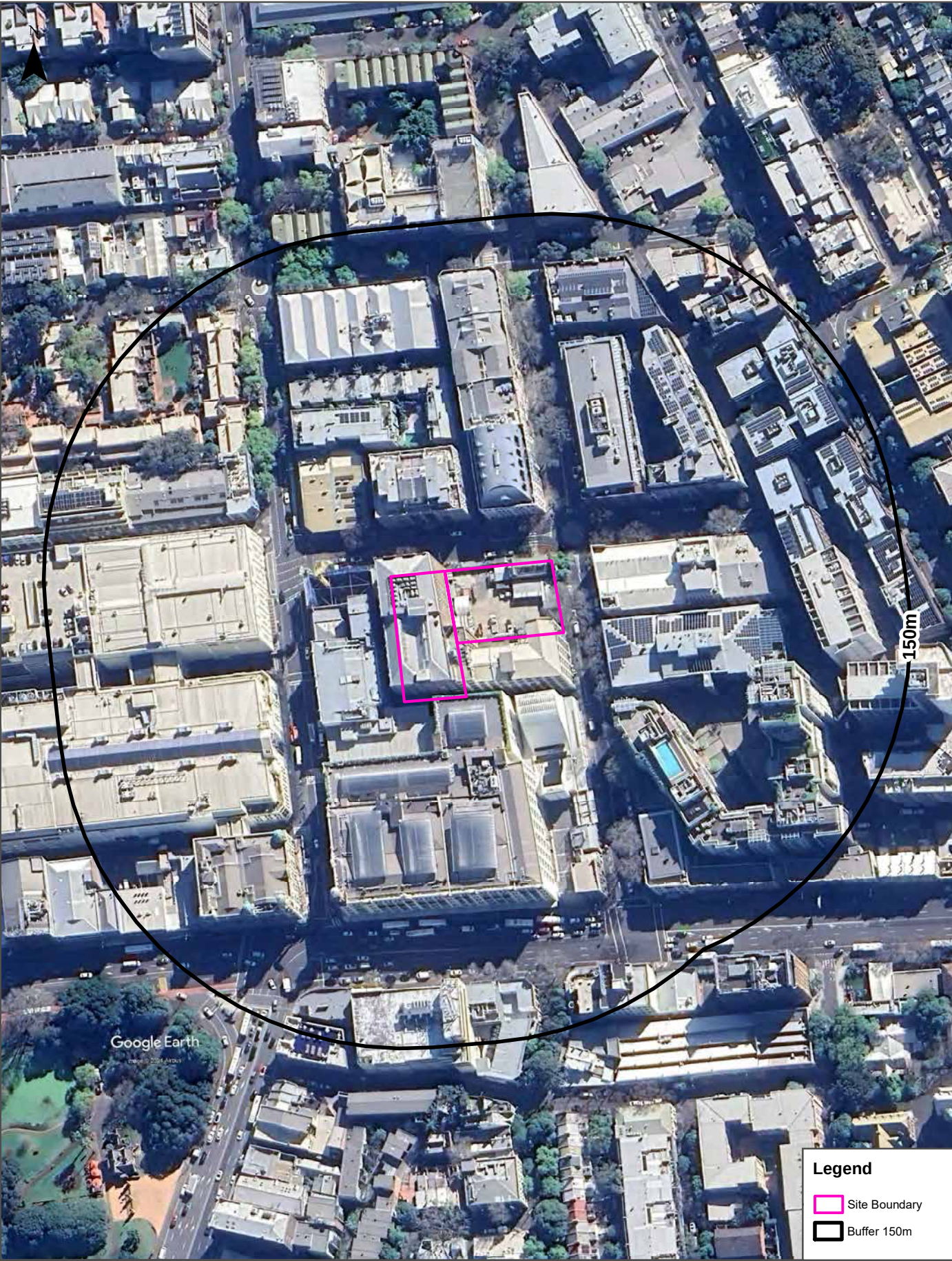
Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
18	MOTOR GARAGES &/OR ENGINEERS.	Cousins A., Owen St Broadway	57495	1956	Road Match	37m
	MOTOR GARAGES &/OR ENGINEERS.	Cousins A., Owen St Broadway	49117	1954	Road Match	37m

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Aerial Imagery 2024

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Legend

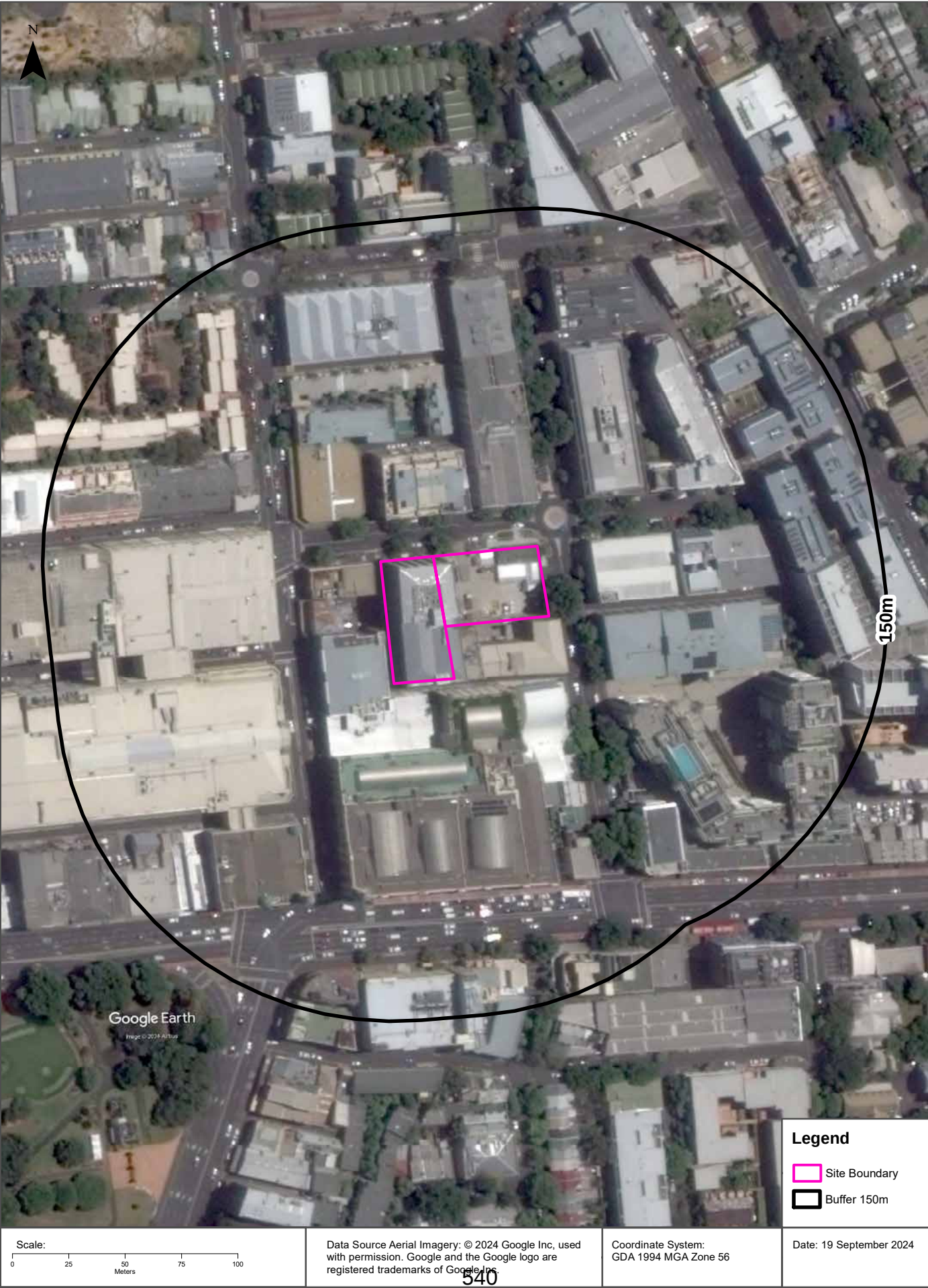
Site Boundary

Buffer 150m

Scale: 0 25 50 75 100 Meters	Data Source Aerial Imagery: © 2024 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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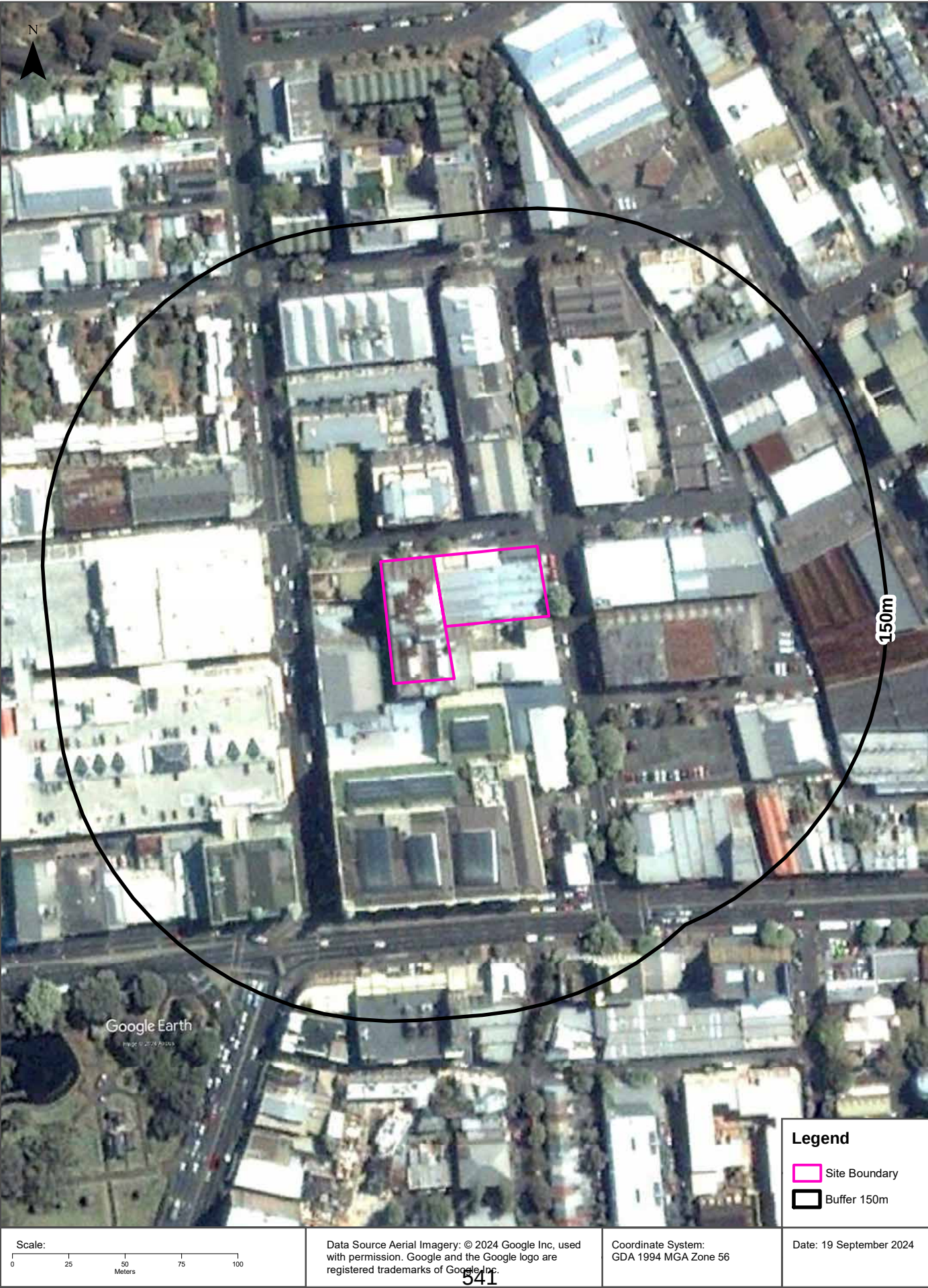
Aerial Imagery 2014

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Aerial Imagery 2000

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Aerial Imagery 1994

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Aerial Imagery 1991

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Data Sources: Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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543

Aerial Imagery 1986

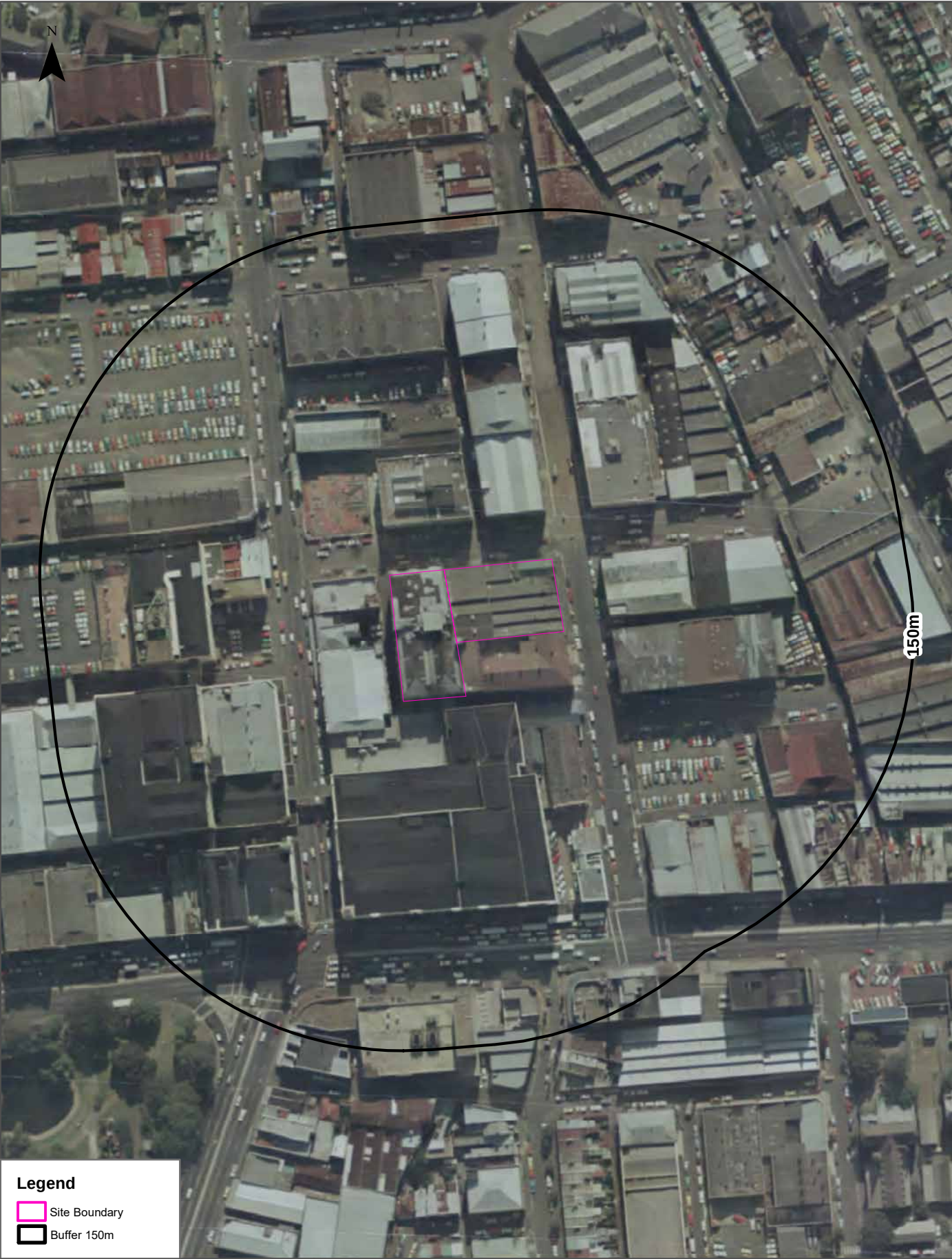
1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service 544	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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Aerial Imagery 1982

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service 545	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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Aerial Imagery 1978

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Aerial Imagery 1970

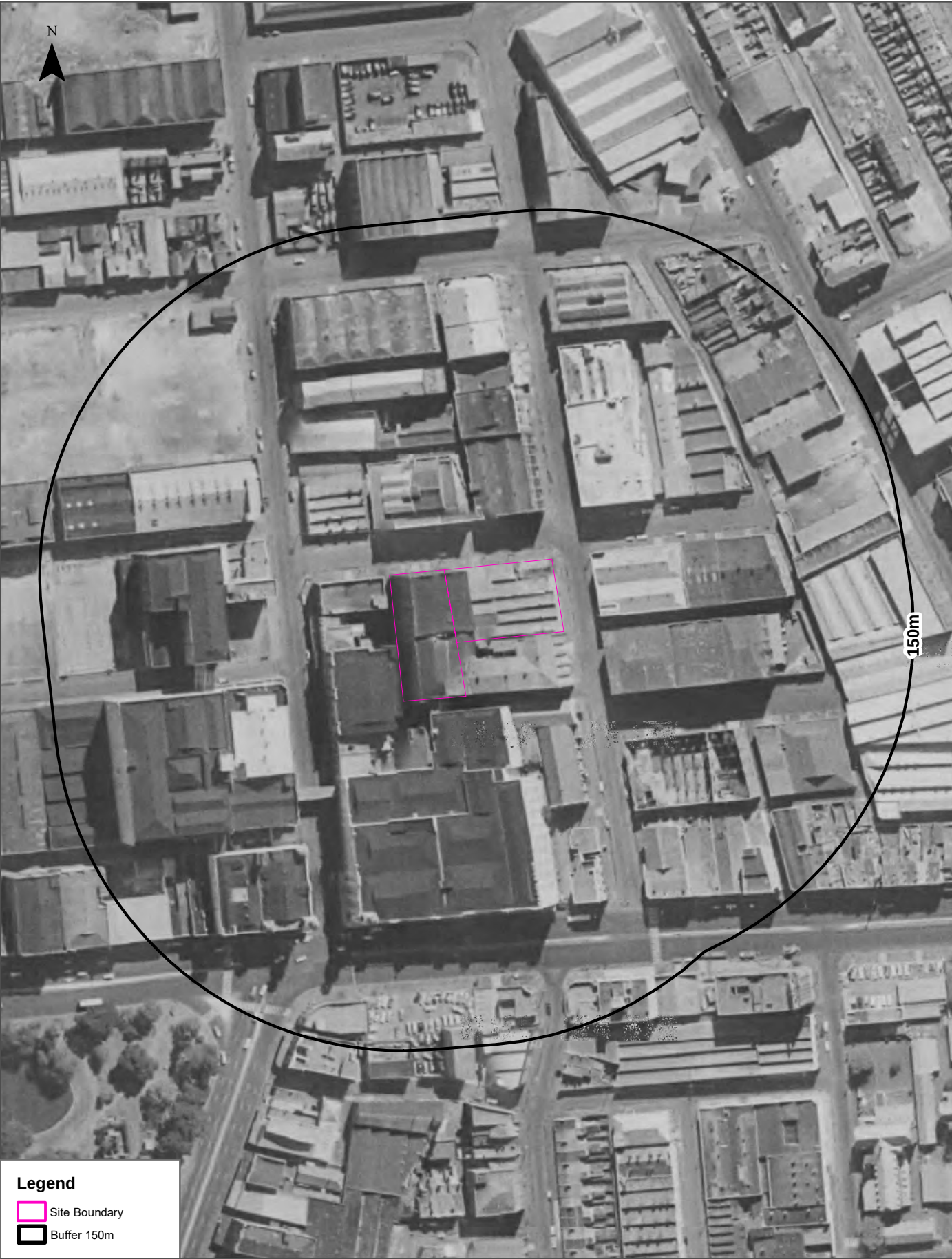
1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service 547	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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Aerial Imagery 1965

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service 548	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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Aerial Imagery 1961

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Legend

 Site Boundary

 Buffer 150m

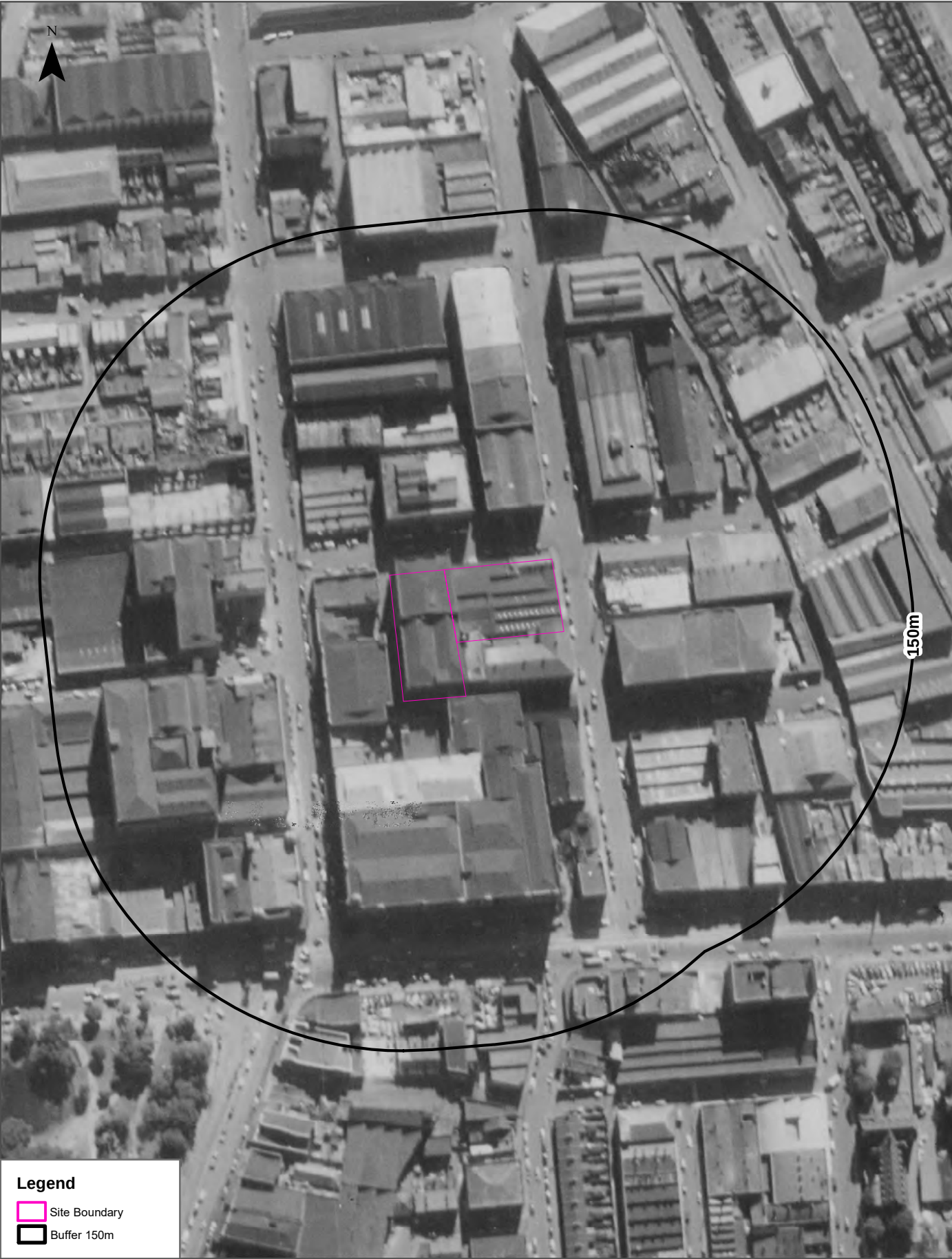
Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service 549	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service 550	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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Aerial Imagery 1951

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service 551	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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Aerial Imagery 1943

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Aerial Imagery 1930

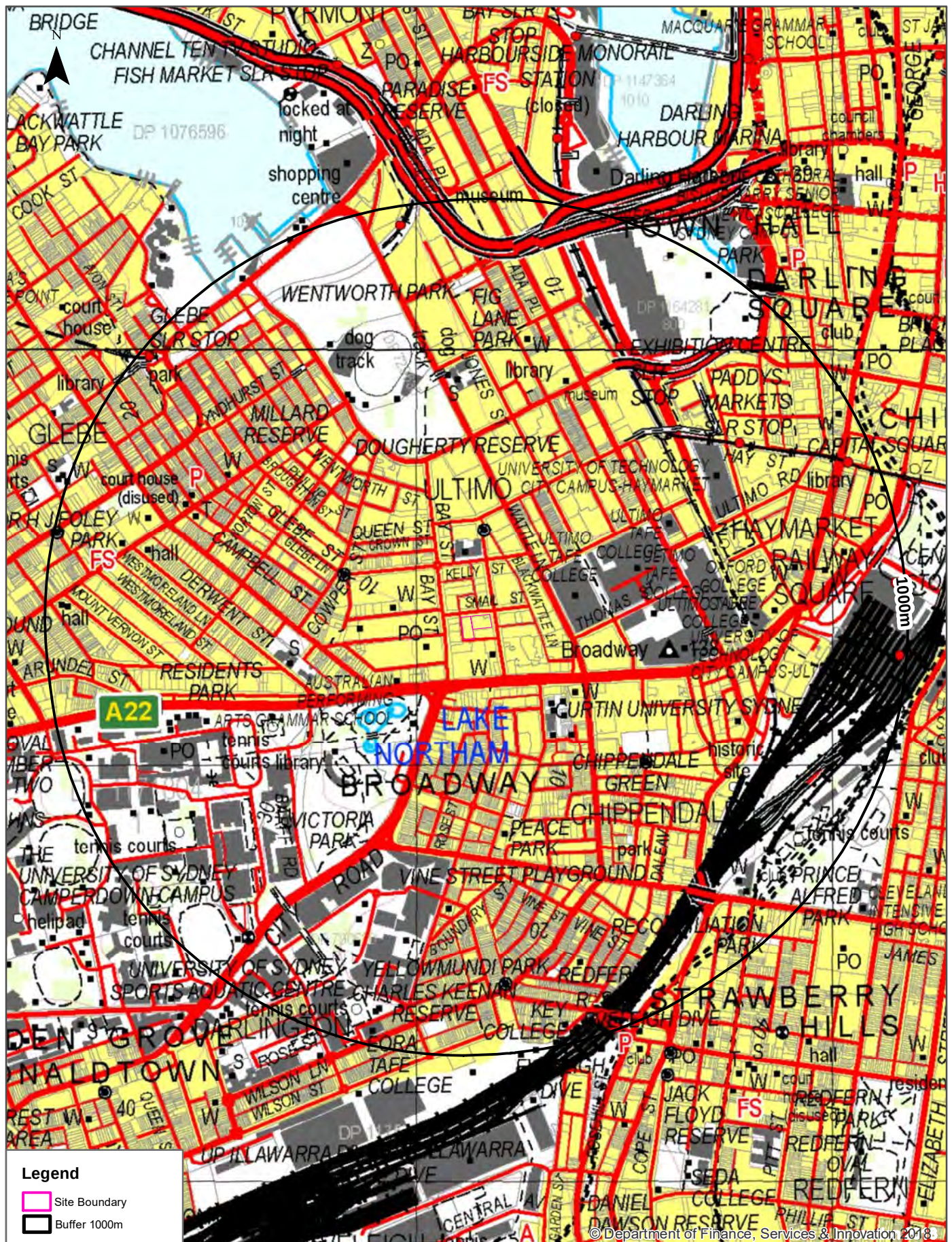
1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © Geoscience Australia	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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Topographic Map 2015

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

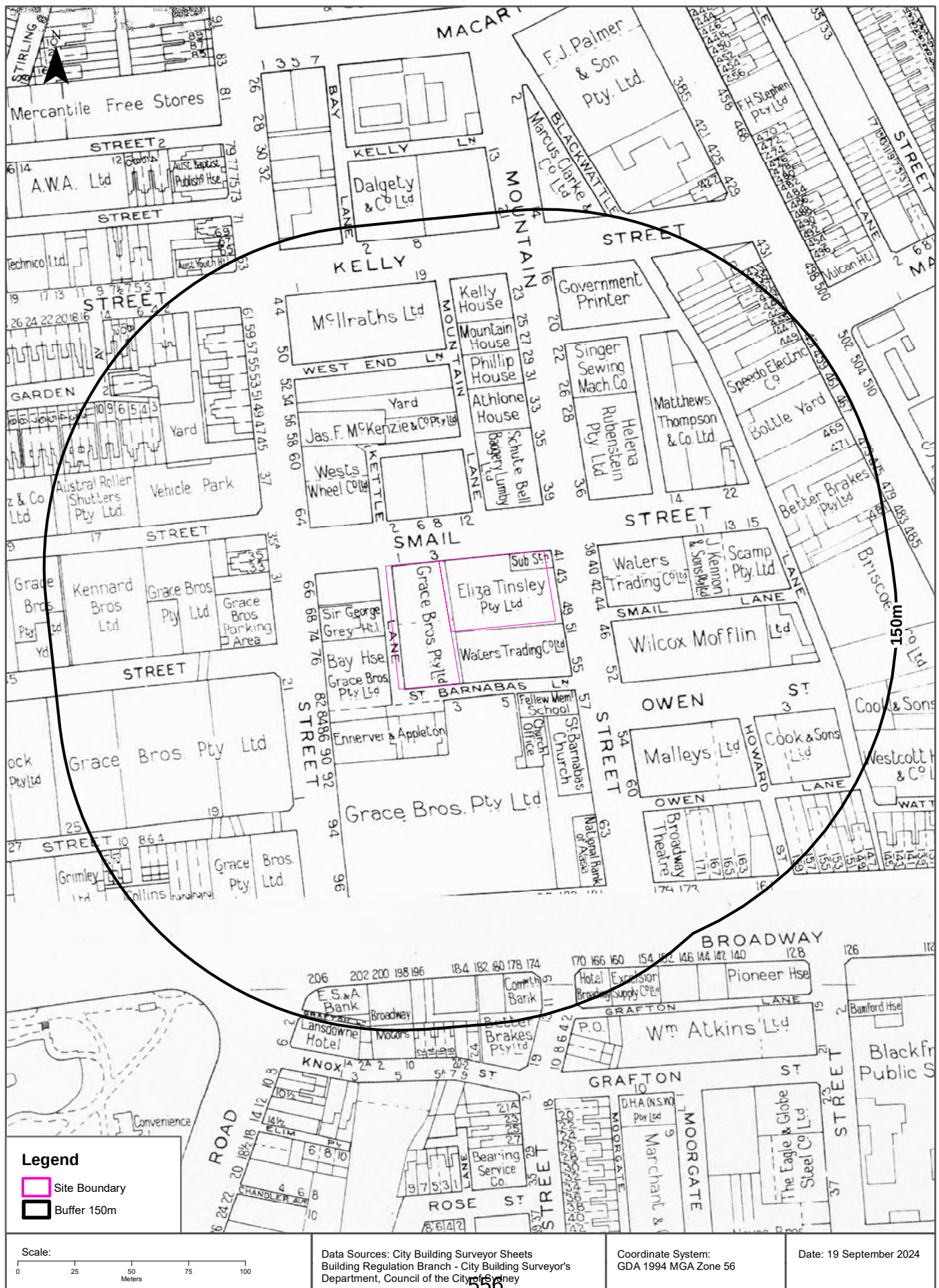


Historical Map 1975

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



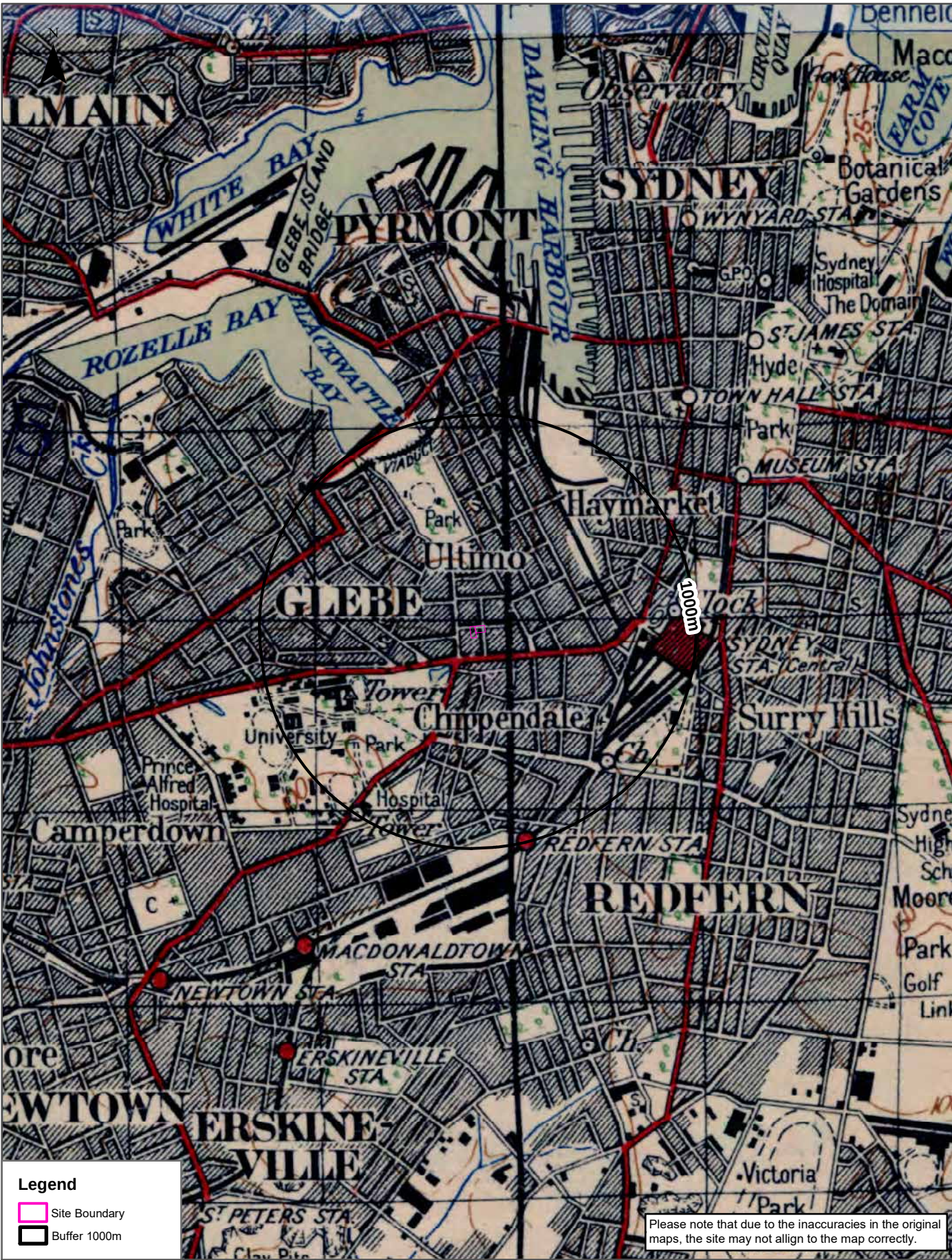
Historical Map 1938 - 1950

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Historical Map c.1936

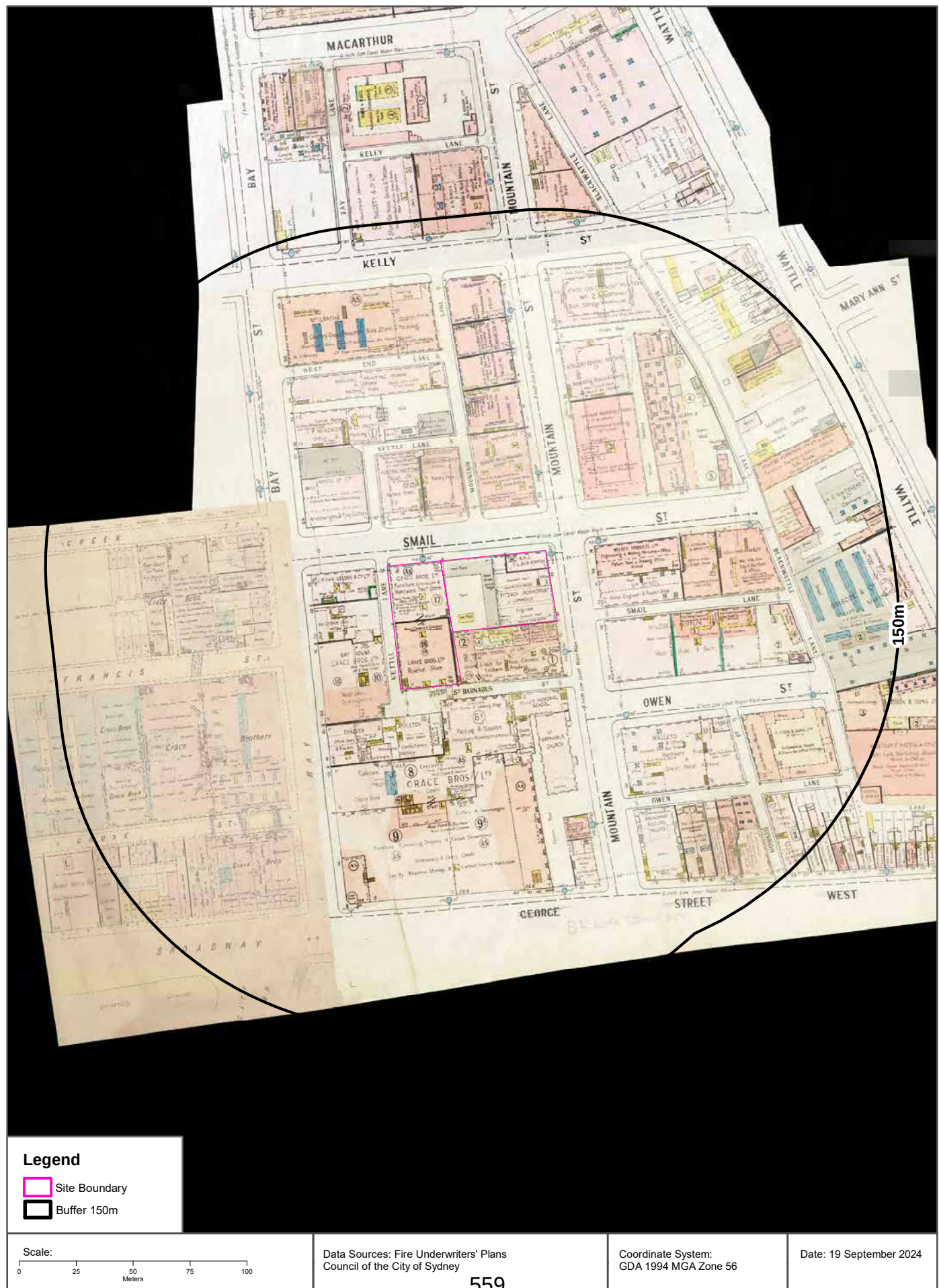
1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Scale: 0 290 580 870 1,160 Meters	Data Sources: Australia 1:63360 Produced by Australian Section Imperial General Staff	Coordinate System: GDA 1994 MGA Zone 56	Date: 19 September 2024
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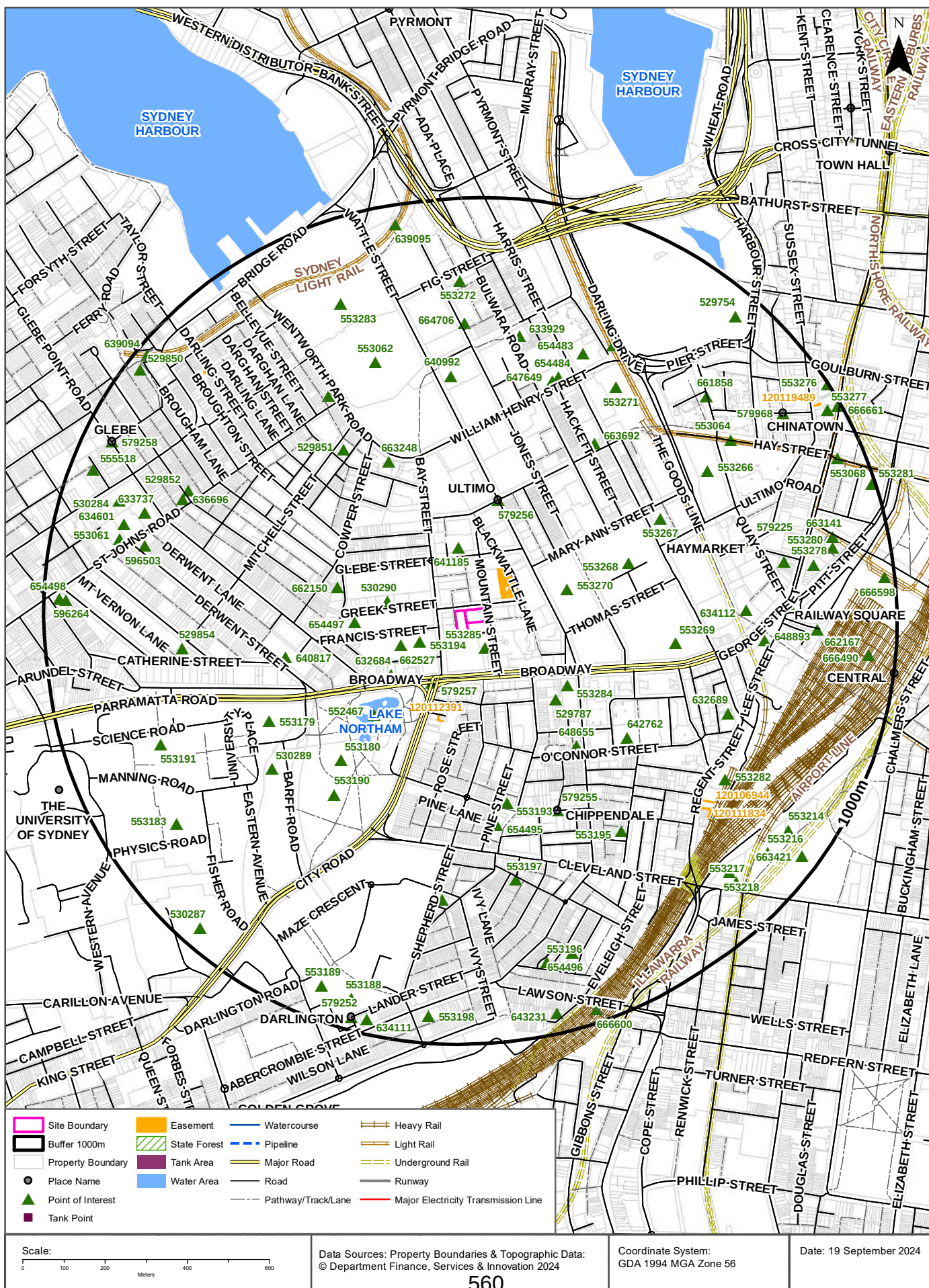
Historical Map 1917 - 1939

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Topographic Features

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Topographic Features

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
553285	Place Of Worship	ANGLICAN CHURCH	55m	South East
553194	Post Office	BROADWAY POST OFFICE	93m	South West
579257	Urban Place	BROADWAY	134m	South West
662527	Shopping Centre	BROADWAY SHOPPING CENTRE	141m	West
641185	Combined Primary-Secondary School	INTERNATIONAL GRAMMAR SCHOOL	154m	North
530290	Place Of Worship	CHURCH OF SCIENTOLOGY	166m	West
632684	High School	AUSTRALIAN PERFORMING ARTS GRAMMAR SCHOOL	190m	South West
553270	TAFE College	ULTIMO TAFE COLLEGE	208m	East
654497	Community Facility	PETER FORSYTH AUDITORIUM	245m	West
553284	Place Of Worship	CATHOLIC CHURCH	253m	South East
529787	Child Care Centre	UNIVERSITY OF TECHNOLOGY CITY CAMPUS-BLACKFRIARS	254m	South East
579256	Suburb	ULTIMO	266m	North
552467	Manmade Waterbody	LAKE NORTHAM	283m	South West
662150	Park	ROBYN KEMMIS RESERVE	291m	West
553268	TAFE College	ULTIMO TAFE COLLEGE	369m	East
648655	Embassy	CONSULATE OF BELGIUM	375m	South East
663248	Nursing Home	THE BENEVOLENT SOCIETY	398m	North West
553180	Swimming Pool	VICTORIA PARK POOL	417m	South West
640817	Primary School	GLEBE PUBLIC SCHOOL	422m	West
553193	Park	PEACE PARK	425m	South
642762	Park	CHIPPENDALE GREEN	445m	South East
553269	University	UNIVERSITY OF TECHNOLOGY CITY CAMPUS-ULTIMO	464m	East
654495	Community Facility	PINE STREET CREATIVE ARTS CENTRE	473m	South
529851	Park	DOUGHERTY RESERVE	478m	North West
553267	TAFE College	ULTIMO TAFE COLLEGE	482m	North East
663692	High School	WESTBOURNE COLLEGE SYDNEY	484m	North East
579255	Suburb	CHIPPENDALE	484m	South East
553190	Park	VICTORIA PARK	493m	South West
553179	Sports Court	TENNIS COURTS	504m	South West
530289	Library	FISHER LIBRARY SYDNEY UNIVERSITY	557m	South West
640992	Primary School	ULTIMO PUBLIC SCHOOL	571m	North

Map Id	Feature Type	Label	Distance	Direction
647649	Library	ULTIMO LIBRARY	578m	North
654484	Community Facility	ULTIMO COMMUNITY CENTRE	592m	North
553195	Park	Park	608m	South East
553063	Park	MILLARD RESERVE	608m	North West
553197	Park	VINE STREET PLAYGROUND	612m	South
553271	Museum	POWERHOUSE MUSEUM	627m	North East
632689	University	CURTIN UNIVERSITY SYDNEY	630m	East
634112	TAFE College	ULTIMO TAFE COLLEGE	633m	East
553062	Dog Track	WENTWORTH PARK GREYHOUND TRACK	636m	North
553266	University	UNIVERSITY OF TECHNOLOGY CITY CAMPUS-HAYMARKET	638m	North East
596617	Community Facility	THE HARRY BURLAND ACTIVITY CLUB	648m	South
529853	Place Of Worship	UNITING CHURCH	659m	North West
654483	Swimming Pool	IAN THORPE AQUATIC CENTRE	666m	North East
633929	Place Of Worship	UNITING CHURCH	668m	North
529854	Park	RESIDENTS PARK	669m	West
579225	Suburb	HAYMARKET	675m	East
648893	Transport Interchange	RAILWAY SQUARE BUS INTERCHANGE	679m	East
664706	Park	FIG LANE PARK	696m	North
553282	Historic Site	MORTUARY STATION	697m	South East
555590	Railway Station	EXHIBITION CENTRE SLR STOP	713m	North East
529852	Police Station	GLEBE POLICE STATION	713m	North West
636696	Court House	GLEBE COURT HOUSE	717m	North West
553064	Railway Station	PADDYS MARKETS SLR STOP	727m	North East
579226	Urban Place	RAILWAY SQUARE	738m	East
553278	Place Of Worship	LUTHERAN CHURCH	739m	East
661858	Urban Place	DARLING SQUARE	748m	North East
553191	Post Office	SYDNEY UNIVERSITY POST OFFICE	770m	West
596503	Community Facility	ST JOHNS CHURCH HALL	771m	West
633737	Place Of Worship	ANGLICAN CHURCH	791m	West
553283	Park	WENTWORTH PARK	798m	North
553272	Park	FIG LANE PARK	800m	North
662167	Historic Site	AMBULANCE SERVICE HISTORIC SITE	805m	East
553279	Place Of Worship	ANGLICAN CHURCH	809m	East
654496	Community Facility	REDFERN COMMUNITY CENTRE	818m	South
553196	Park	YELLOWMUNDI PARK	825m	South
553183	Sports Court	TENNIS COURTS	825m	South West
634601	Retirement Village	ST JOHN'S VILLAGE	832m	West

Map Id	Feature Type	Label	Distance	Direction
553061	Fire Station	GLEBE FIRE STATION	834m	West
553218	Place Of Worship	ORTHODOX CHURCH	851m	South East
530284	Park	DR H J FOLEY PARK	860m	West
553280	Community Facility	SYDNEY CITY YOUTH HOSTEL ASSOCIATION	861m	East
663141	Railway Station	HAYMARKET LIGHT RAIL STOP	866m	East
579968	Urban Place	CHINATOWN	870m	North East
553217	Education Facility	ST ANDREWS GREEK ORTHODOX THEOLOGICAL COLLEGE	879m	South East
553216	Club	JENSEN'S TENNIS CENTRE	887m	South East
553214	Sports Court	TENNIS COURTS	894m	South East
553189	Sports Centre	UNIVERSITY OF SYDNEY SPORTS AQUATIC CENTRE	919m	South
553188	Sports Court	TENNIS COURTS	925m	South
579258	Suburb	GLEBE	931m	North West
553198	Park	CHARLES KEENAN RESERVE	934m	South
553068	Railway Station	CAPITOL SQUARE SLR STOP	934m	North East
666490	Railway Station	CENTRAL RAILWAY STATION	934m	East
529754	Tourist Attraction	CHINESE GARDEN OF FRIENDSHIP	938m	North East
555518	Park	BOOLER MEMORIAL PLAYGROUND	945m	West
654498	Community Facility	GLEBE NEIGHBOURHOOD SERVICE CENTRE	947m	West
643231	High School	KEY COLLEGE	951m	South
530287	Sports Field	ST PAULS OVAL	951m	South West
639095	Railway Station	WENTWORTH PARK SLR STOP	953m	North
663421	Urban Place	EQUALITY GREEN	958m	South East
596264	Community Facility	GLEBE TOWN HALL	962m	West
634111	TAFE College	EORA TAFE COLLEGE	964m	South
529850	Park	Park	965m	North West
553277	Place Of Worship	CATHOLIC CHURCH	965m	North East
579252	Suburb	DARLINGTON	967m	South
666600	Railway Station	REDFERN RAILWAY STATION	967m	South
639094	Railway Station	GLEBE SLR STOP	974m	North West
666598	Railway Station	CENTRAL SLR STOP	975m	East
553281	Post Office	HAYMARKET POST OFFICE	991m	East
666661	Railway Station	CHINATOWN LIGHT RAIL STOP	993m	North East
553276	Place Of Worship	BAPTIST CHURCH	998m	North East

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

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Topographic Features

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

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

Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

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

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

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Major Easements

What Major Easements exist within the dataset buffer?

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

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
150270459	Primary	Right of way	Variable	51m	North East
120112391	Primary	Undefined		204m	South
120106944	Primary	Undefined		682m	South East
120111834	Primary	Undefined		691m	South East
120114031	Primary	Undefined		838m	North West
120119489	Primary	Undefined		943m	North East

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

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Topographic Features

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

State Forest

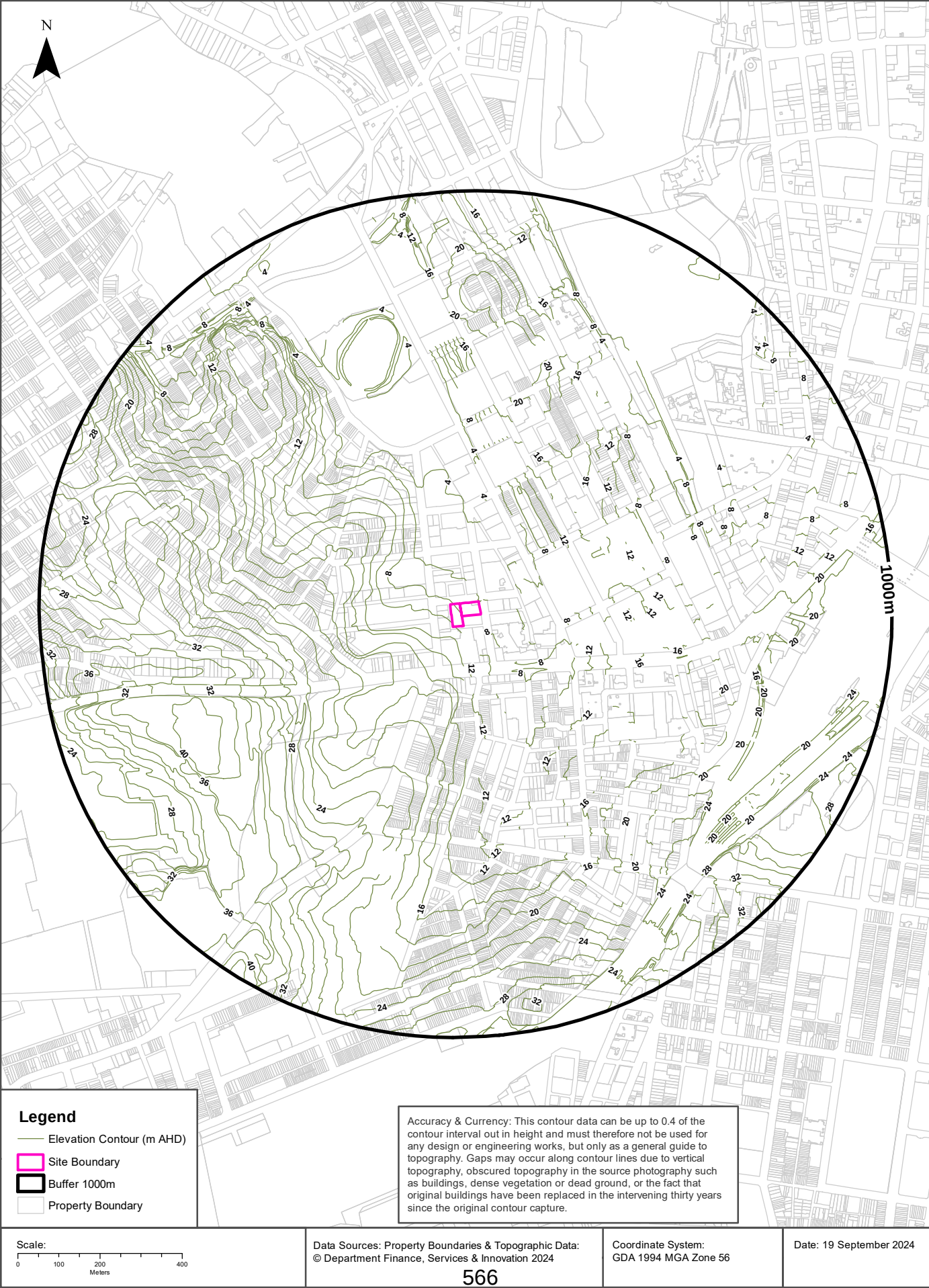
What State Forest exist within the dataset buffer?

