PRELIMINARY AND DETAILED SITE CONTAMINATION INVESTIGATION REPORT

PROPOSED RESIDENTIAL DEVELOPMENT
1 & 1A EDWARD STREET & 25 & 27 ROSEDALE ROAD,
GORDON NSW 2072

PREPARED FOR EDWARDS ST RESIDENCE DM PTY LTD
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EXECUTIVE SUMMARY

Geo-Environmental Engineering Pty Ltd (GEE) was commissioned by CPDM Pty Ltd, on behalf of Edward Street Residence DM Pty Ltd, to undertake a Preliminary and Detailed Site Investigation (PSI/DSI) at 1–1A Edward Street and 25–27 Rosedale Road, Gordon NSW. The work was required to support an Environmental Impact Statement (EIS) and State Significant Development Application (SSDA) for the proposed construction of two multi-storey residential flat buildings with in-fill affordable housing above a two to three-level basement.

The site covers the following four allotments:

Address	Lot	Area (on Survey)
1 Edward Street	Lot A in DP 189351	1,843sqm
1a Edward Street	Lot C in DP 334965	1,710sqm
25 Rosedale Road	Lot B in DP 334965	850.7sqm
27 Rosedale Road	Lot A in DP 334965	1,542sqm
Total Area		5,945.7sqm

Site history

The site was subdivided in the late 1930s and developed for residential use, which has remained the predominant land use to the present day. Modifications included swimming pools at 25 and 27 Rosedale Road, a tennis court at 1A Edward Street, and various extensions, outbuildings and landscaping. In 2014, 27 Rosedale Road was converted into a dental practice (Gordon Dental), a commercial but low