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)

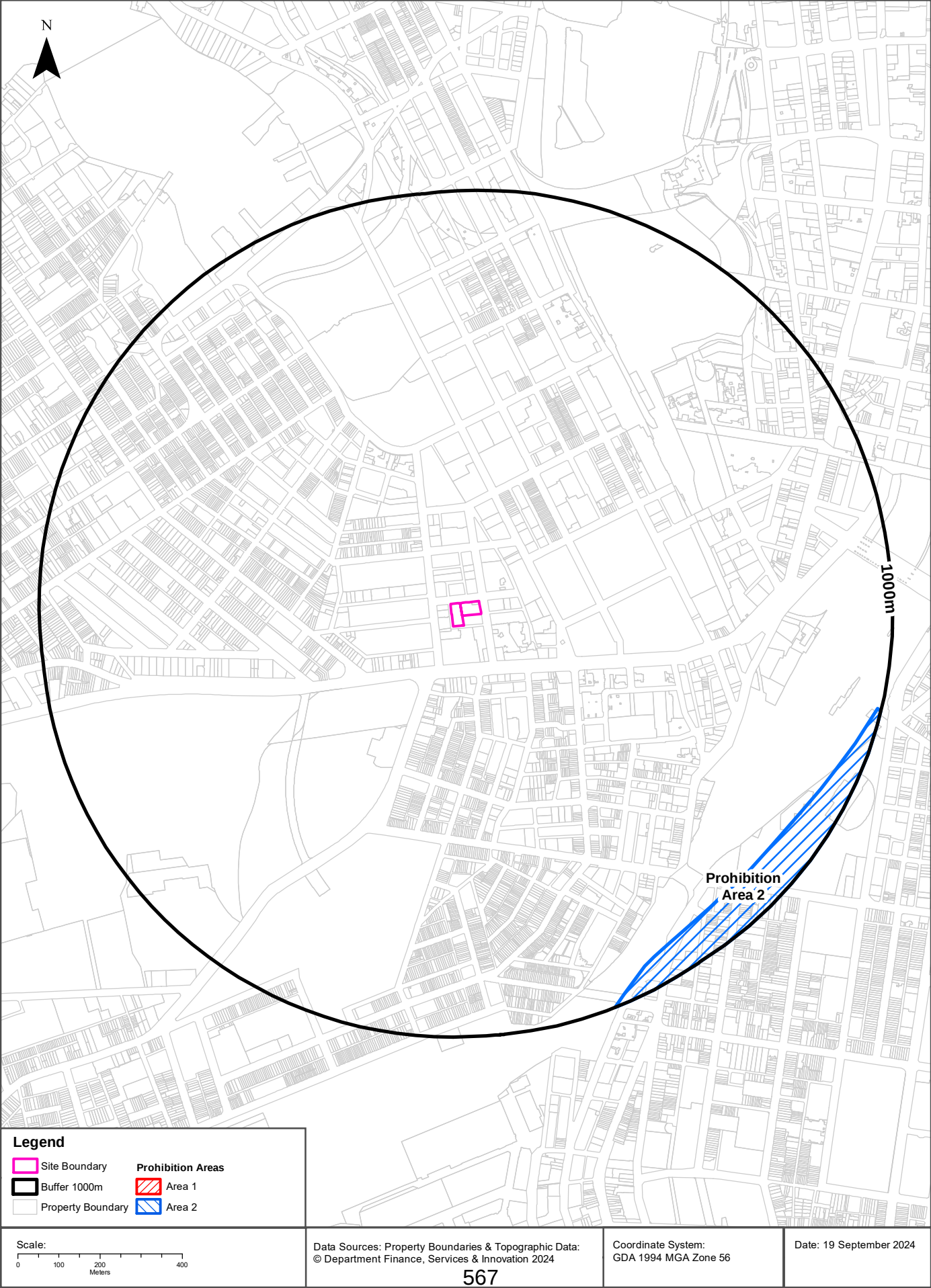
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Elevation Contours (m AHD)
1-3 Smal and 41-49 Mountain Streets, Ultimo, NSW 2007



Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Hydrogeology & Groundwater

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)

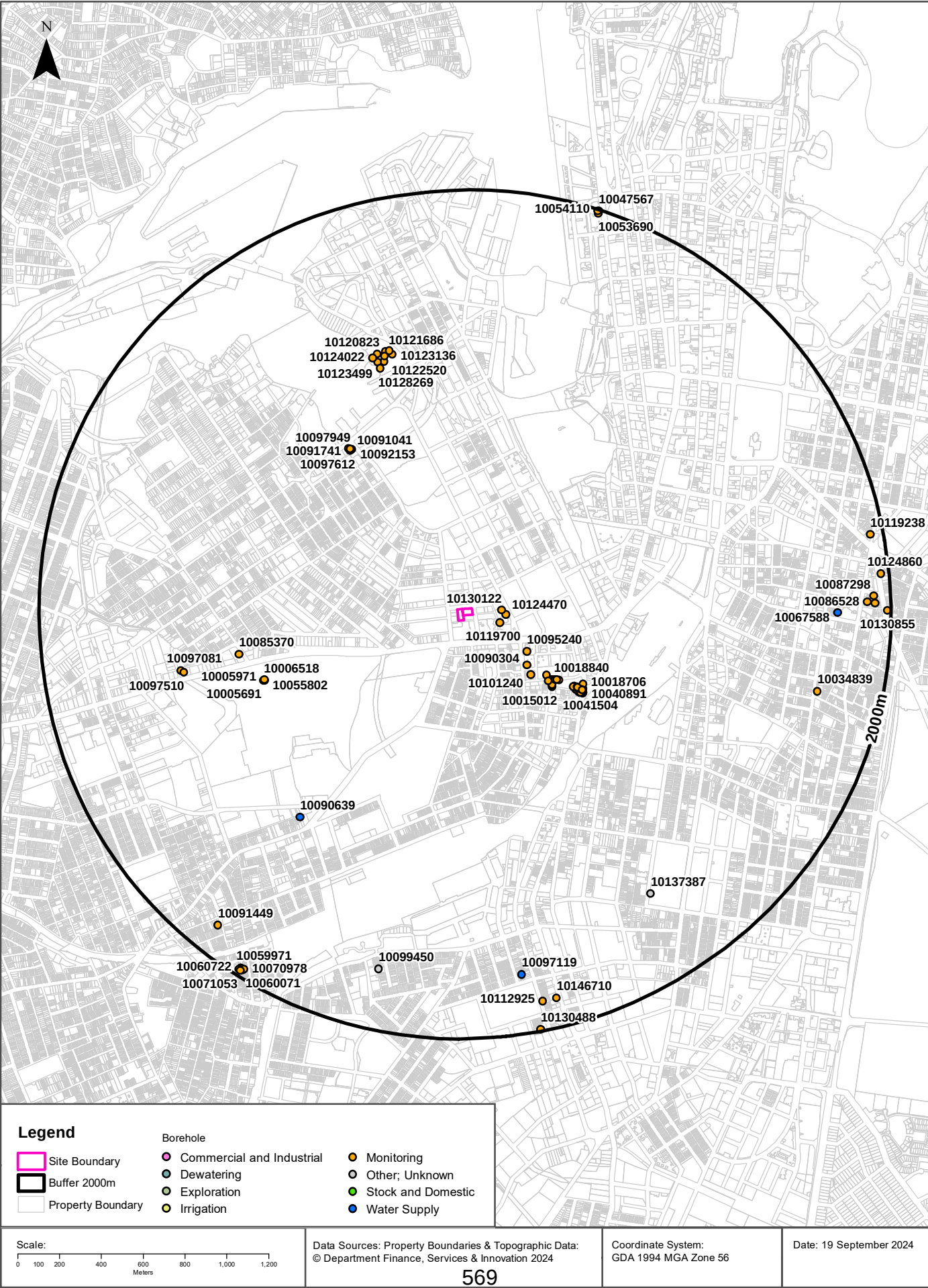
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Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

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

Prohibition Area No.	Prohibition	Distance	Direction
2	Groundwater cannot be used for: a. human consumption; b. consumption by animals; c. domestic purposes; d. any other purpose, except if the water is fit for purpose, or it is for remediation, temporary construction dewatering, testing or monitoring purposes.	902m	South East

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



Hydrogeology & Groundwater

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10119700	GW109646	Monitoring	Unknown	03/05/2008	8.20		AHD	1258	1.000	5.93	135m	East
10130122	GW109649	Monitoring	Unknown	03/05/2008	7.20		AHD	869	1.000	2.95	139m	East
10124470	GW109648	Monitoring	Unknown	03/05/2008	6.20		AHD	1302	0.500	5.23	159m	East
10095240	GW109501	Monitoring	Unknown	01/03/2007	6.00		AHD			2.30	313m	South East
10090304	GW109502	Monitoring	Unknown	01/03/2007	6.40		AHD			2.18	355m	South East
10101240	GW109503	Monitoring	Unknown	01/03/2007	5.20		AHD			2.24	400m	South East
10021162	GW113861	Monitoring	Functional	30/07/2003	6.50		AHD				458m	South East
10043749	GW113880	Monitoring	Functional	20/08/2004	5.00		AHD				482m	South East
10018940	GW113871	Monitoring	Functional	08/11/2003	6.00		AHD				491m	South East
10019726	GW113870	Monitoring	Functional	07/11/2003	4.80		AHD				493m	South East
10014393	GW113869	Monitoring	Functional	29/07/2003	6.00		AHD				497m	South East
10016953	GW113868	Monitoring	Functional	18/02/2014	3.70		AHD				499m	South East
10018840	GW113872	Monitoring	Functional	16/09/2003	8.00		AHD				499m	South East
10018321	GW113867	Monitoring	Functional	22/07/2003	3.50		AHD				502m	South East
10015013	GW113866	Monitoring	Functional	18/02/2014	3.00		AHD				504m	South East
10046818	GW113876	Monitoring	Functional	25/07/2003	7.80		AHD				504m	South East
10021163	GW113865	Monitoring	Functional	21/07/2003	6.50		AHD				507m	South East
10018707	GW113864	Monitoring	Functional	22/07/2003	4.50		AHD				509m	South East
10018320	GW113863	Monitoring	Functional	16/09/2003	4.60		AHD				511m	South East
10052854	GW113877	Monitoring	Functional	28/07/2003	5.50		AHD				512m	South East
10015012	GW113862	Monitoring	Functional	28/07/2003	3.80		AHD				515m	South East
10041126	GW113878	Monitoring	Functional	07/11/2003	7.00		AHD				520m	South East
10067967	GW113887	Monitoring	Functional	05/10/2004	5.70		AHD				593m	South East
10058307	GW113888	Monitoring	Functional	05/10/2004	5.50		AHD				594m	South East
10117564	GW113858	Monitoring	Functional	19/09/2003	6.30		AHD				608m	South East
10021854	GW113859	Monitoring	Functional	15/09/2003	6.10		AHD				611m	South East
10124855	GW113857	Monitoring	Functional	23/07/2003	6.00		AHD				612m	South East
10058087	GW113889	Monitoring	Functional	05/10/2004	6.70		AHD				614m	South East
10047496	GW113886	Monitoring	Functional	01/10/2004	5.80		AHD				615m	South East

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10047494	GW113879	Monitoring	Functional	25/07/2003	5.30		AHD				624m	South East
10043353	GW113873	Monitoring	Functional	26/07/2003	6.00		AHD				625m	South East
10047011	GW113874	Monitoring	Functional	19/09/2003	7.00		AHD				627m	South East
10043750	GW113884	Monitoring	Functional	20/08/2004	6.80		AHD				628m	South East
10044808	GW113875	Monitoring	Functional	30/07/2003	7.50		AHD				628m	South East
10100495	GW109500	Monitoring	Unknown	01/03/2007	4.80		AHD			2.30	628m	South East
10041504	GW113881	Monitoring	Functional	20/08/2004	6.10		AHD				629m	South East
10047495	GW113882	Monitoring	Functional	20/08/2004	6.10		AHD				634m	South East
10068400	GW113890	Monitoring	Functional	09/10/2005	6.00		AHD				637m	South East
10018706	GW113860	Monitoring	Functional	16/09/2003	6.50		AHD				638m	South East
10124948	GW113856	Monitoring	Functional	23/07/2003	6.20		AHD				638m	South East
10120160	GW113855	Monitoring	Functional	22/07/2003	5.00		AHD				640m	South East
10058255	GW113891	Monitoring	Functional	09/10/2005	6.80		AHD				642m	South East
10067968	GW113892	Monitoring	Functional	09/10/2005	7.00		AHD				644m	South East
10065448	GW113893	Monitoring	Functional	11/10/2005	8.50		AHD				647m	South East
10040891	GW113883	Monitoring	Functional	20/08/2004	6.10		AHD				648m	South East
10041505	GW113885	Monitoring	Functional	20/08/2004	7.00		AHD				648m	South East
10092153	GW110372	Monitoring	Unknown	24/04/2001	4.00		AHD			0.60	914m	North West
10097612	GW110371	Monitoring	Unknown	24/04/2001	4.00		AHD			0.70	914m	North West
10091041	GW110374	Monitoring	Unknown	24/04/2001	4.00		AHD				917m	North West
10097949	GW110370	Monitoring	Unknown	24/04/2001	4.00		AHD			0.60	920m	North West
10091741	GW110373	Monitoring	Unknown	24/04/2001	4.00		AHD			0.60	927m	North West
10055802	GW116422	Monitoring	Functioning	22/09/2017	5.30		AHD				970m	West
10005691	GW116421	Monitoring	Functioning	22/09/2017	5.30		AHD				971m	West
10005971	GW116421	Monitoring	Functioning	22/09/2017	5.30		AHD				971m	West
10006518	GW116424	Monitoring	Functioning	22/09/2017	5.00		AHD				973m	West
10085370	GW111408	Monitoring	Functional	05/02/2011	4.40		AHD			2.07	1060m	West
10090639	GW110247	Water Supply	Unknown	16/07/2009	210.00		AHD	4400	0.130	31.00	1207m	South West
10128269	GW111331	Monitoring	Functional	20/07/2010	6.00		AHD				1209m	North
10122520	GW114187	Monitoring	Functional	04/07/2013	6.00		AHD				1235m	North
10123499	GW111330	Monitoring	Functional	20/07/2010	4.00		AHD				1240m	North
10123136	GW114184	Monitoring	Functional	04/07/2013	6.00		AHD				1258m	North
10123076	GW114182	Monitoring	Functional	04/07/2013	11.55		AHD				1259m	North
10124022	GW111329	Monitoring	Functional	20/07/2010	6.00		AHD				1269m	North
10120823	GW114185	Monitoring	Functional	04/07/2013	3.00		AHD				1278m	North

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10121686	GW114183	Monitoring	Functional	04/07/2013	9.35		AHD				1280m	North
10123892	GW114186	Monitoring	Functional	04/07/2013	3.00		AHD				1280m	North
10097510	GW109230	Monitoring	Unknown	18/08/2008	1.80		AHD				1335m	West
10097081	GW109231	Monitoring	Unknown	18/08/2008	3.20		AHD				1348m	West
10137387	GW071907	Other	Functioning	15/05/2008	180.00	30.00	AHD	345	0.100	11.60	1584m	South East
10034839	GW102476	Monitoring	Unknown	01/01/1999	4.00		AHD				1690m	East
10099450	GW105938	Unknown	Unknown	20/05/2005			AHD				1709m	South
10097119	GW106192	Water Supply	Functioning	10/12/2004	6.00		AHD	Good	0.500	4.00	1717m	South
10067588	GW200690	Water Supply	Unknown	20/12/2007	6.00		AHD				1745m	East
10091449	GW105317	Monitoring	Unknown	21/03/2003	6.50		AHD			1.70	1855m	South West
10146710	GW114895	Monitoring	Functional	08/02/2013	6.00		AHD			4.20	1860m	South
10112925	GW115632	Monitoring	Functional	08/02/2013	6.50		AHD				1862m	South
10086528	GW109238	Monitoring	Unknown	19/08/2008	7.50		AHD	Fresh		4.59	1887m	East
10087298	GW109240	Monitoring	Unknown	20/08/2008	7.50		AHD	Fresh		5.67	1919m	East
10091739	GW109239	Monitoring	Unknown	19/08/2008	7.45		AHD	Fresh		4.57	1925m	East
10119238	GW112178	Monitoring	Functional	01/03/1999	30.00		AHD				1938m	East
10070978	GW109730	Monitoring	Unknown	28/08/2003	6.50		AHD	1000		1.00	1958m	South West
10059971	GW109729	Monitoring	Unknown	02/09/2003	6.00		AHD	1000		1.40	1960m	South West
10124860	GW112179	Monitoring	Functional	01/03/1999	30.00		AHD				1963m	East
10060071	GW109733	Monitoring	Unknown	05/09/2003	2.40		AHD	1000		1.40	1965m	South West
10060722	GW109731	Monitoring	Unknown	28/08/2003	6.00		AHD	1000		1.10	1971m	South West
10071053	GW109732	Monitoring	Unknown	02/09/2003	4.30		AHD	1000		1.50	1972m	South West
10053690	GW109087	Monitoring	Unknown	22/07/2008	8.50		AHD				1983m	North
10130855	GW112180	Monitoring	Functional	01/03/1999	30.00		AHD				1984m	East
10054110	GW109086	Monitoring	Unknown	22/07/2008	5.68		AHD				1992m	North
10130488	GW111958	Monitoring	Functional	27/04/2012	6.00		AHD			3.49	1992m	South
10047567	GW109085	Monitoring	Unknown	22/07/2008	5.68		AHD				1994m	North

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

Hydrogeology & Groundwater

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Driller's Logs

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

NGIS Bore ID	Drillers Log	Distance	Direction
10119700	0.00m-0.80m FILL,LT GREY,SAND,CONCRETE,BRICK,METAL FRAG. 0.80m-2.80m SILTY CLAY,BROWN,GREY,MED PLASTICITY 2.80m-5.00m CLAYEY SAND,GREY/DARK GREY 5.00m-8.00m SILTY SAND,LT GREY/RED 8.00m-8.20m SANDSTONE,RED,BROWN,WEATHERED,CLAY BANDS	135m	East
10130122	0.00m-4.80m FILL,GREY,BROWN,GRAVEL,CLAY,SILT 4.80m-5.90m SILTY SAND,LT GREY,RED,MED COARSE GRAINED 5.90m-7.20m SANDSTONE RED BROWN,WEATHERED WITH CLAY BANDS	139m	East
10124470	0.00m-2.90m FILL,BROWN/GREY,LOOSE GRAVEL,CONCRETE,SAND 2.90m-4.90m SILTY CLAY,LT GREY,MOTT.BROWN HIGH PLASTICITY 4.90m-5.80m SILTY SAND,LT GREY,MED COURSE GRAINED 5.80m-6.20m SANDSTONE,RED,BROWN,WEATHERED,CLAY BANDS	159m	East
10092153	0.00m-2.20m FILL,SILTY CLAY 2.20m-2.70m SANDY CLAY 2.70m-3.30m SILT,SOFT BLACK 3.30m-4.00m SILTY SAND	914m	North West
10097612	0.00m-2.50m FILL,SANDY CLAY 2.50m-3.10m SILT,SATURATED BLACK 3.10m-4.00m SILTY SAND	914m	North West
10091041	0.00m-0.80m SILTY SAND WITH MINOR CLAY 0.80m-2.80m CLAYEY SAND,WITH MINOR GRAVEL 2.80m-4.00m SANDY CLAY WITH MINOR SHELLS	917m	North West
10097949	0.00m-2.10m FILL,SANDY CLAY 2.10m-3.30m SILT,BLACK 3.30m-3.50m SAND CLAYEY 3.50m-4.00m CLAY SANDY	920m	North West
10091741	0.00m-1.60m FILL,SANDY CLAY 1.60m-3.40m SILT,SATURATED BLACK 3.40m-3.70m SILTY SAND 3.70m-4.00m SANDY CLAY	927m	North West
10085370	0.00m-0.22m CONCRETE SLAB 0.22m-0.50m GRAVEL ROADBASE 0.50m-1.10m FILLING,GREY BROWN AND GREY,SILTY CLAY 1.10m-4.40m CLAY,GREY,SILTY WITH TRACE OF IRONSTONE,GRAVEL,DAMP	1060m	West
10090639	0.00m-2.00m CLAY BROWN 2.00m-4.50m CLAY GREY 4.50m-22.00m SHALE GREY 22.00m-23.00m SHALE SOFT 23.00m-33.00m SHALE HARD 33.00m-74.00m SANDSTONE GREY 74.00m-76.00m SANDSTONE AND QUARTZ FINE 76.00m-134.00m SANDSTONE GREY 134.00m-135.50m SANDSTONE QUARTZ FINE 135.50m-153.50m SANDSTONE GREY 153.50m-154.00m SANDSTONE QUARTZ FINE 154.00m-168.00m SANDSTONE GREY 168.00m-170.00m SANDSTONE SHALE BEDDING 170.00m-188.00m SANDSTONE GREY 188.00m-188.50m SANDSTONE QUARTZ 188.50m-210.00m SANDSTONE GREY	1207m	South West
10128269	0.00m-0.29m CONCRETE PAVEMENT 0.29m-2.20m FILL,SILTY SAND,SILTY GRAVEL 2.20m-5.30m SILTY SAND,SHELL FRAGMENTS 5.30m-6.00m SILTY CLAY,ORANGE BROWN	1209m	North
10123499	0.00m-0.19m CONCRETE PAVEMENT ALL OVER 0.19m-2.50m FILL,CLAYEY SAND,GRAVELLY 2.50m-4.00m SANDSTONE,LIGHT GREY	1240m	North
10124022	0.00m-0.15m (UNKNOWN) 0.15m-1.50m FILL,SILTY SAND 1.50m-6.00m SANDSTONE	1269m	North

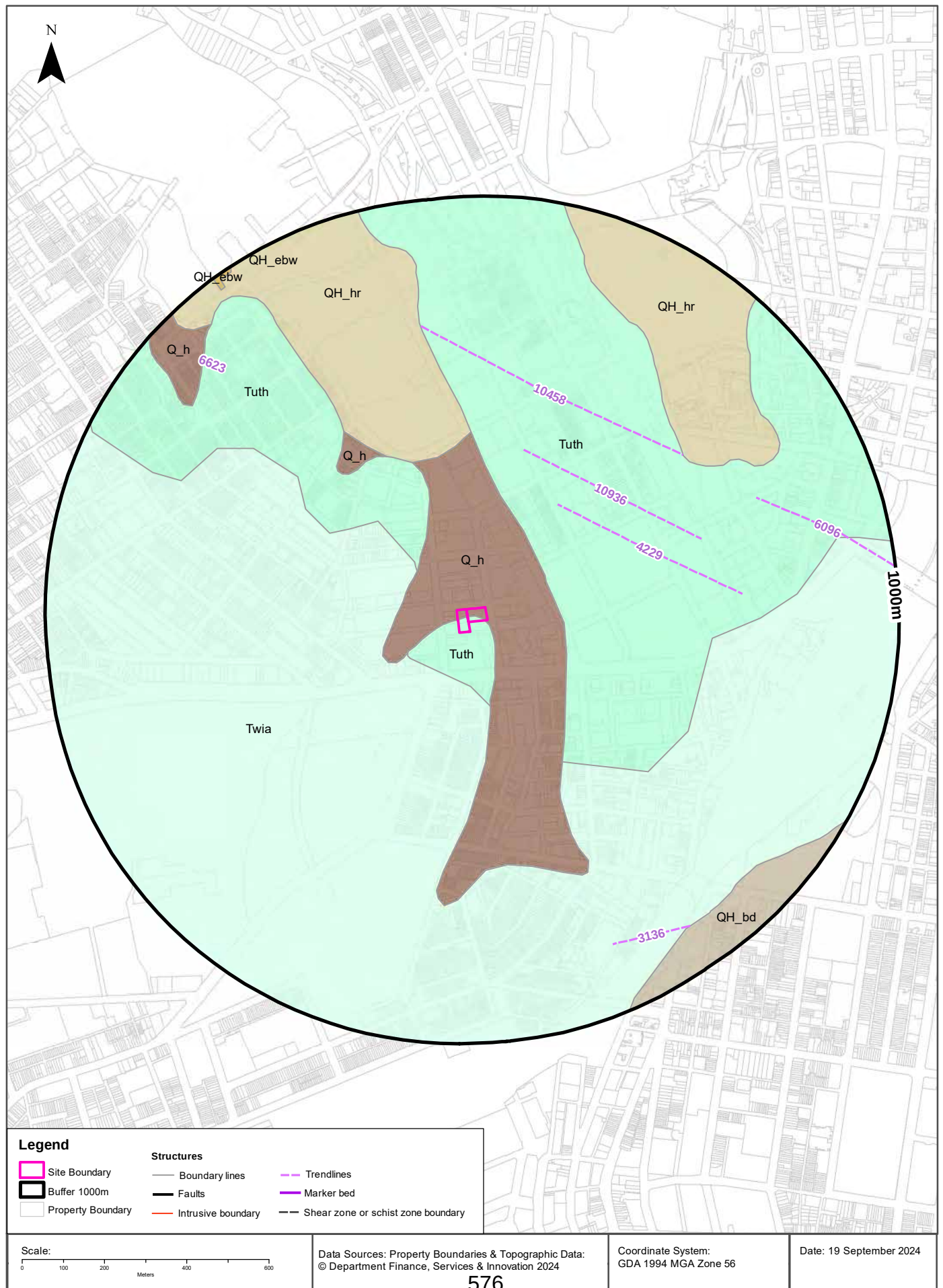
NGIS Bore ID	Drillers Log	Distance	Direction
10137387	0.00m-3.00m SANDY CLAY 3.00m-8.50m CLAY 8.50m-24.00m SHALE 24.00m-24.50m SANDSTONE GREY 24.50m-24.70m SANDSTONE GREY FRACTURED 24.70m-44.00m SANDSTONE GREY 44.00m-55.00m SANDSTONE QUARTZ 55.00m-55.50m SANDSTONE GREY FRACTURED 55.50m-82.00m SANDSTONE GREY 82.00m-85.00m SANDSTONE QUARTZ 85.00m-128.00m SANDSTONE GREY 128.00m-130.00m SANDSTONE QUARTZ 130.00m-138.00m SANDSTONE GREY 138.00m-154.00m SANDSTONE QUARTZ 154.00m-180.00m SANDSTONE GREY	1584m	South East
10097119	0.00m-0.30m topsoil 0.30m-2.20m sand, yellow 2.20m-2.30m rock, coffee 2.30m-4.50m sand, brown 4.50m-6.00m sand, grey	1717m	South
10091449	0.00m-1.10m FILL, SILTY, SANDY CLAY 1.10m-6.50m SILTY CLAY, HIGH PLASTICITY	1855m	South West
10146710	0.00m-0.15m CONCRETE 0.15m-1.20m FILL, SANDY CLAY WITH GRAVELS 1.20m-1.80m SAND YELLOW WHITE 1.80m-2.40m SAND YELLOW MEDIUM GRAINED 2.40m-2.90m SAND LIGHT BROWN MED. GRAINED 2.90m-6.00m SAND GREY WHITE BECOM. SATURATED AT 4.5m	1860m	South
10086528	0.00m-0.10m ASPHALT 0.10m-0.40m FILL, BRICK, SANDSTONE 0.40m-2.50m CLAY BROWN 2.50m-7.50m SHALE, RED/GREY	1887m	East
10087298	0.10m-0.20m CONCRETE 0.20m-0.50m FILL BROWN, GRAVEL, CLAY, GLASS, BRICK, SANDSTONE 0.50m-2.70m CLAY, RED, GREY, WHITE 2.70m-7.50m SHALE RED, WEATHERED, CLAY BANDS, MOIST	1919m	East
10091739	0.00m-0.10m ASPHALT 0.10m-0.60m FILL BROWN, GRAVEL, CLAY 0.60m-2.90m CLAY BROWN ORANGE, RED, SILT MOIST 2.90m-7.45m SHALE RED, GREY, CLAY BANDS	1925m	East
10070978	0.00m-0.50m TOPSOIL 0.50m-1.00m CLAY ORANGE, MOIST, FIRM, MODERATE PLASTICITY 1.00m-1.50m CLAY, ORANGE/GREY, VERY STIFF, MODERATE PLASTICITY 1.50m-2.00m CLAY, ORANGE/GREY, VERY STIFF, MODERATE PLASTICITY 2.00m-3.00m CLAY, GREY, RED, VRY STIFF, NON PLASTIC, DAMP 3.00m-4.00m CLAY, GREY, RED, VRY STIFF, NON PLASTIC 4.00m-4.50m CLAY, GREY/RED, SOME GRAVEL, NON PLASTIC, DAMP 4.50m-5.00m CLAY, WATER AT 4.5m 5.00m-5.50m CLAY, GRAVELLY, GREY/RED, WET, NON PLASTIC, HETEROGENOUS, STIFF 5.50m-6.50m CLAY, BROWN, GREY, WET, HOMOGENOUS	1958m	South West
10059971	0.00m-0.20m PAVERS, CONCRETE 0.20m-0.70m FILL, CLAY, SILTY SOIL, BROWN, BLACK, HARD IN GROUND, DRY, NO ODOUR 0.70m-1.80m CLAY, TIGHT, LIGHT BROWN, HIGH PLASTICITY, DRY, NO ODOUR 1.80m-3.00m CLAY, RED COLOUR, NO ODOUR, DRY 3.00m-4.00m CLAY, NO ODOUR, DRY 4.00m-6.00m CLAY, VERY HOMOGENOUS	1960m	South West
10060071	0.00m-0.80m FILL, CLAY, SILTY SOIL, CEMENT, GRAVELS, HARD IN GROUND, DRY, NO ODOUR 0.80m-1.50m CLAY, BLACK/GREY SMEARING AND STAINING IN SOIL, HIGH PLASTICITY 1.50m-2.00m CLAY, NATURAL RED COLOURING BECOMING APPARENT IN SOIL, DRY 2.00m-2.40m CLAY, RED SOIL COLOURING, NO ODOUR	1965m	South West
10060722	0.00m-0.50m TOPSOIL, BROWN, DRY, HETEROGENOUS 0.50m-1.00m FILL, SLAG, BLACK, RESIDUAL WHITE CLAY. 1.00m-1.50m CLAY, BROWN, RED, STIFF, NON PLASTIC, DAMP 1.50m-2.00m CLAY, RED/BROWN, STIFF, NON PLASTIC 2.00m-2.50m CLAY, RED/GREY, STIFF, PLASTIC, DAMP 2.50m-3.00m CLAY, RED/GREY, STIFF, NON PLASTIC 3.00m-4.00m CLAY, RED/GREY, STIFF, NON PLASTIC 4.00m-5.00m CLAY, RED/GREY, STIFF, ON PLASTIC 5.00m-5.50m CLAY, VERY STIFF, NON PLASTIC. 5.50m-6.00m CLAY, BROWN, LOOSE, SOFT, MOIST	1971m	South West
10071053	0.00m-0.10m TOPSOIL, SILTY, BLACK, LOOSE, FINE GRAIN, DRY, NO ODOUR 0.10m-1.20m CLAY, LIGHT BROWN, STICKY, STIFF, HIGH PLASTICITY, NO ODOUR 1.20m-2.00m CLAY, RED, ORANGE, STIFF, MODERATE PLASTICITY, DRY, NO ODOUR 2.00m-3.30m CLAY BECOMING LESS PLASTIC, BRITTLE AND DRY WITH DEPTH 3.30m-4.30m CLAY, GREY, WITH IRONSTONE BANDS, SOFT, STIFF, HIGH PLASTICITY, GREY CLAY	1972m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10053690	0.00m-1.00m FILL,CLAY MIXED WITH COARSE GRAVEL 1.00m-1.50m FILL SAND MEDIUM GRAINED 1.50m-2.20m FILL,SILTY SAND,MOIST,FIRM WITH GRAVEL 2.20m-3.50m FILL,SAND MEDIUM GRAINED,GREY/BROWN 3.50m-4.00m FILL,SILTY SAND,MOIST,LOOSE TO FIRM 4.00m-4.50m FILL,CRUSHED SANDSTONE 4.50m-5.90m SAND MEDIUM TO FINE ,SILT BROWN,CLAY 5.90m-7.00m CLAY,HIGH PLASTICITY,WET,SHELLS 7.00m-8.50m SAND,FINE TO MEDIUM GRAINED,BEIGE	1983m	North
10054110	0.00m-0.50m FILL,MEDIUM TO COARSE 0.50m-1.00m FILL,SILTY SAND 1.00m-1.80m FILL,CLAYEY SAND FINE GRAINED 1.80m-2.00m FILL,GRAVELLY SAND 2.00m-3.20m FILL,SAND WITH SOME SILT 3.20m-3.80m FILL SILTY SAND 3.80m-4.50m FILL CLAY SILT SAND MIXTURE 4.50m-5.68m SAND,FINE TO MEDIUM GRAINED	1992m	North
10130488	0.00m-0.32m CONCRETE 0.32m-1.40m FILL, LOOSE,DARK GREY/BLACK CLAYEY SAND AND SANDSTONE 1.40m-6.00m SAND, LOOSE WHITE FINE GRAINED	1992m	South
10047567	0.00m-1.30m FILL,SILTY SAND MEDIUM TO COARSE 1.30m-2.10m FILL,SILT SAND CLAY MIXTURE 2.10m-2.20m FILL, SHINY GRAVEL ,BLACK SILT 2.20m-3.10m FILL,SILTY SAND BROWN RED 3.10m-4.00m FILL CLAY,GREY,BROWN,MOIST 4.00m-5.68m SAND,FINE TO MEDIUM	1994m	North

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

Geology

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Q_h	Anthropogenic deposits	Anthropocene deposits varying from large man-made clasts (concrete blocks to building demolition rubble) to quarried natural boulders, with interstitial sand-sized to clay matrix.	\Anthropogenic deposits\ \\	Quaternary (base) to Now (top)	Anthropogenic material	0m
Tuth	Hawkesbury Sandstone	Medium- to coarse-grained quartz sandstone with minor shale and laminite lenses.	\Ungrouped Triassic units\Hawkesbury Sandstone\	Anisian (base) to Anisian (top)	Sandstone	0m
Twia	Ashfield Shale	Black to light grey shale and laminite.	\Wianamatta Group\Ashfield Shale\	Middle Triassic (base) to Middle Triassic (top)	Shale	107m
QH_hr	Anthropogenic deposits - reclaimed estuarine areas	Natural surface elevation raised by placement of fill over former estuarine swamps and subaqueous estuarine margins (supratidal to subtidal zone); estuarine banks and islands formed from dredge spoil.	\Anthropogenic deposits\ \Anthropogenic deposits - reclaimed estuarine areas\	Holocene (base) to Now (top)	Anthropogenic material	373m
QH_bd	Coastal deposits - dune facies	Marine-deposited and aeolian-reworked coastal sand dunes.	\Coastal deposits\ \Coastal deposits - dune facies\	Holocene (base) to Now (top)	Sand	881m
QH_ebw	Estuarine basin and bay (subaqueous)	Clay, silt, shell, very fine- to fine-grained lithic-quartz ($\pm$ carbonate) sand (fluvially- and/or marine-deposited).	\Estuarine deposits\ \Estuarine basin and bay \Estuarine basin and bay (subaqueous)\	Holocene (base) to Now (top)	Clastic sediment	966m

Linear Geological Structures

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

Map ID	Feature Description	Map Sheet Name	Distance
4229	Dyke or vein	Sydney 1:100,000 Geological Sheet	306m
10936	Dyke or vein	Sydney 1:100,000 Geological Sheet	384m
10458	Dyke or vein	Sydney 1:100,000 Geological Sheet	538m
6096	Dyke or vein	Sydney 1:100,000 Geological Sheet	710m
6623	Dyke or vein	Sydney 1:100,000 Geological Sheet	821m
3136	Dyke or vein	Sydney 1:100,000 Geological Sheet	835m
6622	Dyke or vein	Sydney 1:100,000 Geological Sheet	997m

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

Map ID	Boundary Type	Description	Map Sheet Name	Distance
No Features				

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW

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Naturally Occurring Asbestos Potential

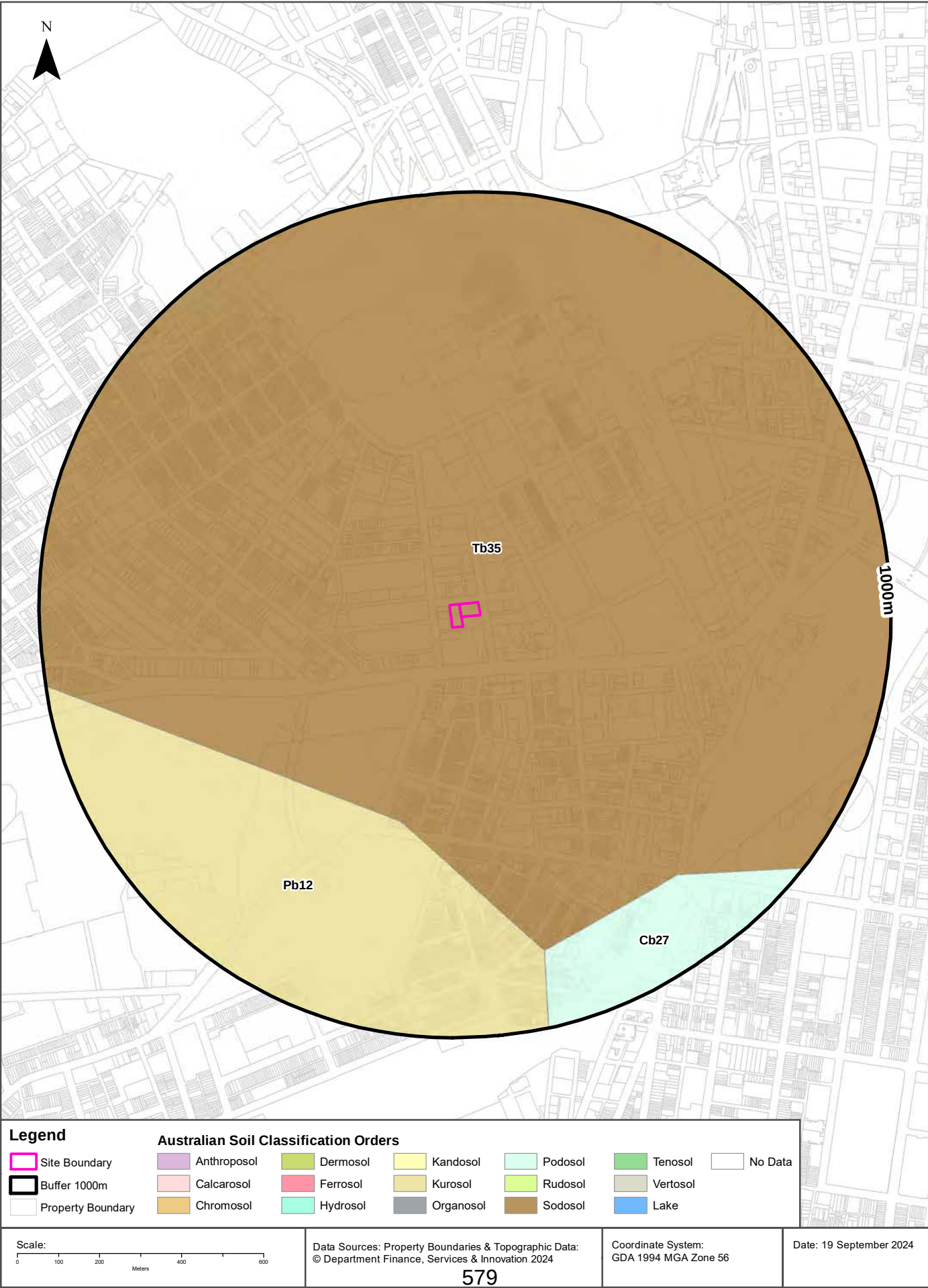
1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

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

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy



Soils

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Atlas of Australian Soils

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

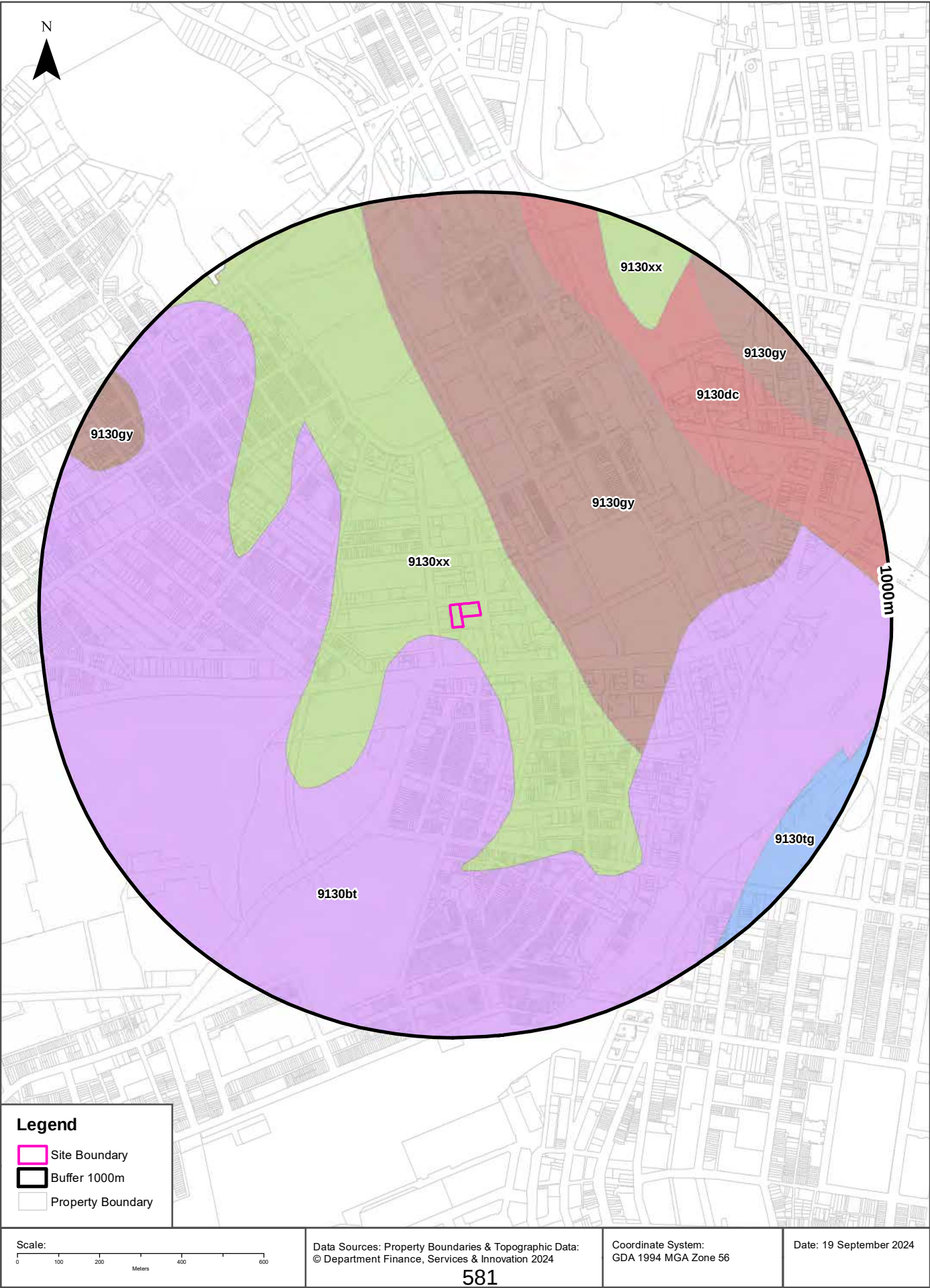
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Tb35	Sodosol	Dissected plateau remnants--flat to undulating ridge tops with moderate to steep side slopes: chief soils are hard acidic yellow and yellow mottled soils (Dy3.41), (Dy2.21), and (Dy2.41) and hard acidic red soils (Dr2.21); 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	On-site
Pb12	Kurosol	Gently rolling to rounded hilly country with some steep slopes and broad valleys: chief soils are hard acidic red soils (Dr2.21) with hard neutral and acidic yellow mottled soils (Dy3.42 and Dy3.41) on lower slopes and in valleys. Associated are small areas of various soils including (Gn3.54) on some ridges, (Dr3.31) on some slopes; (Dr2.23) in saddles and some mid-slope positions, and some low-lying swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Small areas of other soils such as (Db1.2) are likely throughout.	486m	South West
Cb27	Podosol	Coastal sand plains and dunes, lagoons, and swampy areas: chief soils are leached sands (Uc2.3 and Uc2.2). Associated are dunes of siliceous sands (Uc1.2) and/or calcareous sands (Uc1.1) fringing the coastline; and swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Unit Cb27 has similarities with units Cb28 and Ca6.	783m	South East

Atlas of Australian Soils Data Source: CSIRO

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Soil Landscapes of Central and Eastern NSW

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Soils

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Soil Landscapes of Central and Eastern NSW

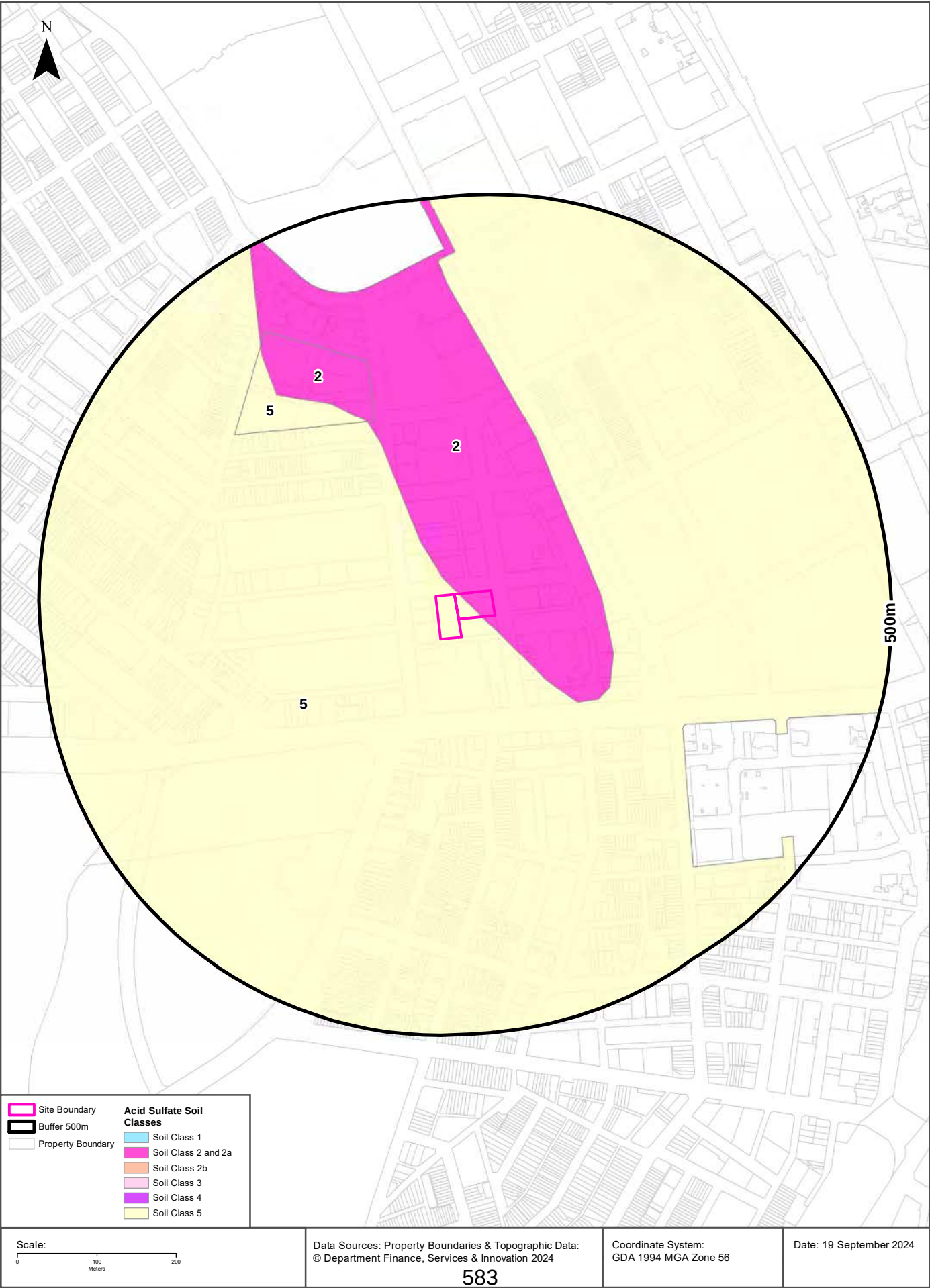
Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
9130xx	Disturbed Terrain	0m	On-site
9130bt	Blacktown	29m	South West
9130gy	Gymea	120m	North East
9130dc	Deep Creek	637m	North East
9130tg	Tuggerah	883m	South East

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

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Acid Sulfate Soils

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Environmental Planning Instrument - Acid Sulfate Soils

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

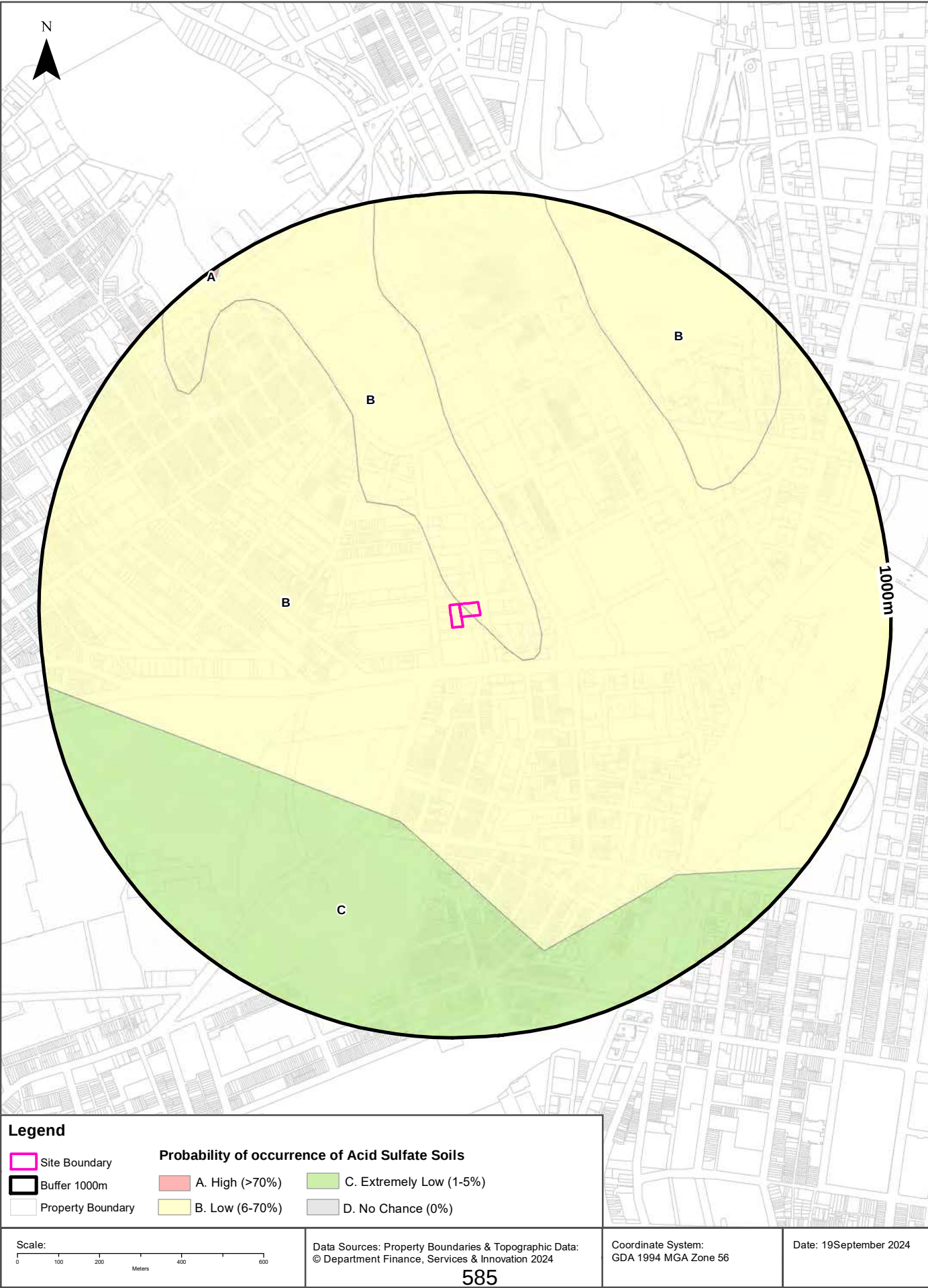
Soil Class	Description	EPI Name
2	Works below natural ground surface present an environmental risk; Works by which the watertable is likely to be lowered present an environmental risk	Sydney Local Environmental Plan 2012

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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Acid Sulfate Soils

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m	On-site
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	487m	South
A	High Probability of occurrence. >70% chance of occurrence.	981m	North West

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

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

No

What Dryland Salinity assessments are given?

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

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

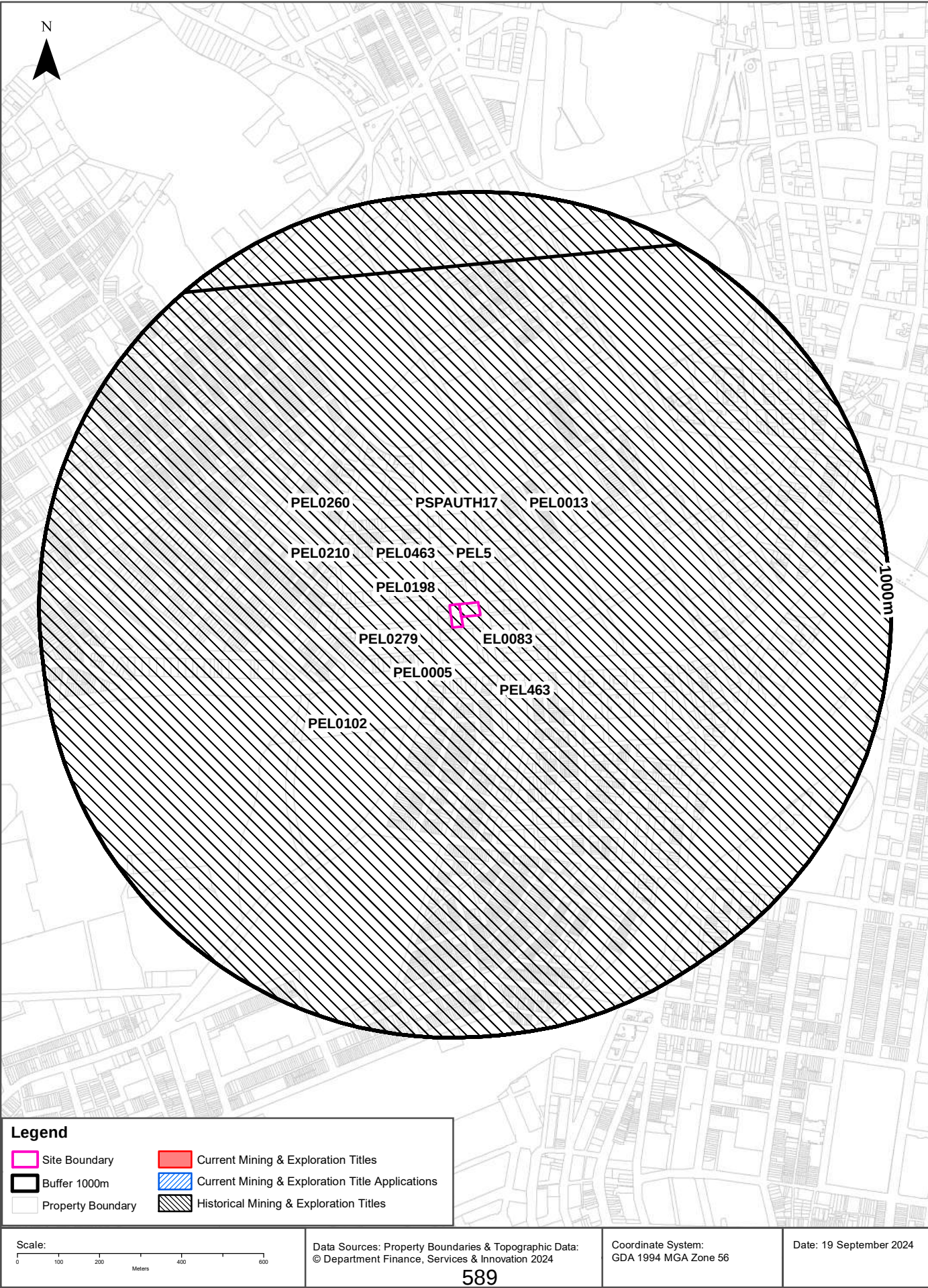
1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

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

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

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

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

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

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

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Historical Mining & Exploration Titles

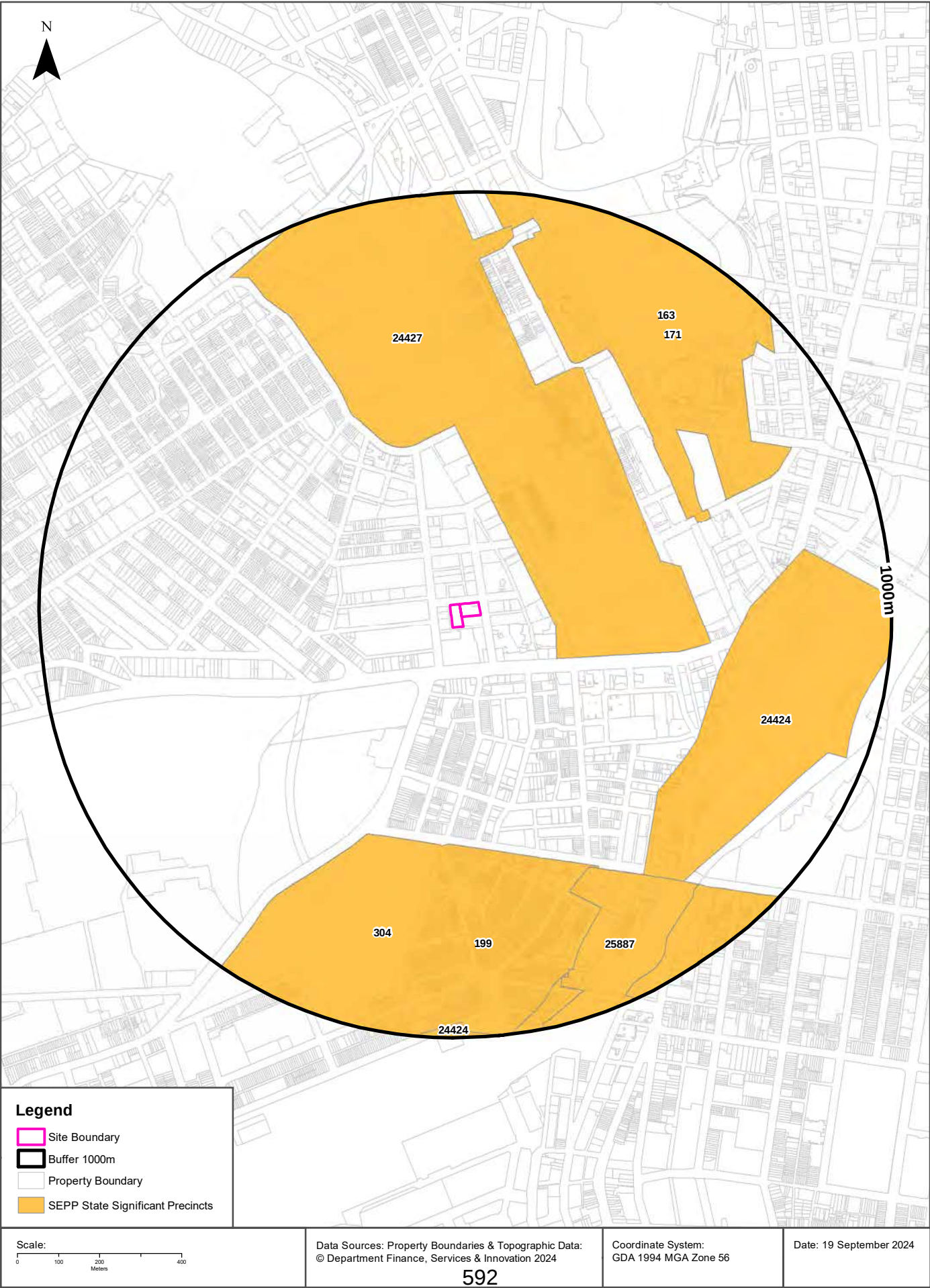
Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0463	DART ENERGY (APOLLO) PTY LTD	20091010	20150603	PETROLEUM	Petroleum	0m	On-site
PEL0005	AGL UPSTREAM INVESTMENTS PTY LIMITED	19931111	20150403	PETROLEUM	Petroleum	0m	On-site
PEL0198	JOHN STREVS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	19670201	19680201	MINERALS		0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	20070803	20080703	PETROLEUM	Petroleum	0m	On-site
PEL0013	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	19810909	19930803	PETROLEUM	Petroleum	0m	On-site
PEL463	DART ENERGY (APOLLO) PTY LTD	20081022	20130227	MINERALS		0m	On-site
PEL5	AGL UPSTREAM INVESTMENTS PTY LIMITED	19931111	20011210	MINERALS		0m	On-site
PEL0279	THE ELECTRICITY COMMISSION OF NSW (TRADING AS PACIFIC POWER)	19910504	19931111	PETROLEUM	Petroleum	0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site

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

SEPP State Significant Precincts

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



State Environmental Planning Policy

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

State Significant Precincts

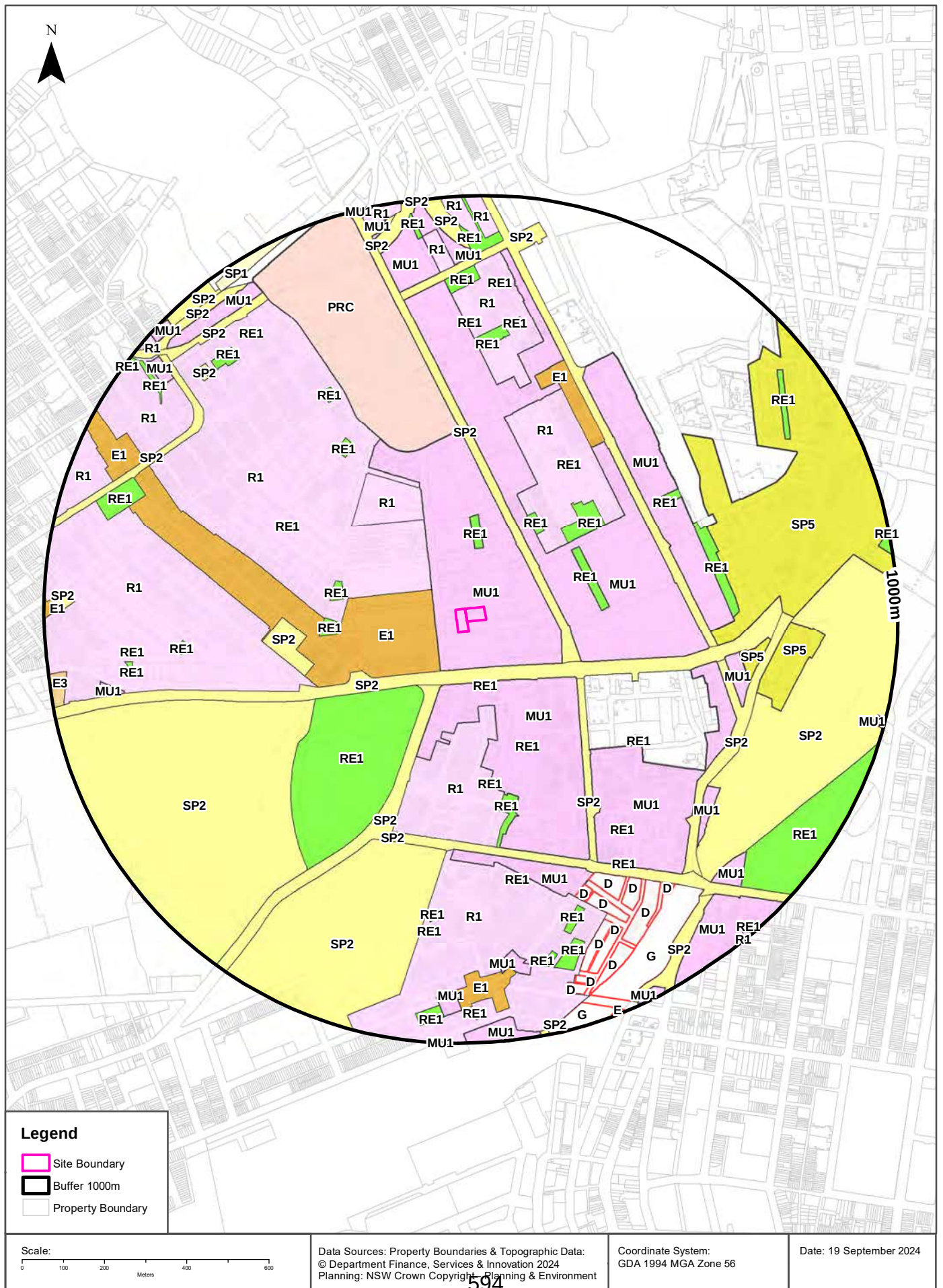
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
24427	Bays Precinct	State Environmental Planning Policy (Precincts - Eastern Harbour City) 2021	16/12/2022	08/09/2023	08/09/2023	State Environmental Planning Policy Amendment (Blackwattle Bay Precinct) 2022	140m	North
199	Redfern-Waterloo	State Environmental Planning Policy (Precincts - Central River City) 2021	02/12/2021	01/03/2022	01/03/2022		528m	South
304		State Environmental Planning Policy (Precincts - Central River City) 2021	02/12/2021	01/03/2022	01/03/2022		528m	South
163		State Environmental Planning Policy (Precincts - Eastern Harbour City) 2021	02/12/2021	01/03/2022	01/03/2022		545m	North East
171	Darling Harbour	State Environmental Planning Policy (Precincts - Eastern Harbour City) 2021	02/12/2021	01/03/2022	01/03/2022		545m	North East
24424	Bays Precinct	State Environmental Planning Policy (Precincts - Eastern Harbour City) 2021	09/12/2022	09/12/2022	08/09/2023	State Environmental Planning Policy Amendment (Stage 1 Bays West Precinct) 2022	592m	South East
25887		State Environmental Planning Policy (Precincts - Eastern Harbour City) 2021	15/12/2023	15/12/2023	15/12/2023	State Environmental Planning Policy Amendment (Redfern-North Eveleigh Paint Shop Sub-precinct) 2023	662m	South East

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

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Environmental Planning Instrument

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

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
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	0m	On-site
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	54m	West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		78m	North West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		92m	South
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	125m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		130m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		133m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		140m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		143m	North
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	160m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		164m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		184m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		198m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		216m	North East
R1	General Residential		Sydney Local Environmental Plan (Glebe Affordable Housing Project) 2011	01/07/2011	01/07/2011	01/07/2011		234m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		250m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		255m	North East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		262m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		273m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		280m	West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		306m	South East
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		359m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		366m	South
R1	General Residential		Sydney Local Environmental Plan 2012	12/01/2024	12/01/2024	12/01/2024	Map Amendment No 8	366m	West
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		384m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		389m	North East
PRC	Public Recreation		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	09/12/2022	09/12/2022	08/09/2023	State Environmental Planning Policy Amendment (Stage 1 Bays West Precinct) 2022	398m	North
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	403m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		405m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		442m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		442m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		456m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		457m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	462m	North East
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	467m	North East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		502m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		506m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	528m	South
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		528m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		528m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		540m	North

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP5	Metropolitan Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	544m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		545m	East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		569m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	585m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		592m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		594m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		602m	South
SP5	Metropolitan Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	618m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		625m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		653m	West
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		658m	South East
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/08/2020	14/08/2020	12/01/2024	State Environmental Planning Policy Amendment (Western Gateway Sub-precinct) 2020	669m	East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	670m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		670m	South East
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		676m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		677m	North
SP5	Metropolitan Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	678m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		686m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		688m	South

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		701m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		715m	South
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		715m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		717m	South
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		741m	South East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		760m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		767m	North
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		771m	South
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		773m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		780m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		780m	West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	781m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		783m	North West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	783m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		788m	South
G	Special Purposes Zone - Infrastructure		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		789m	South East
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		793m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		794m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		803m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		803m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		806m	North West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		820m	North

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	822m	South
MU1	Mixed Use		Sydney Local Environmental Plan 2012	12/01/2024	12/01/2024	12/01/2024	Map Amendment No 8	823m	West
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		824m	North West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	831m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	833m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		834m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		836m	North East
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	837m	North West
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		838m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		844m	South East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		846m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		854m	North
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	865m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	871m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		873m	North West
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		875m	South
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		876m	North West
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		884m	North
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		886m	South

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	887m	North West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		895m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		897m	North
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	901m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		905m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		908m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		914m	South
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	919m	North
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		926m	West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		935m	North West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	15/12/2023	15/12/2023	12/01/2024	State Environmental Planning Policy Amendment (Redfern-North Eveleigh Paint Shop Sub-precinct) 2023	941m	South
G	Special Purposes Zone - Infrastructure		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	15/12/2023	15/12/2023	15/12/2023	State Environmental Planning Policy Amendment (Redfern-North Eveleigh Paint Shop Sub-precinct) 2023	942m	South
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	948m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		951m	North
E3	Productivity Support		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	955m	West
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	961m	West
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		962m	North West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP1	Special Activities	Sydney Fish Market	Sydney Local Environmental Plan 2012	08/09/2023	08/09/2023	12/01/2024	Map Amendment No 6	962m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		967m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	968m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		968m	East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	970m	North West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	972m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	977m	North
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	15/12/2023	15/12/2023	12/01/2024	State Environmental Planning Policy Amendment (Redfern-North Eveleigh Paint Shop Sub-precinct) 2023	977m	South
R1	General Residential		Sydney Local Environmental Plan 2012	18/02/2022	18/02/2022	12/01/2024	Amendment No 75	980m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		982m	North West
E	Business Zone - Commercial Core		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		983m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		994m	North

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1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



Heritage

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

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
5011964	Substation	41 Mountain Street Ultimo	SYDNEY	02/04/1999	00934	3077	0m	On-site
5056444	The University of Sydney, University Colleges and Victoria Park	Corner of Parramatta and City Roads, Camperdown	SYDNEY	24/08/2018	01974	2734	164m	South West

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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
C68	Mountain Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	0m	On-site
I2053	Electrical substation	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	0m	On-site

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I2003	Commercial building 'Bay House'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	5m	South West
I2018	Former commercial building 'Grace Bros Homewares'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	6m	South
I2054	Warehouse 'Wilcox Mofflin Ltd'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	20m	East
I2055	St Barnabas Anglican Church site	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	21m	South East
I2017	Former National Bank of Australia	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	73m	South East
I664	Former commercial building 'Grace Bros, Model & Moxham Store'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	78m	South West
I2016	Phoenician Club, former 'Broadway Theatre'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	89m	South East
I2052	Former Sydney Technical College School of Rural Studies	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	93m	North East
I2063	Former warehouse 'Briscoe & Co'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	107m	East
C9	Chippendale	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	109m	South
I2015	Commercial building (169-171 Broadway)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	109m	South East
I2014	Commercial building (165-167 Broadway)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	114m	South East
I2013	Commercial building (163 Broadway)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	120m	South East
I168	Former Commonwealth Bank	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	126m	South
I169	Former English, Scottish & Australian Bank	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	129m	South
I167	Former Hotel Broadway	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	132m	South
I2012	Commercial building (157-159 Broadway)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	134m	South East
I2011	Former commercial building 'Bishop's Stoves' (153-155 Broadway)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	140m	South East
C30	Hughes	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	140m	North West
I2010	Commercial building (147-151 Broadway)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	147m	South East
I655	Australian Youth Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	148m	North West
I172	Lansdowne Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	148m	South

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I2009	Commercial building	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	159m	South East
I166	Commercial building 'Pioneer House'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	161m	South East
I39	Victoria Park	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	162m	South West
I2064	Vulcan Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	167m	North East
1664A	Former International Harvester Company of America Warehouse and Showroom	Item - General	Local	Sydney Local Environmental Plan 2012	29/11/2019	29/11/2019	05/04/2024	169m	South West
I183	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	173m	South
I2045	Former School of Mechanical & Automotive Engineering, Sydney Technical College (Bu	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	176m	East
I777	House	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	181m	North West
I205	Terrace house (21A Shepherd Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	181m	South
I2008	Former Stonemason Arms Hotel (133-135 Broadway)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	182m	South East
I204	Terrace group 'Clive Terraces'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	186m	South
I206	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	189m	South
I2007	Commercial building (129 Broadway)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	195m	South East
I207	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	198m	South
I200	Terrace group 'Rose Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	201m	South
I179	Former terrace group 'Coopers Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	203m	South
C29	Glebe Point Road	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	206m	South West
I778	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	207m	North West
I170	UTS Blackfriars Campus group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	208m	South East
I165	St Benedict's Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	215m	South East
I173	Remnant wall 'Coopers Cottages'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	216m	South
I779	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	222m	North West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I2046	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	228m	North East
I174	Former warehouse 'Grace Bros'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	232m	South
I2041	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	234m	North East
I2062	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	239m	North
I2277	Bay Street Depot former stables and factory	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	05/04/2024	240m	North
I685	Former commercial building 'Australian Gaslight Co Showroom'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	249m	West

Heritage Data Source: NSW Crown Copyright - Planning & Environment

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Natural Hazards

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Bush Fire Prone Land

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

Bush Fire Prone Land Category	Distance	Direction
No records in buffer		

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

Ecological Constraints - Vegetation & Ramsar Wetlands

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007



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

Scale:

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

Coordinate System:
GDA 1994 MGA Zone 56

Date: 19 September 2024

Ecological Constraints

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
9576568	Not classified	(Not classified) Not classified	Not classified	0m	On-site

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

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Ecological Constraints

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

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

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

Ecological Constraints

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Collaborative Australian Protected Areas Database - Terrestrial

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

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

Collaborative Australian Protected Areas Database - Marine

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

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

Source: Collaborative Australian Protected Areas Database (CAPAD) 2022
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Ecological Constraints

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Groundwater Dependent Ecosystems Atlas

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

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

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Ecological Constraints

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

Inflow Dependent Ecosystems Likelihood

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

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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Ecological Constraints

1-3 Smail and 41-49 Mountain Streets, Ultimo, NSW 2007

NSW BioNet Species Sightings

Species sightings from the NSW BioNet Repository that have either a state or federal conservation status, or a sensitivity status, and are within 10 km of the site:

Note: This data does not include NSW Category 1 sensitive species.

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

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Charadrius mongolus	Lesser Sand-plover	Not Sensitive	Vulnerable	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius veredus	Oriental Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chlidonias leucopterus	White-winged Black Tern	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Cuculus optatus	Oriental Cuckoo	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Not Sensitive	Endangered	Vulnerable	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Not Sensitive	Endangered Population, Vulnerable	Not Listed	
Animalia	Aves	Erythrorhynchus radiatus	Red Goshawk	Category 2	Endangered	Endangered	
Animalia	Aves	Falco subniger	Black Falcon	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;JAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Grantiella picta	Painted Honeyeater	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Gygis alba	White Tern	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Not Sensitive	Endangered	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Not Sensitive	Endangered	Critically Endangered	
Animalia	Aves	Limicola falcinellus	Broad-billed Sandpiper	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Not Sensitive	Vulnerable	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Macronectes giganteus	Southern Giant Petrel	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Macronectes halli	Northern Giant-Petrel	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Manorina melanotis	Black-eared Miner	Not Sensitive	Critically Endangered	Endangered	
Animalia	Aves	Menura alberti	Albert's Lyrebird	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Motacilla flava	Yellow Wagtail	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Neophema chrysogaster	Orange-bellied Parrot	Category 3	Critically Endangered	Critically Endangered	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Sensitive	Not Listed	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius minutus	Little Curlew	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Oceanites oceanicus	Wilson's Storm-Petrel	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Phaethon lepturus	White-tailed Tropicbird	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Phaethon rubricauda	Red-tailed Tropicbird	Not Sensitive	Vulnerable	Not Listed	CAMBA;JAMBA
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Polytelis anthopeplus monarchoides	Regent Parrot (eastern subspecies)	Category 3	Endangered	Vulnerable	
Animalia	Aves	Pterodroma leucoptera leucoptera	Gould's Petrel	Not Sensitive	Vulnerable	Endangered	
Animalia	Aves	Pterodroma nigripennis	Black-winged Petrel	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pterodroma solandri	Providence Petrel	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus magnificus	Wompoo Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Puffinus assimilis	Little Shearwater	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Stercorarius longicaudus	Long-tailed Jaeger	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Stercorarius parasiticus	Arctic Jaeger	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stercorarius pomarinus	Pomarine Jaeger	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sterna hirundo	Common Tern	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sternula albifrons	Little Tern	Not Sensitive	Endangered	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Sula dactylatra	Masked Booby	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Thalassarche bulleri	Buller's Albatross	Not Sensitive	Not Listed	Vulnerable	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Thalassarche cauta	Shy Albatross	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Thalassarche chrysostoma	Grey-headed Albatross	Not Sensitive	Not Listed	Endangered	
Animalia	Aves	Thalassarche melanophris	Black-browed Albatross	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Not Sensitive	Critically Endangered	Vulnerable	
Animalia	Aves	Tringa brevipes	Grey-tailed Tattler	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa incana	Wandering Tattler	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Xenus cinereus	Terek Sandpiper	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Gastropoda	Meridolum maryae	Maroubra Woodland Snail	Not Sensitive	Endangered	Endangered	
Animalia	Insecta	Petalura gigantea	Giant Dragonfly	Not Sensitive	Endangered	Not Listed	
Animalia	Mammalia	Aepyprymnus rufescens	Rufous Bettong	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Arctocephalus forsteri	New Zealand Fur-seal	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Balaenoptera musculus	Blue Whale	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Not Sensitive	Vulnerable	Endangered	
Animalia	Mammalia	Dasyurus viverrinus	Eastern Quoll	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Dugong dugon	Dugong	Not Sensitive	Endangered	Not Listed	
Animalia	Mammalia	Eubalaena australis	Southern Right Whale	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Macrotis lagotis	Bilby	Not Sensitive	Extinct	Vulnerable	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Notomys cervinus	Fawn Hopping-mouse	Not Sensitive	Extinct	Not Listed	
Animalia	Mammalia	Notomys mitchellii	Mitchell's Hopping-mouse	Not Sensitive	Extinct	Not Listed	
Animalia	Mammalia	Perameles nasuta	Long-nosed Bandicoot	Not Sensitive	Endangered Population	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Physeter macrocephalus	Sperm Whale	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Pseudomys gracilicaudatus	Eastern Chestnut Mouse	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Pseudomys novaehollandiae	New Holland Mouse	Not Sensitive	Not Listed	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheath-tail-bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Vespadelus troungtoni	Eastern Cave Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Aspidites ramsayi	Woma	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Caretta caretta	Loggerhead Turtle	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Dermochelys coriacea	Leatherback Turtle	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Diplodactylus platyurus	Eastern Fat-tailed Gecko	Not Sensitive	Endangered	Not Listed	
Animalia	Reptilia	Eretmochelys imbricata	Hawksbill Turtle	Not Sensitive	Not Listed	Vulnerable	
Animalia	Reptilia	Hoplocephalus bitorquatus	Pale-headed Snake	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Pseudonaja modesta	Ringed Brown Snake	Not Sensitive	Endangered	Not Listed	
Animalia	Reptilia	Tiliqua occipitalis	Western Blue-tongued Lizard	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Uvidicolus sphyrurus	Border Thick-tailed Gecko	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Varanus rosenbergi	Rosenberg's Goanna	Not Sensitive	Vulnerable	Not Listed	
Fungi	Flora	Camarophyllopsis kearneyi		Not Sensitive	Endangered	Not Listed	
Fungi	Flora	Hygrocybe anomala var. ianthinomarginata		Not Sensitive	Vulnerable	Not Listed	
Fungi	Flora	Hygrocybe aurantipes		Not Sensitive	Vulnerable	Not Listed	
Fungi	Flora	Hygrocybe austropratensis		Not Sensitive	Endangered	Not Listed	
Fungi	Flora	Hygrocybe collucera		Not Sensitive	Endangered	Not Listed	
Fungi	Flora	Hygrocybe griseoramosa		Not Sensitive	Endangered	Not Listed	
Fungi	Flora	Hygrocybe lanecovensis		Not Sensitive	Endangered	Not Listed	
Fungi	Flora	Hygrocybe reesia		Not Sensitive	Vulnerable	Not Listed	
Fungi	Flora	Hygrocybe rubronivea		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Acacia bynoeana	Bynoe's Wattle	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Acacia gordonii		Not Sensitive	Endangered	Endangered	
Plantae	Flora	Acacia pubescens	Downy Wattle	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Acacia terminalis subsp. Eastern Sydney	Sunshine wattle	Not Sensitive	Endangered	Endangered	
Plantae	Flora	Allocasuarina portuensis	Nielsen Park She-oak	Category 3	Endangered	Endangered	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Amperea xiphoclada var. pedicellata		Not Sensitive	Extinct	Extinct	
Plantae	Flora	Asterolasia buxifolia		Not Sensitive	Critically Endangered	Critically Endangered	
Plantae	Flora	Caladenia tessellata	Thick Lip Spider Orchid	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Category 3	Vulnerable	Not Listed	
Plantae	Flora	Darwinia biflora		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Dichanthium setosum	Bluegrass	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Doryanthes palmeri	Giant Spear Lily	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Epacris purpurascens var. purpurascens		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Eucalyptus camfieldii	Camfield's Stringybark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus fracta	Broken Back Ironbark	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Eucalyptus leucoxylon subsp. pruinosa	Yellow Gum	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus pulverulenta	Silver-leaved Gum	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus scoparia	Wallangarra White Gum	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Genoplesium baueri	Bauer's Midge Orchid	Category 2	Endangered	Endangered	
Plantae	Flora	Grammitis stenophylla	Narrow-leaf Finger Fern	Category 3	Endangered	Not Listed	
Plantae	Flora	Grevillea caleyi	Caley's Grevillea	Category 3	Critically Endangered	Critically Endangered	
Plantae	Flora	Hibbertia puberula		Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Lasiopetalum joyceae		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Leptospermum deanei		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Macadamia integrifolia	Macadamia Nut	Not Sensitive	Not Listed	Vulnerable	
Plantae	Flora	Macadamia tetraphylla	Rough-shelled Bush Nut	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Melaleuca biconvexa	Biconvex Paperbark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Category 3	Endangered	Endangered	
Plantae	Flora	Pimelea curviflora var. curviflora		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Prasophyllum fuscum	Slaty Leek Orchid	Category 2	Critically Endangered	Vulnerable	
Plantae	Flora	Prostanthera marifolia	Seaforth Mintbush	Category 3	Critically Endangered	Critically Endangered	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Not Sensitive	Critically Endangered	Critically Endangered	
Plantae	Flora	Sarcophilus hartmannii	Hartman's Sarcophilus	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Senecio spathulatus	Coast Groundsel	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Senna acclinis	Rainforest Cassia	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Not Sensitive	Endangered	Vulnerable	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Tetradlea glandulosa		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Tetradlea juncea	Black-eyed Susan	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Thesium australe	Austral Toadflax	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Triplarina imbricata	Creek Triplarina	Not Sensitive	Endangered	Endangered	
Plantae	Flora	Wilsonia backhousei	Narrow-leaved Wilsonia	Not Sensitive	Vulnerable	Not Listed	

Source: NSW BioNet Species Sightings

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Appendix D

Extract from Previous Report

APPENDIX H
Summary of Test Results by Consultants



TABLE B
SUMMARY OF LABORATORY TEST DATA
HEAVY METALS - FILL SOILS
All data in mg/kg unless stated otherwise

ANALYTE	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
PQL - Envirolab Services	4.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0
Guideline concentration-HIL *	500	100	60%	5000	1500	75	3000	35000
SAMPLE (Depth in metres)								
BH1 (0.15-0.5)	6.9	LPQL	21	170	320	1.6	11	250
BH2 (0.15-0.5)	7.5	LPQL	22	170	410	2.8	18	330
BH3 (0.55-0.8)	LPQL	LPQL	16	LPQL	4	LPQL	2	3
BH4 (0.15-0.5)	18	LPQL	18	35	200	0.8	9	140
BH5 (0.2-0.5)	4.2	1.1	9.7	42	260	1	5	740
BH6 (0.2-0.6)	12	LPQL	23	180	320	1.5	72	190
BH7 (0.25-0.4)	19	3.4	21	640	470	0.8	19	1400
Total no. of samples	7	7	7	7	7	7	7	7
Maximum Value	19	3.4	23	640	470	2.8	72	1400

EXPLANATION:

*: National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPC Guidelines)
HIL - Column F, Commercial/Industrial

Concentration above HIL

100

Concentration above EIL

100

PQL: Practical Quantitation Limit

LPQL: Less than PQL

NA: Not Analysed

NOTE: Statistical analysis only shown
where appropriate.

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TABLE C
SUMMARY OF LABORATORY TEST DATA
ORGANICS - FILL SOILS
All data in mg/kg unless stated otherwise

ORGANICS	Total PAHs	B(a)P	Aldrin and Dieldrin	Chlordane	DDT & DDD & DDE	Heptachlor	PCBs
PQL - Envirolab	-	0.05	0.1	0.1	0.1	0.1	0.1
Guideline concentration *	100	5	50	250	1000	50	50
SAMPLE							
BH1 (0.15-0.5)	109	8.1	LPQL	LPQL	LPQL	LPQL	LPQL
BH2 (0.15-0.5)	48	5.3	LPQL	LPQL	LPQL	LPQL	LPQL
BH3 (0.55-0.8)	0.05	0.05	LPQL	LPQL	LPQL	LPQL	LPQL
BH4 (0.15-0.5)	7.9	0.8	LPQL	LPQL	LPQL	LPQL	LPQL
BH5 (0.2-0.5)	25	2.5	LPQL	LPQL	LPQL	LPQL	LPQL
BH6 (0.2-0.6)	197	23	LPQL	LPQL	LPQL	LPQL	LPQL
BH7 (0.25-0.4)	31	3	LPQL	LPQL	LPQL	LPQL	LPQL
Total no. of samples	7	7	7	7	7	7	7
Maximum Value	197	23	0	0	0	0	0
Mean Value	59.7	6.1	LPQL	LPQL	LPQL	LPQL	LPQL

EXPLANATION:

*: National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPC Guidelines)
Column F, Commercial/Industrial

Concentration above guideline level

ABBREVIATIONS:

PCBs: Polychlorinated Biphenyls
PAH: Polycyclic aromatic hydrocarbons
B(a)P: Benzo(a)pyrene
PQL: Practical Quantitation Limit
LPQL: Less than PQL



TABLE D
SUMMARY OF LABORATORY TEST DATA
PETROLEUM HYDROCARBONS
All data in mg/kg unless stated otherwise

	PETROLEUM HYDROCARBONS								PID Reading
	Total Petroleum Hydrocarbons				Benzene	Toluene	Ethyl Benzene	Total Xylenes	
	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₂₈	C ₂₉ -C ₃₆					
PQL - Envirolab	25	100	100	100	1.0	1.0	1.0	3.0	
Guideline concentration *	65	1000			1	1.4	3.1	14	
SAMPLE (Depth in metres)									
BH1 (0.15-0.5)	LPQL	LPQL	250	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH2 (0.15-0.5)	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH3 (0.55-0.8)	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH4 (0.15-0.5)	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH5 (0.2-0.5)	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH6 (0.2-0.6)	LPQL	LPQL	590	490	LPQL	LPQL	LPQL	LPQL	0
BH7 (0.25-0.4)	LPQL	LPQL	580	710	LPQL	LPQL	LPQL	LPQL	0
Total no. of samples	7	7	7	7	7	7	7	7	7
Maximum Value	0	0	590	710	0	0	0	0	0
Mean Value	LPQL	LPQL	473.3	600	LPQL	LPQL	LPQL	LPQL	0
Upper Level 95% Confidence Limit on Mean Value		869.5							

EXPLANATION:

* EPA Guidelines for Assessing Service Station Sites - 1994

Concentration above Guideline Level

Toluene guideline of 15.5mg/kg can be adopted as corrected value based on original data (ve de Plasse et al 1993)

PQL: Practical Quantitation Limit

LPQL: - Less than Practical Quantitation Limit

NOTE: Statistical analysis only shown where appropriate



TABLE E
SUMMARY OF LABORATORY TEST DATA
ASBESTOS IN SOIL

ANALYTE	Asbestos Identification	Respirable Fibre Content
SAMPLE (Depth in metres)		
BH1 (0.15-0.5)	No asbestos detected	Respirable Fibres Not Detected
BH2 (0.15-0.5)	No asbestos detected	Respirable Fibres Not Detected
BH3 (0.55-0.8)	No asbestos detected	Respirable Fibres Not Detected
BH4 (0.15-0.5)	No asbestos detected	Respirable Fibres Not Detected
BH5 (0.2-0.5)	No asbestos detected	Respirable Fibres Not Detected
BH6 (0.2-0.6)	No asbestos detected	Respirable Fibres Not Detected
BH7 (0.25-0.4)	No asbestos detected	Respirable Fibres Not Detected

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TABLE F
GROUNDWATER MONITORING ANALYSIS
All results in mg/L unless stated otherwise.

Contaminant	PQL Envirolab	Guideline Concentration		SAMPLES
		ANZECC 2000	Drinking Water	BH3
Arsenic (As III)	0.001	0.024	0.007	LPQL
Cadmium	0.0001	0.0002	0.002	LPQL
Chromium	0.001	0.001	0.05	LPQL
Copper	0.001	0.0014	2.0	LPQL
Lead	0.001	0.0034	0.01	0.003
Mercury	0.0001	0.0006	0.001	LPQL
Nickel	0.001	0.011	0.02	0.008
Zinc	0.001	0.008	3.0	0.011
Hydrocarbons C6-C9	0.01	NSL	NSL	LPQL
Hydrocarbons C10-C14	0.05	NSL	NSL	LPQL
Hydrocarbons C15-C28	0.1			LPQL
Hydrocarbons C29-C36	0.1			LPQL
Benzene	0.001	0.95	0.001	LPQL
Toluene	0.001	0.18	0.8	LPQL
Ethyl Benzene	0.001	0.08	0.3	LPQL
Total xylenes	0.003	nsi	0.6	LPQL
o-xylene	0.001	0.35	NSL	LPQL
m+p-xylene	0.002	0.03	NSL	LPQL

EXPLANATION:

NA : Not Analysed

NSL : No set limit

* Trigger value for protection of 95% of freshwater species.

Australian and New Zealand Guidelines for Fresh and Marine Water Quality,
Australian and New Zealand Environment and Conservation Council 2000.

Threshold concentrations for Protection of Aquatic Ecosystems

NSW EPA Guidelines for Assessing Service Station sites - Health Based Levels 1994.

Concentration above guideline level

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TABLE G-1
QA/QC - RELATIVE PERCENTAGE DIFFERENCES

SAMPLE	ANALYSIS	INITIAL (mg/kg)	REPEAT (mg/kg)	MEAN (mg/kg)	RPD %
Intra-laboratory Soil BH3 (0.55-0.8) = Dup A	Arsenic	LPQL	LPQL	LPQL	0
	Cadmium	LPQL	LPQL	LPQL	0
	Chromium	16	15	15.5	6
	Copper	LPQL	LPQL	LPQL	0
	Lead	4	4	4	0
	Mercury	LPQL	LPQL	LPQL	0
	Nickel	2	2	2	0
	Zinc	3	3	3	0
	Naphthalene	LPQL	LPQL	LPQL	0
	Acenaphthylene	LPQL	LPQL	LPQL	0
	Acenaphthene	LPQL	LPQL	LPQL	0
	Fluorene	LPQL	LPQL	LPQL	0
	Phenanthrene	LPQL	LPQL	LPQL	0
	Anthracene	LPQL	LPQL	LPQL	0
	Fluoranthene	LPQL	LPQL	LPQL	0
	Pyrene	LPQL	LPQL	LPQL	0
	Benzo(a)anthracene	LPQL	LPQL	LPQL	0
	Chrysene	LPQL	LPQL	LPQL	0
	Benzo(b)&(k)fluorant	LPQL	LPQL	LPQL	0
	Benzo(a)pyrene	0.05	LPQL	0.0375	67
	Indeno(123-cd)pyrene	LPQL	LPQL	LPQL	0
	Dibenzo(ah)anthracene	LPQL	LPQL	LPQL	0
	Benzo(ghi)perylene	LPQL	LPQL	LPQL	0
	Total PAHs	0.05	LPQL	0.0375	67
	C ₆ -C ₉ TPH	LPQL	LPQL	LPQL	0
	C ₁₀ -C ₁₄ TPH	LPQL	LPQL	LPQL	0
	C ₁₅ -C ₂₈ TPH	LPQL	LPQL	LPQL	0
	C ₂₉ -C ₃₆ TPH	LPQL	LPQL	LPQL	0
	Benzene	LPQL	LPQL	LPQL	0
	Toluene	LPQL	LPQL	LPQL	0
	Ethylbenzene	LPQL	LPQL	LPQL	0
	Total Xylenes	LPQL	LPQL	LPQL	0

Explanation

RPD : Relative Percentage Difference
nc : Not calculated

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TABLE G-2
QA/QC - RELATIVE PERCENTAGE DIFFERENCES

SAMPLE	ANALYSIS	INITIAL (mg/kg)	REPEAT (mg/kg)	MEAN (mg/kg)	RPD %
Intra-laboratory Soil BH6 (0.2-0.6) = Dup B	Arsenic	12	11	11.5	9
	Cadmium	LPQL	1	0.75	67
	Chromium	23	23	23	0
	Copper	180	160	170	12
	Lead	320	260	290	21
	Mercury	1.5	1.4	1.45	7
	Nickel	72	45	58.5	46
	Zinc	190	310	250	48
	Naphthalene	1.5	1.8	1.65	18
	Acenaphthylene	3	4	3.5	29
	Acenaphthene	0.9	1.2	1.05	29
	Fluorene	0.9	LPQL	0.7	57
	Phenanthrene	15	19	17	24
	Anthracene	3.5	5.4	4.45	43
	Fluoranthene	29	33	31	13
	Pyrene	29	35	32	19
	Benzo(a)anthracene	16	20	18	22
	Chrysene	17	19	18	11
	Benzo(b)&(k)fluorant	31	30	30.5	3
	Benzo(a)pyrene	23	22	22.5	4
	Indeno(123-cd)pyrene	11	12	11.5	9
	Dibenzo(ah)anthracene	2.9	2.9	2.9	0
	Benzo(ghi)perylene	13	18	15.5	32
	Total PAHs	197	223.3	210.15	13
	C ₆ -C ₉ TPH	LPQL	LPQL	LPQL	0
	C ₁₀ -C ₁₄ TPH	LPQL	LPQL	LPQL	0
	C ₁₅ -C ₂₈ TPH	590	850	720	36
	C ₂₉ -C ₃₆ TPH	490	360	425	31
	Benzene	LPQL	LPQL	LPQL	0
	Toluene	LPQL	LPQL	LPQL	0
	Ethylbenzene	LPQL	LPQL	LPQL	0
	Total Xylenes	LPQL	LPQL	LPQL	0

Explanation

RPD : Relative Percentage Difference
nc : Not calculated

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TABLE G-3
QA/QC - RELATIVE PERCENTAGE DIFFERENCES

SAMPLE	ANALYSIS	INITIAL (mg/kg)	REPEAT (mg/kg)	MEAN (mg/kg)	RPD %
Inter-laboratory Water BH3 = Dup 1	Arsenic	LPQL	LPQL	LPQL	0
	Cadmium	LPQL	LPQL	LPQL	0
	Chromium	LPQL	LPQL	LPQL	0
	Copper	LPQL	LPQL	LPQL	0
	Lead	0.003	0.003	0.003	0
	Mercury	LPQL	LPQL	LPQL	0
	Nickel	0.008	0.008	0.008	0
	Zinc	0.011	0.017	0.014	43
	C6-C9 TPH	LPQL	LPQL	LPQL	0
	C10-C14 TPH	LPQL	LPQL	LPQL	0
	C15-C28 TPH	LPQL	LPQL	LPQL	0
	C29-C36 TPH	LPQL	LPQL	LPQL	0
	Benzene	LPQL	LPQL	LPQL	0
	Toluene	LPQL	LPQL	LPQL	0
	Ethylbenzene	LPQL	LPQL	LPQL	0
	Total Xylenes	LPQL	LPQL	LPQL	0

Explanation

RPD : Relative Percentage Difference
nc : Not calculated

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TABLE H
SUMMARY OF LABORATORY TEST DATA
TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP)
All data in mg/L unless stated otherwise

ANALYTE	As	Cr	Pb	Hg	Ni	B(a)P
PQL - Envirolab	0.05	0.01	0.03	0.0005	0.02	0.001
Guideline concentration * TCLP1 Inert	0.5	0.5	0.5	0.02	0.2	0.004
SAMPLE						
BH1 (0.15-0.5)	NA	NA	NA	NA	NA	LPQL
BH2 (0.15-0.5)	LPQL	LPQL	0.4	LPQL	0.03	LPQL
BH4 (0.15-0.5)	LPQL	LPQL	0.38	LPQL	LPQL	NA
BH5 (0.2-0.5)	LPQL	LPQL	0.2	LPQL	LPQL	NA
BH6 (0.2-0.6)	NA	NA	NA	NA	NA	LPQL
BH7 (0.25-0.4)	LPQL	LPQL	0.19	LPQL	0.08	LPQL
Total no. of samples	6	6	6	6	6	6
Maximum Value	0	0	0.4	0	0.08	0

EXPLANATION:

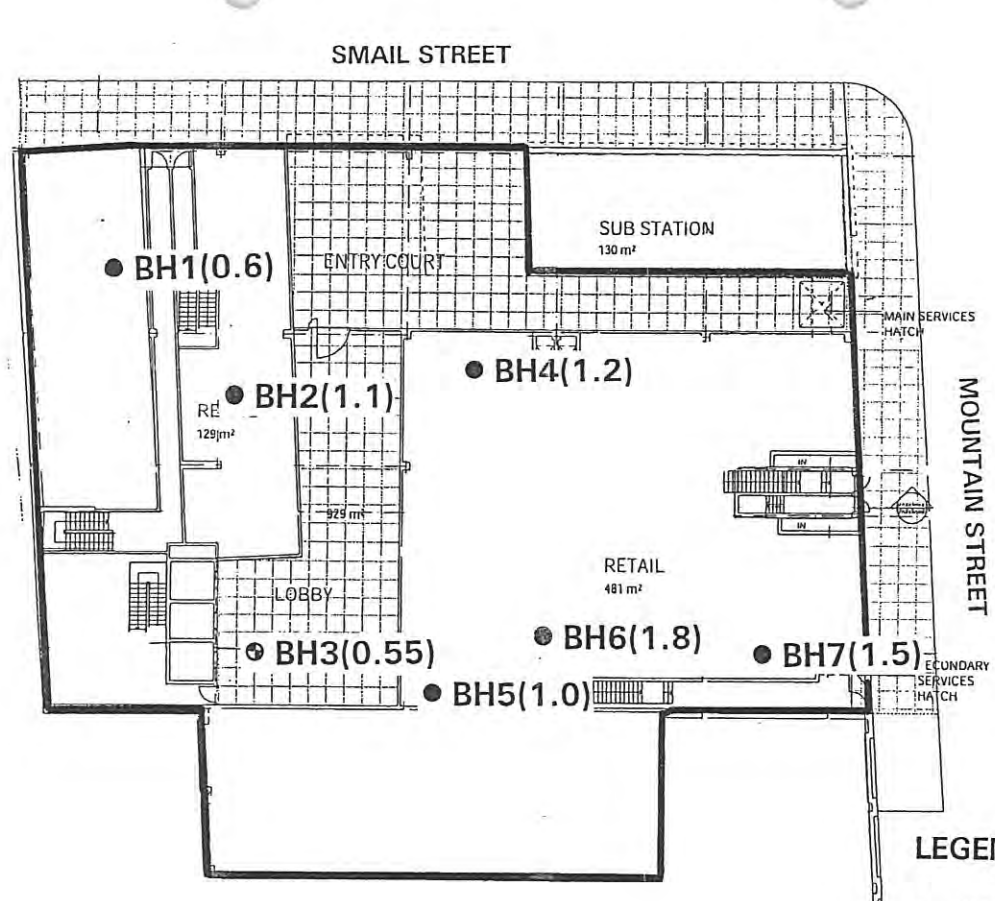
* Environmental Guidelines: Assessment, Classification and Management
of Liquid and Non-Liquid wastes (NSW EPA 1999)
Further reference should be made to Table A-2 for waste classification criteria
NA: not analysed

Value above guideline level



NOTE: Statistical analysis only shown where appropriate

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**LEGEND:**

- BH1(0.6) BOREHOLE LOCATION, NUMBER AND DEPTH OF FILL (METRES)
- ⊗ BH3(0.55) TEMPORARY MONITORING WELL INSTALLED IN BOREHOLE

BORHOLE LOCATION PLAN

43-49 MOUNTAIN STREET, ULTIMO

NOTE: Reference should be made to the text for a full understanding of this plan.



**ENVIRONMENTAL
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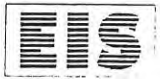
Report No. E14286F-RPT2

Figure: 2

APPENDIX G
Bore Logs prepared by Consultants

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

1

1/1

Environmental logs are not to be used for geotechnical purposes

Weather: Sunny 25°

Client: NATION-WIDE INCORPORATED CO PTY LTD

Project: PROPOSED COMMERCIAL DEVELOPMENT

Location: 43-49 MOUNTAIN STREET, ULTIMO, NSW

Job No. E14286F

Method: SPIRAL AUGER
JK250

Start: 8.10am

Date: 20-12-05

Finish: 9.20am

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	USO	DB	DS									
DRY ON COMPLETION					PID = 0	0		-	CONCRETE: 150mm.t				
					PID = 0			-	FILL: Clayey sand, fine to medium grained, brown, with a trace of slag and sandstone gravel.	M	-	-	
					PID = 0	1		SM	SILTY SAND: fine to medium grained, light brown, with a trace of clay.	D	-	-	
					PID = 0	2		SC	CLAYEY SAND: fine to medium grained, orange brown, with extremely weathered sandstone bands.	D XW	-	-	LOW 'TC' BIT RESISTANCE
									SANDSTONE: light grey.				
									END OF BOREHOLE AT 2.0m				
						3							
						4							
						5							
						6							
						7							



ENVIRONMENTAL LOG

Borehole No.

2

1/1

Environmental logs are not to be used for geotechnical purposes

Weather: Sunny 25°

Client: NATION-WIDE INCORPORATED CO PTY LTD

Project: PROPOSED COMMERCIAL DEVELOPMENT

Location: 43-49 MOUNTAIN STREET, ULTIMO, NSW

Job No. E14286F

Method: SPIRAL AUGER
JK250

Start: 9.30am

Date: 20-12-05

Finish: 10.15am

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB	DS									
DRY ON COMPLETION					PID = 0	0		-	CONCRETE: 150mm.t				
					PID = 0			-	FILL: Silty sand, fine to medium grained, brown, with a trace of slag, sandstone and igneous gravel.	M	-	-	
					PID = 0				as above, but light brown.				
					PID = 0	1		SM	SILTY SAND: fine to medium grained, light brown, with orange brown bands.	M	-	-	POSSIBLY FILL
					PID = 0			CL-CH	SANDY CLAY: medium to high plasticity, orange brown mottled red, with a trace of ironstone gravel.	MC < PL	-	-	
					PID = 0	2		-	SANDSTONE: light grey.	XW	-	-	LOW 'TC' BIT RESISTANCE
						3			END OF BOREHOLE AT 3.0m				
						4							
						5							
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

3

1/1

Environmental logs are not to be used for geotechnical purposes

Weather: Sunny 25°

Client: NATION-WIDE INCORPORATED CO PTY LTD

Project: PROPOSED COMMERCIAL DEVELOPMENT

Location: 43-49 MOUNTAIN STREET, ULTIMO, NSW

Job No. E14286F

Method: SPIRAL AUGER
JK250

Start: 10.40am

Date: 20-12-05

Finish: 11.30am

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB	DS									
DRY ON COMPLETION AFTER 4 HRS						0			CONCRETE; 550mm.t				NO SPT DUE TO HEIGHT RESTRICTIONS
					PID = 0	1		SC	CLAYEY SAND: fine to medium grained, orange brown.	M	-	-	
						2		-	SANDSTONE: light grey, with orange bands	XW	-	-	LOW 'TC' BIT RESISTANCE
					PID = 0	3				DW			MODERATE RESISTANCE
						4			as above, but light brown.	SW			HIGH RESISTANCE
						5			END OF BOREHOLE AT 4.5m				TEMPORARY PIEZOMETER INSTALLED UNSLOTTED 0-1.5m SLOTTED 1.5-4.5m
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

4

1/1

Environmental logs are not to be used for geotechnical purposes

Weather: Sunny 25°

Client: NATION-WIDE INCORPORATED CO PTY LTD

Project: PROPOSED COMMERICAL DEVELOPMENT

Location: 43-49 MOUNTAIN STREET, ULTIMO, NSW

Job No. E14286F

Method: SPIRAL AUGER

Start: 2.40pm

Date: 20-12-05

JK250

Finish: 3.15pm

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB	DS									
DRY ON COMPLETION					PID = 0	0		-	CONCRETE: 150mm.t	D	-	-	
					PID = 0	1		-	FILL: Silty sand, fine to medium grained, brown, with a trace of sandstone and igneous gravel, clay and slag.				
					PID = 0				as above, but light grey.				
					PID = 0			SM	SILTY SAND: fine to medium grained, light grey.	D	-	-	POSSIBLY FILL
					PID = 0	2			as above, but with orange bands and clay.				
					PID = 0	3		-	SANDSTONE: light grey.	XW	-	-	LOW 'TC' BIT RESISTANCE
									END OF BOREHOLE AT 3.0m				
						4							
						5							
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

5

1/1

Environmental logs are not to be used for geotechnical purposes

Weather: Sunny 25°

Client: NATION-WIDE INCORPORATED CO PTY LTD

Project: PROPOSED COMMERCIAL DEVELOPMENT

Location: 43-49 MOUNTAIN STREET, ULTIMO, NSW

Job No. E14286F

Method: SPIRAL AUGER
JK250

Start: 12.15pm

Date: 20-12-05

Finish: 12.55pm

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB	DS									
DRY ON COMPLETION						0			CONCRETE: 200mm.t				
					PID = 0			-	FILL: Silty sand, fine to medium grained, brown, with a trace of ceramics, brick fragments and sandstone gravel.	M	-	-	
					PID = 0				as above,				
						1		SC	but orange brown, with a trace of clay.	D	-	-	
					PID = 0				CLAYEY SAND: fine to medium grained, orange brown.				
					PID = 0								
					PID = 0	2		-	SANDSTONE: yellow brown, with light grey bands.	XW	-	-	LOW 'TC' BIT RESISTANCE
						3			END OF BOREHOLE AT 3.0m				
						4							
						5							
						6							
						7							

ENVIRONMENTAL LOG

Borehole No.

6

1/1

Environmental logs are not to be used for geotechnical purposes

Weather: Sunny 25°

Client: NATION-WIDE INCORPORATED CO PTY LTD

Project: PROPOSED COMMERCIAL DEVELOPMENT

Location: 43-49 MOUNTAIN STREET, ULTIMO, NSW

Job No. E14286F

Method: SPIRAL AUGER
JK250

Start: 1.00pm

Date: 20-12-05

Finish: 1.30pm

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	USO	DB	DS									
DRY ON COMPLETION						0			CONCRETE: 200mm.t				
					PID = 0			-	FILL: Silty sand, fine to medium grained, brown, with igneous gravel and a trace of sandstone gravel, brick fragments and clay.	M	-	-	
					PID = 0				as above, but with clay bands.				
						1			FILL: Silty sand, fine to medium grained, brown, with a trace of slag and brick fragments.				
					PID = 0								
					PID = 0								
						2		SC	CLAYEY SAND: fine to medium grained, orange brown, with red bands.	D	-	-	
								-	SANDSTONE: orange brown.	XW	-	-	LOW 'TC' BIT RESISTANCE
						3			END OF BOREHOLE AT 3.0m				
						4							
						5							
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

7

1/1

Environmental logs are not to be used for geotechnical purposes

Weather: Sunny 25°

Client: NATION-WIDE INCORPORATED CO PTY LTD

Project: PROPOSED COMMERCIAL DEVELOPMENT

Location: 43-49 MOUNTAIN STREET, ULTIMO, NSW

Job No. E14286F

Method: SPIRAL AUGER
JK250

Start: 1.45pm

Date: 20-12-05

Finish: 2.30pm

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB	DS									
DRY ON COMPLETION						0			CONCRETE: 250mm.t				
					PID = 0			-	FILL: Silty sand, fine to medium grained, brown, with a trace of igneous and sandstone gravel, ash, slag and ceramics.	W	-	-	NO SPT DUE TO HEIGHT RESTRICTIONS
					PID = 0				FILL: Gravelly sand, fine to medium grained, red brown, with 20mm sub angular sandstone gravel.	MC < PL			
					PID = 0				FILL: Silty clay, medium plasticity, brown, with a trace of igneous and ironstone gravel, sand, and slag.	D	-	-	
					PID = 0		SM		SILTY SAND: fine to medium grained, light brown, with a trace of sandstone gravel.				POSSIBLY FILL
					PID = 0	2			SANDSTONE: red brown.	XW	-	-	VERY LOW 'TC' BIT RESISTANCE WITH LOW BANDS
						3			END OF BOREHOLE AT 3.0m				
						4							
						5							
						6							
						7							



REPORT EXPLANATION NOTES

INTRODUCTION

These notes have been provided to amplify the geotechnical report in regard to classification methods, field procedures and certain matters relating to the Comments and Recommendations section. Not all notes are necessarily relevant to all reports.

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

DESCRIPTION AND CLASSIFICATION METHODS

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

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

Soil Classification	Particle Size
Clay	less than 0.002mm
Silt	0.002 to 0.06mm
Sand	0.06 to 2mm
Gravel	2 to 60mm

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

Relative Density	SPT 'N' Value (blows/300mm)
Very loose	less than 4
Loose	4 – 10
Medium dense	10 – 30
Dense	30 – 50
Very Dense	greater than 50

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

Classification	Unconfined Compressive Strength kPa
Very Soft	less than 25
Soft	25 – 50
Firm	50 – 100
Stiff	100 – 200
Very Stiff	200 – 400
Hard	Greater than 400
Friable	Strength not attainable – soil crumbles

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc. Where relevant, further information regarding rock classification is given in the text of the report. In the Sydney Basin, "Shale" is used to describe thinly bedded to laminated siltstone.

SAMPLING

Sampling is carried out during drilling or from other excavations to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on plasticity, grain size, colour, moisture content, minor constituents and, depending upon the degree of disturbance, some information on strength and structure. Bulk samples are similar but of greater volume required for some test procedures.

Undisturbed samples are taken by pushing a thin-walled sample tube, usually 50mm diameter (known as a U50), into the soil and withdrawing it with a sample of the soil contained in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Details of the type and method of sampling used are given on the attached logs.

INVESTIGATION METHODS

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



Test Pits: These are normally excavated with a backhoe or a tracked excavator, allowing close examination of the insitu soils if it is safe to descend into the pit. The depth of penetration is limited to about 3m for a backhoe and up to 6m for an excavator. Limitations of test pits are the problems associated with disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact the backfill during construction or to design and construct the structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

Hand Auger Drilling: A borehole of 50mm to 100mm diameter is advanced by manually operated equipment. Premature refusal of the hand augers can occur on a variety of materials such as hard clay, gravel or ironstone, and does not necessarily indicate rock level.

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

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

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

Continuous Core Drilling: A continuous core sample is obtained using a diamond tipped core barrel. Provided full core recovery is achieved (which is not always possible in very low strength rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation. In rocks, an NMLC triple tube core barrel, which gives a core of about 50mm diameter, is usually used with water flush. The length of core recovered is compared to the length drilled and any length not recovered is shown as CORE LOSS. The location of losses are determined on site by the supervising engineer; where the location is uncertain, the loss is placed at the top end of the drill run.

Standard Penetration Tests: Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils as a means of indicating density or strength and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, "Methods of Testing Soils for Engineering Purposes" – Test F3.1.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63kg hammer with a free fall of 760mm. It is normal for the tube to be driven in three successive 150mm increments and the 'N' value is taken as the number of blows for the last 300mm. In dense sands, very hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

- In the case where full penetration is obtained with successive blow counts for each 150mm of, say, 4, 6 and 7 blows, as
$$N = 13$$
$$4, 6, 7$$
- In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as
$$N > 30$$
$$15, 30/40\text{mm}$$

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

Occasionally, the drop hammer is used to drive 50mm diameter thin walled sample tubes (U50) in clays. In such circumstances, the test results are shown on the borehole logs in brackets.

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

Static Cone Penetrometer Testing and Interpretation:

Cone penetrometer testing (sometimes referred to as a Dutch Cone) described in this report has been carried out using an Electronic Friction Cone Penetrometer (EFCP). The test is described in Australian Standard 1289, Test F5.1.

In the tests, a 35mm diameter rod with a conical tip is pushed continuously into the soil, the reaction being provided by a specially designed truck or rig which is fitted with an hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the frictional resistance on a separate 134mm long sleeve, immediately behind the cone. Transducers in the tip of the assembly are electrically connected by wires passing through the centre of the push rods to an amplifier and recorder unit mounted on the control truck.

As penetration occurs (at a rate of approximately 20mm per second) the information is output as incremental digital records every 10mm. The results given in this report have been plotted from the digital data.

The information provided on the charts comprise:

- Cone resistance – the actual end bearing force divided by the cross sectional area of the cone – expressed in MPa.
- Sleeve friction – the frictional force on the sleeve divided by the surface area – expressed in kPa.
- Friction ratio – the ratio of sleeve friction to cone resistance, expressed as a percentage.

The ratios of the sleeve resistance to cone resistance will vary with the type of soil encountered, with higher relative friction in clays than in sands. Friction ratios of 1% to 2% are commonly encountered in sands and occasionally very soft clays, rising to 4% to 10% in stiff clays and peats. Soil descriptions based on cone resistance and friction ratios are only inferred and must not be considered as exact.

Correlations between EFCP and SPT values can be developed for both sands and clays but may be site specific.

Interpretation of EFCP values can be made to empirically derive modulus or compressibility values to allow calculation of foundation settlements.

Stratification can be inferred from the cone and friction traces and from experience and information from nearby boreholes etc. Where shown, this information is presented for general guidance, but must be regarded as interpretive. The test method provides a continuous profile of engineering properties but, where precise information on soil classification is required, direct drilling and sampling may be preferable.

Portable Dynamic Cone Penetrometers: Portable Dynamic Cone Penetrometer (DCP) tests are carried out by driving a rod into the ground with a sliding hammer and counting the blows for successive 100mm increments of penetration.

Two relatively similar tests are used:

- Cone penetrometer (commonly known as the Scala Penetrometer) – a 16mm rod with a 20mm diameter cone end is driven with a 9kg hammer dropping 510mm (AS1289, Test F3.2). The test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various Road Authorities.
- Perth sand penetrometer – a 16mm diameter flat ended rod is driven with a 9kg hammer, dropping 600mm (AS1289, Test F3.3). This test was developed for testing the density of sands (originating in Perth) and is mainly used in granular soils and filling.

LOGS

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

The attached explanatory notes define the terms and symbols used in preparation of the logs.

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

GROUNDWATER

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

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

More reliable measurements can be made by installing standpipes which are read after stabilising at intervals ranging from several days to perhaps weeks



for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from perched water tables or surface water.

FILL

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

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

LABORATORY TESTING

Laboratory testing is normally carried out in accordance with Australian Standard 1289 "Methods of Testing Soil for Engineering Purposes". Details of the test procedure used are given on the individual report forms.

ENGINEERING REPORTS

Engineering reports are prepared by qualified personnel and are based on the information obtained and on current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal (eg a three storey building) the information and interpretation may not be relevant if the design proposal is changed (eg to a twenty storey building). If this happens, the company will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical aspects and recommendations or suggestions for design and construction. However, the Company cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions – the potential for this will be partially dependent on borehole spacing and sampling frequency as well as investigation technique.
- Changes in policy or interpretation of policy by statutory authorities.
- The actions of persons or contractors responding to commercial pressures.

If these occur, the company will be pleased to assist with investigation or advice to resolve any problems occurring.

SITE ANOMALIES

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, the company requests that it immediately be notified. Most problems are much more readily resolved when conditions are exposed that at some later stage, well after the event.

REPRODUCTION OF INFORMATION FOR CONTRACTUAL PURPOSES

Attention is drawn to the document "Guidelines for the Provision of Geotechnical Information in Tender Documents", published by the Institution of Engineers, Australia. Where information obtained from this investigation is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. The company would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Copyright in all documents (such as drawings, borehole or test pit logs, reports and specifications) provided by the Company shall remain the property of Jeffery and Katauskas Pty Ltd. Subject to the payment of all fees due, the Client alone shall have a licence to use the documents provided for the sole purpose of completing the project to which they relate. License to use the documents may be revoked without notice if the Client is in breach of any objection to make a payment to us.

REVIEW OF DESIGN

Where major civil or structural developments are proposed or where only a limited investigation has been completed or where the geotechnical conditions/constraints are quite complex, it is prudent to have a joint design review which involves a senior geotechnical engineer.

SITE INSPECTION

The company will always be pleased to provide engineering inspection services for geotechnical aspects of work to which this report is related.

Requirements could range from:

- i) a site visit to confirm that conditions exposed are no worse than those interpreted, to
- ii) a visit to assist the contractor or other site personnel in identifying various soil/rock types such as appropriate footing or pier founding depths, or
- iii) full time engineering presence on site.

GRAPHIC LOG SYMBOLS FOR SOILS AND ROCKS

SOIL



FILL



TOPSOIL



CLAY (CL, CH)



SILT (ML, MH)



SAND (SP, SW)



GRAVEL (GP, GW)



SANDY CLAY (CL, CH)



SILTY CLAY (CL, CH)



CLAYEY SAND (SC)



SILTY SAND (SM)



GRAVELLY CLAY (CL, CH)



CLAYEY GRAVEL (GC)



SANDY SILT (ML)



PEAT AND ORGANIC SOILS

ROCK



CONGLOMERATE



SANDSTONE



SHALE



SILTSTONE, MUDSTONE,
CLAYSTONE



LIMESTONE



PHYLLITE, SCHIST



TUFF



GRANITE, GABBRO



DOLERITE, DIORITE



BASALT, ANDESITE



QUARTZITE

DEFECTS AND INCLUSIONS



CLAY SEAM



SHEARED OR CRUSHED
SEAM



BRECCIATED OR
SHATTERED SEAM/ZONE



IRONSTONE GRAVEL



ORGANIC MATERIAL

OTHER MATERIALS



CONCRETE



BITUMINOUS CONCRETE,
COAL



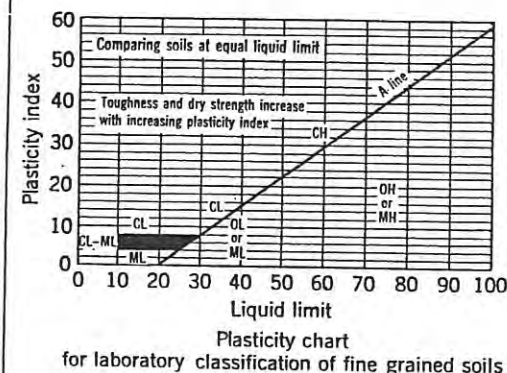
COLLUVIUM



UNIFIED SOIL CLASSIFICATION TABLE

649

Field Identification Procedures (Excluding particles larger than 75 μm and basing fractions on estimated weights)					Group Symbols	Typical Names	Information Required for Describing Soils	Laboratory Classification Criteria					
Coarse-grained soils More than half of material is larger than 75 μm sieve size (The 75 μm sieve size is about the smallest particle visible to naked eye)	Gravels More than half of coarse fraction is larger than 4 mm sieve size	Clean gravels (little or no fines)	Wide range in grain size and substantial amounts of all intermediate particle sizes		GW	Well graded gravels, gravel-sand mixtures, little or no fines	Give typical name; indicate approximate percentages of sand and gravel; maximum size; angularity, surface condition, and hardness of the coarse grains; local or geologic name and other pertinent descriptive information; and symbols in parentheses For undisturbed soils add information on stratification, degree of compactness, cementation, moisture conditions and drainage characteristics Example: <i>Silty sand, gravelly</i> ; about 20% hard, angular gravel particles 12 mm maximum size; rounded and subangular sand grains coarse to fine, about 15% non-plastic fines with low dry strength; well compacted and moist in place; alluvial sand; (SM)	$C_U = \frac{D_{60}}{D_{10}}$ Greater than 4 $C_C = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting all gradation requirements for GW Atterberg limits below "A" line, or <i>PI</i> less than 4 Above "A" line with <i>PI</i> between 4 and 7 are borderline cases requiring use of dual symbols Atterberg limits above "A" line, with <i>PI</i> greater than 7					
			Predominantly one size or a range of sizes with some intermediate sizes missing		GP	Poorly graded gravels, gravel-sand mixtures, little or no fines							
		Gravels with fines (appreciable amount of fines)	Nonplastic fines (for identification procedures see <i>ML</i> below)		GM	Silty gravels, poorly graded gravel-sand-silt mixtures			Determine percentages of gravel and sand from grain size curve Depending on percentage of fines (fraction smaller than 75 μm sieve size) coarse grained soils are classified as follows: Less than 5% GW, GP, SW, SP More than 5% to 12% GM, GC, SM, SC Borderline cases requiring use of dual symbols				
			Plastic fines (for identification procedures, see <i>CL</i> below)		GC	Clayey gravels, poorly graded gravel-sand-clay mixtures							
	Sands More than half of coarse fraction is smaller than 4 mm sieve size	Clean sands (little or no fines)	Wide range in grain sizes and substantial amounts of all intermediate particle sizes		SW	Well graded sands, gravelly sands, little or no fines				$C_U = \frac{D_{60}}{D_{10}}$ Greater than 6 $C_C = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting all gradation requirements for SP Atterberg limits below "A" line or <i>PI</i> less than 5 Above "A" line with <i>PI</i> between 4 and 7 are borderline cases requiring use of dual symbols Atterberg limits below "A" line with <i>PI</i> greater than 7			
			Predominantly one size or a range of sizes with some intermediate sizes missing		SP	Poorly graded sands, gravelly sands, little or no fines							
		Sands with fines (appreciable amount of fines)	Nonplastic fines (for identification procedures, see <i>ML</i> below)		SM	Silty sands, poorly graded sand-silt mixtures							
			Plastic fines (for identification procedures, see <i>CL</i> below)		SC	Clayey sands, poorly graded sand-clay mixtures							
			Identification Procedures on Fraction Smaller than 380 μm Sieve Size								Give typical name; indicate degree and character of plasticity, amount and maximum size of coarse grains; colour in wet condition, odour if any, local or geologic name, and other pertinent descriptive information, and symbol in parentheses For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoulded states, moisture and drainage conditions Example: <i>Clayey silt, brown</i> ; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (ML)	Use grain size curve in identifying the fractions as given under field identification	
			Sils and clays liquid limit less than 50	Dry Strength (crushing characteristics)	Dilatancy (reaction to shaking)	Toughness (consistency near plastic limit)							
None to slight	Quick to slow	None		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity								
Medium to high	None to very slow	Medium		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays								
Slight to medium	Slow	Slight		OL	Organic silts and organic silts-clays of low plasticity								
Slight to medium	Slow to none	Slight to medium		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts								
High to very high	None	High		CH	Inorganic clays of high plasticity, fat clays								
Sils and clays liquid limit greater than 50	Medium to high	None to very slow	Slight to medium	OH	Organic clays of medium to high plasticity								
	Readily identified by colour, odour, spongy feel and frequently by fibrous texture			PI	Peat and other highly organic soils								
Highly Organic Soils													



NOTE: 1) Soils possessing characteristics of two groups are designated by combinations of group symbols (e.g. GW-GC, well graded gravel-sand mixture with clay fines).

2) Soils with liquid limits of the order of 35 to 50 may be visually classified as being of medium plasticity.



LOG SYMBOLS

LOG COLUMN	SYMBOL	DEFINITION
Groundwater Record		Standing water level. Time delay following completion of drilling may be shown.
		Extent of borehole collapse shortly after drilling.
		Groundwater seepage into borehole or excavation noted during drilling or excavation.
Samples	ES	Soil sample taken over depth indicated, for environmental analysis.
	U50	Undisturbed 50mm diameter tube sample taken over depth indicated.
	DB	Bulk disturbed sample taken over depth indicated.
	DS	Small disturbed bag sample taken over depth indicated.
Field Tests	N = 17 4, 7, 10	Standard Penetration Test (SPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration. 'R' as noted below.
	N _c = 5 7 3R	Solid Cone Penetration Test (SCPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration for 60 degree solid cone driven by SPT hammer. 'R' refers to apparent hammer refusal within the corresponding 150mm depth increment.
	VNS = 25	Vane shear reading in kPa of Undrained Shear Strength.
	PID = 100	Photoionisation detector reading in ppm (Soil sample headspace test).
Moisture Condition (Cohesive Soils)	MC > PL MC ≈ PL MC < PL	Moisture content estimated to be greater than plastic limit. Moisture content estimated to be approximately equal to plastic limit. Moisture content estimated to be less than plastic limit.
(Cohesionless Soils)	D M W	DRY - runs freely through fingers. MOIST - does not run freely but no free water visible on soil surface. WET - free water visible on soil surface.
Strength (Consistency) Cohesive Soils	VS	VERY SOFT - Unconfined compressive strength less than 25kPa
	S	SOFT - Unconfined compressive strength 25-50kPa
	F	FIRM - Unconfined compressive strength 50-100kPa
	St	STIFF - Unconfined compressive strength 100-200kPa
	VSt	VERY STIFF - Unconfined compressive strength 200-400kPa
	H	HARD - Unconfined compressive strength greater than 400kPa
	()	Bracketed symbol indicates estimated consistency based on tactile examination or other tests.
Density Index/ Relative Density (Cohesionless Soils)	VL	Density Index (I _b) Range (%) SPT 'N' Value Range (Blows/300mm) Very Loose < 15 0-4
	L	Loose 15-35 4-10
	MD	Medium Dense 35-65 10-30
	D	Dense 65-85 30-50
	VD	Very Dense > 85 > 50
	()	Bracketed symbol indicates estimated density based on ease of drilling or other tests.
Hand Penetrometer Readings	300 250	Numbers indicate individual test results in kPa on representative undisturbed material unless noted otherwise.
Remarks	'V' bit	Hardened steel 'V' shaped bit.
	'TC' bit	Tungsten carbide wing bit.
	T ₆₀	Penetration of auger string in mm under static load of rig applied by drill head hydraulics without rotation of augers.



LOG SYMBOLS

ROCK MATERIAL WEATHERING CLASSIFICATION

TERM	SYMBOL	DEFINITION
Residual Soil	RS	Soil developed on extremely weathered rock; the mass structure and substance fabric are no longer evident; there is a large change in volume but the soil has not been significantly transported.
Extremely weathered rock	XW	Rock is weathered to such an extent that it has "soil" properties, ie it either disintegrates or can be remoulded, in water.
Distinctly weathered rock	DW	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by ironstaining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores.
Slightly weathered rock	SW	Rock is slightly discoloured but shows little or no change of strength from fresh rock.
Fresh rock	FR	Rock shows no sign of decomposition or staining.

ROCK STRENGTH

Rock strength is defined by the Point Load Strength Index (Is 50) and refers to the strength of the rock substance in the direction normal to the bedding. The test procedure is described by the International Journal of Rock Mechanics, Mining, Science and Geomechanics. Abstract Volume 22, No 2, 1985.

TERM	SYMBOL	Is (50) MPa	FIELD GUIDE
Extremely Low:	EL	0.03	Easily remoulded by hand to a material with soil properties.
Very Low:	VL	0.1	May be crumbled in the hand. Sandstone is "sugary" and friable.
Low:	L	0.3	A piece of core 150mm long x 50mm dia may be broken by hand and easily scored with a knife. Sharp edges of core may be friable and break during handling.
Medium Strength:	M	1	A piece of core 150mm long x 50mm dia can be broken by hand with difficulty. Readily scored with knife.
High:	H	3	A piece of core 150mm long x 50mm dia core cannot be broken by hand, can be slightly scratched or scored with knife; rock rings under hammer.
Very High:	VH	10	A piece of core 150mm long x 50mm dia may be broken with hand-held pick after more than one blow. Cannot be scratched with pen knife; rock rings under hammer.
Extremely High:	EH		A piece of core 150mm long x 50mm dia is very difficult to break with hand-held hammer. Rings when struck with a hammer.

ABBREVIATIONS USED IN DEFECT DESCRIPTION

ABBREVIATION	DESCRIPTION	NOTES
Be	Bedding Plane Parting	Defect orientations measured relative to the normal to the long core axis (ie relative to horizontal for vertical holes)
CS	Clay Seam	
J	Joint	
P	Planar	
Un	Undulating	
S	Smooth	
R	Rough	
IS	Ironstained	
XWS	Extremely Weathered Seam	
Cr	Crushed Seam	
60t	Thickness of defect in millimetres	

Appendix E

SafeWork

Nerilee Edwards

From: Licensing <licensing@safework.nsw.gov.au>
Sent: Friday, 10 January 2025 1:50 PM
To: Zihan Wang
Subject: SafeWork NSW: 01044763 –Site Search application – Result not found [thread::oZIDVpTUe661GISzhyAejXw::]



This message needs your attention

- No employee in your company has ever replied to this person.
- The subject has non-English characters.

Security Classification: Sensitive Personal
Please do not amend the subject line of this email

Dear Zihan

Re: Site Search for Schedule 11 Hazardous Chemicals on premises Application – Result not found

I refer to your application for a Site Search for Schedule 11 Hazardous Chemicals on premises, received by SafeWork NSW for the following site: 41-49 Mountain Street Ultimo NSW 2007.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

If you have any questions, please contact SafeWork NSW using one of the following options, quoting the SafeWork NSW enquiry reference number 01044763:

- Email: licensing@safework.nsw.gov.au
- Phone: 13 10 50

Kind regards

Mo Lotonuu
Licensing Representative
SafeWork NSW | SafeWork Licensing
p- 13 10 50
e- licensing@safework.nsw.gov.au | safework.nsw.gov.au
Level 3, 32 Mann Street, Gosford, NSW 2250



SafeWork

[Tax Invoice Receipt - copy for customer.pdf](#)

thread::oZIDVpTUe661GISzhyAejXw::

Appendix F

Site Photographs



Photo 1: Inside the former electrical substation - person



Photo 2: Demountable being used as site office - located in the north east portion of the site



Site Photographs

Proposed Mixed Use Development

**41-49 Mountain Street,
Ultimo NSW**

PROJECT:

231957.01

PLATE No:

1

REV:

0

CLIENT

Evolution MIT Services Pty Ltd as trustee for
Apt Hold Trust 2



Photo 3: Batteries and fuel container stored at ground surface behind demountable in east of the site



Photo 4: Gas cylinders located in the north-east part of the site



Site Photographs

Proposed Mixed Use Development

41-49 Mountain Street,
Ultimo NSW

PROJECT: 231957.01

PLATE No: 2

REV: 0

CLIENT

Evolution MIT Services Pty Ltd as trustee for
Apt Hold Trust 2



Photo 5: Drainage pit in north east of the site



Photo 6: Electrical kiosk with high voltage on an elevated concrete slab located in the north-west corner of the site



Site Photographs

Proposed Mixed Use Development

**41-49 Mountain Street,
Ultimo NSW**

CLIENT

Evolution MIT Services Pty Ltd as trustee for
Apt Hold Trust 2

PROJECT:

231957.01

PLATE No:

3

REV:

0



Photo 7: Metal containers located in the north-west portion of the site



Photo 8: Canopy structure being used as car space and storage area



Site Photographs

Proposed Mixed Use Development

41-49 Mountain Street,
Ultimo NSW

CLIENT

Evolution MIT Services Pty Ltd as trustee for
Apt Hold Trust 2

PROJECT:

231957.01

PLATE No:

4

REV:

0



Photo 9: Maintenance area for storage of tools and equipment, chemical containers



Photo 10: Chemical cleaning products, spray paints, fertiliser, cement additive, pesticide, oil containers store in maintenance area



Site Photographs

Proposed Mixed Use Development

41-49 Mountain Street,
Ultimo NSW

CLIENT

Evolution MIT Services Pty Ltd as trustee for
Apt Hold Trust 2

PROJECT:

231957.01

PLATE No:

5

REV:

0



Photo 11: Flammable liquid depot in covered maintenance area in south west of the site

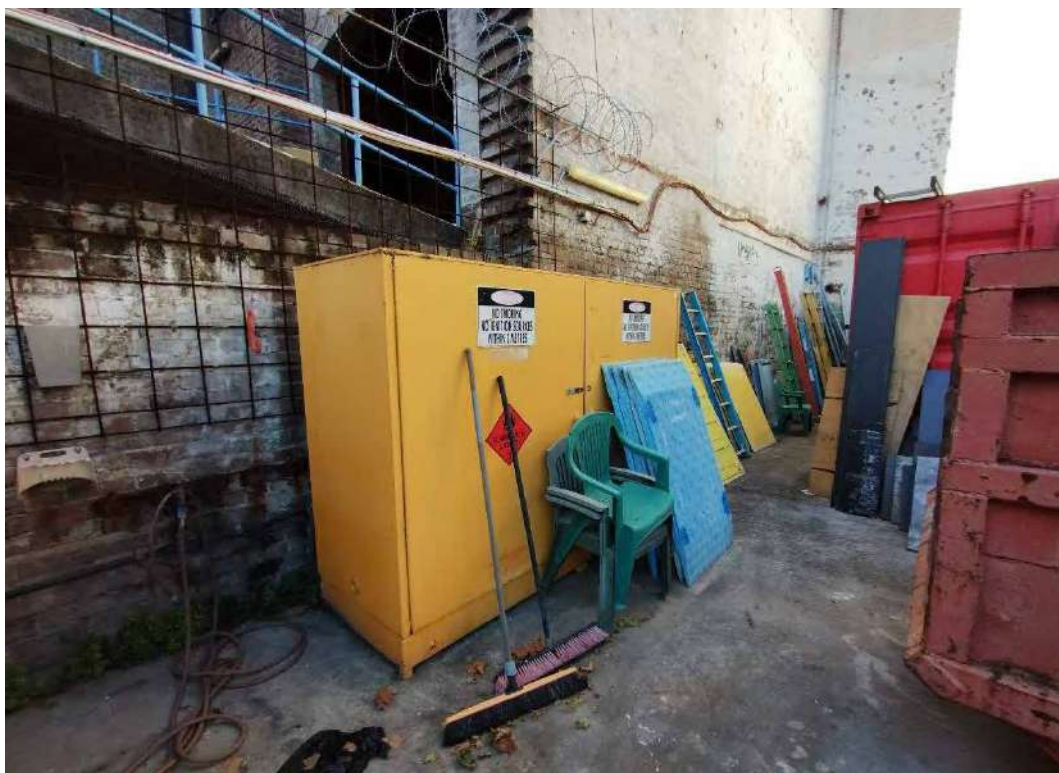


Photo 12: Flammable liquid depot located adjacent to southern boundary in south-west of the site



Site Photographs

Proposed Mixed Use Development

41-49 Mountain Street,
Ultimo NSW

CLIENT

Evolution MIT Services Pty Ltd as trustee for
Apt Hold Trust 2

PROJECT:

231957.01

PLATE No:

6

REV:

0



Photo 13: Wash down area with containers and asphalt storage shed in background



Photo 14: Inside asphalt storage shed in south-west of site



Site Photographs

Proposed Mixed Use Development

41-49 Mountain Street,
Ultimo NSW

PROJECT:

231957.01

PLATE No:

7

REV:

0

CLIENT

Evolution MIT Services Pty Ltd as trustee for
Apt Hold Trust 2

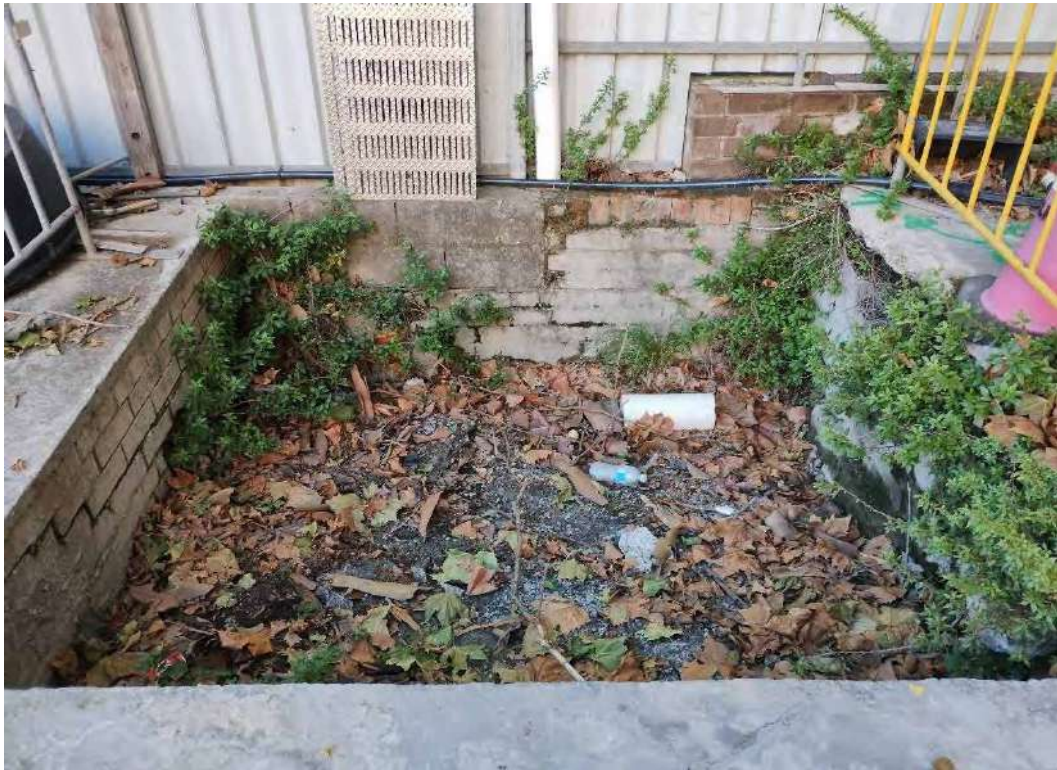


Photo 15: Pit located in the south- east corner of the site understood to be used to collect wash down water pending off-site disposal



Photo 16: Concrete surface across the site - Looking south-west



Site Photographs

Proposed Mixed Use Development

**41-49 Mountain Street,
Ultimo NSW**

PROJECT: 231957.01

PLATE No: 8

REV: 0

CLIENT

Evolution MIT Services Pty Ltd as trustee for
Apt Hold Trust 2

Appendix G

Data Quality Objectives

1. Data quality objectives

The contamination investigation has been devised broadly in accordance with the seven-step data quality objectives (DQO) process which is provided in Appendix B, Schedule B2 of NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)* [NEPM] (NEPC, 2013).

Table 1: Data quality objectives

Step	Summary
1: State the problem	The objective of this investigation is to assess the suitability of the site from a contamination perspective for the proposed development and whether further investigation and/or management is required. The report is being undertaken as the site is proposed to be redeveloped for mixed-use commercial / residential land use with one level basement. A preliminary conceptual site model (CSM) has been prepared (Section 9) for the proposed development. The project team consisted of experienced environmental engineers and scientists working in the roles of Project Principal, Project Reviewer, Project Manager and field staff.
2: Identify the decisions / goal of the study	The site history has identified possible contaminating previous uses which are identified in the CSM (Section 9). The CSM identifies the associated contaminants of potential concern (CoPC) and the likely impacted media. The site assessment criteria (SAC) for each of the CoPC are detailed in Appendix I. The decision is to establish whether or not the results fall below the SAC or whether or not the 95% upper confidence limit of the sample population falls below the SAC. On this basis, an assessment of the site's suitability from a contamination perspective will be derived and a decision made on whether (or not) further assessment and/or remediation will be required.
3: Identify the information inputs	Inputs will be the field results and analytical results for the CoPC and media (identified in the CSM, Section 9) from NATA accredited laboratories and methods, where possible. The SAC for each of the CoPC are detailed in Appendix I. Field results and observations such as photoionisation detector (PID) and observations of building debris, ash, odours, etc will be used to inform sample selection for laboratory analysis.
4: Define the study boundaries	The lateral boundaries of the investigation area are shown on Drawing 1, Appendix A. The vertical boundaries are to the extent of contamination impact as determined from the site history assessment and site observations. The assessment is limited to the timeframe over which the field works were undertaken. Constraints to the assessment are identified and discussed in the conclusions of the report, Section 14.

Step	Summary
5: Develop the analytical approach (or decision rule)	The decision rule is to compare all analytical results with the SAC (Appendix I, based on NEPC (2013)). Where guideline values are absent, other sources of guideline values accepted by NEPC (2013) shall be adopted where available and warranted. Where a sample result exceeds the adopted criterion, a further site-specific assessment will be made as to the risk posed by the presence of that contaminant(s). Initial comparisons will be with individual results then, where required and appropriate, summary statistics (including mean, standard deviation and 95% upper confidence limit (UCL) of the arithmetic mean (95% UCL)) to assess potential risks posed by the site contamination. Quality control results are to be assessed according to their relative percent difference (RPD) values. For field duplicates, triplicates and laboratory results, RPD values should generally be below 30%; for field blanks and rinsates, results should be at or less than the limits of reporting (NEPC, 2013). The field and laboratory quality assurance assessment is included in Appendix N.
6: Specify the performance or acceptance criteria	Baseline condition: Contaminants at the site exceed the human health and environmental SAC and pose a potentially unacceptable risk to receptors (null hypothesis). Alternative condition: Contaminants at the site comply with the human health and environmental SAC and therefore, do not pose a potentially unacceptable risk to receptors (alternative hypothesis). Unless conclusive information from the collected data is sufficient to reject the null hypothesis, it is assumed that the baseline condition is true.
7: Optimise the design for obtaining data	As the purpose of the investigation is to assess the contamination status of the site, the sampling program is reliant on professional judgement to identify and sample the potentially affected areas. Further details regarding the proposed sampling plan are presented in Section 10.2.

2. References

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.

Appendix H

Field Work Methodology

1. Guidelines

The following key guidelines were consulted for the field work methodology:

- NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013).
- HEPA *PFAS National Environmental Management Plan 3.0 (NEMP)* (HEPA, 2025).
- ASTM *Standard Practice for Active Soil Gas Sampling in the Vadose Zone for Vapour Intrusion Evaluations* (ASTM D7663-12, 2018).
- USEPA *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air* (USEPA, 1999a).
- USEPA *Compendium Method TO-15 Determination of Volatile Organic Compounds (VOCs) In Air Collected in Specially-Prepared Canisters and Analysed By Gas Chromatography Mass Spectrometry (GC/MS)* (USEPA, 1999b).
- NSW EPA *Assessment and Management of Hazardous Ground Gases* (NSW EPA, 2020).

2. Soil sampling

2.1 Drilling

Soil sampling was carried out in accordance with Douglas' standard operating procedures. Non-destructive digging (NDD) using a wet vacuum truck was used to drill through the boreholes, followed by the use of hand auger for direct sample collection. The general sampling and sample management procedures comprised:

- Collect soil samples directly from the borehole or auger at the nominated sample depth;
- Transfer samples in laboratory-prepared glass jars with Teflon lined lids by hand, capping immediately and minimising headspace within the sample jar;
- Transfer samples in laboratory-prepared container (specific for PFAS) by hand, capping immediately and minimising headspace within the sample jar;
- Collect replicate samples in zip-lock bags for photoionisation detector (PID) screening;
- Collect ~500 ml samples for fibrous asbestos and asbestos fines (FA / AF) analysis;
- Collect ~40 g to 50 g samples in zip-lock bags for asbestos (presence / absence) analysis (where insufficient sample for FA / AF analysis);
- Wear a new disposable nitrile glove for each sample point thereby minimising potential for cross-contamination;
- Collect 10% replicate samples for quality control (QC) purposes;
- Label sample containers with individual and unique identification details, including project number, sample location and sample depth (where applicable);
- Place samples into a cooled, insulated and sealed container for transport to the laboratory; and
- Use chain of custody documentation.

Reference was made to HEPA (2025) for requirements specific to PFAS.

2.2 Field testing

Field testing is carried out in accordance with Douglas' standard operating procedures. The general sampling and sample management procedures comprise:

PID field test

- Calibrate the PID with isobutylene gas at 100 ppm and with fresh air prior to commencement of each successive day's field work;
- Allow the headspace in the PID zip-lock bag samples to equilibrate; and
- Screen using the PID.

3. Soil vapour sampling

3.1 Vapour well installation

Vapour well BH105A was constructed using inert Teflon tubing (nominally quarter inch / 6.4mm outside diameter) fitted with a stainless-steel implant positioned (suspended) near the base of the borehole. A gravel pack was then placed to cover the stainless-steel implant (total thickness of gravel pack approximately 20cm). The well was completed with a 40cm dry granular bentonite plug then hydrated bentonite plug to the surface. The top of the tubing was fitted with a gas-light sampling valve or cap. The vapour well was completed at the surface with a Gatic cover.

3.2 Soil vapour sampling

The soil vapour sampling is carried out in accordance with Douglas' standard operating procedures based on ASTM (2018) and current industry practice. The general sampling and sample management procedures comprise:

- Connect sample tubing directly to the vapour well outlet following removal of the stainless-steel cap and plastic cap; and
- Collect the primary soil vapour sample to a Summa canister and the backup sample on carbon tubes. Attach Summa canisters directly to the sample point via disposable tubing. Collect the back-up sample using an air sampling pump, with the flow rate monitored using a rotameter and vacuum gauge.
- Perform shut in tests (minimum 30 seconds) following assembly of the sampling apparatus comprising:
 - o Summa canister: Assemble the sample apparatus to the extent practical (i.e. connecting the Summa canister to the regulator), then open the canister valve to apply the vacuum (of between -29 mm Hg to -30 mm Hg) to the sampling train, while the regulator is still capped;
 - o Carbon back-up tube: Assemble the sample train (fittings to attach to vapour well, carbon tube, vacuum gauge, rotameter and pump plus the associated tubing connecting the sample train) then clamp the sampling tube between the vapour port and carbon tube, activate the pump until a vacuum of 15 in Hg is achieved and then the sampling train is clamped at the pump;

- Purge the soil vapour well prior to sampling by removing one volume of air / vapour from the well (~500 ml);
- Introduce liquid isopropyl alcohol (IPA) into the sampling shroud to act as a tracer gas for leaks in the soil vapour well and/or the sampling train. All samples are analysed for IPA as part of the TO15 analysis;
- Take PID readings from the soil vapour well prior to and following application of the IPA tracer gas. Take a PID reading inside the shroud to provide a field indication of potential leaks;
- Measure general gas parameters from the soil vapour well, including methane, oxygen and carbon dioxide, on-site using a calibrated landfill gas analyser;
- Collect primary sample directly from the soil vapour port into 1 L Summa canisters with a flow regulator set by the analytical laboratory (approximately 100 ml/min). The regulator was supplied by the analytical laboratory and decontaminated by the laboratory prior to shipment;
- Collect an intra-laboratory QC duplicate soil vapour sample;
- Collect back-up sample directly onto carbon tubes using an SKC constant flow air-sampling pump, low flow adapter and rotameter to confirm the flow rate;
- Collect a shroud sample on a carbon tube to conduct analysis for IPA and determine the concentration of the tracer compound in the shroud;
- Collect the VOC sample from the sample point directly into the sorbent tube / canister so as not to pass through the pump, rotameter or tubing which has the potential to contaminate the samples (rotameter not required for canisters); and
- Label the sample canister and tubes and record on chain of custody documentation. Complete field sampling sheets and transport samples to the laboratory in an appropriate sealed container.

4. Ambient air sampling

The indoor air sampling was carried out in accordance with Douglas' standard operating procedures based on USEPA (1999a) and USEPA (1999b). The general sampling and sample management procedures comprise:

- Undertake a pre-sampling inspection to assess the most appropriate positions for the placement of canisters;
- Record temperature, barometric pressure and weather conditions at the start and end of the sampling period;
- At the commencement of the sampling period, open the sample canister valve to begin sample collection. Record the time and initial vacuum when the sample collection started on a standard sampling form;
- Close the sample canister valve after the appropriate collection period (1 hour). Record the time the sample collection is stopped and the final vacuum on the sampling form;
- Label the sample canister and record on the chain of custody the sample name, date and time the sample was collected, the canister and flow controller serial numbers, and the initial and final vacuum gauge readings; and

- Transport sample to the laboratory in an appropriate sealed container.

5. Groundwater sampling

5.1 Monitoring well installation

Monitoring wells BH101 to BH103 were constructed using class 18 uPVC machine slotted screen and blank sections with screw threaded joints. The screened section of each well was backfilled with a washed sand filter pack to approximately 0.5 m above the screened interval.

Each well was completed with a hydrated bentonite plug of at least 0.5 m thick and then cement grout to the surface. Each well was completed at the surface with a Gatic cover.

Well construction is detailed in the corresponding borehole logs in Appendix I.

5.2 Monitoring well development

Groundwater monitoring wells were developed as soon as practicable following well installation. The purpose of well development is to remove sediments and / or drilling fluid introduced to the well during drilling and to facilitate connection of the monitoring well to the aquifer. The wells were developed by pumping to remove a minimum of five well volumes, or until dry.

5.3 Groundwater sampling

Groundwater sampling is carried out in accordance with Douglas' standard operating procedures. Groundwater samples are collected using a positive displacement low flow bladder pump via the micro-purge (minimal drawdown) method. The method minimises aeration of the sample and disturbance to the water column thereby enhancing the quality of results for oxygen sensitive analytes. The sampling method is described as follows:

- Measure the static water level using an electronic interface probe and record the thickness of LNAPL (if encountered);
- Decontaminate the interface probe and cable between monitoring wells by rinsing in a diluted Liquinox solution and then rinsing in demineralised water;
- Fit the pump with a well-dedicated bladder and tubing. Lower the pump into the well then clamp at a level estimated to be 1 m below the top of the water column (provided the depth of the pump is within the screened section) or to the approximate mid-point of the well screen;
- Set the pump at the lowest rate possible that could produce laminar flow to minimise drawdown of the water column;
- Measure physical parameters by continuously passing the purged water through a flow cell; and
- Following stabilisation of the field parameters, collect samples in laboratory-prepared bottles minimising headspace within the sample bottle and cap immediately.

Note: due to the limited water present in BH103 at the time of sampling, micropurging and collection of field parameters was not able to be undertaken.

Sample handling

The general groundwater sample handling and management procedures comprise:

- Collect 10% replicate samples for QC purposes;
- Label sample containers with individual and unique identification details, including project number and sample location;
- Place the sample jars into a cooled, insulated and sealed container for transport to the laboratory; and
- Use chain of custody documentation.

6. References

ASTM D7663-12. (2018). *Standard Practice for Active Soil Gas Sampling in the Vadose Zone for Vapour Intrusion Evaluations*. 2018 e1 (editorial change to 2012 revision): American Society for Testing and Materials.

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USEPA. (1999a). *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*. Second Edition: United States Environment Protection Agency.

USEPA. (1999b). *Compendium Method TO-15 Determination of Volatile Organic Compounds (VOCs) In Air Collected in Specially-Prepared Canisters and Analysed By Gas Chromatography Mass Spectrometry (GC/MS)*. United States Environment Protection Agency.

Appendix I

Site Assessment Criteria

1. Introduction

1.1 Guidelines

The following key guidelines were consulted for deriving the site assessment criteria (SAC):

- NEPC National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM] (NEPC, 2013).
- CRC CARE Health screening levels for petroleum hydrocarbons in soil and groundwater (CRC CARE, 2011).
- HEPA PFAS National Environmental Management Plan (NEMP) (HEPA, 2025).
- ANZG Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018).
- NHMRC Guidelines for Managing Risks In Recreational Water (NHMRC, 2008).
- NHMRC, NRMCC *Australian Drinking Water Guidelines 6 2011, Version 3.2* (NHMRC, NRMCC, 2022).
- ANZECC Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC, 2000).

1.2 General

The SAC applied in the current investigation are informed by the CSM which identified human and environmental receptors to potential contamination at the site. Analytical results are assessed (as a Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1 of NEPC (2013).

The proposed development comprises of a mixed-use residential / commercial development including basement level for parking and services; a ground level spaces (lobby, retail and service areas); and residential units on Level 1 and above. The proposal includes the adaptive reuse of a heritage-listed substation at the corner of Mountain Street for commercial uses; no basement will be constructed below the substation building.

The following inputs are relevant to the selection and/or derivation of the SAC:

- Land use: mixed-use residential / commercial development:
- Corresponding to land use category 'B', residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flat. Noting that there is no residential use proposed on the ground floor, and no ground level soft landscaping the use of HIL B is considered to be a conservative screen.
- Corresponding to land use category 'D', commercial / industrial such as shops, offices, factories and industrial sites, noting the presence of basement, applies to the selection of health screening levels (HSL) for vapour intrusion risk, as suggested in NEPC (2013) where basement levels are formed and/or these are commercial ground floor uses.
- Soil type: silty sand / silty clayey sand (mixed fill); sand being dominant.

2. Soils

2.1 Health investigation and screening levels

The generic health investigation levels (HIL) and health screening levels (HSL) are considered to be appropriate for the assessment of human health risk via all relevant pathways of exposure associated with contamination at the site. The adopted soil HIL and HSL for the contaminants of concern are in Table 1 and Table 2.

Table 1: Health investigation levels (mg/kg)

Contaminant	HIL-B
Metals	
Arsenic	500
Cadmium	150
Chromium (VI)	500
Copper	30 000
Lead	1200
Mercury (inorganic)	120
Nickel	1200
Zinc	60 000
PAH	
B(a)P TEQ	4
Total PAH	400
Phenols	
Phenol	45 000
Pentachlorophenol	130
OCP	
DDT+DDE+DDD	600
Aldrin and dieldrin	10
Chlordane	90
Endosulfan	400
Endrin	20
Heptachlor	10
HCB	15
Methoxychlor	500
Mirex	20

Contaminant	HIL-B
OPP	
Chlorpyrifos	340
PCB	
PCB	1

Table 2: Health screening levels (mg/kg)

Contaminant	HSL-D	HSL-D	HSL-D
SAND	0 m to <1 m	1 m to <2 m	2 m to <4 m
Benzene	3	3	3
Toluene	NL	NL	NL
Ethylbenzene	NL	NL	NL
Xylenes	230	NL	NL
Naphthalene	NL	NL	NL
TRH F1	260	370	630
TRH F2	NL	NL	NL

Notes: TRH F1 is TRH C₆-C₁₀ minus BTEX

TRH F2 is TRH >C₁₀-C₁₆ minus naphthalene

The soil saturation concentration (C_{sat}) is defined as the soil concentration at which the porewater phase cannot dissolve any more of an individual chemical. The soil vapour that is in equilibrium with the porewater will be at its maximum. If the derived soil HSL exceeds C_{sat}, a soil vapour source concentration for a petroleum mixture could not exceed a level that would result in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'

The HSL for direct contact derived from CRC CARE (2011) are in Table 3.

Table 3: Health screening levels for direct contact (mg/kg)

Contaminant	DC HSL-B	DC HSL-IMW
Benzene	140	1100
Toluene	21 000	120 000
Ethylbenzene	5900	85 000
Xylenes	17 000	130 000
Naphthalene	2200	29 000
TRH F1	5600	82 000
TRH F2	4200	62 000
TRH F3	5800	85 000
TRH F4	8100	120 000

Notes: TRH F1 is TRH C₆-C₁₀ minus BTEX

TRH F2 is TRH >C₁₀-C₁₆ minus naphthalene

IMW intrusive maintenance worker

2.2 Health investigation levels for per- and poly-fluoroalkyl substances in soil

The laboratory analytical results for per- and poly-fluoroalkyl substances (PFAS) in soil have been assessed against HIL published in HEPA (2020). The HIL represent a nationally-agreed suite that should be used to inform site investigations. The HIL are intentionally conservative, and an exceedance of these criteria may not constitute a risk if other exposure pathways are controlled. An exceedance of the HIL should trigger further investigations, such as a site-specific risk assessment. At the time of this investigation, screening values were available only for perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA) and perfluorohexane sulfonate (PFHxS).

The HIL derived from Table 2 of HEPA (2020) are in Table 4.

Table 4: Health investigation levels (mg/kg)

Contaminant	HIL-B
PFOS and PFHxS *	2
PFOA	20

Notes: * Includes PFOS only, PFHxS only and the sum of the two.

2.3 Asbestos in soil

The HSL for asbestos in soil are based on likely exposure levels for different scenarios published in NEPC (2013) for the following forms of asbestos:

- Bonded asbestos containing material (ACM); and
- Fibrous asbestos and asbestos fines (FA and AF).

The HSL are in Table 5.

Table 5: Health screening levels for asbestos

Form of asbestos	HSL-B
ACM	0.04%
FA / AF	0.001%
FA / AF and ACM	No visible asbestos for surface soil *

Notes: Surface soils defined as top 10 cm.

* Based on site observations at the sampling points and the analytical results of surface samples.

2.4 Ecological investigation levels (EIL), screening levels (ESL) and guideline values (EGV)

Schedule B5A of NEPC (2013) states that the aim of the EIL is that varying levels of protection will be provided to the following ecological receptors at all sites:

- Biota supporting ecological processes, including microorganisms and soil invertebrates;
- Native flora and fauna;
- Introduced flora and fauna; and
- Transitory or permanent wildlife.

Furthermore, Schedule B5A of NEPC (2013) states that commercial and industrial land, particularly in long-established industrial areas, is often heavily contaminated by past activities or fill materials used to level the area. In these cases, jurisdictions may determine that the HIL are the most appropriate soil quality criteria and that EIL are not applicable.

In determining the relevance of EIL and ESL the presence or absence of sensitive ecological receptors must be considered. In this regard both the potential ecological receptors on and off-site must be considered in conjunction with the current / proposed development.

The site is proposed to be developed into a mixed-use residential / commercial development. A single level basement and loading dock area is planned to occupy the entire site for the project. The site is therefore considered to have a low ecological value and the risk of exposure to soil contamination for transitory wildlife are considered very low, and that human health risk screening levels are more appropriate. Consequently, EIL, ESL and EGV are not considered relevant to the current assessment.

2.5 Management limits

In addition to appropriate consideration and application of the HSL, there are additional considerations which reflect the nature and properties of petroleum hydrocarbons, including:

- Formation of observable light non-aqueous phase liquids (LNAPL);
- Fire and explosion hazards; and
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services.

The adopted management limits are in Table 6.

Table 6: Management limits (mg/kg)

Contaminant	Soil type	ML-A-B-C
TRH F1	Coarse	700
TRH F2	Coarse	1000
TRH F3	Coarse	2500
TRH F4	Coarse	10 000

Notes: TRH F1 is TRH C₆-C₁₀ including BTEX
TRH F2 is TRH >C₁₀-C₁₆ including naphthalene
ML-A-B-C residential, parkland and public open space

3. Soil vapour

3.1 Interim soil vapour health investigation levels

Soil vapour interim HIL for specific chlorinated VOC were published by NEPC (2013) to assess the vapour intrusion exposure pathway.

The interim HIL for chlorinated VOC methodology employs a simple though conservative approach using an attenuation factor that relates the concentration of a volatile contaminant in indoor air to the concentration in soil gas immediately below a building foundation slab.

The interim health investigation levels (IHIL) derived from NEPC (2013) are in Table 7.

Table 7: Soil vapour interim health investigation levels, chlorinated hydrocarbons (µg/m³)

Chemical	IHIL-D
TCE	80
1,1,1-TCA	230 000
PCE	8000
cis-DCE	300
VC	100

Notes: TCE trichloroethene
1,1,1-TCA 1,1,1-trichloroethane
PCE tetrachloroethene
cis-DCE cis-1,2-dichloroethene
VC chloromethane / vinyl chloride

3.2 Health screening levels

Soil vapour HSL for petroleum hydrocarbons were published by NEPC (2013) to assess the vapour intrusion exposure pathway.

The HSL derived from NEPC (2013) are in Table 8.

Table 8: Soil vapour health screening levels for vapour intrusion (µg/m³)

Contaminant	HSL-D	HSL-D	HSL-D
SAND	0-1 m	1-2 m	2-4 m
Benzene	4000	10000	30 000
Toluene	4 800 000	16 000 000	39 000 000
Ethylbenzene	1 300 000	4 600 000	11 000 000
Xylene Total	840 000	3 200 000	8 000 000
Naphthalene	3000	15 000	35 000
TRH F1	680 000	2 800 000	7 000 000
TRH F2	500 000	2 400 000	NL

Notes: TRH F1 is TRH C₆-C₁₀ minus BTEX
TRH F2 is TRH >C₁₀-C₁₆ minus naphthalene
The maximum possible soil vapour concentrations have been calculated based on vapour pressures of the pure chemicals. Where soil vapour HSL exceed these values, a soil-specific source concentration for a petroleum mixture could not exceed a level that would result in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'

4. Groundwater

4.1 Introduction

The groundwater investigation levels (GIL) used for interpretation of the groundwater data (as a Tier 1 assessment) have been selected based on the potential risks posed from contamination sourced from the site to receptors at or down-gradient of the site, as identified by the conceptual site model (CSM). The receptors, exposure points and pathways are summarised in Table 9.

Table 9: Summary of potential receptors and potential risks

Receptor	Location	Exposure point	Exposure pathway
Surface water aquatic ecosystem	Down-gradient from site.	Receiving surface water body at the groundwater discharge point.	Exposure to contaminants.
Occupants of buildings	On site and down-gradient from site.	Enclosed buildings (existing demountable / offices).	Inhalation of VOC (including TRH and BTEX) overlying VOC impacted groundwater via the vapour intrusion pathway.
Human recreation (e.g. swimming)	Down-gradient from site.	Receiving surface water body at the groundwater discharge point.	Ingestion / dermal absorption of contaminants during recreational activities (e.g. swimming).

The rationale for the selection of GIL is in Table 10.

Table 10: Groundwater investigation level rationale

Receptor / beneficial use	GIL	Source	Comments / rationale
Aquatic ecosystem	DGV	ANZG (2018)	Marine water 99% LOP for bioaccumulative contaminants 95% LOP for non-bioaccumulative contaminants
Aquatic ecosystem	DGV	HEPA (2020)	Marine water 99% LOP Screening values were only available for PFOS and PFOA at the time of this investigation.
Building occupants (vapour intrusion)	HSL	NEPC (2013)	Groundwater depth of 2 m to <4 adopted based on current data.
Recreational waters	GV	NHMRC (2008)	Based on the NHMRC (2022) values x10 to account for ingestion of water whilst undertaking recreational activities.

Notes: DGV default guideline value
% LOP percentage level of protection of species
HSL health screening level
GV guideline value
LTV long term value (up to 100 years)
STV short term value (up to 20 years)

4.2 Groundwater investigation levels for aquatic ecosystems

The DGV for the protection of aquatic ecosystems derived from ANZG (2018) are in Table 11.

Table 11: Groundwater investigation levels for protection of aquatic ecosystems (µg/L)

Contaminant	Marine DGV 95% LOP	Notes
Metals / metalloids		
Arsenic	24 / 13	Levels provided for As III / As IV respectively as adopted from freshwater criteria in absence of marine criteria. Unknown reliability.
Cadmium	0.7	99% LOP adopted as recommended due to potential for bioaccumulation. Very high reliability.
Chromium (VI)	4.4	Chromium VI levels adopted as initial screen for total chromium. Very high reliability.
Copper	1.3	Very high reliability.
Lead	4.4	Low reliability.
Manganese	80	Unknown reliability and LOP.
Mercury (inorganic)	0.1	99% LOP adopted as recommended due to potential for bioaccumulation. Very high reliability.
Nickel	7	99% LOP adopted as recommended to protect key species from chronic toxicity. Very high reliability.
Zinc	8	Very high reliability.
BTEX		
Benzene	500	99% LOP adopted as recommended to protect key species from chronic toxicity. Moderate reliability.
Ethylbenzene	80	Unknown reliability.
m-Xylene	75	Unknown reliability.
o-xylene	350	Adopted from freshwater criteria for in absence of marine criteria. Unknown reliability.
p-Xylene	200	Adopted from freshwater criteria for in absence of marine criteria. Unknown reliability.
Toluene	180	Unknown reliability.
PAH		
Anthracene	0.01	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Benzo(a)pyrene	0.1	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.

Contaminant	Marine DGV 95% LOP	Notes
Fluoranthene	1	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
Naphthalene	50	99% LOP adopted as recommended to protect key species from chronic toxicity. Moderate reliability.
Phenanthrene	0.6	99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
OCP		
Aldrin	0.003	Unknown reliability and LOP.
Chlordane	0.001	Unknown reliability and LOP.
DDT	0.0004	Unknown reliability and LOP.
Dieldrin	0.01	Freshwater criteria adopted in absence of marine criteria. Unknown reliability and LOP.
Endosulfan	0.005	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Endrin	0.004	99% LOP adopted as recommended due to potential for bioaccumulation. Moderate reliability.
Heptachlor	0.0004	Unknown reliability and LOP.
Methoxychlor	0.004	Unknown reliability and LOP.
OPP		
Chlorpyrifos	0.009	Low reliability.
Diazinon	0.01	Freshwater criteria adopted in absence of marine criteria. Unknown reliability.
Dimethoate	0.15	Freshwater criteria adopted in absence of marine criteria. Unknown reliability.
Fenitrothion	0.001	Unknown reliability and LOP.
Malathion	0.05	Freshwater criteria adopted in absence of marine criteria. Unknown reliability.
Parathion	0.004	Freshwater criteria adopted in absence of marine criteria. Unknown reliability.
PCB		
Aroclor 1242	0.3	Adopted from freshwater criteria for in absence of marine criteria. 99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.

Contaminant	Marine DGV 95% LOP	Notes
Aroclor 1254	0.01	Adopted from freshwater criteria for in absence of marine criteria. 99% LOP adopted as recommended due to potential for bioaccumulation. Unknown reliability.
VOC		
Tetrachloroethene (PCE)	70	Unknown reliability.
Trichloroethene (TCE)	330	Unknown reliability.
cis-1,2-dichloroethene (DCE)	700	Unknown reliability.
Chloroethene (vinyl chloride / VC)	100	Unknown reliability.
Tetrachloromethane (carbon tetrachloride / CT)	240	Unknown reliability.
Trichloromethane (chloroform / TCM)	370	99% LOP adopted as recommended to protect key species from chronic toxicity. Unknown reliability.
Inorganics		
Ammonia	910	At a receiving body pH of 8. Note: ammonia toxicity is pH and temperature dependent. Very high reliability.
Nitrate (as N)	1100	Adopted from freshwater criteria for in absence of marine criteria. . For soft water. Other thresholds apply to moderately hard and high hardness waters. High reliability.

Notes: 95% LOP for non-bioaccumulative contaminants
 99% LOP for bioaccumulative contaminants

The DGV for the protection of aquatic ecosystems derived from HEPA (2020) are in Table 12.

Table 12: Groundwater investigation levels for protection of aquatic ecosystems (µg/L)

Contaminant / LOP	Interim marine water DGV
PFOS 99% LOP	0.00023
PFOA 99% LOP	19
PFOS 95% LOP	0.13
PFOA 95% LOP	220

4.3 Health screening levels for vapour intrusion

The HSL to evaluate potential vapour intrusion risks derived from NEPC (2013) are in Table 13.

Table 13: Groundwater health screening levels for vapour intrusion (µg/L)

Contaminant	HSL-D	HSL-D	Solubility limit
	2 m to <4 m	4 m to <8 m	-
SAND			
Benzene	5000	5000	59 000
Toluene	NL	NL	61 000
Ethylbenzene	NL	NL	3900
Xylenes	NL	NL	21 000
Naphthalene	NL	NL	170
TRH F1	6000	6000	9000
TRH F2	NL	NL	3000

Notes: TRH F1 is TRH C₆-C₁₀ minus BTEX

TRH F2 is TRH >C₁₀-C₁₆ minus naphthalene

The solubility limit is defined as the groundwater concentration at which the water cannot dissolve any more of an individual chemical based on a petroleum mixture. The soil vapour that is in equilibrium with the groundwater will be at its maximum. If the derived groundwater HSL exceeds the water solubility limit, a soil vapour source concentration for a petroleum mixture could not exceed a level that would result in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'.

4.4 Groundwater investigation levels for recreational water

The GV for recreational water derived from NHMRC (2008) are in Table 14.

Table 14: Groundwater investigation levels for protection of recreational waters (µg/L)

Contaminant	Recreational water guideline values
Metals / metalloids	
Arsenic	100
Cadmium	20
Chromium (VI)	500
Copper	20000
Lead	100
Manganese	5000
Mercury (inorganic)	10
Nickel	200
BTEX	
Benzene	10
Ethylbenzene	3000
Xylenes	6000
Toluene	8000

Contaminant	Recreational water guideline values
PAH	
Benzo(a)pyrene	0.1
OCP	
Aldrin + Dieldrin	3
Chlordane	20
DDT	90
Endosulfan	200
Heptachlor	3
Methoxychlor	3000
OPP	
Chlorpyrifos	100
Diazinon	40
Dimethoate	70
Fenitrothion	70
Malathion	700
Parathion	200
PFAS	
PFOS + PFHxS*	2
PFOA	10
VOC	
Tetrachloroethene (PCE)	500
cis-1,2-dichloroethene (DCE)	300
Chloroethene (vinyl chloride / VC)	3
Tetrachloromethane (carbon tetrachloride / CT)	30
Trichloromethane (chloroform / TCM)	2500

Notes: * Includes PFOS only, PFHxS only and the sum of the two.

5. References

ANZECC. (2000). *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Australia and New Zealand Environment and Conservation Council.

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Appendix J

Table Summary Results

Table J1: Summary of Results of Soil Analysis

				Metals								PAH															TRH										
				Total Arsenic	Cadmium	Total Chromium	Copper	Lead	Mercury (Inorganic)	Nickel	Zinc	Naphthalene ^b	Benzo(a)pyrene (BaP)	Benzo(a)pyrene TEQ (BaP TEQ)	Total PAH	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	TRH G5 - C10	TRH >C10-C16	F1 ((C6-C10)-BTEX)	F2 (>C10-C16 less Naphthalene)	F3 (>C16-C14)	F4 (>C14-C40)	TRH G5 - C9	TRH C10-C16		
Sample ID	Depth	FILL / NATURAL	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH101	0.1 - 0.3 m	FILL	21/01/25	12	<0.4	12	340	430	1.3	11	530	<1	3.7	5.4	36	<0.1	0.5	0.7	2.7	2	2.6	0.6	6	0.1	2.6	3.2	5.8	<25	<50	<25	<50	220	<100	<25	250		
				500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
BH101	0.9 - 1.1 m	FILL	21/01/25	5	<0.4	7	28	110	0.6	3	510	<1	3.6	5	31	<0.1	0.4	0.4	3.4	1.7	2.6	0.4	5.4	0.1	1.4	1.2	4.8	<25	<50	<25	<50	330	280	<25	410		
				500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
BH102	0.16 - 0.18 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				9	<0.4	10	240	330	1	10	400	<1	5	8	70	<0.1	0.7	0.6	7.8	2.8	4.8	1	17	0.1	3.7	1.7	16	<25	<50	<25	<50	320	<100	<25	360		
BH102	0.35 - 0.55 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	9	7	21	<0.1	1	93	<1	<0.05	<0.5	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<25	<50	<100	<100	<25	<50		
BH103	0.1 - 0.3 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				4	<0.4	8	31	30	0.1	2	29	<1	4.2	6.2	33	0.1	0.2	0.5	2.4	2.7	2.3	0.8	4.2	0.1	3.1	1.5	4.6	<25	<50	<25	<50	200	<100	<25	140		
BH103	1.3-1.5 m	FILL	14/02/2025	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	7	14	51	0.1	2	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BD3/20250124	1.3-1.5 m	FILL	14/02/2025	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				2.8	<0.4	7.3	16	39	0.2	<5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH104	0.3 - 0.5 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				7	<0.4	20	7	21	<0.1	1	6	<1	0.3	<0.5	1.6	<0.1	<0.1	<0.1	0.1	0.2	0.1	<0.1	0.1	<0.1	0.3	<0.1	0.2	<25	<50	<25	<50	<100	<100	<25	<50		
BH104A	0.4 - 0.6 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	5	21	47	0.3	3	41	<1	1.1	1.5	10	<0.1	<0.1	0.2	0.8	0.9	0.9	0.1	1.6	<0.1	0.4	0.9	1.7	<25	<50	<25	<50	<100	<100	<25	<50		
BH104A	0.9 - 1.1 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	5	23	60	2.5	4	65	<1	0.59	0.8	5.9	<0.1	<0.1	0.1	0.5	0.4	0.5	<0.1	1	<0.1	0.3	0.6	1	<25	<50	<25	<50	<100	<100	<25	<50		
BH105	0.25 - 0.35 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				19	<0.4	15	350	330	0.9	15	500	<1	8.1	14	130	0.2	2.2	3.6	10	4.3	8.9	3.4	30	0.9	5.2	17	26	<25	<50	<25	<50	540	110	<25	610		
BH105A	0.12 - 0.2 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	9	33	120	0.5	3	24	<1	0.4	<0.5	2.2	<0.1	<0.1	<0.1	0.2	0.2	0.2	<0.1	0.2	<0.1	0.3	0.1	0.3	<25	<50	<25	<50	<100	<100	<25	<50		
BH105A	0.9 - 1.1 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	14	5	13	0.1	1	16	<1	<0.05	<0.5	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<25	<50	<100	<100	<25	<50		
BH105A	1.3 - 1.5 m	NATURAL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				4	<0.4	17	3	12	0.1	1	11	<1	<0.05	<0.5	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<25	<50	<100	<100	<25	<50		
BH106	0.08 - 0.2 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	7	440	550	0.7	5	170	<1	2.7	3.8	22	<0.1	0.2	0.5	1.9	1.3	1.5	0.4	3.7	<0.1	1.8	1.6	3.4	<25	<50	<25	<50	<100	<100	<25	<50		
BH106	1.2 - 1.4 m	NATURAL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	12	<1	4	<0.1	1	2	<1	<0.05	<0.5	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<25	<50	<100	<100	<25	<50		
BH107	0.1 - 0.3 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH107	0.5 - 0.7 m	FILL	21/01/25	5	<0.4	8	72	220	0.7	5	130	<1	2	2.7	15	<0.1	0.2	0.3	1.1	1	1	0.2	2.2	<0.1	1.4	1.1	2.1	<25	<50	<25	<50	<100	<100	<25	<50		
				500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
BD2/20250121	0.5 - 0.7 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				<4	<0.4	9	35	470	2	4	270	<1	0.91	1.3	7.9	<0.1	<0.1	0.1	0.7	0.6	0.7	0.1	1.2	<0.1	0.4	0.6	1.2	<25	<50	<25	<50	<100	<100	<25	<50		
BH107	1 - 1.2 m	FILL	21/01/25	500	150	500	30,000	1,200	120	1,200	60,000	NL	-	4	400	-	-	-	-	-	-	-	-	-	-	-	-	-	260	NL	-	-	-	-	-	-	
				13	<0.4	18	330	380	0.8	8	290	<1	0.3	<0.5	3	<0.1	<0.1																				

Table J1: Summary of Results of Soil Analysis

				BTEX				Phenols	OCP														
				Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Phenolics	DDT+DDE+DDD	Aldrin + Dieldrin	Total Chlordane	Total Endosulfan	Endrin	Heptachlor	Heachlorobenzene	Methoxychlor	Mirex	Heptachlor Epoxide	Endrin Aldehyde	alpha-BHC	beta-BHC	delta-BHC	Lindane
			PQL	0.2	0.5	1	1	5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Sample ID	Depth	FILL / NATURAL	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH101	0.1 - 0.3 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BH101	0.9 - 1.1 m	FILL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	230																
BH102	0.16 - 0.18 m	FILL	21/01/25																				
BH102	0.35 - 0.55 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BH102	0.8 - 1 m	FILL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	230																
BH103	0.1 - 0.3 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BH103	1.3-1.5 m	FILL	14/02/2025																				
BD3/20250214	1.3-1.5 m	FILL	14/02/2025																				
BH104	0.3 - 0.5 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BH104A	0.4 - 0.6 m	FILL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	230																
BH104A	0.9 - 1.1 m	FILL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	230																
BH105	0.25 - 0.35 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BH105A	0.12 - 0.2 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BH105A	0.9 - 1.1 m	FILL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	230																
BH105A	1.3 - 1.5 m	NATURAL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	NL																
BH106	0.08 - 0.2 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BH106	1.2 - 1.4 m	NATURAL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	NL																
BH107	0.1 - 0.3 m	FILL	21/01/25																				
BH107	0.5 - 0.7 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BD2/20250121	0.5 - 0.7 m	FILL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	230																
BH107	1 - 1.2 m	FILL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	NL																
BH107	2.1 - 2.3 m	NATURAL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	NL																
BH110	0 - 0.2 m	FILL	21/01/25																				
BH110	0.5 - 0.8 m	FILL	21/01/25	<0.2	<0.5	<1	<1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
				3	NL	NL	230	130	600	10	90	400	20	10	15	500	20						
BH110	1.2 - 1.4 m	NATURAL	21/01/25	<0.2	<0.5	<1	<1																
				3	NL	NL	NL																
BH101 - [TRIPLICATE]	0.1 - 0.3 m	-	21/01/25																				
BH107 - [TRIPLICATE]	0.5 - 0.7 m	-	21/01/25																				

Lab result

HIL/HSL value

EIL/ESL/ECV value

HIL/HSL exceedance

EIL/ESL exceedance

HIL/HSL and EIL/ESL exceedance

ML exceedance

ML and HIL/HSL or EIL/ESL exceedance

Indicates that asbestos has been detected by the lab, refer to the lab report

Blue

= DC exceedance

Red

= ECV-indirect exceedance

= HSL 0-1 Exceedance

Bold

= Lab detections

-

= Not tested or No HIL/HSL/EIL/ESL (as applicable) or Not applicable

NL

= Not limiting

NAD

= No Asbestos detected

HIL

= Health investigation level

HSL

= Health screening level (excluding DC)

EIL

= Ecological investigation level

ESL

= Ecological screening level

ECV

= Environmental Guideline Value

ML

= Management Limit

DC

= Direct Contact HSL

- Notes:
- a

QA/QC replicate of sample listed directly below the primary sample
- b

Naphthalene reported as highest detection from the BTEXN or PAH suite, or if both results =PQL as lowest PQL
- c

EIL criteria applies to DDT only

Site Assessment Criteria (SAC):

SAC based on generic land use thresholds for Residential B with minimal opportunities for soil access with commercial and/or communal parking below residential use (including as basement)

Refer to the SAC section of report for information of SAC sources and rationale. Summary information as follows:

HIL

HIL-B (NEPC, 2013 or HEPA, 2020 (PFAS only))

ML

Residential, Parkland and Public Open Space (NEPC, 2013)

HSL (vapour intrusion)

HSL-D (NEPC, 2013)

ECV-Indir

ECV, all land uses, Indirect exposure (HEPA, 2020)

DC

Direct contact HSL B Residential (High density) (CRC CARE, 2011)

Table J1: Summary of Results of Soil Analysis

				OPP																	PCB	PFAS										Asbestos		
				Chlorpyrifos	Azinphos methyl (Guthion)	Bromophos-ethyl	Chlorpyrifos- methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Ronnel (fenchlorphos)	Fenitrothion	Fenthion	Malathion	Parathion	Parathion-methyl	Methidathion	Fenamiphos	Total PCB	Total Positive PFAS	PFOA	PFOS + PFHxS	PFOS	PFHxS	Perfluorobutanes ulfonic acid	6:2 FTS	8:2 FTS	Asbestos (D in soil <0.1g/kg	Trace Analysis (AS)	Asbestos Summary			
			PQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	-	-	-		
Sample ID	Depth	FILL / NATURAL	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-		
BH101	0.1 - 0.3 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.0003	<0.0001	0.0003	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	NAD	NAD	-		
BH101	0.9 - 1.1 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	-			
BH102	0.16 - 0.18 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004	0.0001	0.0003	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	-	-	-		
BH102	0.35 - 0.55 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH102	0.8 - 1 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH103	0.1 - 0.3 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH103	1.3-1.5 m	FILL	14/02/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BD3/20250214	1.3-1.5 m	FILL	14/02/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH104	0.3 - 0.5 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH104A	0.4 - 0.6 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0001	<0.0001	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	NAD	NAD	-		
BH104A	0.9 - 1.1 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH105	0.25 - 0.35 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH105A	0.12 - 0.2 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	NAD	NAD	-		
BH105A	0.9 - 1.1 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH105A	1.3 - 1.5 m	NATURAL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH106	0.08 - 0.2 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	NAD	NAD	-		
BH106	1.2 - 1.4 m	NATURAL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH107	0.1 - 0.3 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0001	<0.0001	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	-	-	-		
BH107	0.5 - 0.7 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	Chrysotile asbestos detected	NAD	Detected		
BD2/20250121	0.5 - 0.7 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH107	1 - 1.2 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH107	2.1 - 2.3 m	NATURAL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH110	0 - 0.2 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0009	0.0002	0.0007	0.0007	<0.0001	<0.0001	<0.0001	<0.0002	-	-	-			
BH110	0.5 - 0.8 m	FILL	21/01/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	NAD	NAD	-		
BH110	1.2 - 1.4 m	NATURAL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH101 - [TRIPLICATE]	0.1 - 0.3 m	-	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH107 - [TRIPLICATE]	0.5 - 0.7 m	-	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Lab result

HIL/HSL value

EIL/ESL/ECGV value

HIL/HSL exceedance

EIL/ESL exceedance

HIL/HSL and EIL/ESL exceedance

ML exceedance

ML and HIL/HSL or EIL/ESL exceedance

Indicates that asbestos has been detected by the lab, refer to the lab report

Blue = DC exceedance

Red = EGV-indirect exceedance

HSL 0-1 Exceedance

Bold = Lab detections

- = Not tested or No HIL/HSL/EIL/ESL (as applicable) or Not applicable

NL = Not limiting

NAD = No Asbestos detected

HIL = Health investigation level

HSL = Health screening level (excluding DC)

EIL = Ecological investigation level

ESL = Ecological screening level

ECGV = Environmental Guideline Value

ML = Management Limit

DC = Direct Contact HSL

Notes:

- a QA/QC replicate of sample listed directly below the primary sample
- b Naphthalene reported as highest detection from the BTEXN or PAH suite, or if both results <PQL as lowest PQL
- c EIL criteria applies to DDT only

Site Assessment Criteria (SAC):

SAC based on generic land use thresholds for Residential B with minimal opportunities for soil access with commercial and/or communal parking below residential use (including as basement)

Refer to the SAC section of report for information of SAC sources and rationale. Summary information as follows:

HIL	HIL-B (NEPC, 2013 or HEPA, 2020 (PFAS only))	ML	Residential, Parkland and Public Open Space (NEPC, 2013)
HSL (vapour intrusion)	HSL-D (NEPC, 2013)	EGV-Indir	EGV, all land uses, Indirect exposure (HEPA, 2020)
DC	Direct contact HSL B Residential (High density) (CRC CARE, 2011)		

Table J2 : Summary of Laboratory Results of Waste Classification Assessment

				Metals							TRH		BTEX				PAH			
				Total Arsenic	Cadmium	Total Chromium	Lead	TCLP Lead	Mercury (inorganic)	Nickel	TRH C6 - C9	TRH C10-C16	Benzene	Toluene	Ethylbenzene	Total Xylenes	Benzo(a)pyrene (BaP)	TCLP Benzo(a)pyrene (BaP)	Total PAH	TCLP Total PAH
			PQL	4	0.4	1	1	0.03	0.1	1	25	50	0.2	0.5	1	1	0.05	0.0001	0.05	
Sample ID	Depth	FILL / NATURAL	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L
BH101	0.1 - 0.3 m	FILL	21/01/25	12	<0.4	12	430	-	1.3	11	<25	250	<0.2	<0.5	<1	<1	3.7	-	36	-
BH101 - [TRIPLICATE]	0.1 - 0.3 m	FILL	21/01/25	12	<0.4	21	460	-	1	16	-	-	-	-	-	-	-	-	-	-
BH101	0.9 - 1.1 m	FILL	21/01/25	5	<0.4	7	110	-	0.6	3	<25	410	<0.2	<0.5	<1	<1	3.6	-	31	-
BH102	0.16 - 0.18 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH102	0.35 - 0.55 m	FILL	21/01/25	9	<0.4	10	330	-	1	10	<25	360	<0.2	<0.5	<1	<1	5	-	70	-
BH102	0.8 - 1 m	FILL	21/01/25	<4	<0.4	9	21	-	<0.1	1	<25	<50	<0.2	<0.5	<1	<1	<0.05	-	<0.05	-
BH103	0.1 - 0.3 m	FILL	21/01/25	4	<0.4	8	30	-	0.1	2	<25	140	<0.2	<0.5	<1	<1	4.2	-	33	-
BH103	1.3-1.5	FILL	14/02/2025	<4	<0.4	7	51	-	0.1	2	-	-	-	-	-	-	-	-	-	-
BD3/20250214	1.3-1.5	FILL	14/02/2025	2.8	<0.4	7.3	39	-	0.2	<5	-	-	-	-	-	-	-	-	-	-
BH104	0.3 - 0.5 m	FILL	21/01/25	7	<0.4	20	21	-	<0.1	1	<25	<50	<0.2	<0.5	<1	<1	0.3	-	1.6	-
BH104A	0.4 - 0.6 m	FILL	21/01/25	<4	<0.4	5	47	-	0.3	3	<25	<50	<0.2	<0.5	<1	<1	1.1	-	10	-
BH104A	0.9 - 1.1 m	FILL	21/01/25	<4	<0.4	5	60	-	2.5	4	<25	<50	<0.2	<0.5	<1	<1	0.59	-	5.9	-
BH105	0.25 - 0.35 m	FILL	21/01/25	19	<0.4	15	330	0.54	0.9	15	<25	610	<0.2	<0.5	<1	<1	8.1	<0.0001	130	-
BH105A	0.12 - 0.2 m	FILL	21/01/25	<4	<0.4	9	120	-	0.5	3	<25	<50	<0.2	<0.5	<1	<1	0.4	-	2.2	-
BH105A	0.9 - 1.1 m	FILL	21/01/25	<4	<0.4	14	13	-	0.1	1	<25	<50	<0.2	<0.5	<1	<1	<0.05	-	<0.05	-
BH105A	1.3 - 1.5 m	NATURAL	21/01/25	4	<0.4	17	12	-	0.1	1	<25	<50	<0.2	<0.5	<1	<1	<0.05	-	<0.05	-
BH106	0.08 - 0.2 m	FILL	21/01/25	<4	<0.4	7	550	0.91	0.7	5	<25	<50	<0.2	<0.5	<1	<1	2.7	<0.0001	22	-
BH106	1.2 - 1.4 m	NATURAL	21/01/25	<4	<0.4	12	4	-	<0.1	1	<25	<50	<0.2	<0.5	<1	<1	<0.05	-	<0.05	-
BH107	0.1 - 0.3 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH107	0.5 - 0.7 m	FILL	21/01/25	5	<0.4	8	220	0.44	0.7	5	<25	<50	<0.2	<0.5	<1	<1	2	<0.0001	15	0.0007
BD2/20250121	0.5 - 0.7 m	FILL	21/01/25	<4	<0.4	9	470	-	2	4	<25	<50	<0.2	<0.5	<1	<1	0.91	-	7.9	-
BH107 - [TRIPLICATE]	0.5 - 0.7 m	FILL	21/01/25	7	<0.4	9	430	-	0.6	7	-	-	-	-	-	-	-	-	-	-
BH107	1 - 1.2 m	FILL	21/01/25	13	<0.4	18	380	-	0.8	8	<25	<50	<0.2	<0.5	<1	<1	0.3	-	3	-
BH107	2.1 - 2.3 m	NATURAL	21/01/25	<4	<0.4	14	12	-	<0.1	2	<25	<50	<0.2	<0.5	<1	<1	<0.05	-	<0.05	-
BH110	0 - 0.2 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH110	0.5 - 0.8 m	FILL	21/01/25	<4	<0.4	6	69	-	0.3	3	<25	<50	<0.2	<0.5	<1	<1	0.4	-	2.1	-
BH110	1.2 - 1.4 m	NATURAL	21/01/25	<4	<0.4	8	6	-	<0.1	2	<25	<50	<0.2	<0.5	<1	<1	0.1	-	0.2	-

Table J2 : Summary of Laboratory Results of Waste Classification Assessment

				Metals							TRH		BTEX				PAH			
				Total Arsenic	Cadmium	Total Chromium	Lead	TCLP Lead	Mercury (inorganic)	Nickel	TRH C6 - C9	TRH C10-C16	Benzene	Toluene	Ethylbenzene	Total Xylenes	Benzo(a)pyrene (BaP)	TCLP Benzo(a)pyrene (BaP)	Total PAH	TCLP Total PAH
			PQL	4	0.4	1	1	0.03	0.1	1	25	50	0.2	0.5	1	1	0.05	0.0001	0.05	
Waste Classification Criteria ^f																				
CT1				100	20	100	100	-	4	40	650	10,000	10	288	600	1000	0.8	-	200	-
SCC1				500	100	1,900	1,500	-	50	1,050	650	10,000	18	518	1,080	1,800	10	-	200	-
TCLP1				-	-	-	-	5	-	-	-	-	-	-	-	-	-	0.04	-	-
CT2				400	80	400	400	-	16	160	2,600	40,000	40	1,152	2,400	4,000	3.2	-	800	-
SCC2				2,000	400	7,600	6,000	-	200	4,200	2,600	40,000	72	2,073	4,320	7,200	23	-	800	-
TCLP2				-	-	-	-	20	-	-	-	-	-	-	-	-	-	0.16	-	-
NEPC (1999)				1-50	1	5-1000	2-100	-	0.03	5-500	-	-	-	-	-	-	-	-	-	-
ANZECC (1992)				0.2-30	0.04-2	0.5-110	1-190	-	0.001-0.1	2-400	-	-	0.05 - 1	0.1 - 1	-	-	-	-	0.95-5	0.95-5
ANZECC (2000)				1-53	0.016-0.78	2.5-673	0.4-412	-	-	1-517	-	-	-	-	-	-	-	-	-	-

 CT1 exceedance  TCLP1 and/or SCC1 exceedance  CT2 exceedance  TCLP2 and/or SCC2 exceedance  Asbestos detection

- = Not tested, no criteria or not applicable NAD = no asbestos detected

Notes:

- a QA/QC replicate of sample listed directly below the primary sample
- b Total chromium used as initial screen for chromium(VI).
- c Total recoverable hydrocarbons (TRH) used as an initial screen for total petroleum hydrocarbons (TPH)
- d Criteria for scheduled chemicals used as an initial screen
- e Criteria for Chlorpyrifos used as initial screen
- f NSW EPA, 2014, Waste Classification Guidelines Part 1; Classifying Waste
- PQL Practical quantitation limit
- CT1 Maximum values of specific contaminant concentration (SCC) for classification without TCLP: General solid waste
- SCC1 Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: General solid waste
- TCLP1 Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: General solid waste
- CT2 Maximum values of specific contaminant concentration (SCC) for classification without TCLP: Restricted solid waste
- SCC2 Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: Restricted solid waste
- TCLP2 Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: Restricted solid waste

Table J2 : Summary of Laboratory Results of Waste Classification Assessment

				Phenols	OCP				OPP	PCB	PFAS				Asbestos			
				Total Phenolics	Scheduled Chemical Waste (standard)	Total Endosulfan	Total Analysed OCP	Mirex	Total Analysed OPP	Total PCB	PFOA	TCLP PFOA	PFOS + PFHxS	TCLP PFOS + PFHxS	Asbestos ID in soil >0.1g/kg	Trace Analysis (AS)	Asbestos Comment	Asbestos Summary
			PQL	5	0.1	0.1	0.1	0.1	0.1	0.1	0.0001	0.00001	0.0001	0.00001				
Sample ID	Depth	FILL / NATURAL	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	-	-	-	
BH101	0.1 - 0.3 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	-	0.0003	-	NAD	NAD	Nil	-
BH101 - [TRIPLICATE]	0.1 - 0.3 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH101	0.9 - 1.1 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	Nil	-
BH102	0.16 - 0.18 m	FILL	21/01/25	-	-	-	-	-	-	-	0.0001	<0.00001	0.0003	<0.00001	-	-	-	-
BH102	0.35 - 0.55 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	NAD	NAD	Nil	-
BH102	0.8 - 1 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	Nil	-
BH103	0.1 - 0.3 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	NAD	NAD	Nil	-
BH103	1.3-1.5	FILL	14/02/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20250214	1.3-1.5	FILL	14/02/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BH104	0.3 - 0.5 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	NAD	NAD	Nil	-
BH104A	0.4 - 0.6 m	FILL	21/01/25	-	-	-	-	-	-	-	<0.0001	-	0.0001	-	NAD	NAD	Nil	-
BH104A	0.9 - 1.1 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	Nil	-
BH105	0.25 - 0.35 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	NAD	NAD	Nil	-
BH105A	0.12 - 0.2 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	-	<0.0001	-	NAD	NAD	Nil	-
BH105A	0.9 - 1.1 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	Nil	-
BH105A	1.3 - 1.5 m	NATURAL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH106	0.08 - 0.2 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	-	<0.0001	-	NAD	NAD	Nil	-
BH106	1.2 - 1.4 m	NATURAL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	Nil	-
BH107	0.1 - 0.3 m	FILL	21/01/25	-	-	-	-	-	-	-	<0.0001	-	0.0001	-	-	-	-	-
BH107	0.5 - 0.7 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	Detected	NAD	YES	Chrysotile asbestos detected
BD2/20250121	0.5 - 0.7 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH107 - [TRIPLICATE]	0.5 - 0.7 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH107	1 - 1.2 m	FILL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	NAD	NAD	Nil	-
BH107	2.1 - 2.3 m	NATURAL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH110	0 - 0.2 m	FILL	21/01/25	-	-	-	-	-	-	-	0.0002	<0.00001	0.0007	0.00001	-	-	-	-
BH110	0.5 - 0.8 m	FILL	21/01/25	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	NAD	NAD	Nil	-
BH110	1.2 - 1.4 m	NATURAL	21/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J2 : Summary of Laboratory Results of Waste Classification Assessment

				Phenols	OCP				OPP	PCB	PFAS				Asbestos			
				Total Phenolics	Scheduled Chemical Waste (standard)	Total Endosulfan	Total Analysed OCP	Mirex	Total Analysed OPP	Total PCB	PFOA	TCLP PFOA	PFOS + PFHxS	TCLP PFOS + PFHxS	Asbestos ID in soil >0.1g/kg	Trace Analysis (AS)	Asbestos Comment	Asbestos Summary
			PQL	5	0.1	0.1	0.1	0.1	0.1	0.1	0.0001	0.00001	0.0001	0.00001				
Waste Classification Criteria ^f																		
CT1				288	<50	60	-	-	4	<50	-	-	-	-	-	-	-	-
SCC1				518	<50	108	-	-	7.5	<50	18	-	1.8	-	-	-	-	-
TCLP1				-	-	-	-	-	-	-	-	0.5	-	0.05	-	-	-	-
CT2				1,152	<50	240	-	-	16	<50	-	-	-	-	-	-	-	-
SCC2				2,073	<50	432	-	-	30	<50	72	-	7.2	-	-	-	-	-
TCLP2				-	-	-	-	-	-	-	-	2	-	0.2	-	-	-	-
NEPC (1999)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC (1992)				0.03 – 0.5	-	<0.001 - <0.97	-	-	-	0.02 – 0.1	-	-	-	-	-	-	-	-
ANZECC (2000)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

 CT1 exceedance  TCLP1 and/or SCC1 exceedance  CT2 exceedance  TCLP2 and/or SCC2 exceedance  Asbestos detection
- = Not tested, no criteria or not applicable NAD = no asbestos detected

Notes:

- a QA/QC replicate of sample listed directly below the primary sample
- b Total chromium used as initial screen for chromium(VI).
- c Total recoverable hydrocarbons (TRH) used as an initial screen for total petroleum hydrocarbons (TPH)
- d Criteria for scheduled chemicals used as an initial screen
- e Criteria for Chlorpyrifos used as initial screen
- f NSW EPA, 2014, Waste Classification Guidelines Part 1; Classifying Waste
- PQL Practical quantitation limit
- CT1 Maximum values of specific contaminant concentration (SCC) for classification without TCLP: General solid waste
- SCC1 Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: General solid waste
- TCLP1 Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: General solid waste
- CT2 Maximum values of specific contaminant concentration (SCC) for classification without TCLP: Restricted solid waste
- SCC2 Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: Restricted solid waste
- TCLP2 Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: Restricted solid waste

Table J3: Summary of Laboratory Results of Soil Vapour and Ambient Air Analysis

		IPA	BTX					VCH																							
		Isopropyl Alcohol	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	o-Xylene	Naphthalene	trans-1,2-dichloroethene (trans-DCE)	cis-1,2-dichloroethene (cis-DCE)	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	Vinyl chloride	1,1-dichloroethene	1,1,1-trichloroethane	1,1,2-trichloroethane	1,1-dichloroethane	Propylene	Ethanol	Acetone	Carbon Disulfide	MEK	Hexane	Tetrahydrofuran	Styrene	Methyl Butyl Ketone	Methyl Methacrylate	Trichlorofluoromethane (Fereon 11)	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
PQL		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	
Site Assessment Criteria (Comercial/ industrial)		12	1.6	1.9	2.2	4.3	2.2	2.6	2	2	2.7	3.4	2.4	1.3	2	2.7	2.7	2	0.9	9	11	16	15	1.8	1.5	2.1	2	2	2.8	2.5	1
HSL Sand, 0-<1m (soil vapour)			4,000	4,800,000	1,300,000	840,000	3,000																								
IHL -D (soil vapour)									300	80	8,000		100			230,000															
Modified IHL (ambinet air)									30	8	800					23000															
WHO Tolerable Concentration (ambient air)													140		200																
Modified WHO Tolerable Concentration (soil vapour)													1,400		2,000																
Vapour Well	Date																														
105A	25/03/24	1,100	4	40	10	40	10	<2.6	<2	<2	<2.7	<3.4	5	<1.3	<2	<2.7	<2.7	<2	4	20	30	<16	<15	20	23	9	8	6	3	5	5
BD	25/03/24	1,200	4	42	10	40	10	<2.6	<2	<2	<2.7	<3.4	5	<1.3	<2	<2.7	<2.7	<2	4	20	40	<16	<15	10	24	10	9	7	4	5	5
Ambient Air																															
Sub-AB01	20/02/24	50	<3	<4	<4	<9	<4	<5	<4	<4	<5	<7	<5	<3	<4	<5	<8	<4	<2	20	<20	<30	<30	<4	<3					<5	<5

Comments
USEPA RSLs Industrial Air modified to THQ=0.1, TR 10-5 in accordance with Australian guidelines. In addition for assessment of soil vapour, an attenuation Factor of 0.1 was to account for presence of concrete slab

Table J4 : Summary of Laboratory Results of Groundwater Analysis

		Metals - Total										Metals - Dissolved										TRH			
		Total Arsenic	Cadmium	Total Chromium	Copper	Iron	Lead	Manganese	Mercury (inorganic)	Nickel	Zinc	Total Arsenic	Cadmium	Total Chromium	Copper	Iron	Lead	Manganese	Mercury (inorganic)	Nickel	Zinc	F1 (C6-C10)-BTEX	F2 (>C10-C16 less Naphthalene)	F3 (>C16-C34)	F4 (>C34-C40)
	PQL	1	0.1	1	1	10	1	5	0.05	1	1	1	0.1	1	1	10	1	5	0.05	1	1	10	50	100	100
NHMRC (2012) Recreation		100	20		20,000		100	5,000	10	200		100	20		20,000		100	5,000	10	200					
ANZG (2018) 95% LOP Marine			5.5	4.4	1.3		4.4	80	0.1	70	8		5.5	4.4	1.3		4.4	80	0.1	70	8				
HEPA (2018) 99% LOP Marine																									
HEPA (2018) 95% LOP Marine																									
NEPC (2013) HSL 2-4m																					6,000	NL			
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BH101	20/02/25	3	<0.1	19	30	4,300	24	37	<0.05	30	56	<1	<0.1	2	8	860	9	25	<0.05	28	23	<10	<50	<100	<100
GWD1/20250220	20/02/25	1	<0.1	4	10	1,200	15	27	<0.05	31	25	-	-	-	-	-	-	-	-	-	-	<10	<50	<100	<100
BH102	20/02/25	14	0.9	98	460	41,000	720	400	2.5	72	1,100	<1	<0.1	<1	2	730	<1	110	<0.05	20	72	<10	<50	<100	<100
BH103	20/02/25	11	0.2	93	220	31,000	66	560	<0.05	170	250	-	-	-	-	-	-	-	-	-	-	<10	120	180	<100

Notes:

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- NL Not limiting
- PQL Practical quantitation limit

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NEPC (2013) National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013), health screening level Sand 2-4m

ANZG (2018) Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 95% level of protection of species for Marine aquatic ecosystems [NB: 99% level of protection adopted for bioaccumulative chemicals]

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NHMRC (2018) Australian Drinking Water Guidelines 6 2011, drinking water aesthetic-based criteria

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ANZG (2018) Ammonia DGV is pH and temperature dependant. DGV for a pH of 8 provided in table.

Table J4 : Summary of Laboratory Results of Groundwater Analysis

		BTEX						PAH																				
		Benzene	Toluene	Ethylbenzene	o-Xylene	m+p-Xylene	Total Xylenes	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Naphthalene	Benzo(a)pyrene (BaP)	Benzo(b,j,k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	Pyrene	Sum of detected PAH	DDE	DDT	DDD	Aldrin	Dieldrin
	PQL	1	1	1	1	2	1	0.1	0.1	0.1	0.1	1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.001	0.001	0.001	0.001
NHMRC (2012) Recreation		10	8,000	3,000			6,000						0.1												90			
ANZG (2018) 95% LOP Marine		700	180	80		75				0.01		70	0.1					1			0.6				0.0004		0.003	
HEPA (2018) 99% LOP Marine																												
HEPA (2018) 95% LOP Marine																												
NEPC (2013) HSL 2-4m		5,000	NL	NL			NL					NL																
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BH101	20/02/25	<1	<1	<1	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001
GWD1/20250220	20/02/25	<1	<1	<1	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
BH102	20/02/25	<1	<1	<1	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001
BH103	20/02/25	<1	81	<1	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-

Notes:

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Table J4 : Summary of Laboratory Results of Groundwater Analysis

		OCP																	OPP									
		Aldrin + Dieldrin (calculated)	alpha-chlordane	gamma-Chlordane	Endosulfan I	Endosulfan II	Endosulfan Sulphate	Endrin	Endrin Aldehyde	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	alpha-BHC	beta-BHC	delta-BHC	Lindane	Sum of detected OCP	Azinphos methyl (Guthion)	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Romel (fenchlorphos)	
	PQL	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.02	0.05	0.009	0.05	0.01	0.05	0.1	0.05	0.05	
NHMRC (2012) Recreation		3								3							100		300	100	100		40	50	70	40		
ANZG (2018) 95% LOP Marine								0.004		0.0004		0.1	0.004				0.007				0.009							
HEPA (2018) 99% LOP Marine																												
HEPA (2018) 95% LOP Marine																												
NEPC (2013) HSL 2-4m																												
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
BH101	20/02/25	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.02	<0.05	<0.009	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	
GWD1/20250220	20/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BH102	20/02/25	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.02	<0.05	<0.009	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	
BH103	20/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Table J4 : Summary of Laboratory Results of Groundwater Analysis

										PCB																	
		Fenitrothion	Fenthion	Malathion	Parathion	Parathion-methyl	Methidathion	Fenamiphos	Sum of detected OPP	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Aroclor 1260	Sum of detected PCB	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	tetrachloroethene (PCE)	1,1,2-trichloroethane	1,1,2-trichloroethylene	1,1-dichloroethane	1,1-Dichloroethene (DCE)	1,1-dichloropropene	1,2,3-trichlorobenzene
	PQL	0.05	0.05	0.05	0.004	0.05	0.05	0.05	0.004	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1	1	1	1	1	1	1	1	1	1
NHMRC (2012) Recreation		70	70	700	200	7	60	5													500				300		
ANZG (2018) 95% LOP Marine		<u>0.001</u>																	270	400	70	1,900	330		700		
HEPA (2018) 99% LOP Marine																											
HEPA (2018) 95% LOP Marine																											
NEPC (2013) HSL 2-4m																											
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BH101	20/02/25	<0.05	<0.05	<0.05	<0.004	<0.05	<0.05	<0.05	<0.004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GWD1/20250220	20/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH102	20/02/25	<0.05	<0.05	<0.05	<0.004	<0.05	<0.05	<0.05	<0.004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH103	20/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Notes:

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NHMRC (2018) Australian Drinking Water Guidelines 6 2011, drinking water aesthetic-based criteria

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ANZG (2018) DGV adopted for aluminium in freshwater is for receiving waters with pH >6.5. For receiving waters with pH <6.5 suitability of the more conservative, low reliability DGV of unknown LOP should be considered

ANZG (2018) Ammonia DGV is pH and temperature dependant. DGV for a pH of 8 provided in table.

Table J4 : Summary of Laboratory Results of Groundwater Analysis

		VOC (excluding BTEX)																									
		1,2,3- trichloropropane	1,2,4- trichlorobenzene	1,2,4-trimethyl benzene	1,2-dibromo-3- chloropropane	1,2- dichlorobenzene	1,2-dichloroethane	1,2- dichloropropane	1,3,5-trimethyl benzene	1,3- dichlorobenzene	1,3- dichloropropane	1,4- dichlorobenzene	2,2- dichloropropane	2-chlorotoluene	4-chlorotoluene	4-isopropyl toluene	Bromobenzene	Bromochloromet hane	Bromodichlorom ethane	Bromodform	carbon tetrachloride	Chloroethane	Vinyl Chloride	Chloroform	Chloromethane	cis-1,2- dichloroethene	cis-1,3- dichloropropene
	PQL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	10	1	10	1	1
NHMRC (2012) Recreation						15,000	30					400									30		3	2500			
ANZG (2018) 95% LOP Marine			20				1,900	900			1,100										240		100	770			
HEPA (2018) 99% LOP Marine																											
HEPA (2018) 95% LOP Marine																											
NEPC (2013) HSL 2-4m																											
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BH101	20/02/25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	1	<10	<1	<1
GWD1/20250220	20/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH102	20/02/25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	2	<10	<1	<1
BH103	20/02/25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<10	<10	7	<10	<1	<1

Notes:

- No criterion / not defined / not tested / not applicable
- * QA/QC replicate of sample listed directly below the primary sample
- NL Not limiting
- PQL Practical quantitation limit

Shaded cell is exceedance of guideline value

Where one or more guideline value is exceeded, the cell is shaded to the colour of the highest guideline value exceeded

NEPC (2013) National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013), health screening level Sand 2-4m

ANZG (2018) Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 95% level of protection of species for Marine aquatic ecosystems [NB: 99% level of protection adopted for bioaccumulative chemicals]

HEPA (2018) PFAS National Environmental Management Plan, 99% level of protection for Marine water aquatic ecosystems

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ANZG (2018) Ammonia DGV is pH and temperature dependant. DGV for a pH of 8 provided in table.

Table J4 : Summary of Laboratory Results of Groundwater Analysis

																				PFAS						
		Isopropylbenzene (cumene)	Cyclohexane	dibromochlorome thane	Dibromomethane	Dichlorodifluorom ethane	1,2- dibromoethane	hexachlorobutadi ene	Bromomethane	Monochlorobenze ne	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene (vinylbenzene)	Tert-butyl benzene	trans-1,2- dichloroethene	trans-1,3- dichloropropene	Trichlorofluorome thane	Sum of detected VOC	PFOS	PFOA	PFHxS	Perfluorobutanes ulfonic acid	6:2 FTS	8:2 FTS	Sum of detected PFAS
	PQL	1	1	1	1	10	1	1	10	1	1	1	1	1	1	1	1	10	1	0.0002	0.0002	0.0002	0.0004	0.0004	0.0004	0.0002
NHMRC (2012) Recreation							10	7	10	3,000				300							10					
ANZG (2018) 95% LOP Marine		30								55																
HEPA (2018) 99% LOP Marine																				0.00023	19					
HEPA (2018) 95% LOP Marine																				0.13	220					
NEPC (2013) HSL 2-4m																										
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BH101	20/02/25	<1	<1	<1	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	1	0.028	0.0098	0.009	0.011	0.016	<0.0004	0.074
GWD1/20250220	20/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH102	20/02/25	<1	<1	<1	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	2	0.06	0.01	0.0051	0.0069	0.051	<0.0004	0.133
BH103	20/02/25	<1	<1	<1	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	8	-	-	-	-	-	-	-

Notes:

- No criterion / not defined / not tested / not applicable
- * QA/QC replicate of sample listed directly below the primary sample
- NL Not limiting
- PQL Practical quantitation limit

Shaded cell is exceedance of guideline value

Where one or more guideline value is exceeded, the cell is shaded to the colour of the highest guideline value exceeded

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ANZG (2018) Ammonia DGV is pH and temperature dependant. DGV for a pH of 8 provided in table.

Table J4 : Summary of Laboratory Results of Groundwater Analysis

		Nutrients							Physical Parameters						Anions & Cations						Anions & Cations - Dissolved			
		Nitrogen	Ammonia as N	TKN in water	Nitrate as N	Nitrite as N	NOx as N	Organic Nitrogen as N	Total dissolved solids	pH	Electrical Conductivity	Total Suspended Solids (TSS)	Oil & Crease	Turbidity	Bicarbonate Alkalinity as CaCO3	Chloride	Hydroxide Alkalinity (OH-) as CaCO3	Ionic Balance	Sulphate	Total Alkalinity as CaCO3	Calcium	Magnesium	Potassium	Sodium
	PQL	100	5	100	5	5	5	200	5,000	-	1	5,000	5,000	0.1	5,000	1000	5,000		1000	5,000	500	500	500	500
NHMRC (2012) Recreation					500,000	30,000																		
ANZG (2018) 95% LOP Marine			910			1100																		
HEPA (2018) 99% LOP Marine																								
HEPA (2018) 95% LOP Marine																								
NEPC (2013) HSL 2-4m																								
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH Units	µS/cm	µg/L	µg/L	ntu	µg/L	µg/L	µg/L	%	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BH101	20/02/25	21,000	440	8,200	13,000	16	13,000	7,700	420,000	4.5	640	940,000	<5000	610	8,000	31,000	<5000	-	160,000	8,000	29,000	8,800	28,000	32,000
GWD1/20250220	20/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH102	20/02/25	22,000	95	9,300	13,000	170	13,000	9,200	440,000	5.9	830	5,800,000	7,000	-	210,000	25,000	<5000	-5	140,000	210,000	87,000	10,000	30,000	25,000
BH103	20/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47,000	5,400	10,000	88,000

Notes:

- No criterion / not defined / not tested / not applicable
- * QA/QC replicate of sample listed directly below the primary sample
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Appendix K

Borehole Logs

BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.6 AHD
COORDINATE: E:333156.6, N:6249348.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH101
PROJECT No: 231957.02
DATE: 12/02/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED										SAMPLE			TESTING AND REMARKS			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
		0.10	CONCRETE PAVEMENT: 100 mm thick					ND								
			FILL / Silty SAND with gravel trace ash: brown; fine to medium; sandstone gravel.		FILL			ND								
		1.20	Silty SAND (SP-SM): pale grey / yellow; fine to medium.		ALV			M								
		1.50	SAND (SC-SM), with clay, trace silt: brown and orange-brown.		ALV		VL			SPT		1.50	SPT	0,1,1 N=2 Sunk 100mm on HW		
		2.00	Silty SAND (SM): red-brown; fine to coarse.		possibly ALV		MD			ES		2.00				
										A		2.10				
										A		2.20				
										A		2.30				
		2.40	Continued as rock log							SPT		2.35	SPT	5/40 HB		
												2.39				

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geo 205
METHOD: VE to 1.5m, AD/T to 2.4m, NMLC to 10.2m
REMARKS:

OPERATOR: Ground Test (JJ)

LOGGED: S.Pourkazemi/C.Yip
CASING: HWT to 2.4m

BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.6 AHD
COORDINATE: E:333156.6, N:6249348.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH101
PROJECT No: 231957.02
DATE: 12/02/25
SHEET: 2 of 3

CONDITIONS ENCOUNTERED										SAMPLE				TESTING						
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	WEATH. RS XW HW MW SW FR	DEPTH (m)	STRENGTH VL M H VH EH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
	6	1													1			Sand		
	5	2													2			Bentonite		
	4	3	Continued from soil log SANDSTONE: pale grey and orange-brown, fine to coarse grained, indistictly cross bedded, 0 to 15°. Hawkesbury Sandstone		MW	2.40 2.46 2.59	L													
	3	4			MW		L to M	97	93		280m B, 0°, PR, VNR Clay, RF					PLT	PL(A)=0.28MPa			
	3	5									3.05m DS, 5°, 2mm 313m B, 10°, PR, VNR Clay, RF 326-3.40m: JT, 30°, PR, INF, RF, Roots grown in joint					PLT	PL(A)=0.33MPa			
	4	4									3.78m DS, 0°, 10mm 3.90m CS, 0°, 5mm					PLT	PL(A)=0.56MPa			
	4.20 2.59	5	SANDSTONE: pale grey and orange-brown, fine to coarse grained, indistictly cross bedded, 0 to 15°. Hawkesbury Sandstone		MW	4.45	L				4.45m DS, 0°, 50mm 4.50m JT, 85°, PR, CN, RF					PLT	PL(A)=0.27MPa			
	4.45	6			XW	4.80 4.86	SEAM				4.69m DS, 5°, 30mm 4.78-4.91m: JT, 85°, ST, INF Clay 5mm, VR									
	5	7			MW	5.13 5.16	L	72	60		4.92m DS, 5°, 5mm 4.93-5.01m: JT, 85°, IR, CN, RF 5.03m DS, 0°, 130mm					PLT	PL(A)=0.55MPa			
	5.52	8			MW	5.37 5.48 5.52	M				5.36m DS, 20°, 15mm 5.49m DS, 20°, 20mm									
	5.78	9			SW	5.78	M				5.82m B, 15°, PR, SN Fe, RF					PLT	PL(A)=0.41MPa			

NOTES: ^(#) Soil origin is "probable" unless otherwise stated.

PLANT: Geo 205
METHOD: VE to 1.5m, AD/T to 2.4m, NMLC to 10.2m
REMARKS:

OPERATOR: Ground Test (JJ)

LOGGED: S.Pourkazemi/C.Yip
CASING: HWT to 2.4m

BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.6 AHD
COORDINATE: E:333156.6, N:6249348.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH101
PROJECT No: 231957.02
DATE: 12/02/25
SHEET: 3 of 3

CONDITIONS ENCOUNTERED										SAMPLE			TESTING						
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
	6.00	SANDSTONE: pale grey and orange-brown, fine to coarse grained, cross bedded, 0 to 15°, with frequent iron-staining and extremely weathered bands/seams. Hawkesbury Sandstone.		SW	6.16	M	72	60		6.02-6.08m: JT, 60°, PR, CN, RF									
	6.20			SW	6.20	SEAM					6.08m: DS, 10°, 5mm								
	6.43					6.43				6.43-6.48m JT, 85°, PR, CN, RF					PLT	PL(A)=0.52MPa			
	7						M			6.66m: DS, 5°, 10mm									
	7									6.82-7.15m: JT, 85°, PR, CN, RF									
	7.30			SW						7.31m B, 35°, PR, CN, RF					PLT	PL(A)=0.25MPa			
	8						L			7.86m: CZ, 0°, 60mm									
	8.33					8.33				8.37-8.42m DS, 0°, 50 mm									
	8.37					8.42	VL	98	90							PLT	PL(A)=0.50MPa		
	9						M					8.82m: DS, 0°, 5mm							
	9				9.03	M to H			8.96m: DS, 0°, 70mm										
	9.38				9.38					9.22m B, 10°, PR, CT CBS, RF									
	9.42				9.42					9.38m: DS, 0°, 40mm									
	9.50									9.50m: B, 10°, PR, CN, RF									
	9.68					M to H				9.68-9.70m SZ, 10°, 20 mm				PLT	PL(A)=1.0MPa				
	9.90				9.90					9.90m DS, 0°, 60mm									
	9.94				9.94														
	10.00		SW		10.00	M to H				10.00-10.20m JT, 85°, IR, SN Fe, VR									
		Borehole discontinued at 10.20m depth. Target depth reached.																	
	11																		
	12																		
	13																		
	14																		
	15																		

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Geo 205
METHOD: VE to 1.5m, AD/T to 2.4m, NMLC to 10.2m
REMARKS:

OPERATOR: Ground Test (JJ)

LOGGED: S.Pourkazemi/C.Yip
CASING: HWT to 2.4m

CORE PHOTO LOG

CLIENT:

Apt.Residential Pty Ltd

PROJECT:

Proposed Mixed Use Development

LOCATION:

41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL:

6.6 AHD

COORDINATE:

E:333156.6, N:6249348.6

DATUM/GRID:

MGA2020 Zone 56

DIP/AZIMUTH:

90°/---

LOCATION ID:

BH101

PROJECT No:

231957.02

DATE:

12/02/25

SHEET:

1 of 1



BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.8 AHD
COORDINATE: E:333148.3, N:6249336.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH102
PROJECT No: 231957.02
DATE: 13/02/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS						
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
20/02/25 07100 ▼		0.16	CONCRETE PAVEMENT: 160 mm thick				ND									
		0.30	FILL / Silty Gravelly SAND, with clay, trace asphalt, sandstone gravel, slag: brown; fine to medium.		FILL											
		0.6	FILL / Gravelly SAND with clay trace cobbles: brown; fine to medium; fine to coarse, sandstone and igneous gravel; sandstone cobbles; with asphalt, slag; and trace terracotta, tile, and rusty metal piece.		FILL		ND									
		1.00	Clayey SAND (SC): yellow / orange; fine to medium.		ALV		M					1				
		1.50	Clayey SAND (SC), trace gravel: red-brown, orange-brown and pale grey; fine to coarse; fine to medium, ironstone gravel.		ALV	VL				SPT		1.50	SPT	0.0,1/100		
		2.00	SAND (SP), trace gravel: pale grey and yellow-brown; fine to coarse; fine, sandstone gravel.		possibly ALV	MD				ES		1.80 1.90 2.00				
		2.50	SAND with gravel trace clay: pale grey; fine to coarse; fine to medium, sandstone gravel.			ND	ND			A		2.20 2.35 2.48	SPT	25/130 (HB)		
		2.67	Hawkesbury Sandstone.							SPT						
		3				XWM	(D)	NDF					3			
		3.30					ND	ND								
	3.58	Continued as rock log														
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	100															

NOTES: [#]Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. %Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geo 205
METHOD: VE to 1.5m, AD/T to 2.5m, NMLC to 10.1m
REMARKS:

OPERATOR: Ground Test (JJ)

LOGGED: S.Pourkazemi/C.Yip
CASING: HWT to 2.5m

BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.8 AHD
COORDINATE: E:333148.3, N:6249336.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH102
PROJECT No: 231957.02
DATE: 13/02/25
SHEET: 2 of 3

[illegible]

NOTES: ^(#) Soil origin is "probable" unless otherwise stated.

PLANT: Geo 205
METHOD: VE to 1.5m, AD/T to 2.5m, NMLC to 10.1m
REMARKS:

OPERATOR: Ground Test (JJ)

LOGGED: S.Pourkazemi/C.Yip
CASING: HWT to 2.5m

BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.8 AHD
COORDINATE: E:333148.3, N:6249336.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH102
PROJECT No: 231957.02
DATE: 13/02/25
SHEET: 3 of 3

CONDITIONS ENCOUNTERED											SAMPLE			TESTING						
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE		
	6.00	SANDSTONE: pale grey, orange-brown and red-brown, fine to coarse grained, cross bedded, 0 to 10°; with abundant iron-staining and extremely weathered seams, highly fractured. Occasional carbonaceous lenses. Hawkesbury Sandstone.		RS																
				XW																
	6.22			SW			L to M	79	17								PLT	PL(A)=0.31MPa		
	6.45			XW								6.44m: DS, 10°, 370mm								
	6.62																			
	6.88	SANDSTONE: orange-brown and red-brown, then grey, fine to coarse grained, 0 to 10°, thinly laminated, occasional carbonaceous lenses. Hawkesbury Sandstone																		
	7			SW				80	10			7.02m: DS, 0°, 20mm 7.05m JT, 45°, PR, INF Clay 2mm, SM 7.13m JT, 45°, PR, INF Clay 25mm, RF 7.23m JT, 45°, PR, INF Clay 25mm, RF					PLT	PL(A)=0.42MPa		
	7.20						M					7.56m: JT, 60°, PR, VNR Clay, SM					PLT	PL(A)=0.56MPa		
	7.94			XW								7.68-7.86m DS, 0°, 15mm, x4								
	8.10											7.94m: DS, 0°, 160mm								
	8.26																			
				SW			M										PLT	PL(A)=0.73MPa		
	8.53			XW								8.53m: DS, 0°, 150mm					PLT	PL(A)=0.13MPa		
	8.68											8.76-8.83m: JT, 70°, IR, CN, RF								
	9			HW			L	90	80			8.95m DS, 0°, 20mm								
	9.50			XW								9.50m: DS, 0°, 110mm					PLT	PL(A)=0.13MPa		
	9.60																PLT	PL(A)=0.52MPa		
	9.88			SW			M													
	9.94	XW								9.88m DS, 5°, 140mm					PLT	PL(A)=0.60MPa				
	10	SW			M															
		Borehole discontinued at 10.10m depth. Target depth reached.																		

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Geo 205
METHOD: VE to 1.5m, AD/T to 2.5m, NMLC to 10.1m
REMARKS:

OPERATOR: Ground Test (JJ)

LOGGED: S.Pourkazemi/C.Yip
CASING: HWT to 2.5m

CORE PHOTO LOG

CLIENT:

Apt.Residential Pty Ltd

PROJECT:

Proposed Mixed Use Development

LOCATION:

41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL:

6.8 AHD

COORDINATE:

E:333148.3, N:6249336.8

DATUM/GRID:

MGA2020 Zone 56

DIP/AZIMUTH:

90°/---°

LOCATION ID:

BH102

PROJECT No:

231957.02

DATE:

13/02/25

SHEET:

1 of 1



BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.5 AHD
COORDINATE: E:333174.7, N:6249336.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH103
PROJECT No: 231957.02
DATE: 14/02/25
SHEET: 1 of 3

[illegible]

NOTES: #Soil origin is "probable" unless otherwise stated. *Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geo 305
METHOD: VE to 0.8m, AD/T to 2.5m, HQ to 8.78m
REMARKS:

OPERATOR: Terratest (MB)

LOGGED: S.Pourkazemi/C.Yip
CASING: PWT to 2.5m

BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.5 AHD
COORDINATE: E:333174.7, N:6249336.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH103
PROJECT No: 231957.02
DATE: 14/02/25
SHEET: 2 of 3

[illegible]

NOTES: (#) Soil origin is "probable" unless otherwise stated.

PLANT: Geo 305
METHOD: VE to 0.8m, AD/T to 2.5m, HQ to 8.78m
REMARKS:

OPERATOR: Terratest (MB)

LOGGED: S.Pourkazemi/C.Yip
CASING: PWT to 2.5m

BOREHOLE LOG

CLIENT: Apt.Residential Pty Ltd
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.5 AHD
COORDINATE: E:333174.7, N:6249336.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH103
PROJECT No: 231957.02
DATE: 14/02/25
SHEET: 3 of 3

CONDITIONS ENCOUNTERED										SAMPLE				TESTING											
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	WEATH.			DEPTH (m)	STRENGTH			RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE		
			[CONT] SANDSTONE: orange-brown then grey with occasional purple and red-brown, fine to coarse grained, laminated, 0 to 20°, indistictly cross bedded, 0 to 20°; occasional carbonaceous lenses, indistinct. Hawkesbury Sandstone		DS	SW	HW	DW	MW	SW	FR		VL	L	M	H	VEH								
	-0																								
	7																								
	-1																								
	8																								
	-2																								
	9																								
	-3																								
	10																								
	-4																								
	11																								
	-5																								
			Borehole discontinued at 8.78m depth. Target depth reached.																						

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Geo 305
METHOD: VE to 0.8m, AD/T to 2.5m, HQ to 8.78m
REMARKS:

OPERATOR: Terratest (MB)

LOGGED: S.Pourkazemi/C.Yip
CASING: PWT to 2.5m

CORE PHOTO LOG

CLIENT:

Apt.Residential Pty Ltd

PROJECT:

Proposed Mixed Use Development

LOCATION:

41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL:

6.5 AHD

COORDINATE:

E:333174.7, N:6249336.8

DATUM/GRID:

MGA2020 Zone 56

DIP/AZIMUTH:

90°/---°

LOCATION ID:

BH103

PROJECT No:

231957.02

DATE:

14/02/25

SHEET:

1 of 1

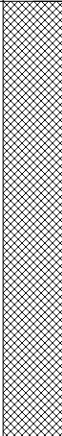


BOREHOLE LOG

CLIENT: Evolution MIT Services Pty Ltd ATF Apt Hold Trust 2
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.5 AHD
COORDINATE: E:333146.1, N:6249357.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH104
PROJECT No: 231957.01
DATE: 21/01/25
SHEET: 1 of 1

CONDITIONS ENCOUNTERED														SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS				
		0.22	CONCRETE PAVEMENT: 220 mm thick.					ND										
			FILL / CLAY with cobbles trace ash, slag: brown /orange; sandstone cobbles.					ND		ES		0.30						
					FILL			M				0.50	PID	0.9ppm				
		1	Borehole discontinued at 0.80m depth. Refusal on sandstone cobbles / bricks in fill.															
		5																

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. %Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Concrete coring machine, Vaccum truck and hand tools
METHOD: DT (150) to 0.22 m, VE to 0.8 m.
REMARKS: Borehole completed at the surface with a quick set concrete.

OPERATOR: Geosurv

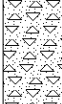
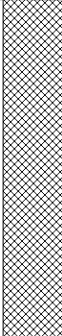
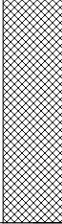
LOGGED: Pourkazemi
CASING: Uncased

BOREHOLE LOG

CLIENT: Evolution MIT Services Pty Ltd ATF Apt Hold Trust 2
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.7 AHD
COORDINATE: E:333137.4, N:6249358.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH104A
PROJECT No: 231957.01
DATE: 21/01/25
SHEET: 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
			CONCRETE PAVEMENT: 150 mm thick.				ND						
		0.15	FILL / SAND: yellow; fine; (bedding sand).		FILL		D		ES		0.16 0.20		
		0.25	CONCRETE: 100 mm thick.				ND						
		0.35	FILL / Clayey SAND, with sandstone gravel, with silt: brown.		FILL	ND			ES		0.40 0.60	PID	0.8ppm
	6	0.80	FILL / Gravelly SAND, with ash / slag, sandstone gravel, with silt: brown.		FILL		M		ES		0.90 1	PID	0.6ppm
	1		Borehole discontinued at 1.10m depth. Refusal on sandstone cobbles in fill.										
	5												

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. %Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

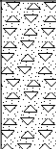
PLANT: Concrete coring machine, vaccum truck and hand tools **OPERATOR:** Geosurv **LOGGED:** Pourkazemi
METHOD: DT (150) to 0.15m, HA to 0.25 m, DT (150) to 0.35 m, VE to 0.5 m, HA to 0.8 m, VE to 1m, HA to 1.1 m. **CASING:** Uncased
REMARKS: Borehole completed at the surface with a quick set concrete.

BOREHOLE LOG

CLIENT: Evolution MIT Services Pty Ltd ATF Apt Hold Trust 2
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL:
COORDINATE: E:333136.3, N:6249339.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH105
PROJECT No: 231957.01
DATE: 21/01/25
SHEET: 1 of 1

CONDITIONS ENCOUNTERED										SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.20	CONCRETE PAVEMENT: 200 mm thick.					ND						
			FILL / Gravelly SAND, trace clay, sandstone, igneous gravel, ash: brown; fine to medium.		FILL	ND		D		ES		0.25		
												0.35	PID	0.5ppm
													PID	0.3ppm
			Borehole discontinued at 0.50m depth. Refusal on sandstone cobbles/ bricks in fill.											
		1												

NOTES: ^(#)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. %Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Concrete coring machine, hand tool

OPERATOR: Douglas

LOGGED: Pourkazemi

METHOD: DT (150mm) to 0.2 m, then HA to 0.5 m.

CASING: Uncased

REMARKS: Coordinates and levels estimated from site drawings (low accuracy)
 .Borehole completed at the surface with quick set concrete.

Refer to explanatory notes for symbol and abbreviation definitions.

BOREHOLE LOG

CLIENT: Evolution MIT Services Pty Ltd ATF Apt Hold Trust 2

PROJECT: Proposed Mixed Use Development

LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.8 AHD

COORDINATE: E:333160.8, N:6249341.2

DATUM/GRID: MGA2020 Zone 56

DIP/AZIMUTH: 90°/---°

LOCATION ID: BH106

PROJECT No: 231957.01

DATE: 21/01/25

SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE			TESTING AND REMARKS		
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
RL (m)													
	0.05	CONCRETE PAVEMENT: 50 mm thick.					ND						
		FILL / SAND, with ash, sandstone gravel: brown; coarse; trace slag.		FILL			M		ES		0.08 0.20	PID	0.5ppm
6					ND								
	1								ES		0.90 1 1.10		
	1.10	Clayey SAND (SC): yellow / orange; coarse.		ALV					ES		1.20 1.40		
		Borehole discontinued at 1.50m depth. Target depth reached.											
5													

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: [#]Soil origin is "probable" unless otherwise stated. [†]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Concrete coring machine, vaccum truck, and hand tools **OPERATOR:** Geosurv

LOGGED: Pourkazemi

METHOD: DT (150mm) to 0.05, VE to 0.7 m, then HA to 1.5 m

CASING: Uncased

REMARKS: Borehole completed at the surface with quick set

Generated with CORE-GS by Geroc - Soil Log

Refer to explanatory notes for symbol and abbreviation definitions.

BOREHOLE LOG

CLIENT: Evolution MIT Services Pty Ltd ATF Apt Hold Trust 2
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.5 AHD
COORDINATE: E:333170.8, N:6249345.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH107
PROJECT No: 231957.01
DATE: 21/01/25
SHEET: 1 of 1

CONDITIONS ENCOUNTERED														SAMPLE				TESTING AND REMARKS			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS							
	6	0.08	CONCRETE PAVEMENT: 80 mm thick.					ND													
			FILL / Gravelly SAND, with ash, asphalt, sandstone gravel, igneous gravel , with clay: brown; fine to medium.								ES	0.10									
												0.30	PID	2.9ppm							
											ES	0.50									
												0.70	PID	2.7ppm							
											ES	1.00									
												1.20	PID	2.6ppm							
											ES	1.50									
	5																				
												1.80	PID	2.1ppm							
											ES	2.10									
												2.30									
	4	1.90	Silty SAND (SM) with clay: grey/orange; fine to medium.																		
		2										2									
	4		Borehole discontinued at 2.40m depth. Target depth reached.																		

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. %Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Concrete coring machine, vaccum truck and hand tools
METHOD: DT(150) to 0.08 m, VE to 0.5 m, HA to 0.8 m, VE to 1 m, HA to 1.2m, VE to 1.5 m, HA to 2.4 m.
REMARKS: Replicate sample BH0D2/20250121 collected at 0.5-0.7. No Hydrocarbon odour. Borehole completed at the surface with quick set concrete.

OPERATOR: Geosurv

LOGGED: Pourkazemi
CASING: Uncased

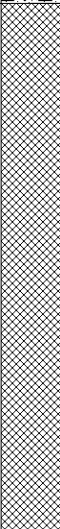
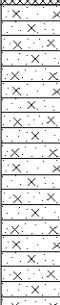
Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Evolution MIT Services Pty Ltd ATF Apt Hold Trust 2
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL:
COORDINATE: E:333180.0, N:6249337.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH110
PROJECT No: 231957.01
DATE: 21/02/25
SHEET: 1 of 1

CONDITIONS ENCOUNTERED															SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS						
			CONCRETE PAVEMENT: 300 mm thick.								ES									
		0.30	ASPHALT: 100 mm thick.					ND				0.20	PID	0.3ppm						
		0.40	FILL / Gravelly SAND, with sandstone gravel: brown; fine to medium; trace ash and igneous gravel.		FILL			ND			ES									
		1						M				0.50								
		1.10	Silty SAND (SM) with clay: orange / light brown; fine to medium.		ALV						ES									
			Borehole discontinued at 1.50m depth. Target depth reached.									0.80	PID	0.1ppm						
												1								
												1.20								
												1.40								

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Concrete coring machine, vaccum truck and hand tools
METHOD: DT (150) to 0.4 m, VE to 0.5m, HA to 1.5m
REMARKS: Coordinates and levels estimated from site drawings (low accuracy).
 Borehole completed at the surface with quick set concrete.

OPERATOR: Geosurve

LOGGED: Pourkazemi
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Evolution MIT Services Pty Ltd ATF Apt Hold Trust 2
PROJECT: Proposed Mixed Use Development
LOCATION: 41-49 Mountain Street, Ultimo, NSW

SURFACE LEVEL: 6.8 AHD
COORDINATE: E:333144.5, N:6249342.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH105A
PROJECT No: 231957.01
DATE: 21/02/25
SHEET: 1 of 1

CONDITIONS ENCOUNTERED																SAMPLE			TESTING AND REMARKS		
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE					
		0.10	CONCRETE PAVEMENT: 100 mm thick.			ND		ND				0.12 0.20	PID	1.1ppm							
			FILL / Silty SAND, trace ash, sandstone gravel, slag, igneous gravel: brown; fine to medium.		FILL												ES				
		0.50	FILL / BOULDERS, with bricks, sandstone, concrete.		FILL																
		0.80	FILL / Silty SAND, trace slag, sandstone gravel, igneous gravel: brown; fine to medium.		FILL												ES				
		1																			
		1.20	Silty SAND (SM) with clay: brown/orange; fine to medium.			ND		M				0.90 1 1.10 1.30 1.50	PID	0.5ppm							
																	ES				
			Borehole discontinued at 1.70m depth. Target depth reached.			ND															

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Concrete coring machine, vaccum truck and hand tool
METHOD: DT(150mm) to 0.1, HA to 0.2m, VE to 0.8m, HA to 1.7m
REMARKS: The borehole was backfilled to a depth of 1m to install the vapour well. Well completed at surface with gatic cover; Well inlet comprised 10cm stainless steel soil vapour.

OPERATOR: Geosurve

LOGGED: Pourkazemi
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Introduction to Terminology, Symbols and Abbreviations

Douglas Partners' reports, investigation logs, and other correspondence may use terminology which has quantitative or qualitative connotations. To remove ambiguity or uncertainty surrounding the use of such terms, the following sets of notes pages may be attached Douglas Partners' reports, depending on the work performed and conditions encountered:

- Soil Descriptions;
- Rock Descriptions; and
- Sampling, insitu testing, and drilling methodologies

In addition to these pages, the following notes generally apply to most documents.

Abbreviation Codes

Site conditions may also be presented in a number of different formats, such as investigation logs, field mapping, or as a written summary. In some of these formats textual or symbolic terminology may be presented using textual abbreviation codes or graphic symbols, and, where commonly used, these are listed alongside the terminology definition. For ease of identification in these note pages, textual codes are presented in these notes in the following style **XW**. Code usage conforms with the following guidelines:

- Textual codes are case insensitive, although herein they are generally presented in upper case; and
- Textual codes are contextual (i.e. the same or similar combinations of characters may be used in different contexts with different meanings (for example `PL` is used for plastic limit in the context of soil moisture condition, as well as in `PL(A)` for point load test result in the testing results column)).

Data Integrity Codes

Subsurface investigation data recorded by Douglas Partners is generally managed in a highly structured database environment, where records "span" between a top and bottom depth interval. Depth interval "gaps" between records are considered to introduce ambiguity, and, where appropriate, our practice guidelines may require contiguous data sets. Recording meaningful data is not always appropriate (for example assigning a "strength" to a concrete pavement) and the following codes may be used to maintain contiguity in such circumstances.

Term	Description	Abbreviation Code
Core loss	No core recovery	KL
Unknown	Information was not available to allow classification of the property. For example, when auguring in loose, saturated sand auger cuttings may not be returned.	UK
No data	Information required to allow classification of the property was not available. For example if drilling is commenced from the base of a hole predrilled by others	ND
Not Applicable	Derivation of the properties not appropriate or beyond the scope of the investigation. For example providing a description of the strength of a concrete pavement	NA

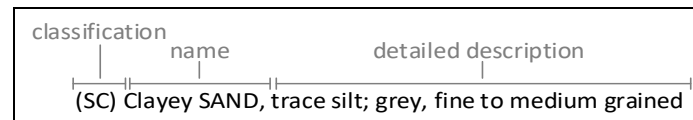
Graphic Symbols

Douglas Partners' logs contain a "graphic" column which provides a pictorial representation of the basic composition of the material. The symbols used are directly representing the material name stated in the adjacent "Description of Strata" column, and as such no specific graphic symbology legend has been provided in these notes.

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Introduction

All materials which are not considered to be “in-situ rock” are described in general accordance with the soil description model of AS 1726-2017 Part 6.1.3, and can be broken down into the following description structure:



The “classification” comprises a two character “group symbol” providing a general summary of dominant soil characteristics. The “name” summarises the particle sizes within the soil which most influence its behaviour. The detailed description presents more information about composition, condition, structure, and origin of the soil.

Classification, naming and description of soils require the relative proportion of particles of different sizes within the whole soil mixture to be considered.

Particle size designation and Behaviour Model

Solid particles within a soil are differentiated on the basis of size.

The engineering behaviour properties of a soil can subsequently be modelled to be either “fine grained” (also known as “cohesive” behaviour) or “coarse grained” (“non cohesive” behaviour), depending on the relative proportion of fine or coarse fractions in the soil mixture.

Particle Size Designation	Particle Size (mm)	Behaviour Model	
		Behaviour	Approximate Dry Mass
Boulder	>200	Excluded from particle behaviour model as “oversize”	
Cobble	63 - 200		
Gravel ¹	2.36 - 63	Coarse	>65%
Sand ¹	0.075 - 2.36		
Silt	0.002 - 0.075	Fine	>35%
Clay	<0.002		

¹ – refer grain size subdivision descriptions below

The behaviour model boundaries defined above are not precise, and the material behaviour should be assumed from the name given to the material (which considers the particle fraction which dominates the behaviour, refer “component proportions” below), rather than strict observance of the proportions of particle sizes. For example, if a material is named a “Sandy CLAY”, this is indicative that the material exhibits fine grained behaviour, even if the dry mass of coarse grained material may exceed 65%.

Component proportions

The relative proportion of the dry mass of each particle size fraction is assessed to be a “primary”, “secondary”, or “minor” component of the soil mixture, depending on its influence over the soil behaviour.

Component Proportion Designation	Definition ¹	Relative Proportion	
		In Fine Grained Soil	In Coarse Grained Soil
Primary	The component (particle size designation, refer above) which dominates the engineering behaviour of the soil	The clay/silt component with the greater proportion	The sand/gravel component with the greater proportion
Secondary	Any component which is not the primary, but is significant to the engineering properties of the soil	Any component with greater than 30% proportion	Any granular component with greater than 30%; or Any fine component with greater than 12%
Minor ²	Present in the soil, but not significant to its engineering properties	All other components	All other components

¹ As defined in AS1726-2017 6.1.4.4

² In the detailed material description, minor components are split into two further sub-categories. Refer “identification of minor components” below.

Composite Materials

In certain situations, a lithology description may describe more than one material, for example, collectively describing a layer of interbedded sand and clay. In such a scenario, the two materials would be described independently, with the names preceded or followed by a statement describing the arrangement by which the materials co-exist. For example, “INTERBEDDED Silty CLAY AND SAND”.

Classification

The soil classification comprises a two character group symbol. The first character identifies the primary component. The second character identifies either the grading or presence of fines in a coarse grained soil, or the plasticity in a fine grained soil. Refer AS1726-2017 6.1.6 for further clarification.

Soil Name

For most soils, the name is derived with the primary component included as the noun (in upper case), preceded by any secondary components stated in an adjective form. In this way, the soil name also describes the general composition and indicates the dominant behaviour of the material.

Component ¹	Prominence in Soil Name
Primary	Noun (eg "CLAY")
Secondary	Adjective modifier (eg "Sandy")
Minor	No influence

¹ – for determination of component proportions, refer component proportions on previous page

For materials which cannot be disaggregated, or which are not comprised of rock or mineral fragments, the names "ORGANIC MATTER" or "ARTIFICIAL MATERIAL" may be used, in accordance with AS1726-2017 Table 14.

Commercial or colloquial names are not used for the soil name where a component derived name is possible (for example "Gravelly SAND" rather than "CRACKER DUST").

Materials of "fill" or "topsoil" origin are generally assigned a name derived from the primary/secondary component (where appropriate). In log descriptions this is preceded by uppercase "FILL" or "TOPSOIL". Origin uncertainty is indicated in the description by the characters (?), with the degree of uncertainty described (using the terms "probably" or "possibly" in the origin column, or at the end of the description).

Identification of minor components

Minor components are identified in the soil description immediately following the soil name. The minor component fraction is usually preceded with a term indicating the relative proportion of the component.

Minor Component Proportion Term	Relative Proportion	
	In Fine Grained Soil	In Coarse Grained Soil
With	All fractions: 15-30%	Clay/silt: 5-12% sand/gravel: 15-30%
Trace	All fractions: 0-15%	Clay/silt: 0-5% sand/gravel: 0-15%

The terms "with" and "trace" generally apply only to gravel or fine particle fractions. Where cobbles/boulders are encountered in minor proportions (generally less than about 12%) the term "occasional" may be used. This term describes the sporadic distribution of the material within the confines of the investigation excavation only, and there may be considerable variation in proportion over a wider area which is difficult to factually characterise due to the relative size of the particles and the investigation methods.

Soil Composition

Plasticity

Descriptive Term	Laboratory liquid limit range	
	Silt	Clay
Non-plastic materials	Not applicable	Not applicable
Low plasticity	≤50	≤35
Medium plasticity	Not applicable	>35 and ≤50
High plasticity	>50	>50

Note, Plasticity descriptions generally describe the plasticity behaviour of the whole of the fine grained soil, not individual fine grained fractions.

Grain Size

Type	Particle size (mm)	
	Gravel	Sand
Gravel	Coarse	19 - 63
	Medium	6.7 - 19
	Fine	2.36 - 6.7
Sand	Coarse	0.6 - 2.36
	Medium	0.21 - 0.6
	Fine	0.075 - 0.21

Grading

Grading Term	Particle size (mm)
Well	A good representation of all particle sizes
Poorly	An excess or deficiency of particular sizes within the specified range
Uniformly	Essentially of one size
Gap	A deficiency of a particular size or size range within the total range

Note, AS1726-2017 provides terminology for additional attributes not listed here.

Soil Condition

Moisture

The moisture condition of soils is assessed relative to the plastic limit for fine grained soils, while for coarse grained soils it is assessed based on the appearance and feel of the material. The moisture condition of a material is considered to be independent of stratigraphy (although commonly these are related), and this data is presented in its own column on logs.

Applicability	Term	Tactile Assessment	Abbreviation code
Fine	Dry of plastic limit	Hard and friable or powdery	w<PL
	Near plastic limit	Can be moulded	w=PL
	Wet of plastic limit	Water residue remains on hands when handling	w>PL
	Near liquid limit	"oozes" when agitated	w=LL
	Wet of liquid limit	"oozes"	w>LL
Coarse	Dry	Non-cohesive and free running	D
	Moist	Feels cool, darkened in colour, particles may stick together	M
	Wet	Feels cool, darkened in colour, particles may stick together, free water forms when handling	W

The abbreviation code **NDF**, meaning "not-assessable due to drilling fluid use" may also be used.

Note, observations relating to free ground water or drilling fluids are provided independent of soil moisture condition.

Consistency/Density/Compaction/Cementation/Extremely Weathered Material

These concepts give an indication of how the material may respond to applied forces (when considered in conjunction with other attributes of the soil). This behaviour can vary independent of the composition of the material, and on logs these are described in an independent column and are generally mutually exclusive (i.e it is inappropriate to describe both consistency and compaction at the same time). The method by which the behaviour is described depends on the behaviour model and other characteristics of the soil as follows:

- In fine grained soils, the "consistency" describes the ease with which the soil can be remoulded, and is generally correlated against the materials undrained shear strength;
- In granular materials, the relative density describes how tightly packed the particles are, and is generally correlated against the density index;
- In anthropogenically modified materials, the compaction of the material is described qualitatively;
- In cemented soils (both natural and anthropogenic), the cemented "strength" is described qualitatively, relative to the difficulty with which the material is disaggregated; and
- In soils of extremely weathered material origin, the engineering behaviour may be governed by relic rock features, and expected behaviour needs to be assessed based the overall material description.

Quantitative engineering performance of these materials may be determined by laboratory testing or estimated by correlated field tests (for example penetration or shear vane testing). In some cases, performance may be assessed by tactile or other subjective methods, in which case investigation logs will show the estimated value enclosed in round brackets, for example **(VS)**.

Consistency (fine grained soils)

Consistency Term	Tactile Assessment	Undrained Shear Strength (kPa)	Abbreviation Code
Very soft	Extrudes between fingers when squeezed	<12	VS
Soft	Mouldable with light finger pressure	>12 - ≤25	S
Firm	Mouldable with strong finger pressure	>25 - ≤50	F
Stiff	Cannot be moulded by fingers	>50 - ≤100	St
Very stiff	Indented by thumbnail	>100 - ≤200	VSt
Hard	Indented by thumbnail with difficulty	>200	H
Friable	Easily crumbled or broken into small pieces by hand	-	Fr

Relative Density (coarse grained soils)

Relative Density Term	Density Index	Abbreviation Code
Very loose	<15	VL
Loose	>15 - ≤35	L
Medium dense	>35 - ≤65	MD
Dense	>65 - ≤85	D
Very dense	>85	VD

Note, tactile assessment of relative density is difficult, and generally requires penetration testing, hence a tactile assessment guide is not provided.

Compaction (anthropogenically modified soil)

Compaction Term	Abbreviation Code
Well compacted	WC
Poorly compacted	PC
Moderately compacted	MC
Variably compacted	VC

Cementation (natural and anthropogenic)

Cementation Term	Abbreviation Code
Moderately cemented	MOD
Weakly cemented	WEK

Extremely Weathered Material

AS1726-2017 considers weathered material to be soil if the unconfined compressive strength is less than 0.6 MPa (i.e. less than very low strength rock). These materials may be identified as “extremely weathered material” in reports and by the abbreviation code **XWM** on log sheets. This identification is not correlated to any specific qualitative or quantitative behaviour, and the engineering properties of this material must therefore be assessed according to engineering principles with reference to any relic rock structure, fabric, or texture described in the description.

Soil Origin

Term	Description	Abbreviation Code
Residual	Derived from in-situ weathering of the underlying rock	RS
Extremely weathered material	Formed from in-situ weathering of geological formations. Has strength of less than ‘very low’ as per as1726 but retains the structure or fabric of the parent rock.	XWM
Alluvial	Deposited by streams and rivers	ALV
Fluvial	Deposited by channel fill and overbank (natural levee, crevasse splay or flood basin)	FLV
Estuarine	Deposited in coastal estuaries	EST
Marine	Deposited in a marine environment	MAR
Lacustrine	Deposited in freshwater lakes	LAC
Aeolian	Carried and deposited by wind	AEO
Colluvial	Soil and rock debris transported down slopes by gravity	COL
Slopewash	Thin layers of soil and rock debris gradually and slowly deposited by gravity and possibly water	SW
Topsoil	Mantle of surface soil, often with high levels of organic material	TOP
Fill	Any material which has been moved by man	FILL
Littoral	Deposited on the lake or seashore	LIT
Unidentifiable	Not able to be identified	UID

Cobbles and Boulders

The presence of particles considered to be “oversize” may be described using one of the following strategies:

- Oversize encountered in a minor proportion (when considered relative to the wider area) are noted in the soil description; or
- Where a significant proportion of oversize is encountered, the cobbles/boulders are described independent of the soil description, in a similar manner to composite soils (described above) but qualified with “MIXTURE OF”.

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Sampling and Testing

A record of samples retained, and field testing performed is usually shown on a Douglas Partners' log with samples appearing to the left of a depth scale, and selected field and laboratory testing (including results, where relevant) appearing to the right of the scale, as illustrated below:

SAMPLE			DEPTH (m)	TESTING	
SAMPLE REMARKS	TYPE	INTERVAL		TEST TYPE	RESULTS AND REMARKS
	SPT		1.0 1.45	SPT	4,9,11 N=20

Sampling

The type or intended purpose for which a sample was taken is indicated by the following abbreviation codes.

Sample Type	Code
Auger sample	A
Acid Sulfate sample	ASS
Bulk sample	B
Core sample	C
Disturbed sample	D
Environmental sample	ES
Driven Tube sample	DT
Gas sample	G
Piston sample	P
Sample from SPT test	SPT
Undisturbed tube sample	U ¹
Water sample	W
Material Sample	MT
Core sample for unconfined compressive strength testing	UCS

¹ – numeric suffixes indicate tube diameter/width in mm

The above codes only indicate that a sample was retained, and not that testing was scheduled or performed.

Field and Laboratory Testing

A record that field and laboratory testing was performed is indicated by the following abbreviation codes.

Test Type	Code
Pocket penetrometer (kPa)	PP
Photo ionisation detector (ppm)	PID
Standard Penetration Test x/y = x blows for y mm penetration HB = hammer bouncing HW = fell under weight of hammer	SPT
Shear vane (kPa)	V
Unconfined compressive strength, (MPa)	UCS
Point load test, (MPa), axial (A), diametric (D), irregular (I)	PLT(-)
Dynamic cone penetrometer, followed by blow count penetration increment in mm (cone tip, generally in accordance with AS1289.6.3.2)	DCP9/150
Perth sand penetrometer, followed by blow count penetration increment in mm (flat tip, generally in accordance with AS1289.6.3.3)	PSP/150
Dynamic probe super heavy, followed by blow count penetration increment in mm	DPSH/100

Groundwater Observations

	water seepage/inflow
	water seepage/outflow
	standing or observed water level
NFGWO	no free groundwater observed
OBS	observations obscured by drilling fluids

Drilling or Excavation Methods/Tools

The drilling/excavation methods used to perform the investigation may be shown either in a dedicated column down the left-hand edge of the log, or stated in the log footer. In some circumstances abbreviation codes may be used.

Method	Abbreviation Code
Direct Push	DP
Solid flight auger. Suffixes: /T = tungsten carbide tip, /V = v-shaped tip	AD ¹
Air Track	AT
Diatube	DT ¹
Hand auger	HA ¹
Hand tools (unspecified)	HAND
Existing exposure	X
Hollow flight auger	HSA ¹
HQ coring	HQ3
HMLC series coring	HMLC
NMLC series coring	NMLC
NQ coring	NQ3
PQ coring	PQ3
Predrilled	PD
Push tube	PT ¹
Ripping tyne/ripper	R
Rock roller	RR ¹
Rock breaker/hydraulic hammer	EH
Sonic drilling	SON ¹
Mud/blade bucket	MB ¹
Toothed bucket	TB ¹
Vibrocore	VC ¹
Vacuum excavation	VE
Wash bore (unspecified bit type)	WB ¹

¹ – numeric suffixes indicate tool diameter/width in mm

Appendix L

Field Notes

Certificate of Service and Calibration

Bladder Pump QED MP15 Micropurge Kit

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	QED MP15 Kit
Serial Number	Sample Pro Pump: 145106
Serial Number	MP15 Backpack: 1809
Client Name	Setareh Pourkazemi (Douglas Partners Pty Ltd)
Project Number	235719.01/511
Comments	1x Spare CO2 Bottle

Instrument Check			
Item	Test	Test Passed	Comments
MP15 Backpack Controller	Operation	✓	Controller operational
Gas Regulator	Condition	✓	No damage, good condition
Wrench and Tube Cutter	Condition	✓	Attached to the controller
Blue Coiled Hose	Condition	✓	No tears, clean, good condition
Tube Connection Fitting	Condition	✓	No damage
Black Canvas Bag	Condition	✓	No damage, clean
Sample Pro Pump	Condition	✓	No damage, decontaminated
Bladder	Condition	✓	1x New bladder included free of charge
Pump Fittings	Condition	✓	No damage, good condition
CO2 Gas Bottle	Check & Test	✓	1x CO2 bottle included free of charge
Kit Operation	Operation	✓	MP15 kit fully operational
Instructional Manual	-	✓	User manual included

Inclusions
The MP15 Kit should include the following items: - QED MP15 Backpack Controller, Blue Coiled Hose with Tube Connection Fitting, Wrench and Tube Cutter, Sample Pro Pump, 1x CO2 gas bottle fitted with the MP15 Backpack, Wire Cable Hand Reel and spares/accessories box - Additional CO2 gas bottles will be supplied upon request at an additional cost

Declaration
WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The pump has been decontaminated and cleaned upon return from the previous hire and is in good working order.

Checked By	William Pak
Calibration Date	18/02/2025
Calibration Due	18/08/2025

Project and Bore Installation Details					
Project Name / Site Location		Ultimo		NMLC	
Well Construction Details		Well ID	BH 1.1	Drilling Method	NDD/ADP
		Well Depth (m bgl)		Screened (m bgl)	2
Survey Information		Easting	333156.6	Northing	6249348.6
GW Level During Drilling			m bgl		
Contaminants/Comments					

Well Development Details			
Date / Time / Weather Conditions		12/02/25	
Purge Method / Equipment		Peri Pump	
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)
GW Level (pre-purge)		m bgl	Observed Well Depth
Height of Water Column (H)		m bgl	Estimated Bore Volume*
GW Level (post-purge)		m bgl	Total Volume Purged**
Appearance/Comments			

Sampling Details			
Date / Time / Weather Conditions		20/2/2025	
Sampling Method / Equipment		Bladder Pump	
WQM Model		YSI	
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)
GW Level (pre-micropurge)		m bgl	Observed Well Depth
Height of Water Column		m bgl	Estimated Bore Volume*
GW Level (post sample)		m bgl	Total Volume of Micro-Purged

Water Quality Parameters							
Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)*	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
		24.7	5.17	15.6	4.14	352.2	13.62
		23.9	5.67	15.5	4.14	353.4	12.84
			3.87	20.6	4.05	400.9	32.84
		23.4	-0.17	11.9	3.84	108.8	68.19
		23.2	-0.18	14.5	3.81	408.8	52.61
		23.2	-0.19	10.2	3.81	409.2	71.88
			-0.19	12.2	3.81	409.3	74.28
			-0.20	11.2	3.81	409.1	75.17
				12.2		409.4	

Notes: # Considered stabilised if three DO values are less than 0.5 mg/L ^ Considered stabilised if three Turbidity values are less than 5 NTU

Sample Details					
Sampling Depth (rationale)		m bgl			
Sample Observations (e.g. colour, sediment, sheen, odour)		light brown, some silt,			
Sample ID					
QAQC Samples		Replicate	Duplicate	Other	
Sample Containers		Amber glass	Plastic	PFAS (no teflon)	
Preservation / Filtration		Metals (F/UF) (HNO3)	Phenols/COD/NH3 (H2SO4)	Vials (HCl)	
		Ferrous/Ferric Iron (HCl)	Cyanides/Chromium (NaOH)	Other	
Comments					

*Estimated Well Volume = H * F	Std. Drilling Diameter	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

Project and Bore Installation Details					
Project Name / Site Location				Project Number	
Ultimo				231957.01	
Well Construction Details		Well ID	BH102	Drilling Method	NDD/AD/NMLC
		Well Depth (m bgl)	10.10	Screened (m bgl)	2
Survey Information		Easting	333148.3	Northing	6249336.8
GW Level During Drilling		m bgl			
Contaminants/Comments					

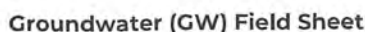
Well Development Details					
Date / Time / Weather Conditions				Purged By	
13/02/25				CSY	
Purge Method / Equipment					
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-purge)		m bgl	Observed Well Depth		m bgl
Height of Water Column (H)		m bgl	Estimated Bore Volume*		L
GW Level (post-purge)		m bgl	Total Volume Purged**		L
Appearance/Comments					

Sampling Details					
Date / Time / Weather Conditions				Sampled By	
20/02/25 / cloudy				SP	
Sampling Method / Equipment					
Bladder pump					
WQM Model		WQM Calibration Date			
YSI					
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-micropurge)		m bgl	Observed Well Depth		m bgl
Height of Water Column		m bgl	Estimated Bore Volume*		L
GW Level (post sample)		m bgl	Total Volume of Micro-Purged		L

Water Quality Parameters							
Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)*	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity*
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
		23	7.58	17.2	5.70	213.5	1763.51
		22.5	-0.07	653	5.15	236.9	201927
			-0.11	766	5.13	235.5	1976.22
			-0.16	754	5.15	232.3	
			-0.06	12.8	5.15		44.27
			-0.16	13.6	5.15	231.4	84.15
			-0.18	20.8			
			-0.17	18.4	5.13	230.7	37.82
Notes: # Considered stabilised if three DO values are less than 0.5 mg/L. * Considered stabilised if three Turbidity values are less than 5 NTU							

Sample Details					
Sampling Depth (rationale)		m bgl			
Sample Observations (e.g. colour, sediment, sheen, odour)					
brown / silty / no odour					
Sample ID					
BH102					
QAQC Samples		Replicate	Triplicate	Other	
Sample Containers		Amber glass	Plastic	PFAS (no teflon)	
Preservation / Filtration		Metals (F/UF) (HNO3)	Phenols/COD/NH3 (H2SO4)	Vials (HCl)	
		Ferrous/Ferric Iron (HCl)	Cyanides/Chromium (NaOH)	Other	
Comments					

*Estimated Well Volume = H * F	Std. Drilling Diameter	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

[illegible]

*Estimated Well Volume = H * F	Std. Drilling Diameter	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

- no PFAS sample collect
- sample for metal not filtered

Soil Vapour Sampling Sheet						
Project and Bore Installation Details						
Project Name:	Mount St. Ultimo					
Project Number:	231957.61					
Client:	APT					
Sample ID / Bore No.:	Sub station					
Site Location:						
GPS Co-ord:						
Elevation (RL, m AHD)						
Installation Date:	N/A					
Well / Pin Construction Details:	N/A					
Weather:	Humidity	Temperature			Barometric	
Canister Flow Controller:	mL/min					
Carbon / TD Tube Flow Controller:	mL/min		Type	Rotameter, flow flow adaptor and vacuum gauge		
Pump ID:						
Date/Time:	20.2.25					
Sampled By:	HT					
Purge Details / Field Readings						
Pre Purge PID Reading			ppm			
Bulk Gas readings	Time	Concentration (% v/v)			H ₂ S (ppm)	CO (ppm)
		CH ₄	CO ₂	O ₂		
Purge Method						
Post Purge PID Reading			ppm			
Approximate Volume Purged			L			
Pre-Start QA Tests						
Shut In Test						
	Canister			Carbon Tube / TD Setup		
Vacuum Applied			in Hg			kPa
Duration			min			min
Pass / Fail						
Leak Test						
	PID in Sample Train			PID in Shroud		
			ppm			ppm
Pass / Fail						
Sampling Details - Primary						
	Canister			Carbon Tube / TD Tube		
ID Number	10642			N/A		
Regulator Number	1825			N/A		
Start Time	1300		min			min
Start Vacuum	-30		in Hg			kPa
Stop Time	1410		min			min
Stop Vacuum	-22		in Hg			kPa
Approximate Sample Volume			mL			mL
			Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM)	
Sampling Details - Replicate						
	Canister			Carbon Tube / TD Tube		
ID Number				N/A		
Regulator Number				N/A		
Start Time			min			min
Start Vacuum			in Hg			kPa
Stop Time			min			min
Stop Vacuum			in Hg			kPa
Approximate Sample Volume			mL			mL
Sampling Details - Shroud						
Carbon / TD Tube ID						
Start Time			min			
Stop Time			min			
Sample Time			min			
Approximate Sample Volume			mL			
Comments / Observations:						

Soil Vapour Sampling Sheet						
Project and Bore Installation Details						
Project Name:	Mount St, Ultimo					
Project Number:	231957.01					
Client:	APT					
Sample ID / Bore No.:	105A					
Site Location:						
GPS Co-ord:						
Elevation (RL, m AHD)						
Installation Date:						
Well / Pin Construction Details						
Weather	Humidity	Temperature		Barometric		
Canister Flow Controller	mL/min					
Carbon / TD Tube Flow Controller	100	mL/min	Type	Rotameter, flow flow adaptor and vacuum gauge		
Pump ID	3/110 14528213					
Date/Time:						
Sampled By:	H7/SK					
Purge Details / Field Readings						
Pre Purge PID Reading			ppm			
Bulk Gas readings	Time	Concentration (% v/v)			H ₂ S (ppm)	CO (ppm)
		CH ₄	CO ₂	O ₂		
	10:55	0	8	14.2	0	0
	10:58	0	8	9.6	0	0
	11:03	0	0	12.2	0	0
	11:07	0	0	13.8	0	0
Purge Method	Pump					
Post Purge PID Reading	0		ppm		0	
Approximate Volume Purged	4m 0.5		L			
Pre-Start QA Tests						
Shut In Test						
	Canister		Carbon Tube / TD Setup			
Vacuum Applied	30 / 28		in Hg		-0.8 kPa	
Duration	5		min		5 min	
Pass / Fail						
Leak Test						
	PID in Sample Train		PID in Shroud			
	0		ppm		23 ppm	
Pass / Fail	Pass					
Sampling Details - Primary						
	Canister		Carbon Tube / TD Tube			
ID Number	3535		0198811686			
Regulator Number	403		N/A			
Start Time	12:30		min		12:09 min	
Start Vacuum	-30		in Hg		-0.3 kPa	
Stop Time	12:36		min		12:14 min	
Stop Vacuum	-7		in Hg		-0.3 kPa	
Approximate Sample Volume	mL		mL		500 mL	
Note: recommended end vacuum of -7 in Hg (~75% full)			Note: recommended < 2.5 kPa induced vacuum (ASTM)			
Sampling Details - Replicate						
	Canister		Carbon Tube / TD Tube			
ID Number	3541		0198811686			
Regulator Number	418		N/A			
Start Time	12:30		min		12:09 min	
Start Vacuum	-28		in Hg		-0.3 kPa	
Stop Time	12:36		min		12:14 min	
Stop Vacuum	-8		in Hg		-0.3 kPa	
Approximate Sample Volume	mL		mL		500 mL	
Sampling Details - Shroud						
Carbon / TD Tube ID	0198821505					
Start Time	12:31		min		100mL	
Stop Time	12:36		min			
Sample Time	500 5		min			
Approximate Sample Volume	500		mL			
Comments / Observations:						

100mL/min

5m

100mL

Appendix M

Laboratory Analysis Certificates

CERTIFICATE OF ANALYSIS 373760

Client Details

Client	Douglas Partners Pty Ltd
Attention	Setareh Pourkazemi
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>231957.01</u>
Number of Samples	1 Air
Date samples received	21/02/2002
Date completed instructions received	21/02/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	07/03/2025
Date of Issue	04/03/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Amanda Chui, LC/Air Toxics Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

TO15 in Canisters/Bags		
Our Reference		373760-1
Your Reference	UNITS	Sub-AB01
Date Sampled		20/02/2025
Type of sample		Air
Air Kit Security No.		10642
Vacuum before Shipment	Hg"	-30
Vacuum before Analysis	Hg"	-20
Date prepared	-	26/02/2025
Date analysed	-	28/02/2025
Propylene	ppbv	<1
Dichlorodifluoromethane	ppbv	<1
Chloromethane	ppbv	<1
1,2-Dichlorotetrafluoroethane	ppbv	<1
Vinyl chloride	ppbv	<1
1,3-Butadiene	ppbv	<1
Bromomethane	ppbv	<1
Chloroethane	ppbv	<1
Ethanol	ppbv	10
Acrolein	ppbv	<10
Trichlorofluoromethane (Freon 11)	ppbv	<1
Acetone	ppbv	<10
Isopropyl Alcohol	ppbv	20
1,1-Dichloroethene	ppbv	<1
1,1,2-Trichlorotrifluoroethane	ppbv	<1
Methylene chloride (Dichloromethane)	ppbv	<10
Carbon Disulfide	ppbv	<10
trans-1,2-dichloroethene	ppbv	<1
MTBE	ppbv	<1
1,1- Dichloroethane	ppbv	<1
Vinyl Acetate	ppbv	<1
MEK	ppbv	<10
Hexane	ppbv	<1
cis-1,2-Dichloroethene	ppbv	<1
Ethyl Acetate	ppbv	<1
Chloroform	ppbv	<1
Tetrahydrofuran	ppbv	<1
1,1,1-Trichloroethane	ppbv	<1
1,2-Dichloroethane	ppbv	<1
Benzene	ppbv	<1
Carbon tetrachloride	ppbv	<1

TO15 in Canisters/Bags		
Our Reference		373760-1
Your Reference	UNITS	Sub-AB01
Date Sampled		20/02/2025
Type of sample		Air
Air Kit Security No.		10642
Cyclohexane	ppbv	<1
Heptane	ppbv	<1
Trichloroethene	ppbv	<1
1,2-Dichloropropane	ppbv	<1
1,4-Dioxane	ppbv	<1
Bromodichloromethane	ppbv	<1
Methyl Methacrylate	ppbv	<1
MIBK	ppbv	<10
cis-1,3-Dichloropropene	ppbv	<1
trans-1,3-Dichloropropene	ppbv	<1
Toluene	ppbv	<1
1,1,2-Trichloroethane	ppbv	<1
Methyl Butyl Ketone	ppbv	<1
Dibromochloromethane	ppbv	<1
Tetrachloroethene	ppbv	<1
1,2-Dibromoethane	ppbv	<1
Chlorobenzene	ppbv	<1
Ethylbenzene	ppbv	<1
m- & p-Xylene	ppbv	<2
Styrene	ppbv	<1
o-Xylene	ppbv	<1
Bromoform	ppbv	<1
1,1,2,2-Tetrachloroethane	ppbv	<1
4-ethyl toluene	ppbv	<1
1,3,5-Trimethylbenzene	ppbv	<1
1,2,4-Trimethylbenzene	ppbv	<1
1,3-Dichlorobenzene	ppbv	<1
Benzyl chloride	ppbv	<1
1,4-Dichlorobenzene	ppbv	<1
1,2-Dichlorobenzene	ppbv	<1
1,2,4-Trichlorobenzene	ppbv	<1
Naphthalene	ppbv	<1
Hexachloro- 1,3-butadiene	ppbv	<1
Surrogate-Bromochloromethane	% rec	100
Surrogate -1,4-Difluorobenzene	% rec	101
Surrogate-Chlorobenzene-D5	% rec	99

TO15 in Canisters µg/m3		
Our Reference		373760-1
Your Reference	UNITS	Sub-AB01
Date Sampled		20/02/2025
Type of sample		Air
Air Kit Security No.		10642
Vacuum before Shipment	Hg"	-30
Vacuum before Analysis	Hg"	-20
Date prepared	-	26/02/2025
Date analysed	-	28/02/2025
Propylene	µg/m ³	<2
Dichlorodifluoromethane	µg/m ³	<5
Chloromethane	µg/m ³	<2
1,2-Dichlorotetrafluoroethane	µg/m ³	<5
Vinyl chloride	µg/m ³	<3
1,3-Butadiene	µg/m ³	<2
Bromomethane	µg/m ³	<4
Chloroethane	µg/m ³	<3
Ethanol	µg/m ³	20
Acrolein	µg/m ³	<20
Trichlorofluoromethane (Freon 11)	µg/m ³	<6
Acetone	µg/m ³	<20
Isopropyl Alcohol	µg/m ³	50
1,1-Dichloroethene	µg/m ³	<4
1,1,2-Trichlorotrifluoroethane	µg/m ³	<8
Methylene chloride (Dichloromethane)	µg/m ³	<30
Carbon Disulfide	µg/m ³	<30
trans-1,2-dichloroethene	µg/m ³	<4
MTBE	µg/m ³	<4
1,1- Dichloroethane	µg/m ³	<4
Vinyl Acetate	µg/m ³	<4
MEK	µg/m ³	<30
Hexane	µg/m ³	<4
cis-1,2-Dichloroethene	µg/m ³	<4
Ethyl Acetate	µg/m ³	<4
Chloroform	µg/m ³	<5
Tetrahydrofuran	µg/m ³	<3
1,1,1-Trichloroethane	µg/m ³	<5
1,2-Dichloroethane	µg/m ³	<4
Benzene	µg/m ³	<3
Carbon tetrachloride	µg/m ³	<6

TO15 in Canisters µg/m3		
Our Reference		373760-1
Your Reference	UNITS	Sub-AB01
Date Sampled		20/02/2025
Type of sample		Air
Air Kit Security No.		10642
Cyclohexane	µg/m ³	<3
Heptane	µg/m ³	<4
Trichloroethene	µg/m ³	<5
1,2-Dichloropropane	µg/m ³	<5
1,4-Dioxane	µg/m ³	<4
Bromodichloromethane	µg/m ³	<7
Methyl Methacrylate	µg/m ³	<4
MIBK	µg/m ³	<40
cis-1,3-Dichloropropene	µg/m ³	<5
trans-1,3-Dichloropropene	µg/m ³	<5
Toluene	µg/m ³	<4
1,1,2-Trichloroethane	µg/m ³	<5
Methyl Butyl Ketone	µg/m ³	<4
Dibromochloromethane	µg/m ³	<3
Tetrachloroethene	µg/m ³	<7
1,2-Dibromoethane	µg/m ³	<8
Chlorobenzene	µg/m ³	<5
Ethylbenzene	µg/m ³	<4
m- & p-Xylene	µg/m ³	<9
Styrene	µg/m ³	<4
o-Xylene	µg/m ³	<4
Bromoform	µg/m ³	<10
1,1,2,2-Tetrachloroethane	µg/m ³	<7
4-ethyl toluene	µg/m ³	<5
1,3,5-Trimethylbenzene	µg/m ³	<5
1,2,4-Trimethylbenzene	µg/m ³	<5
1,3-Dichlorobenzene	µg/m ³	<6
Benzyl chloride	µg/m ³	<5
1,4-Dichlorobenzene	µg/m ³	<6
1,2-Dichlorobenzene	µg/m ³	<6
1,2,4-Trichlorobenzene	µg/m ³	<7
Naphthalene	µg/m ³	<5
Hexachloro- 1,3-butadiene	µg/m ³	<10
Surrogate-Bromochloromethane	% rec	100
Surrogate -1,4-Difluorobenzene	% rec	101
Surrogate-Chlorobenzene-D5	% rec	99

Method ID	Methodology Summary
TO15	USEPA TO15 - Analysis of VOC's in air using USEPA TO15 and in house method AT-002. Note, longer term stability of some oxygenated compounds is questionable where significant humidity is present.
USEPA 18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography using USEPA m18.

QUALITY CONTROL: TO15 in Canisters/Bags						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Vacuum before Shipment	Hg"			[NT]	1	-30	-30	0	[NT]	[NT]
Vacuum before Analysis	Hg"			[NT]	1	-20	-20	0	[NT]	[NT]
Date prepared	-			26/02/2025	1	26/02/2025	26/02/2025		26/02/2025	[NT]
Date analysed	-			28/02/2025	1	28/02/2025	28/02/2025		28/02/2025	[NT]
Propylene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	106	[NT]
Dichlorodifluoromethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Chloromethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,2-Dichlorotetrafluoroethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Vinyl chloride	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,3-Butadiene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Bromomethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Chloroethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Ethanol	ppbv	5	TO15	<5	1	10	<10	0	[NT]	[NT]
Acrolein	ppbv	5	TO15	<5	1	<10	<10	0	[NT]	[NT]
Trichlorofluoromethane (Freon 11)	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Acetone	ppbv	5	TO15	<5	1	<10	<10	0	[NT]	[NT]
Isopropyl Alcohol	ppbv	5	TO15	<5	1	20	20	0	[NT]	[NT]
1,1-Dichloroethene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,1,2-Trichlorotrifluoroethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Methylene chloride (Dichloromethane)	ppbv	5	TO15	<5	1	<10	<10	0	[NT]	[NT]
Carbon Disulfide	ppbv	5	TO15	<5	1	<10	<10	0	[NT]	[NT]
trans-1,2-dichloroethene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
MTBE	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,1- Dichloroethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Vinyl Acetate	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
MEK	ppbv	5	TO15	<5	1	<10	<10	0	[NT]	[NT]
Hexane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	82	[NT]
cis-1,2-Dichloroethene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Ethyl Acetate	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Chloroform	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Tetrahydrofuran	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,1,1-Trichloroethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,2-Dichloroethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Benzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	77	[NT]
Carbon tetrachloride	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Cyclohexane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	77	[NT]
Heptane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	123	[NT]

QUALITY CONTROL: TO15 in Canisters/Bags					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Trichloroethene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,2-Dichloropropane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,4-Dioxane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Bromodichloromethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Methyl Methacrylate	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
MIBK	ppbv	5	TO15	<5	1	<10	<10	0	[NT]	[NT]
cis-1,3-Dichloropropene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
trans-1,3-Dichloropropene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Toluene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	87	[NT]
1,1,2-Trichloroethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Methyl Butyl Ketone	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Dibromochloromethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Tetrachloroethene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,2-Dibromoethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Chlorobenzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Ethylbenzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	98	[NT]
m- & p-Xylene	ppbv	1	TO15	<1	1	<2	<2	0	106	[NT]
Styrene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	87	[NT]
o-Xylene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	100	[NT]
Bromoform	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,1,2,2-Tetrachloroethane	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
4-ethyl toluene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	99	[NT]
1,3,5-Trimethylbenzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	100	[NT]
1,2,4-Trimethylbenzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	95	[NT]
1,3-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Benzyl chloride	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,4-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,2-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
1,2,4-Trichlorobenzene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Naphthalene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Hexachloro- 1,3-butadiene	ppbv	0.5	TO15	<0.5	1	<1	<1	0	[NT]	[NT]
Surrogate-Bromochloromethane	% rec		TO15	99	1	100	101	1	107	[NT]
Surrogate -1,4-Difluorobenzene	% rec		TO15	97	1	101	102	1	105	[NT]
Surrogate-Chlorobenzene-D5	% rec		TO15	97	1	99	100	1	105	[NT]

QUALITY CONTROL: TO15 in Canisters µg/m3						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Vacuum before Shipment	Hg"			[NT]	1	-30	-30	0	[NT]	[NT]
Vacuum before Analysis	Hg"			[NT]	1	-20	-20	0	[NT]	[NT]
Date prepared	-			26/02/2025	1	26/02/2025	26/02/2025		[NT]	[NT]
Date analysed	-			28/02/2025	1	28/02/2025	28/02/2025		[NT]	[NT]
Propylene	µg/m³	0.9	TO15	<0.9	1	<2	<2	0	[NT]	[NT]
Dichlorodifluoromethane	µg/m³	2.5	TO15	<2.5	1	<5	<5	0	[NT]	[NT]
Chloromethane	µg/m³	1.0	TO15	<1.0	1	<2	<2	0	[NT]	[NT]
1,2-Dichlorotetrafluoroethane	µg/m³	2.5	TO15	<2.5	1	<5	<5	0	[NT]	[NT]
Vinyl chloride	µg/m³	1.3	TO15	<1.3	1	<3	<3	0	[NT]	[NT]
1,3-Butadiene	µg/m³	1.1	TO15	<1.1	1	<2	<2	0	[NT]	[NT]
Bromomethane	µg/m³	1.9	TO15	<1.9	1	<4	<4	0	[NT]	[NT]
Chloroethane	µg/m³	1.3	TO15	<1.3	1	<3	<3	0	[NT]	[NT]
Ethanol	µg/m³	9	TO15	<9	1	20	20	0	[NT]	[NT]
Acrolein	µg/m³	11	TO15	<11	1	<20	<20	0	[NT]	[NT]
Trichlorofluoromethane (Freon 11)	µg/m³	2.8	TO15	<2.8	1	<6	<6	0	[NT]	[NT]
Acetone	µg/m³	11.9	TO15	<11.9	1	<20	<20	0	[NT]	[NT]
Isopropyl Alcohol	µg/m³	12	TO15	<12	1	50	40	22	[NT]	[NT]
1,1-Dichloroethene	µg/m³	2.0	TO15	<2.0	1	<4	<4	0	[NT]	[NT]
1,1,2-Trichlorotrifluoroethane	µg/m³	3.8	TO15	<3.8	1	<8	<8	0	[NT]	[NT]
Methylene chloride (Dichloromethane)	µg/m³	17	USEPA 18	<17	1	<30	<30	0	[NT]	[NT]
Carbon Disulfide	µg/m³	16	TO15	<16	1	<30	<30	0	[NT]	[NT]
trans-1,2-dichloroethene	µg/m³	2.0	TO15	<2.0	1	<4	<4	0	[NT]	[NT]
MTBE	µg/m³	1.8	TO15	<1.8	1	<4	<4	0	[NT]	[NT]
1,1- Dichloroethane	µg/m³	2.0	TO15	<2.0	1	<4	<4	0	[NT]	[NT]
Vinyl Acetate	µg/m³	1.8	TO15	<1.8	1	<4	<4	0	[NT]	[NT]
MEK	µg/m³	15	TO15	<15	1	<30	<30	0	[NT]	[NT]
Hexane	µg/m³	1.8	TO15	<1.8	1	<4	<4	0	[NT]	[NT]
cis-1,2-Dichloroethene	µg/m³	2.0	TO15	<2.0	1	<4	<4	0	[NT]	[NT]
Ethyl Acetate	µg/m³	1.8	TO15	<1.8	1	<4	<4	0	[NT]	[NT]
Chloroform	µg/m³	2.4	TO15	<2.4	1	<5	<5	0	[NT]	[NT]
Tetrahydrofuran	µg/m³	1.5	TO15	<1.5	1	<3	<3	0	[NT]	[NT]
1,1,1-Trichloroethane	µg/m³	2.7	TO15	<2.7	1	<5	<5	0	[NT]	[NT]
1,2-Dichloroethane	µg/m³	2.0	TO15	<2.0	1	<4	<4	0	[NT]	[NT]
Benzene	µg/m³	1.6	TO15	<1.6	1	<3	<3	0	[NT]	[NT]
Carbon tetrachloride	µg/m³	3.1	TO15	<3.1	1	<6	<6	0	[NT]	[NT]
Cyclohexane	µg/m³	1.7	TO15	<1.7	1	<3	<3	0	[NT]	[NT]
Heptane	µg/m³	2.0	TO15	<2.0	1	<4	<4	0	[NT]	[NT]

QUALITY CONTROL: TO15 in Canisters µg/m3						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Trichloroethene	µg/m³	2.7	TO15	<2.7	1	<5	<5	0	[NT]	[NT]
1,2-Dichloropropane	µg/m³	2.3	TO15	<2.3	1	<5	<5	0	[NT]	[NT]
1,4-Dioxane	µg/m³	1.8	TO15	<1.8	1	<4	<4	0	[NT]	[NT]
Bromodichloromethane	µg/m³	3.4	TO15	<3.4	1	<7	<7	0	[NT]	[NT]
Methyl Methacrylate	µg/m³	2.0	TO15	<2.0	1	<4	<4	0	[NT]	[NT]
MIBK	µg/m³	20	TO15	<20	1	<40	<40	0	[NT]	[NT]
cis-1,3-Dichloropropene	µg/m³	2.3	TO15	<2.3	1	<5	<5	0	[NT]	[NT]
trans-1,3-Dichloropropene	µg/m³	2.3	TO15	<2.3	1	<5	<5	0	[NT]	[NT]
Toluene	µg/m³	1.9	TO15	<1.9	1	<4	<4	0	[NT]	[NT]
1,1,2-Trichloroethane	µg/m³	2.7	TO15	<2.7	1	<5	<5	0	[NT]	[NT]
Methyl Butyl Ketone	µg/m³	2.0	TO15	<2.0	1	<4	<4	0	[NT]	[NT]
Dibromochloromethane	µg/m³	1.6	TO15	<1.6	1	<3	<3	0	[NT]	[NT]
Tetrachloroethene	µg/m³	3.4	TO15	<3.4	1	<7	<7	0	[NT]	[NT]
1,2-Dibromoethane	µg/m³	3.8	TO15	<3.8	1	<8	<8	0	[NT]	[NT]
Chlorobenzene	µg/m³	2.3	TO15	<2.3	1	<5	<5	0	[NT]	[NT]
Ethylbenzene	µg/m³	2.2	TO15	<2.2	1	<4	<4	0	[NT]	[NT]
m-& p-Xylene	µg/m³	4.3	TO15	<4.3	1	<9	<9	0	[NT]	[NT]
Styrene	µg/m³	2.1	TO15	<2.1	1	<4	<4	0	[NT]	[NT]
o-Xylene	µg/m³	2.2	TO15	<2.2	1	<4	<4	0	[NT]	[NT]
Bromoform	µg/m³	5.2	TO15	<5.2	1	<10	<10	0	[NT]	[NT]
1,1,2,2-Tetrachloroethane	µg/m³	3.4	TO15	<3.4	1	<7	<7	0	[NT]	[NT]
4-ethyl toluene	µg/m³	2.5	TO15	<2.5	1	<5	<5	0	[NT]	[NT]
1,3,5-Trimethylbenzene	µg/m³	2.5	TO15	<2.5	1	<5	<5	0	[NT]	[NT]
1,2,4-Trimethylbenzene	µg/m³	2.5	TO15	<2.5	1	<5	<5	0	[NT]	[NT]
1,3-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<6	<6	0	[NT]	[NT]
Benzyl chloride	µg/m³	2.6	TO15	<2.6	1	<5	<5	0	[NT]	[NT]
1,4-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<6	<6	0	[NT]	[NT]
1,2-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<6	<6	0	[NT]	[NT]
1,2,4-Trichlorobenzene	µg/m³	3.7	TO15	<3.7	1	<7	<7	0	[NT]	[NT]
Naphthalene	µg/m³	2.6	TO15	<2.6	1	<5	<5	0	[NT]	[NT]
Hexachloro- 1,3-butadiene	µg/m³	5.3	TO15	<5.3	1	<10	<10	0	[NT]	[NT]
Surrogate-Bromochloromethane	% rec		TO15	99	1	100	101	1	[NT]	[NT]
Surrogate -1,4-Difluorobenzene	% rec		TO15	97	1	101	102	1	[NT]	[NT]
Surrogate-Chlorobenzene-D5	% rec		TO15	97	1	99	100	1	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

PQL has been raised due to the small volume of sample supplied.

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Setareh Pourkazemi

Sample Login Details

Your reference	231957.01
Envirolab Reference	373760
Date Sample Received	21/02/2002
Date Instructions Received	21/02/2025
Date Results Expected to be Reported	28/02/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Air
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	n/a
Cooling Method	Not applicable
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

Sample ID	TO15 in Canisters/Bags	TO15 in Canisters µg/m3
Sub-AB01	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 376087

Client Details

Client	Douglas Partners Pty Ltd
Attention	Nerilee Edwards
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>231957.01 Ultimo</u>
Number of Samples	1 Soil
Date samples received	20/03/2025
Date completed instructions received	20/03/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	21/03/2025
Date of Issue	21/03/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Loren Bardwell, Development Chemist
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

Acid Extractable metals in soil		
Our Reference		376087-1
Your Reference	UNITS	Bh103
Depth		1.3-1.5
Date Sampled		14/02/2025
Type of sample		Soil
Date prepared	-	20/03/2025
Date analysed	-	20/03/2025
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	7
Copper	mg/kg	14
Lead	mg/kg	51
Mercury	mg/kg	0.1
Nickel	mg/kg	2
Zinc	mg/kg	37

Moisture		
Our Reference	UNITS	376087-1
Your Reference		Bh103
Depth		1.3-1.5
Date Sampled		14/02/2025
Type of sample		Soil
Date prepared	-	20/03/2025
Date analysed	-	21/03/2025
Moisture	%	9.7

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES. Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate). Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Metals-021	Determination of Mercury by Cold Vapour AAS.

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	[NT]
Date prepared	-			20/03/2025	[NT]	[NT]	[NT]	[NT]	20/03/2025	[NT]
Date analysed	-			20/03/2025	[NT]	[NT]	[NT]	[NT]	20/03/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	116	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	103	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]

Result Definitions	
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
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The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

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Spikes for Physical and Aggregate Tests are not applicable.

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Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

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Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

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Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

[illegible]

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Nerilee Edwards

Sample Login Details

Your reference	231957.01 Ultimo
Envirolab Reference	376087
Date Sample Received	20/03/2025
Date Instructions Received	20/03/2025
Date Results Expected to be Reported	21/03/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Soil
Turnaround Time Requested	1 day
Temperature on Receipt (°C)	10
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

Sample ID	Acid Extractable metals in soil
Bh103-1.3-1.5	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

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Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Project: 231957.01	Suburb: Ultimo	To: Lab nameEurofins
Project Manager: Nerilee Edwards	Order Number:	Sampler: Chosum
Email: Nerilee.Edwards@douglaspartners.com.au setareh.pourkazemi@douglaspartners.com.au		Lab address: 179 Magowar Road, NSW 2145 Girrawah
Turnaround time: ☐ Standard ☐ 72 hour ☐ 48 hour ☒ 24 hour ☐ Same day		Attn: Name
Prior Storage: ☐ Fridge ☐ Freezer ☐ Esky ☐ Shelf		Lab phone:
Do samples contain 'potential' HBM? ☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		Lab email: EnviroSales@eurofins.com.au

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	C - glass P - plastic	8 Metals										
763	BD3/20250214	-	-	14.02.2025	S	G	x										

Metals to analyse:		LAB RECEIPT	
Number of samples in container:	Transported to laboratory by:	Lab Ref. No:	
Send results to: Douglas Partners Pty Ltd		Received by: <i>Bikamjit Singh</i>	
Address:	Phone:	Date & Time: 2013 4:10 pm	
Relinquished by:	Date:	Signed: <i>[Signature]</i>	

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarie QLD 4172 +61 7 3902 4600 NATA# 1261 Site# 20794 & 2780	1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road Penrose Auckland 1061 +64 9 526 4551 IANZ# 1327	Unit C1/4 Pacific Rise Mount Wellington Auckland 1061 +64 9 525 0568 IANZ# 1308	43 Detroit Drive Rolleston Christchurch 7675 +64 3 343 5201 IANZ# 1290	1277 Cameron Road Gate Pa Tauranga 3112 +64 9 525 0568 IANZ# 1402

Sample Receipt Advice

Company name: Douglas Partners (Syd)
Contact name: Nerilee Edwards
Project name: ULTIMO
Project ID: 231957.01
Turnaround time: 1 Day
Date/Time received: Mar 20, 2025 4:10 PM
Eurofins reference: 1200313

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ 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:

Adam Bateup on phone : or by email: Adam.Bateup@eurofinsanz.com

Results will be delivered electronically via email to Nerilee Edwards - nerilee.edwards@douglaspartners.com.au.

Note: A copy of these results will also be delivered to the general Douglas Partners (Syd) email address.



Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name:

Address:

Project Name:

Project ID:

Douglas Partners (Syd)

96 Hermitage Road

West Ryde

NSW 2114

ULTIMO

231957.01

Order No.:

Report #:

Phone:

Fax:

1200313

02 9809 0666

Received:

Due:

Priority:

Contact Name:

Mar 20, 2025 4:10 PM

Mar 21, 2025

1 Day

Nerilee Edwards

Eurofins Analytical Services Manager : Adam Bateup

Sample Detail						Metals M8	Moisture Set
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BD3/20250214	Mar 14, 2025		Soil	S25-Ma0048640	X	X
Test Counts						1	1

Douglas Partners (Syd)
96 Hermitage Road
West Ryde
NSW 2114



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: **Nerilee Edwards**

Report **1200313-S**
 Project name **ULTIMO**
 Project ID **231957.01**
 Received Date **Mar 20, 2025**

Client Sample ID			BD3/20250214
Sample Matrix			Soil
Eurofins Sample No.			S25- Ma0048640
Date Sampled			Mar 14, 2025
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	2.8
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	7.3
Copper	5	mg/kg	16
Lead	5	mg/kg	39
Mercury	0.1	mg/kg	0.2
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	40
Sample Properties			
% Moisture	1	%	7.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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

Metals M8

- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS

% Moisture

- Method: LTM-GEN-7080 Moisture

Testing Site

Sydney

Sydney

Extracted

Mar 21, 2025

Mar 21, 2025

Holding Time

28 Days

14 Days



web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 +61 7 3902 4600 NATA# 1261 Site# 20794 & 2780	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370 & 2554	Auckland 35 O'Rorke Road Penrose Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Focus) Unit C1/4 Pacific Rise Mount Wellington Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Road Gate Pa Tauranga 3112 +64 9 525 0568 IANZ# 1402
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Company Name: Douglas Partners (Syd)

Address: 96 Hermitage Road
West Ryde
NSW 2114

Project Name: ULTIMO

Project ID: 231957.01

Order No.:

Report #: 1200313

Phone: 02 9809 0666

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Received: Mar 20, 2025 4:10 PM

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Contact Name: Nerilee Edwards

Eurofins Analytical Services Manager : Adam Bateup

Sample Detail						Metals M8	Moisture Set
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BD3/20250214	Mar 14, 2025		Soil	S25-Ma0048640	X	X
Test Counts						1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	Colour: Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - 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.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

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%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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.
2. 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 are not data from your samples.
3. 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.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. 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									
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									
Heavy Metals									
Arsenic			%	89			80-120	Pass	
Cadmium			%	88			80-120	Pass	
Chromium			%	93			80-120	Pass	
Copper			%	90			80-120	Pass	
Lead			%	91			80-120	Pass	
Mercury			%	91			80-120	Pass	
Nickel			%	91			80-120	Pass	
Zinc			%	93			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S25-Ma0038187	NCP	%	94			75-125	Pass	
Cadmium	S25-Ma0038187	NCP	%	95			75-125	Pass	
Chromium	S25-Ma0038187	NCP	%	93			75-125	Pass	
Copper	S25-Ma0038187	NCP	%	107			75-125	Pass	
Lead	S25-Ma0038187	NCP	%	110			75-125	Pass	
Mercury	S25-Ma0038187	NCP	%	90			75-125	Pass	
Nickel	S25-Ma0038187	NCP	%	90			75-125	Pass	
Zinc	W25-Ma0041994	NCP	%	100			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S25-Ma0035046	NCP	mg/kg	13	10	20	30%	Pass	
Cadmium	S25-Ma0035046	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S25-Ma0035046	NCP	mg/kg	25	23	9.0	30%	Pass	
Copper	S25-Ma0035046	NCP	mg/kg	34	35	4.0	30%	Pass	
Lead	S25-Ma0035046	NCP	mg/kg	25	23	10	30%	Pass	
Mercury	S25-Ma0035046	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S25-Ma0035046	NCP	mg/kg	17	17	1.0	30%	Pass	
Zinc	S25-Ma0035046	NCP	mg/kg	64	66	3.0	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Ma0048644	NCP	%	4.2	3.6	16	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

Authorised by:

Nileshni Goundar	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Ryan Phillips	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

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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CERTIFICATE OF ANALYSIS 371281

Client Details

Client	Douglas Partners Pty Ltd
Attention	Nerilee Edwards
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>231957.01 Ultimo</u>
Number of Samples	34 Soil, 1 Water
Date samples received	24/01/2025
Date completed instructions received	24/01/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	03/02/2025
Date of Issue	03/02/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Asbestos Approved By

Analysed by Asbestos Approved Analyst: Amanda Lee
 Authorised by Asbestos Approved Signatory: Lucy Zhu

Authorised By

Nancy Zhang, Laboratory Manager

Results Approved By

Amanda Chui, LC/Air Toxics Supervisor
 Diego Bigolin, Inorganics Supervisor
 Dragana Tomas, Senior Chemist
 Giovanni Agosti, Group Technical Manager
 Liam Timmins, Organics Supervisor
 Lucy Zhu, Asbestos Supervisor
 Timothy Toll, Senior Chemist

vTRH(C6-C10)/BTEXN in Soil

Our Reference		371281-1	371281-3	371281-6	371281-7	371281-9
Your Reference	UNITS	BH101	BH101	BH102	BH102	BH103
Depth		0.1-0.3	0.9-1.1	0.35-0.55	0.8-1	0.1-0.3
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	100	92	97	84	88

vTRH(C6-C10)/BTEXN in Soil

Our Reference		371281-10	371281-12	371281-13	371281-14	371281-16
Your Reference	UNITS	BH104	BH104A	BH104A	BH105	BH105A
Depth		0.3-0.5	0.4-0.6	0.9-1.1	0.25-0.35	0.12-0.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	94	84	90	100

vTRH(C6-C10)/BTEXN in Soil

Our Reference		371281-17	371281-18	371281-19	371281-22	371281-24
Your Reference	UNITS	BH105A	BH105A	BH106	BH106	BH107
Depth		0.9-1.1	1.3-1.5	0.08-0.2	1.2-1.4	0.5-0.7
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	93	83	96	95

vTRH(C6-C10)/BTEXN in Soil

Our Reference		371281-25	371281-27	371281-29	371281-30	371281-32
Your Reference	UNITS	BH107	BH107	BH110	BH110	BD2/20250121
Depth		1-1.2	2.1-2.3	0.5-0.8	1.2-1.4	-
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	88	90	94	95

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		371281-33	371281-34
Your Reference	UNITS	TS	TB
Depth		-	-
Date Sampled		21/01/25	21/01/25
Type of sample		Soil	Soil
Date extracted	-	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025
TRH C ₆ - C ₉	mg/kg	[NA]	<25
TRH C ₆ - C ₁₀	mg/kg	[NA]	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	[NA]	<25
Benzene	mg/kg	96%	<0.2
Toluene	mg/kg	89%	<0.5
Ethylbenzene	mg/kg	100%	<1
m+p-xylene	mg/kg	95%	<2
o-Xylene	mg/kg	94%	<1
Naphthalene	mg/kg	[NA]	<1
Total +ve Xylenes	mg/kg	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	105	87

svTRH (C10-C40) in Soil						
Our Reference		371281-1	371281-3	371281-6	371281-7	371281-9
Your Reference	UNITS	BH101	BH101	BH102	BH102	BH103
Depth		0.1-0.3	0.9-1.1	0.35-0.55	0.8-1	0.1-0.3
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	01/02/2025	01/02/2025	01/02/2025	01/02/2025	01/02/2025
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	130	190	190	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	120	210	170	<100	140
Total +ve TRH (C10-C36)	mg/kg	250	410	360	<50	140
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	220	330	320	<100	200
TRH >C ₃₄ -C ₄₀	mg/kg	<100	280	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	220	610	320	<50	200
Surrogate o-Terphenyl	%	118	116	112	104	98

svTRH (C10-C40) in Soil						
Our Reference		371281-10	371281-12	371281-13	371281-14	371281-16
Your Reference	UNITS	BH104	BH104A	BH104A	BH105	BH105A
Depth		0.3-0.5	0.4-0.6	0.9-1.1	0.25-0.35	0.12-0.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	01/02/2025	01/02/2025	01/02/2025	01/02/2025	01/02/2025
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	380	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	230	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	610	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	540	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	110	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	650	<50
Surrogate o-Terphenyl	%	90	102	101	133	100

svTRH (C10-C40) in Soil

Our Reference		371281-17	371281-18	371281-19	371281-22	371281-24
Your Reference	UNITS	BH105A	BH105A	BH106	BH106	BH107
Depth		0.9-1.1	1.3-1.5	0.08-0.2	1.2-1.4	0.5-0.7
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	01/02/2025	01/02/2025	01/02/2025	01/02/2025	01/02/2025
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	105	102	101	104	99

svTRH (C10-C40) in Soil

Our Reference		371281-25	371281-27	371281-29	371281-30	371281-32
Your Reference	UNITS	BH107	BH107	BH110	BH110	BD2/20250121
Depth		1-1.2	2.1-2.3	0.5-0.8	1.2-1.4	-
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	01/02/2025	01/02/2025	01/02/2025	01/02/2025	01/02/2025
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	98	99	97	89	99

PAHs in Soil						
Our Reference		371281-1	371281-3	371281-6	371281-7	371281-9
Your Reference	UNITS	BH101	BH101	BH102	BH102	BH103
Depth		0.1-0.3	0.9-1.1	0.35-0.55	0.8-1	0.1-0.3
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	30/01/2025	31/01/2025	30/01/2025	31/01/2025	30/01/2025
Naphthalene	mg/kg	0.1	0.2	0.2	<0.1	0.1
Acenaphthylene	mg/kg	0.5	0.4	0.7	<0.1	0.2
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Fluorene	mg/kg	0.1	0.1	0.1	<0.1	0.1
Phenanthrene	mg/kg	3.2	1.2	1.7	<0.1	1.5
Anthracene	mg/kg	0.7	0.4	0.6	<0.1	0.5
Fluoranthene	mg/kg	6.0	5.4	17	<0.1	4.2
Pyrene	mg/kg	5.8	4.8	16	<0.1	4.6
Benzo(a)anthracene	mg/kg	2.7	3.4	7.8	<0.1	2.4
Chrysene	mg/kg	2.6	2.6	4.8	<0.1	2.3
Benzo(b,j+k)fluoranthene	mg/kg	5.2	5.2	7.8	<0.2	5.9
Benzo(a)pyrene	mg/kg	3.7	3.6	5.0	<0.05	4.2
Indeno(1,2,3-c,d)pyrene	mg/kg	2.6	1.4	3.7	<0.1	3.1
Dibenzo(a,h)anthracene	mg/kg	0.6	0.4	1	<0.1	0.8
Benzo(g,h,i)perylene	mg/kg	2.0	1.7	2.8	<0.1	2.7
Total +ve PAH's	mg/kg	36	31	70	<0.05	33
Benzo(a)pyrene TEQ calc (zero)	mg/kg	5.4	5.0	8.0	<0.5	6.2
Benzo(a)pyrene TEQ calc(half)	mg/kg	5.4	5.0	8.0	<0.5	6.2
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	5.4	5.0	8.0	<0.5	6.2
Surrogate <i>p</i> -Terphenyl-d14	%	106	109	109	125	104

PAHs in Soil						
Our Reference		371281-10	371281-12	371281-13	371281-14	371281-16
Your Reference	UNITS	BH104	BH104A	BH104A	BH105	BH105A
Depth		0.3-0.5	0.4-0.6	0.9-1.1	0.25-0.35	0.12-0.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	30/01/2025	31/01/2025	31/01/2025	30/01/2025	30/01/2025
Naphthalene	mg/kg	<0.1	<0.1	<0.1	0.4	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	2.2	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	0.9	<0.1
Phenanthrene	mg/kg	<0.1	0.9	0.6	17	0.1
Anthracene	mg/kg	<0.1	0.2	0.1	3.6	<0.1
Fluoranthene	mg/kg	0.1	1.6	1.0	30	0.2
Pyrene	mg/kg	0.2	1.7	1.0	26	0.3
Benzo(a)anthracene	mg/kg	0.1	0.8	0.5	10	0.2
Chrysene	mg/kg	0.1	0.9	0.5	8.9	0.2
Benzo(b,j+k)fluoranthene	mg/kg	0.3	1	0.9	12	0.3
Benzo(a)pyrene	mg/kg	0.3	1.1	0.59	8.1	0.4
Indeno(1,2,3-c,d)pyrene	mg/kg	0.3	0.4	0.3	5.2	0.3
Dibenzo(a,h)anthracene	mg/kg	<0.1	0.1	<0.1	3.4	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	0.9	0.4	4.3	0.2
Total +ve PAH's	mg/kg	1.6	10	5.9	130	2.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	1.5	0.8	14	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	1.5	0.8	14	0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	0.5	1.5	0.9	14	0.6
Surrogate p-Terphenyl-d14	%	106	115	113	103	106

PAHs in Soil						
Our Reference		371281-17	371281-18	371281-19	371281-22	371281-24
Your Reference	UNITS	BH105A	BH105A	BH106	BH106	BH107
Depth		0.9-1.1	1.3-1.5	0.08-0.2	1.2-1.4	0.5-0.7
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	31/01/2025	31/01/2025	30/01/2025	31/01/2025	30/01/2025
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	0.2	<0.1	0.2
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	1.6	<0.1	1.1
Anthracene	mg/kg	<0.1	<0.1	0.5	<0.1	0.3
Fluoranthene	mg/kg	<0.1	<0.1	3.7	<0.1	2.2
Pyrene	mg/kg	<0.1	<0.1	3.4	<0.1	2.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	1.9	<0.1	1.1
Chrysene	mg/kg	<0.1	<0.1	1.5	<0.1	1.0
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	3.4	<0.2	2.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	2.7	<0.05	2.0
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	1.8	<0.1	1.4
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	0.4	<0.1	0.2
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	1.3	<0.1	1
Total +ve PAH's	mg/kg	<0.05	<0.05	22	<0.05	15
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	3.8	<0.5	2.7
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	3.8	<0.5	2.7
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	3.8	<0.5	2.7
Surrogate <i>p</i> -Terphenyl-d14	%	125	124	105	120	99

PAHs in Soil						
Our Reference		371281-25	371281-27	371281-29	371281-30	371281-32
Your Reference	UNITS	BH107	BH107	BH110	BH110	BD2/20250121
Depth		1-1.2	2.1-2.3	0.5-0.8	1.2-1.4	-
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	31/01/2025	31/01/2025	30/01/2025	31/01/2025	31/01/2025
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.2	<0.1	<0.1	<0.1	0.6
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Fluoranthene	mg/kg	0.5	<0.1	0.3	<0.1	1.2
Pyrene	mg/kg	0.5	<0.1	0.3	<0.1	1.2
Benzo(a)anthracene	mg/kg	0.2	<0.1	0.2	<0.1	0.7
Chrysene	mg/kg	0.3	<0.1	0.2	0.1	0.7
Benzo(b,j+k)fluoranthene	mg/kg	0.5	<0.2	0.4	<0.2	1
Benzo(a)pyrene	mg/kg	0.3	<0.05	0.4	0.1	0.91
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	0.4
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	0.2	<0.1	0.6
Total +ve PAH's	mg/kg	3.0	<0.05	2.1	0.2	7.9
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	0.5	<0.5	1.3
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	0.6	<0.5	1.3
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	0.6	<0.5	1.3
Surrogate p-Terphenyl-d14	%	121	123	105	120	115

Organochlorine Pesticides in soil						
Our Reference		371281-1	371281-6	371281-9	371281-10	371281-14
Your Reference	UNITS	BH101	BH102	BH103	BH104	BH105
Depth		0.1-0.3	0.35-0.55	0.1-0.3	0.3-0.5	0.25-0.35
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	30/01/2025	30/01/2025	30/01/2025	30/01/2025	30/01/2025
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive Aldrin+Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	117	116	110	116	111

Organochlorine Pesticides in soil					
Our Reference		371281-16	371281-19	371281-24	371281-29
Your Reference	UNITS	BH105A	BH106	BH107	BH110
Depth		0.12-0.2	0.08-0.2	0.5-0.7	0.5-0.8
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	30/01/2025	30/01/2025	30/01/2025	30/01/2025
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Total Positive Aldrin+Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	114	115	108	116

Organophosphorus Pesticides in Soil						
Our Reference		371281-1	371281-6	371281-9	371281-10	371281-14
Your Reference	UNITS	BH101	BH102	BH103	BH104	BH105
Depth		0.1-0.3	0.35-0.55	0.1-0.3	0.3-0.5	0.25-0.35
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	30/01/2025	30/01/2025	30/01/2025	30/01/2025	30/01/2025
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	117	116	110	116	111

Organophosphorus Pesticides in Soil					
Our Reference		371281-16	371281-19	371281-24	371281-29
Your Reference	UNITS	BH105A	BH106	BH107	BH110
Depth		0.12-0.2	0.08-0.2	0.5-0.7	0.5-0.8
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	30/01/2025	30/01/2025	30/01/2025	30/01/2025
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	114	115	108	116

PCBs in Soil						
Our Reference		371281-1	371281-6	371281-9	371281-10	371281-14
Your Reference	UNITS	BH101	BH102	BH103	BH104	BH105
Depth		0.1-0.3	0.35-0.55	0.1-0.3	0.3-0.5	0.25-0.35
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	30/01/2025	30/01/2025	30/01/2025	30/01/2025	30/01/2025
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	103	103	99	101	101

PCBs in Soil					
Our Reference		371281-16	371281-19	371281-24	371281-29
Your Reference	UNITS	BH105A	BH106	BH107	BH110
Depth		0.12-0.2	0.08-0.2	0.5-0.7	0.5-0.8
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	30/01/2025	30/01/2025	30/01/2025	30/01/2025
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	101	100	95	103

Misc Soil - Inorg

Our Reference		371281-1	371281-6	371281-9	371281-10	371281-14
Your Reference	UNITS	BH101	BH102	BH103	BH104	BH105
Depth		0.1-0.3	0.35-0.55	0.1-0.3	0.3-0.5	0.25-0.35
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg

Our Reference		371281-16	371281-19	371281-24	371281-29
Your Reference	UNITS	BH105A	BH106	BH107	BH110
Depth		0.12-0.2	0.08-0.2	0.5-0.7	0.5-0.8
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5

Acid Extractable metals in soil

Our Reference		371281-1	371281-3	371281-6	371281-7	371281-9
Your Reference	UNITS	BH101	BH101	BH102	BH102	BH103
Depth		0.1-0.3	0.9-1.1	0.35-0.55	0.8-1	0.1-0.3
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Arsenic	mg/kg	12	5	9	<4	4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	7	10	9	8
Copper	mg/kg	340	28	240	7	31
Lead	mg/kg	430	110	330	21	30
Mercury	mg/kg	1.3	0.6	1	<0.1	0.1
Nickel	mg/kg	11	3	10	1	2
Zinc	mg/kg	530	510	400	93	29

Acid Extractable metals in soil

Our Reference		371281-10	371281-12	371281-13	371281-14	371281-16
Your Reference	UNITS	BH104	BH104A	BH104A	BH105	BH105A
Depth		0.3-0.5	0.4-0.6	0.9-1.1	0.25-0.35	0.12-0.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Arsenic	mg/kg	7	<4	<4	19	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	5	5	15	9
Copper	mg/kg	7	21	23	350	33
Lead	mg/kg	21	47	60	330	120
Mercury	mg/kg	<0.1	0.3	2.5	0.9	0.5
Nickel	mg/kg	1	3	4	15	3
Zinc	mg/kg	6	41	65	500	24

Acid Extractable metals in soil

Our Reference		371281-17	371281-18	371281-19	371281-22	371281-24
Your Reference	UNITS	BH105A	BH105A	BH106	BH106	BH107
Depth		0.9-1.1	1.3-1.5	0.08-0.2	1.2-1.4	0.5-0.7
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Arsenic	mg/kg	<4	4	<4	<4	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	14	17	7	12	8
Copper	mg/kg	5	3	440	<1	72
Lead	mg/kg	13	12	550	4	220
Mercury	mg/kg	0.1	0.1	0.7	<0.1	0.7
Nickel	mg/kg	1	1	5	1	5
Zinc	mg/kg	16	11	170	2	130

Acid Extractable metals in soil

Our Reference		371281-25	371281-27	371281-29	371281-30	371281-32
Your Reference	UNITS	BH107	BH107	BH110	BH110	BD2/20250121
Depth		1-1.2	2.1-2.3	0.5-0.8	1.2-1.4	-
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Arsenic	mg/kg	13	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	14	6	8	9
Copper	mg/kg	330	2	33	3	35
Lead	mg/kg	380	12	69	6	470
Mercury	mg/kg	0.8	<0.1	0.3	<0.1	2.0
Nickel	mg/kg	8	2	3	2	4
Zinc	mg/kg	290	15	47	3	270

Acid Extractable metals in soil			
Our Reference		371281-36	371281-37
Your Reference	UNITS	BH101 - [TRIPLICATE]	BH107 - [TRIPLICATE]
Depth		0.1-0.3	0.5-0.7
Date Sampled		21/01/25	21/01/25
Type of sample		Soil	Soil
Date prepared	-	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025
Arsenic	mg/kg	12	7
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	21	9
Copper	mg/kg	410	94
Lead	mg/kg	460	430
Mercury	mg/kg	1	0.6
Nickel	mg/kg	16	7
Zinc	mg/kg	510	170

Moisture						
Our Reference	UNITS	371281-1	371281-3	371281-5	371281-6	371281-7
Your Reference		BH101	BH101	BH102	BH102	BH102
Depth		0.1-0.3	0.9-1.1	0.16-0.18	0.35-0.55	0.8-1
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Moisture	%	10	15	16	15	13

Moisture						
Our Reference	UNITS	371281-9	371281-10	371281-12	371281-13	371281-14
Your Reference		BH103	BH104	BH104A	BH104A	BH105
Depth		0.1-0.3	0.3-0.5	0.4-0.6	0.9-1.1	0.25-0.35
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Moisture	%	13	18	13	16	13

Moisture						
Our Reference	UNITS	371281-16	371281-17	371281-18	371281-19	371281-22
Your Reference		BH105A	BH105A	BH105A	BH106	BH106
Depth		0.12-0.2	0.9-1.1	1.3-1.5	0.08-0.2	1.2-1.4
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Moisture	%	14	22	19	10	12

Moisture						
Our Reference	UNITS	371281-23	371281-24	371281-25	371281-27	371281-28
Your Reference		BH107	BH107	BH107	BH107	BH110
Depth		0.1-0.3	0.5-0.7	1-1.2	2.1-2.3	0-0.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Moisture	%	14	19	17	13	30

Moisture				
Our Reference		371281-29	371281-30	371281-32
Your Reference	UNITS	BH110	BH110	BD2/20250121
Depth		0.5-0.8	1.2-1.4	-
Date Sampled		21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025
Moisture	%	21	14	13

Asbestos ID - soils						
Our Reference	UNITS	371281-1	371281-3	371281-6	371281-7	371281-9
Your Reference		BH101	BH101	BH102	BH102	BH103
Depth		0.1-0.3	0.9-1.1	0.35-0.55	0.8-1	0.1-0.3
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	03/02/2025	03/02/2025	03/02/2025	03/02/2025	03/02/2025
Sample mass tested	g	Approx. 75g	Approx. 75g	Approx. 105g	Approx. 85g	Approx. 110g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected Synthetic mineral fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference	UNITS	371281-10	371281-12	371281-13	371281-14	371281-16
Your Reference		BH104	BH104A	BH104A	BH105	BH105A
Depth		0.3-0.5	0.4-0.6	0.9-1.1	0.25-0.35	0.12-0.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	03/02/2025	03/02/2025	03/02/2025	03/02/2025	03/02/2025
Sample mass tested	g	Approx. 105g	Approx. 75g	Approx. 90g	Approx. 65g	Approx. 80g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference	UNITS	371281-17	371281-19	371281-22	371281-24	371281-25
Your Reference		BH105A	BH106	BH106	BH107	BH107
Depth		0.9-1.1	0.08-0.2	1.2-1.4	0.5-0.7	1-1.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	03/02/2025	03/02/2025	03/02/2025	03/02/2025	03/02/2025
Sample mass tested	g	Approx. 100g	Approx. 80g	Approx. 30g	88.72g	Approx. 105g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	Nil	Nil	Nil	YES	Nil
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils		
Our Reference		371281-29
Your Reference	UNITS	BH110
Depth		0.5-0.8
Date Sampled		21/01/25
Type of sample		Soil
Date analysed	-	03/02/2025
Sample mass tested	g	Approx. 90g
Sample Description	-	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	Nil
Trace Analysis	-	No asbestos detected

PFAS in Soils Short						
Our Reference		371281-1	371281-5	371281-12	371281-16	371281-19
Your Reference	UNITS	BH101	BH102	BH104A	BH105A	BH106
Depth		0.1-0.3	0.16-0.18	0.4-0.6	0.12-0.2	0.08-0.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/01/2025	28/01/2025	28/01/2025	28/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025	29/01/2025	29/01/2025	29/01/2025
Perfluorobutanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.3	0.3	0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate ¹³ C ₈ PFOS	%	100	101	100	99	101
Surrogate ¹³ C ₂ PFOA	%	97	99	100	102	99
Extracted ISTD ¹³ C ₃ PFBS	%	98	97	94	95	96
Extracted ISTD ¹⁸ O ₂ PFHxS	%	101	98	97	98	94
Extracted ISTD ¹³ C ₄ PFOS	%	97	91	93	93	91
Extracted ISTD ¹³ C ₄ PFOA	%	99	93	93	94	93
Extracted ISTD ¹³ C ₂ 6:2FTS	%	95	95	91	90	109
Extracted ISTD ¹³ C ₂ 8:2FTS	%	110	112	99	96	120
Total Positive PFHxS & PFOS	µg/kg	0.3	0.3	0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	0.3	0.4	0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	0.3	0.4	0.1	<0.1	<0.1

PFAS in Soils Short			
Our Reference		371281-23	371281-28
Your Reference	UNITS	BH107	BH110
Depth		0.1-0.3	0-0.2
Date Sampled		21/01/25	21/01/25
Type of sample		Soil	Soil
Date prepared	-	29/01/2025	28/01/2025
Date analysed	-	29/01/2025	29/01/2025
Perfluorobutanesulfonic acid	µg/kg	<0.1	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	0.7
Perfluorooctanoic acid PFOA	µg/kg	<0.1	0.2
6:2 FTS	µg/kg	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2
Surrogate ¹³ C ₈ PFOS	%	98	101
Surrogate ¹³ C ₂ PFOA	%	101	104
Extracted ISTD ¹³ C ₃ PFBS	%	98	91
Extracted ISTD ¹⁸ O ₂ PFHxS	%	98	89
Extracted ISTD ¹³ C ₄ PFOS	%	96	86
Extracted ISTD ¹³ C ₄ PFOA	%	93	84
Extracted ISTD ¹³ C ₂ 6:2FTS	%	95	90
Extracted ISTD ¹³ C ₂ 8:2FTS	%	109	100
Total Positive PFHxS & PFOS	µg/kg	0.1	0.7
Total Positive PFOS & PFOA	µg/kg	0.1	0.9
Total Positive PFAS	µg/kg	0.1	0.9

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	371281-16
Date extracted	-			28/01/2025	1	28/01/2025	28/01/2025		28/01/2025	28/01/2025
Date analysed	-			29/01/2025	1	29/01/2025	29/01/2025		29/01/2025	29/01/2025
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	1	<25	<25	0	91	88
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	1	<25	<25	0	91	88
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	89	87
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	90	90
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	92	88
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	92	87
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	97	93
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	90	1	100	91	9	94	93

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	371281-27
Date extracted	-			[NT]	12	28/01/2025	31/01/2025		28/01/2025	31/01/2025
Date analysed	-			[NT]	12	29/01/2025	03/02/2025		29/01/2025	03/02/2025
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	12	<25	<25	0	89	96
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	12	<25	<25	0	89	96
Benzene	mg/kg	0.2	Org-023	[NT]	12	<0.2	<0.2	0	93	99
Toluene	mg/kg	0.5	Org-023	[NT]	12	<0.5	<0.5	0	85	101
Ethylbenzene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	89	93
m+p-xylene	mg/kg	2	Org-023	[NT]	12	<2	<2	0	89	90
o-Xylene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	94	99
Naphthalene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	12	94	94	0	99	92

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	24	28/01/2025	28/01/2025		[NT]	[NT]
Date analysed	-			[NT]	24	29/01/2025	29/01/2025		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	24	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	24	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	24	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	24	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	24	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	24	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	24	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	24	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	24	95	97	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	371281-16
Date extracted	-			28/01/2025	1	28/01/2025	28/01/2025		28/01/2025	28/01/2025
Date analysed	-			01/02/2025	1	01/02/2025	01/02/2025		01/02/2025	01/02/2025
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	1	<50	<50	0	120	112
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	1	130	110	17	101	101
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	1	120	110	9	124	96
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	1	<50	<50	0	120	112
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	1	220	190	15	101	101
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	1	<100	<100	0	124	96
Surrogate o-Terphenyl	%		Org-020	115	1	118	109	8	99	100

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	[NT]
Date extracted	-			[NT]	24	28/01/2025	28/01/2025		28/01/2025	[NT]
Date analysed	-			[NT]	24	01/02/2025	01/02/2025		01/02/2025	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	24	<50	<50	0	130	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	24	<100	<100	0	96	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	24	<100	<100	0	96	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	24	<50	<50	0	130	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	24	<100	<100	0	96	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	24	<100	<100	0	96	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	24	99	88	12	93	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	371281-16
Date extracted	-			28/01/2025	1	28/01/2025	28/01/2025		28/01/2025	28/01/2025
Date analysed	-			31/01/2025	1	30/01/2025	30/01/2025		30/01/2025	30/01/2025
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	0.1	0.1	0	87	75
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	0.5	0.5	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	91	79
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	0.1	0.1	0	80	74
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	3.2	2.3	33	87	96
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.7	0.6	15	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	6.0	5.3	12	87	132
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	5.8	5.3	9	88	136
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	2.7	2.8	4	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	2.6	2.6	0	83	119
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	5.2	5.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	3.7	3.7	0	104	115
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	2.6	2.6	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.6	0.6	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	2.0	2.0	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	115	1	106	106	0	112	104

QUALITY CONTROL: PAHs in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	[NT]
Date extracted	-			[NT]	24	28/01/2025	28/01/2025		28/01/2025	[NT]
Date analysed	-			[NT]	24	30/01/2025	30/01/2025		30/01/2025	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	90	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	24	0.2	0.1	67	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	93	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	84	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	24	1.1	0.5	75	91	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	24	0.3	0.2	40	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	24	2.2	1.3	51	90	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	24	2.1	1.2	55	90	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	24	1.1	0.7	44	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	24	1.0	0.6	50	87	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	24	2.2	1	75	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	24	2.0	1.4	35	104	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	24	1.4	1	33	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	24	0.2	0.2	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	24	1	0.7	35	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	24	99	102	3	107	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	371281-16
Date extracted	-			28/01/2025	1	28/01/2025	28/01/2025		28/01/2025	28/01/2025
Date analysed	-			31/01/2025	1	30/01/2025	30/01/2025		30/01/2025	30/01/2025
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	89	82
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	87	70
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	72
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	83	82
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	86
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	77
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	87
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	84
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	86
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	83	65
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	128	1	117	114	3	121	113

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	[NT]
Date extracted	-			[NT]	24	28/01/2025	28/01/2025		28/01/2025	[NT]
Date analysed	-			[NT]	24	30/01/2025	30/01/2025		30/01/2025	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	94	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	94	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	99	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	85	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	104	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	91	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	100	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	102	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	97	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	84	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	24	108	111	3	115	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	371281-16
Date extracted	-			28/01/2025	1	28/01/2025	28/01/2025		28/01/2025	28/01/2025
Date analysed	-			31/01/2025	1	30/01/2025	30/01/2025		30/01/2025	30/01/2025
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	76
Mevinphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	90	71
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	87
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	123	84
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	80
Fenthion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	82
Bromophos-ethyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	75
Phosalone	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	128	1	117	114	3	121	113

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	[NT]
Date extracted	-			[NT]	24	28/01/2025	28/01/2025		28/01/2025	[NT]
Date analysed	-			[NT]	24	30/01/2025	30/01/2025		30/01/2025	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	107	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	94	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	115	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	127	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	95	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	100	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	97	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	24	108	111	3	115	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	371281-16
Date extracted	-			28/01/2025	1	28/01/2025	28/01/2025		28/01/2025	28/01/2025
Date analysed	-			31/01/2025	1	30/01/2025	30/01/2025		30/01/2025	30/01/2025
Aroclor 1016	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	94	80
Aroclor 1260	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	115	1	103	102	1	108	104

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	[NT]
Date extracted	-			[NT]	24	28/01/2025	28/01/2025		28/01/2025	[NT]
Date analysed	-			[NT]	24	30/01/2025	30/01/2025		30/01/2025	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	24	<0.1	<0.1	0	96	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	24	95	98	3	109	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	371281-1
Date prepared	-			29/01/2025	1	28/01/2025	28/01/2025		29/01/2025	29/01/2025
Date analysed	-			29/01/2025	1	29/01/2025	29/01/2025		29/01/2025	29/01/2025
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	102	93

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	371281-16
Date prepared	-			28/01/2025	1	28/01/2025	28/01/2025		28/01/2025	28/01/2025
Date analysed	-			29/01/2025	1	29/01/2025	29/01/2025		29/01/2025	29/01/2025
Arsenic	mg/kg	4	Metals-020	<4	1	12	13	8	106	86
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	97	75
Chromium	mg/kg	1	Metals-020	<1	1	12	14	15	100	81
Copper	mg/kg	1	Metals-020	<1	1	340	630	60	101	87
Lead	mg/kg	1	Metals-020	<1	1	430	720	50	98	#
Mercury	mg/kg	0.1	Metals-021	<0.1	1	1.3	1.1	17	107	108
Nickel	mg/kg	1	Metals-020	<1	1	11	16	37	100	79
Zinc	mg/kg	1	Metals-020	<1	1	530	480	10	100	76

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	[NT]
Date prepared	-			[NT]	24	28/01/2025	28/01/2025		28/01/2025	[NT]
Date analysed	-			[NT]	24	29/01/2025	29/01/2025		29/01/2025	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	24	5	6	18	107	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	24	<0.4	<0.4	0	98	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	24	8	10	22	100	[NT]
Copper	mg/kg	1	Metals-020	[NT]	24	72	88	20	101	[NT]
Lead	mg/kg	1	Metals-020	[NT]	24	220	330	40	98	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	24	0.7	0.6	15	113	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	24	5	6	18	100	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	24	130	140	7	100	[NT]

QUALITY CONTROL: PFAS in Soils Short					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			28/01/2025	[NT]	[NT]	[NT]	[NT]	28/01/2025	[NT]
Date analysed	-			29/01/2025	[NT]	[NT]	[NT]	[NT]	29/01/2025	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	103	[NT]

Result Definitions	
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

PAHs in Soil - The RPD for duplicate results is accepted due to the non homogenous nature of sample/s 371281-24.

Acid Extractable Metals in Soil:

- The laboratory RPD acceptance criteria has been exceeded for 371281-1 for Cu & Pb. Therefore a triplicate result has been issued as laboratory sample number 371281-36.
- The laboratory RPD acceptance criteria has been exceeded for 371281-24 for Pb. Therefore a triplicate result has been issued as laboratory sample number 371281-37.
- # Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to ASB-001 asbestos subsampling procedure. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab/MPL recommends supplying 40-60g or 500ml of sample in its own container.

Note: Sample 371281-22 was sub-sampled from a jar provided by the client.

Note: Samples 371281-1, 3, 6, 7, 9, 10, 12, 13, 14, 16, 17, 19, 24, 25, 29 were sub-sampled from bags provided by the client.

Sample 371281-24; Chrysotile asbestos identified embedded in a fragment of fibre cement weighing 0.7640g, it is estimated to be 1.29g/kg in 88.72g of soil (i.e. > reporting limit for the method of 0.1g/kg).

CHAIN OF CUSTODY DESPATCH SHEET

Loc: 24/1/25 1129

Project No: 231957.01	Suburb: Ultimo	To: Envirolab Services
Project Manager: Nerilee Edwards	Order Number:	Sampler: SP
Email: Nerilee.Edwards@douglaspartners.com.au - setareh.pourkazemi@douglaspartners.com.au	Attn: Sample Receipt	
Turnaround time: ☒ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day	(02) 9910 6200 samplerreceipt@envirolab.com	

Prior Storage: ☒ Fridge ☐ Freezer ☐ Esky ☐ Shelf **Do samples contain 'potential' HBM?** ☐ No ☒ Yes (if YES, then handle, transport and store in accordance with FPM HAZID)

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass P - plastic	Combo8A	Combo3A	Combo3	PFAS (short suite)	PH/CEC	BTEX/TRH	Asbestos Material				
1	BH101	0.1	0.3	21/01/25	S	G/P	x			x							
2	BH101	0.5	0.8	21/01/25	S	G/P											on hold
3	BH101	0.9	1.1	21/01/25	S	G/P		x									
4	BH101	1.3	1.5	21/01/25	S	G/P											on hold
5	BH102	0.16	0.18	21/01/25	S	G/P				x							
6	BH102	0.35	0.55	21/01/25	S	G/P	x										
7	BH102	0.8	1	21/01/25	S	G/P		x									
8	BH102	1.1	1.2	21/01/25	S	G/P											On hold
9	BH103	0.1	0.3	21/01/25	S	G/P	x										
10	BH104	0.3	0.5	21/01/25	S	G/P	x										
11	BH104A	0.16	0.2	21/01/25	S	G											on hold
12	BH104A	0.4	0.6	21/01/25	S	G/P		x		x							
13	BH104A	0.9	1.1	21/01/25	S	G/P		x									
14	BH105	0.25	0.35	21/01/25	S	G/P	x										

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 371281

Date Received: 23/01/2025
Time Received: 15:15
Received By: DN
Temp: Cool Ambient
Cooling: Ice/Icepack 12°C
Security: Intact/Unbroken/None

Metals to analyse:		LAB RECEIPT	
Number of samples in container:	Transported to laboratory by:	Lab Ref. No: 371281	
Send results to: Douglas Partners Pty Ltd		Received by: DN	
Address: 96 Hermitage Road, West Ryde NSW 211	Phone: (02) 9809 0666	Date & Time: 23/01/2025 1515	
Relinquished by:	Date:	Signed:	Signed:

Project No: 231957.01					Suburb: Ultimo					To: Envirolab Services								
Project Manager: Nerilee Edwards										Dispatch date: 0/01/1900								
Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements	
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass P - plastic	Combo8A	Combo3A	Combo3	PFAS (short suite)	PH/CEC	BTEX/TRH	Asbestos Material					
15	BH105	0.4	0.5	21/01/25	S	G/P												on hold
16	BH105A	0.12	0.2	21/01/25	S	G/P	x				x							
17	BH105A	0.9	1.1	21/01/25	S	G/P		x										
18	BH105A	1.3	1.5	21/01/25	S	G/P			x									
19	BH106	0.08	0.2	21/01/25	S	G/P	x				x							
20	BH106	0.5	0.8	21/01/25	S	G/P												on hold
21	BH106	0.9	1.1	21/01/25	S	G/P												on hold
22	BH106	1.2	1.4	21/01/25	S	G/P		x										
23	BH107	0.1	0.3	21/01/25	S	G/P					x							
24	BH107	0.5	0.7	21/01/25	S	G/P	x											
25	BH107	1	1.2	21/01/25	S	G/P		x										
26	BH107	1.5	1.8	21/01/25	S	G/P												
27	BH107	2.1	2.3	21/01/25	S	G/P			x									
28	BH110	0	0.2	21/01/25	S	G/P					x							
29	BH110	0.5	0.8	21/01/25	S	G/P	x											
30	BH110	1.2	1.4	21/01/25	S	G/P			X									on hold
31	BD1/20250121	-	-	21/01/25	S	G/P												
32	BD2/20250121	-	-	21/01/25	S	G/P			x									

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Project No:	231957.01	Suburb:	Ultimo	To:	Envirolab Services
Project Manager:	Nerilee Edwards			Dispatch date:	0/01/1900

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Nerilee Edwards

Sample Login Details

Your reference	231957.01 Ultimo
Envirolab Reference	371281
Date Sample Received	24/01/2025
Date Instructions Received	24/01/2025
Date Results Expected to be Reported	03/02/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	34 Soil, 1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metals in soil	Asbestos ID - soils	PFAS in Soils Short	On Hold
BH101-0.1-0.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH101-0.5-0.8											✓
BH101-0.9-1.1	✓	✓	✓					✓	✓		
BH101-1.3-1.5											✓
BH102-0.16-0.18										✓	
BH102-0.35-0.55	✓	✓	✓	✓	✓	✓	✓	✓	✓		
BH102-0.8-1	✓	✓	✓					✓	✓		
BH102-1.1-1.2											✓
BH103-0.1-0.3	✓	✓	✓	✓	✓	✓	✓	✓	✓		
BH104-0.3-0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓		
BH104A-0.16-0.2											✓
BH104A-0.4-0.6	✓	✓	✓					✓	✓	✓	
BH104A-0.9-1.1	✓	✓	✓					✓	✓		
BH105-0.25-0.35	✓	✓	✓	✓	✓	✓	✓	✓	✓		
BH105-0.4-0.5											✓
BH105A-0.12-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH105A-0.9-1.1	✓	✓	✓					✓	✓		
BH105A-1.3-1.5	✓	✓	✓					✓			
BH106-0.08-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH106-0.5-0.8											✓
BH106-0.9-1.1											✓
BH106-1.2-1.4	✓	✓	✓					✓	✓		
BH107-0.1-0.3										✓	
BH107-0.5-0.7	✓	✓	✓	✓	✓	✓	✓	✓	✓		
BH107-1-1.2	✓	✓	✓					✓	✓		
BH107-1.5-1.8											✓
BH107-2.1-2.3	✓	✓	✓					✓			
BH110-0-0.2										✓	
BH110-0.5-0.8	✓	✓	✓	✓	✓	✓	✓	✓	✓		
BH110-1.2-1.4	✓	✓	✓					✓			
BD1/20250121											✓
BD2/20250121	✓	✓	✓					✓			

Sample ID	VTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metals in soil	Asbestos ID - soils	PFAS in Soils Short	On Hold
TS	✓										
TB	✓										
Rin1											✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 371281-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	Nerilee Edwards
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>231957.01 Ultimo</u>
Number of Samples	Additional analysis
Date samples received	24/01/2025
Date completed instructions received	04/02/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	11/02/2025
Date of Issue	10/02/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Sean McAlary, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

TCLP Preparation - Acid

Our Reference		371281-A-5	371281-A-14	371281-A-19	371281-A-24	371281-A-28
Your Reference	UNITS	BH102	BH105	BH106	BH107	BH110
Depth		0.16-0.18	0.25-0.35	0.08-0.2	0.5-0.7	0-0.2
Date Sampled		21/01/25	21/01/25	21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	7.6	7.1	7.4	7.4	7.6
pH of soil TCLP (after HCl)	pH units	2.0	2.2	1.9	1.9	2.1
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.4	5.5	5.2	5.1	6.2

PAHs in TCLP (USEPA 1311)				
Our Reference		371281-A-14	371281-A-19	371281-A-24
Your Reference	UNITS	BH105	BH106	BH107
Depth		0.25-0.35	0.08-0.2	0.5-0.7
Date Sampled		21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil
Date extracted	-	07/02/2025	07/02/2025	07/02/2025
Date analysed	-	07/02/2025	07/02/2025	07/02/2025
Naphthalene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Acenaphthylene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Acenaphthene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Fluorene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Phenanthrene in TCLP	mg/L	<0.0001	<0.0001	0.0005
Anthracene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Fluoranthene in TCLP	mg/L	<0.0001	<0.0001	0.0001
Pyrene in TCLP	mg/L	<0.0001	<0.0001	0.0001
Benzo(a)anthracene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Chrysene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Benzo(b)fluoranthene in TCLP	mg/L	<0.0002	<0.0002	<0.0002
Benzo(a)pyrene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.0001	<0.0001	<0.0001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Total +ve PAH's	mg/L	NIL (+)VE	NIL (+)VE	0.0007
Surrogate p-Terphenyl-d14	%	106	106	70

Metals from Leaching Fluid pH 2.9 or 5				
Our Reference		371281-A-14	371281-A-19	371281-A-24
Your Reference	UNITS	BH105	BH106	BH107
Depth		0.25-0.35	0.08-0.2	0.5-0.7
Date Sampled		21/01/25	21/01/25	21/01/25
Type of sample		Soil	Soil	Soil
Date extracted	-	06/02/2025	06/02/2025	06/02/2025
Date analysed	-	06/02/2025	06/02/2025	06/02/2025
Lead	mg/L	0.54	0.91	0.44

PFAS in TCLP Short			
Our Reference		371281-A-5	371281-A-28
Your Reference	UNITS	BH102	BH110
Depth		0.16-0.18	0-0.2
Date Sampled		21/01/25	21/01/25
Type of sample		Soil	Soil
Date prepared	-	07/02/2025	07/02/2025
Date analysed	-	07/02/2025	07/02/2025
Perfluorobutanesulfonic acid	µg/L	<0.01	<0.01
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01
6:2 FTS	µg/L	<0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02
Surrogate ¹³ C ₈ PFOS	%	94	97
Surrogate ¹³ C ₂ PFOA	%	107	101
Extracted ISTD ¹³ C ₃ PFBS	%	108	111
Extracted ISTD ¹⁸ O ₂ PFHxS	%	94	101
Extracted ISTD ¹³ C ₄ PFOS	%	106	109
Extracted ISTD ¹³ C ₄ PFOA	%	96	101
Extracted ISTD ¹³ C ₂ 6:2FTS	%	87	86
Extracted ISTD ¹³ C ₂ 8:2FTS	%	92	90
Total Positive PFHxS & PFOS	µg/L	<0.01	0.01
Total Positive PFOS & PFOA	µg/L	<0.01	0.01
Total Positive PFAS	µg/L	<0.01	0.01

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Metals-020	Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Org-022/025	Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			07/02/2025	[NT]	[NT]	[NT]	[NT]	07/02/2025	[NT]
Date analysed	-			07/02/2025	[NT]	[NT]	[NT]	[NT]	07/02/2025	[NT]
Naphthalene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	92	[NT]
Acenaphthylene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	92	[NT]
Fluorene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	86	[NT]
Phenanthrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	96	[NT]
Anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	94	[NT]
Pyrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzo(a)anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	93	[NT]
Benzo(bjk)fluoranthene in TCLP	mg/L	0.0002	Org-022/025	<0.0002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	87	[NT]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	103	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			06/02/2025	[NT]	[NT]	[NT]	[NT]	06/02/2025	[NT]
Date analysed	-			06/02/2025	[NT]	[NT]	[NT]	[NT]	06/02/2025	[NT]
Lead	mg/L	0.03	Metals-020	<0.03	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: PFAS in TCLP Short					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	371281-A-28
Date prepared	-			07/02/2025	5	07/02/2025	07/02/2025		07/02/2025	07/02/2025
Date analysed	-			07/02/2025	5	07/02/2025	07/02/2025		07/02/2025	07/02/2025
Perfluorobutanesulfonic acid	µg/L	0.01	Org-029	<0.01	5	<0.01	<0.01	0	94	96
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	5	<0.01	<0.01	0	97	104
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	5	<0.01	<0.01	0	98	106
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	5	<0.01	<0.01	0	101	105
6:2 FTS	µg/L	0.01	Org-029	<0.01	5	<0.01	<0.01	0	115	107
8:2 FTS	µg/L	0.02	Org-029	<0.02	5	<0.02	<0.02	0	109	111
Surrogate ¹³ C ₈ PFOS	%		Org-029	94	5	94	107	13	92	95
Surrogate ¹³ C ₂ PFOA	%		Org-029	97	5	107	97	10	97	101
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	104	5	108	108	0	105	106
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	97	5	94	107	13	100	100
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	110	5	106	100	6	109	107
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	102	5	96	103	7	100	101
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	85	5	87	87	0	93	99
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	86	5	92	90	2	101	100

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Anna Bui

From: Nerilee Edwards <nerilee.edwards@douglaspartners.com.au>
Sent: Tuesday, 4 February 2025 3:22 PM
To: Aileen Hie
Cc: Envirolab Sydney Sample Receipt; Setareh Pourkazemi
Subject: Further analysis 371281 231957.01 Ultimo
Attachments: 371281-COC.pdf

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

Hi Aileen,

Hope you've had a lovely Christmas.

Can you please organise the additional analysis below?

ta

Sample		Date	Analysis
BH102	0.16 - 0.18 m	21/01/25	TCLP PFAS
BH105	0.25 - 0.35 m	21/01/25	TCLP Pb, PAH
BH106	0.08 - 0.2 m	21/01/25	TCLP Pb, PAH
BH107	0.5 - 0.7 m	21/01/25	TCLP Pb, PAH
BH110	0 - 0.2 m	21/01/25	TCLP PFAS

ELW REF: 371281-A

TAT: STANDARD

DUE: 11/2/25

AB.

Nerilee Edwards | Principal / Environmental Scientist

☎ 02 9809 0666 📞 +61 414 769 011 📧 Nerilee.Edwards@douglaspartners.com.au

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NSW 2114 | Wallumedegal Country
PO Box 472, West Ryde, NSW 1685



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From: Stuart Chen <SChen2@envirolab.com.au>
Sent: Monday, 3 February 2025 4:55 PM
To: Nerilee Edwards <nerilee.edwards@douglaspartners.com.au>; Setareh Pourkazemi <setareh.pourkazemi@douglaspartners.com.au>
Subject: Results for Registration 371281 231957.01 Ultimo [Filed 04 Feb 2025 09:02]

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Nerilee Edwards

Sample Login Details

Your reference	231957.01 Ultimo
Envirolab Reference	371281-A
Date Sample Received	24/01/2025
Date Instructions Received	04/02/2025
Date Results Expected to be Reported	11/02/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

Sample ID	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Lead	PFAS in TCLP Short	On Hold
BH101-0.1-0.3					✓
BH101-0.5-0.8					✓
BH101-0.9-1.1					✓
BH101-1.3-1.5					✓
BH102-0.16-0.18	✓			✓	
BH102-0.35-0.55					✓
BH102-0.8-1					✓
BH102-1.1-1.2					✓
BH103-0.1-0.3					✓
BH104-0.3-0.5					✓
BH104A-0.16-0.2					✓
BH104A-0.4-0.6					✓
BH104A-0.9-1.1					✓
BH105-0.25-0.35	✓	✓	✓		
BH105-0.4-0.5					✓
BH105A-0.12-0.2					✓
BH105A-0.9-1.1					✓
BH105A-1.3-1.5					✓
BH106-0.08-0.2	✓	✓	✓		
BH106-0.5-0.8					✓
BH106-0.9-1.1					✓
BH106-1.2-1.4					✓
BH107-0.1-0.3					✓
BH107-0.5-0.7	✓	✓	✓		
BH107-1-1.2					✓
BH107-1.5-1.8					✓
BH107-2.1-2.3					✓
BH110-0-0.2	✓			✓	
BH110-0.5-0.8					✓
BH110-1.2-1.4					✓
BD1/20250121					✓
BD2/20250121					✓

Sample ID	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Lead	PFAS in TCLP Short	On Hold
TS					✓
TB					✓
Rin1					✓
BH101 - [TRIPLICATE]-0.1-0.3					✓
BH107 - [TRIPLICATE]-0.5-0.7					✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 373759

Client Details

Client	Douglas Partners Pty Ltd
Attention	Setareh Pourkazemi
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>231957.01</u>
Number of Samples	4 Air
Date samples received	21/02/2025
Date completed instructions received	21/02/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	07/03/2025
Date of Issue	07/03/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Amanda Chui, LC/Air Toxics Supervisor
Steven Luong, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

TO15 in Canisters/Bags			
Our Reference		373759-1	373759-2
Your Reference	UNITS	105A	BD 120250220
Date Sampled		20/02/2025	20/02/2025
Type of sample		Air	Air
Air Kit Security No.		3535	3541
Vacuum before Shipment	Hg"	-30	-30
Vacuum before Analysis	Hg"	-5	-7
Date prepared	-	26/02/2025	26/02/2025
Date analysed	-	28/02/2025	28/02/2025
Propylene	ppbv	2	2
Dichlorodifluoromethane	ppbv	<0.5	<0.5
Chloromethane	ppbv	<0.5	<0.5
1,2-Dichlorotetrafluoroethane	ppbv	<0.5	<0.5
Vinyl chloride	ppbv	<0.5	<0.5
1,3-Butadiene	ppbv	<0.5	<0.5
Bromomethane	ppbv	<0.5	<0.5
Chloroethane	ppbv	<0.5	<0.5
Ethanol	ppbv	10	9
Acrolein	ppbv	<5	<5
Trichlorofluoromethane (Freon 11)	ppbv	0.6	0.6
Acetone	ppbv	10	20
Isopropyl Alcohol	ppbv	460	470
1,1-Dichloroethene	ppbv	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	ppbv	<0.5	<0.5
Methylene chloride (Dichloromethane)	ppbv	<5	<5
Carbon Disulfide	ppbv	<5	<5
trans-1,2-dichloroethene	ppbv	<0.5	<0.5
MTBE	ppbv	<0.5	<0.5
1,1- Dichloroethane	ppbv	<0.5	<0.5
Vinyl Acetate	ppbv	<0.5	<0.5
MEK	ppbv	<5	<5
Hexane	ppbv	4	4
cis-1,2-Dichloroethene	ppbv	<0.5	<0.5
Ethyl Acetate	ppbv	<0.5	<0.5
Chloroform	ppbv	1	1
Tetrahydrofuran	ppbv	7.9	8.3
1,1,1-Trichloroethane	ppbv	<0.5	<0.5
1,2-Dichloroethane	ppbv	<0.5	<0.5
Benzene	ppbv	1	1
Carbon tetrachloride	ppbv	<0.5	<0.5

TO15 in Canisters/Bags			
Our Reference		373759-1	373759-2
Your Reference	UNITS	105A	BD 120250220
Date Sampled		20/02/2025	20/02/2025
Type of sample		Air	Air
Air Kit Security No.		3535	3541
Cyclohexane	ppbv	<0.5	<0.5
Heptane	ppbv	<0.5	<0.5
Trichloroethene	ppbv	<0.5	<0.5
1,2-Dichloropropane	ppbv	<0.5	<0.5
1,4-Dioxane	ppbv	<0.5	<0.5
Bromodichloromethane	ppbv	<0.5	<0.5
Methyl Methacrylate	ppbv	2	2
MIBK	ppbv	<5	<5
cis-1,3-Dichloropropene	ppbv	<0.5	<0.5
trans-1,3-Dichloropropene	ppbv	<0.5	<0.5
Toluene	ppbv	11	11
1,1,2-Trichloroethane	ppbv	<0.5	<0.5
Methyl Butyl Ketone	ppbv	2	2
Dibromochloromethane	ppbv	<0.5	<0.5
Tetrachloroethene	ppbv	<0.5	<0.5
1,2-Dibromoethane	ppbv	<0.5	<0.5
Chlorobenzene	ppbv	<0.5	<0.5
Ethylbenzene	ppbv	3	3
m- & p-Xylene	ppbv	8	9
Styrene	ppbv	2	2
o-Xylene	ppbv	3	3
Bromoform	ppbv	<0.5	<0.5
1,1,2,2-Tetrachloroethane	ppbv	<0.5	<0.5
4-ethyl toluene	ppbv	<0.5	<0.5
1,3,5-Trimethylbenzene	ppbv	1	1
1,2,4-Trimethylbenzene	ppbv	1	1
1,3-Dichlorobenzene	ppbv	<0.5	<0.5
Benzyl chloride	ppbv	<0.5	<0.5
1,4-Dichlorobenzene	ppbv	<0.5	<0.5
1,2-Dichlorobenzene	ppbv	<0.5	<0.5
1,2,4-Trichlorobenzene	ppbv	<0.5	<0.5
Naphthalene	ppbv	<0.5	<0.5
Hexachloro- 1,3-butadiene	ppbv	<0.5	<0.5
Surrogate-Bromochloromethane	% rec	98	104
Surrogate -1,4-Difluorobenzene	% rec	100	102
Surrogate-Chlorobenzene-D5	% rec	99	101

TO15 in Canisters µg/m3			
Our Reference		373759-1	373759-2
Your Reference	UNITS	105A	BD 120250220
Date Sampled		20/02/2025	20/02/2025
Type of sample		Air	Air
Air Kit Security No.		3535	3541
Vacuum before Shipment	Hg"	-30	-30
Vacuum before Analysis	Hg"	-5	-7
Date prepared	-	26/02/2025	26/02/2025
Date analysed	-	28/02/2025	28/02/2025
Propylene	µg/m ³	4	4
Dichlorodifluoromethane	µg/m ³	<2.5	<2.5
Chloromethane	µg/m ³	<1	<1
1,2-Dichlorotetrafluoroethane	µg/m ³	<2.5	<2.5
Vinyl chloride	µg/m ³	<1.3	<1.3
1,3-Butadiene	µg/m ³	<1.1	<1.1
Bromomethane	µg/m ³	<1.9	<1.9
Chloroethane	µg/m ³	<1.3	<1.3
Ethanol	µg/m ³	20	20
Acrolein	µg/m ³	<11	<11
Trichlorofluoromethane (Freon 11)	µg/m ³	3	4
Acetone	µg/m ³	30	40
Isopropyl Alcohol	µg/m ³	1,100	1,200
1,1-Dichloroethene	µg/m ³	<2	<2
1,1,2-Trichlorotrifluoroethane	µg/m ³	<3.8	<3.8
Methylene chloride (Dichloromethane)	µg/m ³	<17	<17
Carbon Disulfide	µg/m ³	<16	<16
trans-1,2-dichloroethene	µg/m ³	<2	<2
MTBE	µg/m ³	<1.8	<1.8
1,1- Dichloroethane	µg/m ³	<2	<2
Vinyl Acetate	µg/m ³	<1.8	<1.8
MEK	µg/m ³	<15	<15
Hexane	µg/m ³	20	10
cis-1,2-Dichloroethene	µg/m ³	<2	<2
Ethyl Acetate	µg/m ³	<1.8	<1.8
Chloroform	µg/m ³	5	5
Tetrahydrofuran	µg/m ³	23	24
1,1,1-Trichloroethane	µg/m ³	<2.7	<2.7
1,2-Dichloroethane	µg/m ³	<2	<2
Benzene	µg/m ³	4	4
Carbon tetrachloride	µg/m ³	<3.1	<3.1

TO15 in Canisters µg/m3			
Our Reference		373759-1	373759-2
Your Reference	UNITS	105A	BD 120250220
Date Sampled		20/02/2025	20/02/2025
Type of sample		Air	Air
Air Kit Security No.		3535	3541
Cyclohexane	µg/m ³	<1.7	<1.7
Heptane	µg/m ³	<2	<2
Trichloroethene	µg/m ³	<2.7	<2.7
1,2-Dichloropropane	µg/m ³	<2.3	<2.3
1,4-Dioxane	µg/m ³	<1.8	<1.8
Bromodichloromethane	µg/m ³	<3.4	<3.4
Methyl Methacrylate	µg/m ³	6	7
MIBK	µg/m ³	<20	<20
cis-1,3-Dichloropropene	µg/m ³	<2.3	<2.3
trans-1,3-Dichloropropene	µg/m ³	<2.3	<2.3
Toluene	µg/m ³	40	42
1,1,2-Trichloroethane	µg/m ³	<2.7	<2.7
Methyl Butyl Ketone	µg/m ³	8	9
Dibromochloromethane	µg/m ³	<1.6	<1.6
Tetrachloroethene	µg/m ³	<3.4	<3.4
1,2-Dibromoethane	µg/m ³	<3.8	<3.8
Chlorobenzene	µg/m ³	<2.3	<2.3
Ethylbenzene	µg/m ³	10	10
m- & p-Xylene	µg/m ³	40	40
Styrene	µg/m ³	9	10
o-Xylene	µg/m ³	10	10
Bromoform	µg/m ³	<5.2	<5.2
1,1,2,2-Tetrachloroethane	µg/m ³	<3.4	<3.4
4-ethyl toluene	µg/m ³	<2.5	<2.5
1,3,5-Trimethylbenzene	µg/m ³	5	5
1,2,4-Trimethylbenzene	µg/m ³	5	5
1,3-Dichlorobenzene	µg/m ³	<3	<3
Benzyl chloride	µg/m ³	<2.6	<2.6
1,4-Dichlorobenzene	µg/m ³	<3	<3
1,2-Dichlorobenzene	µg/m ³	<3	<3
1,2,4-Trichlorobenzene	µg/m ³	<3.7	<3.7
Naphthalene	µg/m ³	<2.6	<2.6
Hexachloro- 1,3-butadiene	µg/m ³	<5.3	<5.3
Surrogate-Bromochloromethane	% rec	98	104
Surrogate -1,4-Difluorobenzene	% rec	100	102
Surrogate-Chlorobenzene-D5	% rec	99	101

IPA in Carbon Tubes & Badges*		
Our Reference		373759-4
Your Reference	UNITS	Shroud
Date Sampled		20/02/2025
Type of sample		Air
Air Kit Security No.		0198821505
Date Extracted	-	05/03/2025
Date Analysed	-	06/03/2025
Tube Sampling rate	mL/min	100
Sampling Time	mins	5
Volume sampled	m ³	0.00050
Isopropyl Alcohol*	µg	650
Isopropyl Alcohol*	µg/m ³	1,300,000
Surrogate Toluene-d8	%	81
Surrogate 4-Bromofluorobenzene	%	84

Method ID	Methodology Summary
ORG-022	Determination of volatile organic compounds in charcoal tubes/badges/sorbents using CS2 extraction, determined by GC/GC-MS. Desorption efficiencies are not applied to results. Note where µg/m3 or mg/m3 results are supplied for SKC badges, the factors used are for 575-002, if 575-002 data is unavailable for an analyte then use 575-001 then 575-003 (exposure time must be supplied). Otherwise a sampling rate may be used for a similar analyte on request. Analytes such as (where applicable) Iodomethane, Chloroprene, Nitrobenzene, Naphthalene and 1, 2, 3 / 1, 2, 4 Trichlorobenzenes are considered to be semi-quant analyses using CS2 desorption from charcoal tubes. The latter three compounds are better served by XAD-2 collection and analysis. Note - air volume measurements are not covered by Envirolab's NATA accreditation.
TO15	USEPA TO15 - Analysis of VOC's in air using USEPA TO15 and in house method AT-002. Note, longer term stability of some oxygenated compounds is questionable where significant humidity is present.
USEPA 18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography using USEPA m18.

QUALITY CONTROL: TO15 in Canisters/Bags					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	26/02/2025	[NT]
Date analysed	-			28/02/2025	[NT]	[NT]	[NT]	[NT]	28/02/2025	[NT]
Propylene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	106	[NT]
Dichlorodifluoromethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dichlorotetrafluoroethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl chloride	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-Butadiene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethanol	ppbv	5	TO15	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acrolein	ppbv	5	TO15	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane (Freon 11)	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acetone	ppbv	5	TO15	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropyl Alcohol	ppbv	5	TO15	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-Trichlorotrifluoroethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methylene chloride (Dichloromethane)	ppbv	5	TO15	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon Disulfide	ppbv	5	TO15	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trans-1,2-dichloroethene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
MTBE	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1- Dichloroethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Acetate	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
MEK	ppbv	5	TO15	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	82	[NT]
cis-1,2-Dichloroethene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethyl Acetate	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrahydrofuran	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,1-Trichloroethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dichloroethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	77	[NT]
Carbon tetrachloride	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	77	[NT]
Heptane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	123	[NT]
Trichloroethene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dichloropropane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: TO15 in Canisters/Bags						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
1,4-Dioxane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromodichloromethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methyl Methacrylate	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
MIBK	ppbv	5	TO15	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-Dichloropropene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trans-1,3-Dichloropropene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	87	[NT]
1,1,2-Trichloroethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methyl Butyl Ketone	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dibromoethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	98	[NT]
m-& p-Xylene	ppbv	1	TO15	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Styrene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	87	[NT]
o-Xylene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	100	[NT]
Bromoform	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-Tetrachloroethane	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-ethyl toluene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	99	[NT]
1,3,5-Trimethylbenzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	100	[NT]
1,2,4-Trimethylbenzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	95	[NT]
1,3-Dichlorobenzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzyl chloride	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-Dichlorobenzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dichlorobenzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-Trichlorobenzene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Naphthalene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachloro- 1,3-butadiene	ppbv	0.5	TO15	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate-Bromochloromethane	% rec		TO15	99	[NT]	[NT]	[NT]	[NT]	107	[NT]
Surrogate -1,4-Difluorobenzene	% rec		TO15	97	[NT]	[NT]	[NT]	[NT]	105	[NT]
Surrogate-Chlorobenzene-D5	% rec		TO15	97	[NT]	[NT]	[NT]	[NT]	105	[NT]

QUALITY CONTROL: TO15 in Canisters µg/m3					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Date analysed	-			28/02/2025	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Propylene	µg/m³	0.9	TO15	<0.9	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dichlorodifluoromethane	µg/m³	2.5	TO15	<2.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/m³	1.0	TO15	<1.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dichlorotetrafluoroethane	µg/m³	2.5	TO15	<2.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl chloride	µg/m³	1.3	TO15	<1.3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-Butadiene	µg/m³	1.1	TO15	<1.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/m³	1.9	TO15	<1.9	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/m³	1.3	TO15	<1.3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethanol	µg/m³	9	TO15	<9	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acrolein	µg/m³	11	TO15	<11	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane (Freon 11)	µg/m³	2.8	TO15	<2.8	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acetone	µg/m³	11.9	TO15	<11.9	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropyl Alcohol	µg/m³	12	TO15	<12	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/m³	2.0	TO15	<2.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-Trichlorotrifluoroethane	µg/m³	3.8	TO15	<3.8	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methylene chloride (Dichloromethane)	µg/m³	17	USEPA 18	<17	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon Disulfide	µg/m³	16	TO15	<16	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trans-1,2-dichloroethene	µg/m³	2.0	TO15	<2.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
MTBE	µg/m³	1.8	TO15	<1.8	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1- Dichloroethane	µg/m³	2.0	TO15	<2.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Acetate	µg/m³	1.8	TO15	<1.8	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
MEK	µg/m³	15	TO15	<15	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexane	µg/m³	1.8	TO15	<1.8	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,2-Dichloroethene	µg/m³	2.0	TO15	<2.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethyl Acetate	µg/m³	1.8	TO15	<1.8	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/m³	2.4	TO15	<2.4	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrahydrofuran	µg/m³	1.5	TO15	<1.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,1-Trichloroethane	µg/m³	2.7	TO15	<2.7	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dichloroethane	µg/m³	2.0	TO15	<2.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/m³	1.6	TO15	<1.6	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/m³	3.1	TO15	<3.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/m³	1.7	TO15	<1.7	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptane	µg/m³	2.0	TO15	<2.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/m³	2.7	TO15	<2.7	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dichloropropane	µg/m³	2.3	TO15	<2.3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: TO15 in Canisters µg/m3						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
1,4-Dioxane	µg/m³	1.8	TO15	<1.8	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromodichloromethane	µg/m³	3.4	TO15	<3.4	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methyl Methacrylate	µg/m³	2.0	TO15	<2.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
MIBK	µg/m³	20	TO15	<20	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-Dichloropropene	µg/m³	2.3	TO15	<2.3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trans-1,3-Dichloropropene	µg/m³	2.3	TO15	<2.3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/m³	1.9	TO15	<1.9	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-Trichloroethane	µg/m³	2.7	TO15	<2.7	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methyl Butyl Ketone	µg/m³	2.0	TO15	<2.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/m³	1.6	TO15	<1.6	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/m³	3.4	TO15	<3.4	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dibromoethane	µg/m³	3.8	TO15	<3.8	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/m³	2.3	TO15	<2.3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/m³	2.2	TO15	<2.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m-& p-Xylene	µg/m³	4.3	TO15	<4.3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/m³	2.1	TO15	<2.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
o-Xylene	µg/m³	2.2	TO15	<2.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/m³	5.2	TO15	<5.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-Tetrachloroethane	µg/m³	3.4	TO15	<3.4	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-ethyl toluene	µg/m³	2.5	TO15	<2.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-Trimethylbenzene	µg/m³	2.5	TO15	<2.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-Trimethylbenzene	µg/m³	2.5	TO15	<2.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzyl chloride	µg/m³	2.6	TO15	<2.6	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-Trichlorobenzene	µg/m³	3.7	TO15	<3.7	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Naphthalene	µg/m³	2.6	TO15	<2.6	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachloro- 1,3-butadiene	µg/m³	5.3	TO15	<5.3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate-Bromochloromethane	% rec		TO15	99	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate -1,4-Difluorobenzene	% rec		TO15	97	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate-Chlorobenzene-D5	% rec		TO15	97	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: IPA in Carbon Tubes & Badges*						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date Extracted	-			05/03/2025	[NT]	[NT]	[NT]	[NT]	05/03/2025	[NT]
Date Analysed	-			06/03/2025	[NT]	[NT]	[NT]	[NT]	06/03/2025	[NT]
Isopropyl Alcohol*	µg	5	ORG-022	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate Toluene-d8	%		ORG-022	101	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate 4-Bromofluorobenzene	%		ORG-022	95	[NT]	[NT]	[NT]	[NT]	86	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

CHAIN OF CUSTODY - CANISTERS / BAGS / TD TUBES

See reverse side for TERMS AND CONDITIONS FOR PROVISION OF SAMPLING EQUIPMENT

ENVIROLAB GROUP

National phone number 1300 424 344

Sydney Lab - Envirolab Services
12 Ashley St, Chatswood, NSW 2067
02 9310 6200 | sydney@envirolab.com.au

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Melbourne Lab - Envirolab Services
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Adelaide Office - Envirolab Services
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Brisbane Office - Envirolab Services
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07 3266 9532 | brisbane@envirolab.com.au

Darwin Office - Envirolab Services
Unit 20/119 Reichardt Road, Winnellie, NT 0820

Client: Douglas Partners Pty Ltd
Contact Person: Nerilee Edwards / Setareh Pourkazemi
Project Mgr: Nerilee Edwards
Sampler: Huy Tran
Address: 96 Hermitage Road, West Ryde NSW
Phone: Nerilee.edwards@douglaspartners.com.au
Mob: Setareh.Pourkazemi@douglaspartners.com.au
Email: Huy.Tran@douglaspartners.com.au

Client Project Name / Number / Site etc. (i.e. report title): 231457.01
PO No.:
Envirolab Quote No.:
Date results required:
Or choose: standard / same day / 1 day / 2 day / 3 day
Note: Inform lab in advance if urgent turnaround is required - surcharges apply
Additional report format: esdat / equis /
Lab Comments:

Sample Information												Tests Required							Comments
Envirolab Sample ID	Client Sample ID (Field Location)	Canister / TD Tube #	Soil Gas Train / Mass Flow Controller #	Leak Test Passed (Y/N)	PID Reading (ppmv)	Date of Collection	Collection Time		Canister Vacuum (Hg")		Flow Rate (Bags/TD Tubes only)	TO-15 (Cans/Bags) / TO-17 (Tubes)	TPH	5 Sulphides (Cans/Bags only)	Ozone Precursors	General Gases* (Cans/Bags only)	RGA Full List (Cans/Bags only)		
							Time On	Time Off	Initial	Final									
①	105 A	3535	403	Y	0	20.2.25	1230	1236	-30	-7		✓							
②	BD 12050220	2541	818	Y	0		1230	1236	-28	-8		✓							
③	105A - CT	09881686		Y	0		12:09	12:14			100ml/min	✓							
④	Shroud	0198821505		Y	@ 31		1231	1236			100ml/min							✓	

* General Gases - Please tick one:

- ☐ 1) Methane, Oxygen, Carbon dioxide, Carbon monoxide, Nitrogen
☐ 2) Methane, Oxygen, Carbon dioxide, Carbon monoxide, Helium, Hydrogen
☐ 3) Specify analytes (NB: If both Nitrogen and Helium/Hydrogen are require, please contact the laboratory)

Relinquished by (Company): Douglas Partners
Print Name: Huy Tran
Date & Time: 20.2.25
Signature: [Signature]

Received by (Company): FLS
Print Name: Amanda C
Date & Time: 21/2/25 17:00
Signature: [Signature]

Lab Use Only:
Job Number: 233719
Security seal: Intact / Broken / None
TAT Req - SAME day / 1 / 2 / 3 / 4 / STD

TERMS AND CONDITIONS FOR PROVISION OF SAMPLING EQUIPMENT

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Setareh Pourkazemi

Sample Login Details

Your reference	231957.01
Envirolab Reference	373759
Date Sample Received	21/02/2025
Date Instructions Received	21/02/2025
Date Results Expected to be Reported	28/02/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	4 Air
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	n/a
Cooling Method	Not applicable
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

Sample ID	TO15 in Canisters/Bags	TO15 in Canisters µg/m3	IPA in Carbon Tubes & Badges*	On Hold
105A	✓	✓		
BD 120250220	✓	✓		
105A - CT				✓
Shroud			✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 373722

Client Details

Client	Douglas Partners Pty Ltd
Attention	Nerilee Edwards
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>231957.01, Ultimo</u>
Number of Samples	6 Water
Date samples received	21/02/2025
Date completed instructions received	21/02/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	28/02/2025
Date of Issue	28/02/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Diego Bigolin, Inorganics Supervisor
 Dragana Tomas, Senior Chemist
 Giovanni Agosti, Group Technical Manager
 Nick Sarlamis, Assistant Operation Manager
 Sean McAlary, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

VOCs in water				
Our Reference		373722-1	373722-2	373722-3
Your Reference	UNITS	BH101	BH102	BH103
Date Sampled		20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water
Date Extracted	-	24/02/2025	26/02/2025	24/02/2025
Date Analysed	-	25/02/2025	27/02/2025	25/02/2025
Dichlorodifluoromethane	µg/L	<10	<10	<10
Chloromethane	µg/L	<10	<10	<10
Vinyl Chloride	µg/L	<10	<10	<10
Bromomethane	µg/L	<10	<10	<10
Chloroethane	µg/L	<10	<10	<10
Trichlorofluoromethane	µg/L	<10	<10	<10
1,1-Dichloroethene	µg/L	<1	<1	<1
Trans-1,2-dichloroethene	µg/L	<1	<1	<1
1,1-dichloroethane	µg/L	<1	<1	<1
Cis-1,2-dichloroethene	µg/L	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1
Chloroform	µg/L	1	2	7
2,2-dichloropropane	µg/L	<1	<1	<1
1,2-dichloroethane	µg/L	<1	<1	<1
1,1,1-trichloroethane	µg/L	<1	<1	<1
1,1-dichloropropene	µg/L	<1	<1	<1
Cyclohexane	µg/L	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1
Benzene	µg/L	<1	<1	<1
Dibromomethane	µg/L	<1	<1	<1
1,2-dichloropropane	µg/L	<1	<1	<1
Trichloroethene	µg/L	<1	<1	<1
Bromodichloromethane	µg/L	<1	<1	1
trans-1,3-dichloropropene	µg/L	<1	<1	<1
cis-1,3-dichloropropene	µg/L	<1	<1	<1
1,1,2-trichloroethane	µg/L	<1	<1	<1
Toluene	µg/L	<1	<1	81
1,3-dichloropropane	µg/L	<1	<1	<1
Dibromochloromethane	µg/L	<1	<1	<1
1,2-dibromoethane	µg/L	<1	<1	<1
Tetrachloroethene	µg/L	<1	<1	<1
1,1,1,2-tetrachloroethane	µg/L	<1	<1	<1
Chlorobenzene	µg/L	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1

VOCs in water				
Our Reference		373722-1	373722-2	373722-3
Your Reference	UNITS	BH101	BH102	BH103
Date Sampled		20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water
Bromoform	µg/L	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2
Styrene	µg/L	<1	<1	<1
1,1,2,2-tetrachloroethane	µg/L	<1	<1	<1
o-xylene	µg/L	<1	<1	<1
1,2,3-trichloropropane	µg/L	<1	<1	<1
Isopropylbenzene	µg/L	<1	<1	<1
Bromobenzene	µg/L	<1	<1	<1
n-propyl benzene	µg/L	<1	<1	<1
2-chlorotoluene	µg/L	<1	<1	<1
4-chlorotoluene	µg/L	<1	<1	<1
1,3,5-trimethyl benzene	µg/L	<1	<1	<1
Tert-butyl benzene	µg/L	<1	<1	<1
1,2,4-trimethyl benzene	µg/L	<1	<1	<1
1,3-dichlorobenzene	µg/L	<1	<1	<1
Sec-butyl benzene	µg/L	<1	<1	<1
1,4-dichlorobenzene	µg/L	<1	<1	<1
4-isopropyl toluene	µg/L	<1	<1	<1
1,2-dichlorobenzene	µg/L	<1	<1	<1
n-butyl benzene	µg/L	<1	<1	<1
1,2-dibromo-3-chloropropane	µg/L	<1	<1	<1
1,2,4-trichlorobenzene	µg/L	<1	<1	<1
Hexachlorobutadiene	µg/L	<1	<1	<1
1,2,3-trichlorobenzene	µg/L	<1	<1	<1
Surrogate Dibromofluoromethane	%	110	100	110
Surrogate Toluene-d8	%	96	91	97
Surrogate 4-Bromofluorobenzene	%	104	102	105

vTRH(C6-C10)/BTEXN in Water

Our Reference		373722-1	373722-2	373722-3	373722-4	373722-5
Your Reference	UNITS	BH101	BH102	BH103	GWD1/20250220	TS/20250220
Date Sampled		20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	24/02/2025	26/02/2025	24/02/2025	24/02/2025	24/02/2025
Date analysed	-	25/02/2025	27/02/2025	25/02/2025	25/02/2025	25/02/2025
TRH C ₆ - C ₉	µg/L	<10	<10	84	<10	[NA]
TRH C ₆ - C ₁₀	µg/L	<10	<10	90	<10	[NA]
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	<10	[NA]
Benzene	µg/L	<1	<1	<1	<1	116%
Toluene	µg/L	<1	<1	81	<1	117%
Ethylbenzene	µg/L	<1	<1	<1	<1	121%
m+p-xylene	µg/L	<2	<2	<2	<2	114%
o-xylene	µg/L	<1	<1	<1	<1	117%
Naphthalene	µg/L	<1	<1	<1	<1	[NA]
Surrogate Dibromofluoromethane	%	110	100	110	98	110
Surrogate Toluene-d8	%	96	91	97	96	102
Surrogate 4-Bromofluorobenzene	%	104	102	105	104	101

vTRH(C6-C10)/BTEXN in Water

Our Reference		373722-6
Your Reference	UNITS	TB/20250220
Date Sampled		20/02/2025
Type of sample		Water
Date extracted	-	24/02/2025
Date analysed	-	25/02/2025
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	80
Surrogate Toluene-d8	%	97
Surrogate 4-Bromofluorobenzene	%	103

svTRH (C10-C40) in Water					
Our Reference		373722-1	373722-2	373722-3	373722-4
Your Reference	UNITS	BH101	BH102	BH103	GWD1/20250220
Date Sampled		20/02/2025	20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water	Water
Date extracted	-	26/02/2025	26/02/2025	26/02/2025	26/02/2025
Date analysed	-	27/02/2025	27/02/2025	27/02/2025	27/02/2025
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	120	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	140	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	260	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	120	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50	<50	120	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	180	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	300	<50
Surrogate o-Terphenyl	%	94	106	104	88

PAHs in Water					
Our Reference		373722-1	373722-2	373722-3	373722-4
Your Reference	UNITS	BH101	BH102	BH103	GWD1/20250220
Date Sampled		20/02/2025	20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water	Water
Date extracted	-	26/02/2025	26/02/2025	26/02/2025	26/02/2025
Date analysed	-	28/02/2025	28/02/2025	27/02/2025	27/02/2025
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	85	91	91	90

OCPs in Water - Trace Level			
Our Reference		373722-1	373722-2
Your Reference	UNITS	BH101	BH102
Date Sampled		20/02/2025	20/02/2025
Type of sample		Water	Water
Date extracted	-	26/02/2025	26/02/2025
Date analysed	-	28/02/2025	28/02/2025
alpha-BHC	µg/L	<0.001	<0.001
HCB	µg/L	<0.001	<0.001
beta-BHC	µg/L	<0.001	<0.001
gamma-BHC	µg/L	<0.001	<0.001
Heptachlor	µg/L	<0.001	<0.001
delta-BHC	µg/L	<0.001	<0.001
Aldrin	µg/L	<0.001	<0.001
Heptachlor Epoxide	µg/L	<0.001	<0.001
gamma-Chlordane	µg/L	<0.001	<0.001
alpha-Chlordane	µg/L	<0.001	<0.001
Endosulfan I	µg/L	<0.002	<0.002
pp-DDE	µg/L	<0.001	<0.001
Dieldrin	µg/L	<0.001	<0.001
Endrin	µg/L	<0.001	<0.001
Endosulfan II	µg/L	<0.002	<0.002
pp-DDD	µg/L	<0.001	<0.001
Endrin Aldehyde	µg/L	<0.001	<0.001
pp-DDT	µg/L	<0.001	<0.001
Endosulfan Sulphate	µg/L	<0.001	<0.001
Methoxychlor	µg/L	<0.001	<0.001
Surrogate 4-Chloro-3-NBTF	%	88	84

OP in water LL ANZECCF/ADWG			
Our Reference		373722-1	373722-2
Your Reference	UNITS	BH101	BH102
Date Sampled		20/02/2025	20/02/2025
Type of sample		Water	Water
Date extracted	-	26/02/2025	26/02/2025
Date analysed	-	28/02/2025	28/02/2025
Dichlorvos	µg/L	<0.05	<0.05
Mevinphos	µg/L	<0.05	<0.05
Phorate	µg/L	<0.05	<0.05
Dimethoate	µg/L	<0.1	<0.1
Diazinon	µg/L	<0.01	<0.01
Disulfoton	µg/L	<0.05	<0.05
Chlorpyrifos-methyl	µg/L	<0.05	<0.05
Parathion-Methyl	µg/L	<0.05	<0.05
Ronnel	µg/L	<0.05	<0.05
Fenitrothion	µg/L	<0.05	<0.05
Malathion	µg/L	<0.05	<0.05
Chlorpyrifos	µg/L	<0.009	<0.009
Fenthion	µg/L	<0.05	<0.05
Parathion	µg/L	<0.004	<0.004
Bromophos ethyl	µg/L	<0.05	<0.05
Methidathion	µg/L	<0.05	<0.05
Fenamiphos	µg/L	<0.05	<0.05
Ethion	µg/L	<0.05	<0.05
Phosalone	µg/L	<0.05	<0.05
Azinphos-methyl (Guthion)	µg/L	<0.02	<0.02
Coumaphos	µg/L	<0.05	<0.05
Surrogate 4-Chloro-3-NBTF	%	88	84

PCBs in Water - Trace Level			
Our Reference		373722-1	373722-2
Your Reference	UNITS	BH101	BH102
Date Sampled		20/02/2025	20/02/2025
Type of sample		Water	Water
Date extracted	-	26/02/2025	26/02/2025
Date analysed	-	28/02/2025	28/02/2025
Aroclor 1016	µg/L	<0.01	<0.01
Aroclor 1221	µg/L	<0.01	<0.01
Aroclor 1232	µg/L	<0.01	<0.01
Aroclor 1242	µg/L	<0.01	<0.01
Aroclor 1248	µg/L	<0.01	<0.01
Aroclor 1254	µg/L	<0.01	<0.01
Aroclor 1260	µg/L	<0.01	<0.01
Surrogate 2-Fluorobiphenyl	%	84	87

Total Phenolics in Water					
Our Reference		373722-1	373722-2	373722-3	373722-4
Your Reference	UNITS	BH101	BH102	BH103	GWD1/20250220
Date Sampled		20/02/2025	20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water	Water
Date extracted	-	28/02/2025	28/02/2025	28/02/2025	28/02/2025
Date analysed	-	28/02/2025	28/02/2025	28/02/2025	28/02/2025
Total Phenolics (as Phenol)	mg/L	<0.05	<0.05	<0.05	<0.05

HM in water - total					
Our Reference		373722-1	373722-2	373722-3	373722-4
Your Reference	UNITS	BH101	BH102	BH103	GWD1/20250220
Date Sampled		20/02/2025	20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	27/02/2025	27/02/2025	27/02/2025	27/02/2025
Date analysed	-	27/02/2025	27/02/2025	27/02/2025	27/02/2025
Arsenic-Total	µg/L	3	14	11	1
Cadmium-Total	µg/L	<0.1	0.9	0.2	<0.1
Chromium-Total	µg/L	19	98	93	4
Copper-Total	µg/L	30	460	220	10
Iron-Total	µg/L	4,300	41,000	31,000	1,200
Mercury-Total	µg/L	<0.05	2.5	<0.05	<0.05
Manganese-Total	µg/L	37	400	560	27
Nickel-Total	µg/L	30	72	170	31
Lead-Total	µg/L	24	720	66	15
Zinc-Total	µg/L	56	1,100	250	25

HM in water - dissolved			
Our Reference		373722-1	373722-2
Your Reference	UNITS	BH101	BH102
Date Sampled		20/02/2025	20/02/2025
Type of sample		Water	Water
Date prepared	-	26/02/2025	26/02/2025
Date analysed	-	26/02/2025	26/02/2025
Arsenic-Dissolved	µg/L	<1	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1
Chromium-Dissolved	µg/L	2	<1
Copper-Dissolved	µg/L	8	2
Iron-Dissolved	µg/L	860	730
Mercury-Dissolved	µg/L	<0.05	<0.05
Manganese-Dissolved	µg/L	25	110
Nickel-Dissolved	µg/L	28	20
Lead-Dissolved	µg/L	9	<1
Zinc-Dissolved	µg/L	23	72

Miscellaneous Inorganics				
Our Reference		373722-1	373722-2	373722-3
Your Reference	UNITS	BH101	BH102	BH103
Date Sampled		20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water
Date prepared	-	24/02/2025	24/02/2025	24/02/2025
Date analysed	-	24/02/2025	24/02/2025	24/02/2025
pH	pH Units	4.5	5.9	INS
Electrical Conductivity	µS/cm	640	830	INS
Turbidity	NTU	610	NT	INS
Total Dissolved Solids (grav)	mg/L	420	440	INS
Total Suspended Solids	mg/L	940	5,800	INS
Oil & Grease (LLE)	mg/L	<5	7	INS
Ammonia as N in water	mg/L	0.44	0.095	INS
Nitrate as N in water	mg/L	13	13	INS
Nitrite as N in water	mg/L	0.016	0.17	INS
NOx as N in water	mg/L	13	13	INS
Total Nitrogen in water	mg/L	21	22	INS
TKN in water	mg/L	8.2	9.3	INS
Organic Nitrogen as N	mg/L	7.7	9.2	INS

Ion Balance				
Our Reference		373722-1	373722-2	373722-3
Your Reference	UNITS	BH101	BH102	BH103
Date Sampled		20/02/2025	20/02/2025	20/02/2025
Type of sample		Water	Water	Water
Date prepared	-	24/02/2025	24/02/2025	24/02/2025
Date analysed	-	24/02/2025	24/02/2025	24/02/2025
Calcium - Dissolved	mg/L	29	87	47
Potassium - Dissolved	mg/L	28	30	10
Sodium - Dissolved	mg/L	32	25	88
Magnesium - Dissolved	mg/L	8.8	10	5.4
Hardness (calc) equivalent CaCO ₃	mg/L	110	260	140
Hydroxide Alkalinity (OH ⁻) as CaCO ₃	mg/L	<5	<5	INS
Bicarbonate Alkalinity as CaCO ₃	mg/L	8	210	INS
Carbonate Alkalinity as CaCO ₃	mg/L	<5	<5	INS
Total Alkalinity as CaCO ₃	mg/L	8	210	INS
Sulphate, SO ₄	mg/L	160	140	INS
Chloride, Cl	mg/L	31	25	INS
Ionic Balance	%	0	-5.0	[NT]

PFAS in Water TRACE Short			
Our Reference		373722-1	373722-2
Your Reference	UNITS	BH101	BH102
Date Sampled		20/02/2025	20/02/2025
Type of sample		Water	Water
Date prepared	-	25/02/2025	25/02/2025
Date analysed	-	25/02/2025	25/02/2025
Perfluorobutanesulfonic acid	µg/L	0.011	0.0069
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.0090	0.0051
Perfluorooctanesulfonic acid PFOS	µg/L	0.028	0.060
Perfluorooctanoic acid PFOA	µg/L	0.0098	0.010
6:2 FTS	µg/L	0.016	0.051
8:2 FTS	µg/L	<0.0004	<0.0004
Surrogate ¹³ C ₈ PFOS	%	113	121
Surrogate ¹³ C ₂ PFOA	%	90	86
Extracted ISTD ¹³ C ₃ PFBS	%	56	61
Extracted ISTD ¹⁸ O ₂ PFHxS	%	73	78
Extracted ISTD ¹³ C ₄ PFOS	%	83	86
Extracted ISTD ¹³ C ₄ PFOA	%	79	84
Extracted ISTD ¹³ C ₂ 6:2FTS	%	121	183
Extracted ISTD ¹³ C ₂ 8:2FTS	%	154	161
Total Positive PFHxS & PFOS	µg/L	0.037	0.066
Total Positive PFOS & PFOA	µg/L	0.037	0.071
Total Positive PFAS	µg/L	0.074	0.13

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-003	Oil & Grease - determine gravimetrically following extraction with Hexane, in accordance with APHA latest edition, 5520-B.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- $\text{TDS} = \text{EC} * 0.6$
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-022	Turbidity - measured nephelometrically using a turbidimeter, in accordance with APHA latest edition, 2130-B.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-040	The concentrations of the major ions (mg/L) are converted to milliequivalents and summed. The ionic balance should be within +/- 15% ie total anions = total cations +/-15%.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.

Method ID	Methodology Summary
Metals-020	Determination of various metals by ICP-AES. Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate). Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS.
Org-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date Extracted	-			24/02/2025	1	24/02/2025	26/02/2025		24/02/2025	[NT]
Date Analysed	-			25/02/2025	1	25/02/2025	27/02/2025		25/02/2025	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	100	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	1	1	<1	0	101	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	97	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	110	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	1	<1	<1	0	104	[NT]
Dibromomethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	109	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	1	<1	<1	0	101	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	1	<1	<1	0	108	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	1	<1	<1	0	104	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	107	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	1	<1	<1	0	108	[NT]
Bromoform	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	1	<2	<2	0	109	[NT]
Styrene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
o-xylene	µg/L	1	Org-023	<1	1	<1	<1	0	110	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	1	110	101	9	81	[NT]
Surrogate Toluene-d8	%		Org-023	96	1	96	91	5	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	1	104	102	2	99	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			24/02/2025	1	24/02/2025	26/02/2025		24/02/2025	[NT]
Date analysed	-			25/02/2025	1	25/02/2025	27/02/2025		25/02/2025	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	1	<10	<10	0	108	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	1	<10	<10	0	108	[NT]
Benzene	µg/L	1	Org-023	<1	1	<1	<1	0	104	[NT]
Toluene	µg/L	1	Org-023	<1	1	<1	<1	0	108	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	1	<1	<1	0	108	[NT]
m+p-xylene	µg/L	2	Org-023	<2	1	<2	<2	0	109	[NT]
o-xylene	µg/L	1	Org-023	<1	1	<1	<1	0	110	[NT]
Naphthalene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	1	110	101	9	81	[NT]
Surrogate Toluene-d8	%		Org-023	96	1	96	91	5	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	1	104	102	2	99	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	26/02/2025	[NT]
Date analysed	-			27/02/2025	[NT]	[NT]	[NT]	[NT]	27/02/2025	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	104	[NT]	[NT]	[NT]	[NT]	135	[NT]

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	26/02/2025	[NT]
Date analysed	-			28/02/2025	[NT]	[NT]	[NT]	[NT]	28/02/2025	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	70	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	74	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	71	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	74	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	74	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	69	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	65	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	81	[NT]	[NT]	[NT]	[NT]	74	[NT]

QUALITY CONTROL: OCPs in Water - Trace Level						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	26/02/2025	[NT]
Date analysed	-			28/02/2025	[NT]	[NT]	[NT]	[NT]	28/02/2025	[NT]
alpha-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	80	[NT]
HCB	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	70	[NT]
gamma-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	70	[NT]
delta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	77	[NT]
Heptachlor Epoxide	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	76	[NT]
gamma-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	69	[NT]
Dieldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	79	[NT]
Endrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	60	[NT]
Endosulfan II	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	75	[NT]
Endrin Aldehyde	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	71	[NT]
Endosulfan Sulphate	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methoxychlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	78	[NT]	[NT]	[NT]	[NT]	79	[NT]

QUALITY CONTROL: OP in water LL ANZECCF/ADWG					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	26/02/2025	[NT]
Date analysed	-			28/02/2025	[NT]	[NT]	[NT]	[NT]	28/02/2025	[NT]
Dichlorvos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	78	[NT]
Mevinphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Phorate	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dimethoate	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Diazinon	µg/L	0.01	Org-022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Disulfoton	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyrifos-methyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion-Methyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ronnel	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	77	[NT]
Fenitrothion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	105	[NT]
Malathion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	84	[NT]
Chlorpyrifos	µg/L	0.009	Org-022/025	<0.009	[NT]	[NT]	[NT]	[NT]	82	[NT]
Fenthion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion	µg/L	0.004	Org-022/025	<0.004	[NT]	[NT]	[NT]	[NT]	94	[NT]
Bromophos ethyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methidathion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fenamiphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	79	[NT]
Phosalone	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Azinphos-methyl (Guthion)	µg/L	0.02	Org-022/025	<0.02	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Coumaphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	78	[NT]	[NT]	[NT]	[NT]	79	[NT]

QUALITY CONTROL: PCBs in Water - Trace Level						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	26/02/2025	[NT]
Date analysed	-			28/02/2025	[NT]	[NT]	[NT]	[NT]	28/02/2025	[NT]
Aroclor 1016	µg/L	0.01	Org-021/022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	µg/L	0.01	Org-021/022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	µg/L	0.01	Org-021/022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	µg/L	0.01	Org-021/022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	µg/L	0.01	Org-021/022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	µg/L	0.01	Org-021/022/025	<0.01	[NT]	[NT]	[NT]	[NT]	118	[NT]
Aroclor 1260	µg/L	0.01	Org-021/022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	86	[NT]	[NT]	[NT]	[NT]	79	[NT]

QUALITY CONTROL: Total Phenolics in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			28/02/2025	[NT]	[NT]	[NT]	[NT]	28/02/2025	[NT]
Date analysed	-			28/02/2025	[NT]	[NT]	[NT]	[NT]	28/02/2025	[NT]
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-031	<0.05	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: HM in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			27/02/2025	3	27/02/2025	27/02/2025		27/02/2025	[NT]
Date analysed	-			27/02/2025	3	27/02/2025	27/02/2025		27/02/2025	[NT]
Arsenic-Total	µg/L	1	Metals-022	<1	3	11	[NT]		99	[NT]
Cadmium-Total	µg/L	0.1	Metals-022	<0.1	3	0.2	[NT]		102	[NT]
Chromium-Total	µg/L	1	Metals-022	<1	3	93	[NT]		101	[NT]
Copper-Total	µg/L	1	Metals-022	<1	3	220	[NT]		106	[NT]
Iron-Total	µg/L	10	Metals-022	<10	3	31000	[NT]		98	[NT]
Mercury-Total	µg/L	0.05	Metals-021	<0.05	3	<0.05	<0.05	0	102	[NT]
Manganese-Total	µg/L	5	Metals-022	<5	3	560	[NT]		96	[NT]
Nickel-Total	µg/L	1	Metals-022	<1	3	170	[NT]		101	[NT]
Lead-Total	µg/L	1	Metals-022	<1	3	66	[NT]		114	[NT]
Zinc-Total	µg/L	1	Metals-022	<1	3	250	[NT]		101	[NT]

QUALITY CONTROL: HM in water - dissolved					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date prepared	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	26/02/2025	[NT]
Date analysed	-			26/02/2025	[NT]	[NT]	[NT]	[NT]	26/02/2025	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Iron-Dissolved	µg/L	10	Metals-022	<10	[NT]	[NT]	[NT]	[NT]	89	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	117	[NT]
Manganese-Dissolved	µg/L	5	Metals-022	<5	[NT]	[NT]	[NT]	[NT]	93	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			24/02/2025	2	24/02/2025	24/02/2025		24/02/2025	[NT]
Date analysed	-			24/02/2025	2	24/02/2025	24/02/2025		24/02/2025	[NT]
pH	pH Units		Inorg-001	[NT]	2	5.9	[NT]		101	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	2	830	[NT]		100	[NT]
Turbidity	NTU	0.1	Inorg-022	<0.1	2	NT	[NT]		103	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	2	440	[NT]		103	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	2	5800	5500	5	97	[NT]
Oil & Grease (LLE)	mg/L	5	Inorg-003	<5	2	7	[NT]		89	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	2	0.095	[NT]		88	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	2	13	[NT]		96	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	2	0.17	[NT]		96	[NT]
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	2	13	[NT]		96	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	2	22	23	4	118	[NT]
TKN in water	mg/L	0.1	Inorg-062	<0.1	2	9.3	[NT]		[NT]	[NT]
Organic Nitrogen as N	mg/L	0.2	Inorg-055/062/127	<0.2	2	9.2	[NT]		[NT]	[NT]

QUALITY CONTROL: Ion Balance					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			24/02/2025	[NT]	[NT]	[NT]	[NT]	24/02/2025	[NT]
Date analysed	-			24/02/2025	[NT]	[NT]	[NT]	[NT]	24/02/2025	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	90	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	86	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	98	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	88	[NT]
Hydroxide Alkalinity (OH ⁻) as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bicarbonate Alkalinity as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbonate Alkalinity as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Total Alkalinity as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	107	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Chloride, Cl	mg/L	1	Inorg-081	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: PFAS in Water TRACE Short					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			25/02/2025	[NT]	[NT]	[NT]	[NT]	25/02/2025	[NT]
Date analysed	-			25/02/2025	[NT]	[NT]	[NT]	[NT]	25/02/2025	[NT]
Perfluorobutanesulfonic acid	µg/L	0.0004	Org-029	<0.0004	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.0002	Org-029	<0.0002	[NT]	[NT]	[NT]	[NT]	95	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.0002	Org-029	<0.0002	[NT]	[NT]	[NT]	[NT]	108	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.0002	Org-029	<0.0002	[NT]	[NT]	[NT]	[NT]	104	[NT]
6:2 FTS	µg/L	0.0004	Org-029	<0.0004	[NT]	[NT]	[NT]	[NT]	101	[NT]
8:2 FTS	µg/L	0.0004	Org-029	<0.0004	[NT]	[NT]	[NT]	[NT]	113	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	75	[NT]	[NT]	[NT]	[NT]	75	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	81	[NT]	[NT]	[NT]	[NT]	81	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	79	[NT]	[NT]	[NT]	[NT]	73	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	91	[NT]	[NT]	[NT]	[NT]	87	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	84	[NT]	[NT]	[NT]	[NT]	114	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	81	[NT]	[NT]	[NT]	[NT]	118	[NT]

Result Definitions	
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

VOC vials have headspace

Turbidity: Sample 2 could not be analysed due to the high concentration of solid matter.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Project No: 231957.01		Suburb: Ultimo		To: Envirolab Services	
Project Manager: Nerilee Edwards		Order Number:		Sampler: SP	
Email: Nerilee.Edwards@douglaspartners.com.au; Setareh.pourkazemi@douglaspartners.com.au				Attn: Sample Receipt	
Turnaround time: ☒ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au	
Prior Storage: ☒ Fridge ☐ Freezer ☐ Esky ☐ Shelf		Do samples contain 'potential' HBM? ☒ No ☐ Yes If YES, then handle, transport and store in accordance with FPM HAZID			

Lab ID	Sample ID			Date Sampled	Sample Type S - soil W - water M - material	Container Type G - glass P - plastic	Analytes														Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To				CW008_T	CW004_T	Dissolved metals	BTEX, TRH	PFAS	VOC	Anions and cations	pH, EC, turbidity, TDS, TSS	nitrogen suite	Hardness	oil and grease				
1	BH101	-	-	20/02/25	W	G/P	x		x		x	x	x	x	x	x	x			PFAS, trace level, short suite. OCP, OPP, PCB trace level PAH low level Metals: pls see below Sample 103 - pls analyse analytes from left to right until you run out of sample	
2	BH102	-	-	20/02/25	W	G/P	x		x		x	x	x	x	x	x	x				
3	BH103	-	-	20/02/25	W	G/P		x				x	x	x	x	x	x				
4	GWD1/20250220	-	-	20/02/25	W	G/P		x													
5	TS/20250220	-	-	20/02/25	W	Vials				BTEX											
6	TB/20250220	-	-	20/02/25	W	Vials				x											

Metals to analyse: As, Cd, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Zn		LAB RECEIPT	
Number of samples in container:		Transported to laboratory by: Courier	
Send results to: Douglas Partners Pty Ltd		Lab Ref. No: 373722	
Address: 96 Hermitage Road, West Ryde NSW 2114		Received by: Kathy Wayne	
Relinquished by: SP		Date & Time: 21/02/25 1400	
Phone: (02) 9909 0666		Signed: Setareh Pourkazemi	
Date: 21/02/2025		Signed:	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 5200

Job No: 373722

Date Received: 21/02/25
Time Received: 1400
Received By: KW
Temp: Cool/Ambient
Cooling: Ice/icepack 12°C
Security: Intact/Broken/None

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Nerilee Edwards

Sample Login Details

Your reference	231957.01, Ultimo
Envirolab Reference	373722
Date Sample Received	21/02/2025
Date Instructions Received	21/02/2025
Date Results Expected to be Reported	28/02/2025

Sample Condition

Samples received in appropriate condition for analysis	VOC vials have headspace
No. of Samples Provided	6 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Please contact the laboratory within 24 hours if you wish to cancel the aforementioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

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Sample ID	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	OCPs in Water - Trace Level	OP in water LL ANZECCF/ADWG	PCBs in Water - Trace Level	Total Phenolicsin Water	HM in water - total	HM in water - dissolved	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids(grav)	Total Suspended Solids	Oil & Grease (LLE)	Ammonia as N in water	Nitrate as N in water	Nitrite as N in water	NOx as N in water	Total Nitrogen in water	TKN in water	Organic Nitrogen as N	Calcium - Dissolved	Potassium - Dissolved	Sodium - Dissolved	Magnesium - Dissolved	Hardness (calc) equivalent CaCO3	Hydroxide Alkalinity (OH-) as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Total Alkalinity as CaCO3	Sulphate, SO4	Chloride, Cl	Ionic Balance	PEAS in Water TRAC Short
BH101	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BH102	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BH103	✓	✓	✓	✓				✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
GWD1/20250220		✓	✓	✓				✓	✓																											
TS/20250220		✓																																		
TB/20250220		✓																																		

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The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Appendix N

Quality Assurance and Quality Control

1. Field and laboratory data quality assurance and quality control

The field and laboratory data quality assurance and quality control (QA / QC) procedures and results are summarised in the following Table 1. Reference should be made to the field work methodology and the laboratory results / certificates of analysis for further details. The relative percentage difference (RPD) results, along with the other field QC samples are included in the summary results tables OR at the end of this appendix.

Table 1: Field and laboratory quality control

Item	Evaluation / acceptance criteria	Compliance
Analytical laboratories used	NATA accreditation	C
Holding times	Various based on type of analysis	C
Intra-laboratory replicates (soil and groundwater)	10% of primary samples; <30% RPD	C PC
Trip spikes	1 per sampling event; 60-140% recovery	C
Trip blanks	1 per sampling event; <PQL	C
Rinsates	1 per sampling event; <PQL	PC
IPA Leakage test	IPA in sample ≤10% of IPA in shroud	C
Shut in test	Vacuum decrease of ≤0.5% inch.Hg	C
Laboratory / reagent blanks	1 per batch; <PQL	C
Laboratory duplicate	1 per lab batch; as laboratory certificate	PC
Matrix spikes	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Surrogate spikes	All organics analysis; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Control samples	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Standard operating procedures (SOP)	Adopting SOP for all aspects of the sampling field work	C

Notes:

C = compliance; PC = partial compliance; NC = non-compliance

The RPD results were all within the acceptable range, except for metals and PAH in soils indicated in Table QA1 (results in bold). The exceedances are not, however, considered to be of concern given that:

- The actual differences in the concentrations of the replicate pairs where RPD exceedances occurred were typically low;

- The replicate pairs were collected from fill soils which by its nature are heterogeneous; and
- Replicates, rather than homogenised duplicates, were used to minimise risk of volatile loss, hence greater analytical variability between replicate pairs can be expected.

The PRD results for groundwater samples were all within the acceptable range as indicated in Table QA2, except for metals. The exceedances are not, however, considered to be on concern given that:

- The typically low actual differences in the concentrations of the replicate pair where some PRD exceedances occurred; and
- Most of the recorded concentrations being relatively close to PQL.

The RPD results for soil vapour samples were all within the acceptable range as indicated in table QA3.

A trip spike and trip blank were taken into the field during the soil and groundwater sampling with results summarised in Tables QA4 and AQ5. No analytes were reported above the PQL in the trip blank sample for soil and groundwater. All results in the trip spike samples were within the acceptable range of recovery.

No rinsate samples were collected during soil and groundwater sampling as re-usable sampling equipment was not used. Where possible soil samples were collected from recovered materials which had not been in contact with drilling equipment.

The results for leakage testing for vapour sampling are provided in Table QA6. Result was less than the allowance leakage of $\leq 10\%$ IPA in shroud for samples, with a maximum recorded result of 0.084%. This is indicative of no significant leakage occurring.

The laboratory reported exceedances of the acceptable RPD values for metals and PAH in their replicate analysis. The laboratory considered this to be due to heterogeneity in the samples, which is consistent with Douglas' field observations and laboratory results.

The laboratory certificates included the following additional comments:

- Asbestos was subsampled from the containers sent for analysis. This is not considered to be of concern as no potential asbestos containing material was observed in the fill in the field, and as such subsampling in the laboratory is considered to be equivalent to subsampling in the field;
- The VOC vials had headspace, this has been considered in assessing the results, with groundwater results also assessed with consideration of the soil vapour results;
- Sample BH102 had elevated suspended solids, preventing some analysis. This is consistent with turbidity results observed in the field; and
- The PQL was raised in the ambient air sample due to the limited sample volume. Douglas notes the PQL were less than the SAC.

In summary, the QC data is determined to be of sufficient quality to be considered acceptable for the assessment.

2. Data quality indicators

The reliability of field procedures and analytical results was assessed against the following data quality indicators (DQI) as outlined in NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013):

- Completeness: a measure of the amount of usable data from a data collection activity;
- Comparability: the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness: the confidence (qualitative) of data representativeness of media present on-site;
- Precision: a measure of variability or reproducibility of data; and
- Accuracy: a measure of closeness of the data to the 'true' value.

The results of the assessment are summarised in Table 2.

Table 2: Data quality indicators

Data quality indicator	Method(s) of achievement
Completeness	A judgemental target sampling methodology was adopted for the site based on the site history, previous investigation, site observations and access constraints.
	Preparation of borehole logs, sample location plan and chain of custody records.
	Preparation of field groundwater, soil vapour and ambient air sampling sheets.
	Laboratory sample receipt information received confirming receipt of samples intact and appropriateness of the chain of custody.
	Samples analysed for contaminants of potential concern (CoPC) identified in the conceptual site model (CSM).
	Completion of chain of custody documentation.
	NATA accredited laboratory results certificates provided by the laboratory.
	Satisfactory frequency and results for field and laboratory quality control (QC) samples as discussed in Section 1.
Comparability	Using appropriate techniques for sample recovery, storage and transportation, which were the same for the duration of the project.
	Experienced sampler(s) used.
	Use of NATA registered laboratories, with test methods the same or similar between laboratories.
	Satisfactory results for field and laboratory QC samples.

Data quality indicator	Method(s) of achievement
Representativeness	Representative samples were collected at sample locations at various depths.
	Sample numbers recovered and analysed are considered to be representative of the target media and complying with DQO.
	Samples were extracted and analysed within holding times.
	Samples were analysed in accordance with the chain of custody.
Precision	Field staff followed standard operating procedures.
	PRD of >30% exceedances occurred for field duplicate in samples between primary and secondary samples for soil and groundwater. However, this appears to be due to heterogeneity and the concentrations of all samples analysed were below the SAC.
	Satisfactory results for all other field and laboratory QC samples.
Accuracy	Field staff followed standard operating procedures.
	Satisfactory results for all field and laboratory QC samples.

Based on the above, it is considered that the DQI have generally been complied with.

3. Conclusion

Based on the results of the field QA and field and laboratory QC, and evaluation against the DQI it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

4. References

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.



Table QA1: Relative Percentage Difference Results – Soil

Lab Report No	Sample ID	Depth	Sample Date	Sample Type	Units	Metals								PAH														Priority TRH						BTEX					
						Total Arsenic	Cadmium	Total Chromium	Copper	Lead	Mercury (inorganic)	Nickel	Zinc	Naphthalene b	Benzo(a)pyrene (BaP)	Benzo(a)pyrene TEQ (BaP TEQ)	Total PAH	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	TRH C6 - C10	TRH >C10-C16	F1 ((C6-C10)-BTEX)	F2 (>C10-C16 (less Naphthalene))	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
371281	BH107	0.5 - 0.7 m	21/01/25	Soil	mg/kg	5	<0.4	8	72	220	0.7	5	130	<1	2	2.7	15	<0.1	0.2	0.3	1.1	1	1	0.2	2.2	<0.1	1.4	1.1	2.1	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1
371281	BD2/20250121	0.5 - 0.7 m	21/01/25	Soil	mg/kg	<4	<0.4	9	35	470	2	4	270	<1	0.91	1.3	7.9	<0.1	<0.1	0.1	0.7	0.6	0.7	0.1	1.2	<0.1	0.4	0.6	1.2	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1
			Difference		mg/kg	1	0	1	37	250	1.3	1	140	0	1.09	1.4	7.1	0	0.1	0.2	0.4	0.4	0.3	0.1	1	0	1	0.5	0.9	0	0	0	0	0	0	0	0	0	
			RPD		%	22%	0%	12%	69%	72%	96%	22%	70%	0%	75%	70%	62%	0%	67%	100%	44%	50%	35%	67%	59%	0%	111%	59%	55%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
376087-1	BH103	1.3-1.5 m	14/02/2025	Soil	mg/kg	<4	<0.4	7	14	51	0.1	2	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1200313-S	BD3/20250214	1.3-1.5 m	14/02/2025	Soil	mg/kg	2.8	<0.4	7.3	16	39	0.2	<5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Difference		mg/kg	1.2	0	0.3	2	12	0.1	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			RPD		%	35%	0%	4%	13%	27%	43%	86%	8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table QA2: Relative Percentage Difference Results: Groundwater

Lab Report No	Sample ID	Sample Date	Sample Type	Units	Metals										TRH				BTEX						PAH																	
					Total Arsenic	Cadmium	Total Chromium	Copper	Iron	Lead	Manganese	Mercury (Inorganic)	Nickel	Zinc	F1 (CS-CO3-BTEX)	F2 (C8-C8 less naphthalene)	F3 (C9-C14)	F4 (C14-C40)	Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylene	Total Xylenes	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Naphthalene	Benzo(b)pyrene (BaP)	Benzo(k)fluoranthene	Benzo(a)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	Sum of detected PAH		
373722	BH101	20/02/25	Water	µg/L	3	<0.1	19	30	4,300	24	37	<0.05	30	56	<10	<50	<100	<100	<1	<1	<1	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
373722	GWD/20250220	20/02/25	Water	µg/L	1	<0.1	4	10	1,200	15	27	<0.05	31	25	<10	<50	<100	<100	<1	<1	<1	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
		Difference		µg/L	2	0	15	20	3,100	9	10	0	1	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		RPD		%	100%	0%	130%	100%	113%	46%	31%	0%	3%	77%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		

Table QA3: Relative Percentage Difference Results – Intra-laboratory Replicates: Soil Vapour Samples

		BTEX						VOC				
		Benzene	Toluene	Ethylbenzene	Total Xylenes	o-Xylene	Naphthalene	trans-1,2-dichloroethene (trans-DCE)	cis-1,2-dichloroethene (cis-DCE)	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Vinyl chloride
Sample ID	Date	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
105A	25/03/2025	4	40	10	40	10	<2.6	<2	<2	<2.7	<3.4	<1.3
BD	25/03/2025	4	42	10	40	10	<2.6	<2	<2	<2.7	<3.4	<1.3
	Difference	0	2	0	0	0	0	0	0	0	0	0
	RPD	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Table QA4: Trip Blank Results

Sample ID	Sample Date	Media Being Sampled	Sample Type	Units	Priority PAH	Priority TRH		TRH	BTEX				Lab Report No
					Naphthalene ^b	TRH C6 - C10	FI ((C6-C10)-BTEX)	TRH C6 - C9	Benzene	Toluene	Ethylbenzene	Total Xylenes	
TB	21/01/2025	Soil	Soil	mg/kg	<1	<25	<25	<25	<0.2	<0.5	<1	<1	371281
TB	20/02/2025	Water	Water	µg/L	<1	<10	<10	-	<1	<1	<1	<1	373722

Table QA5: Trip Spike Results (% Recovery)

Sample ID	Sample Date	Media Being Sampled	Sample Type	Benzene	Toluene	Ethylbenzene	o-Xylene	m+p-Xylene	Lab Report No
TS	21/01/2025	Soil	Soil	96	89	100	94	95	371281
TS	20/02/2025	Water	Groundwater	116	117	121	117	114	373722

Table QA6: IPA Leakage Test Results – Vapour Sampling

Sample ID	Sample Date	Isopropyl Alcohol (IPA)	IPA as a percentage of concentration in Shroud sample
		µg/m3	%
Shroud Sample (where tracer added)			
Shroud	20/02/25	1,300,000	-
Soil Vapour Samples			
BH105A	20/02/25	1,100	0.0846%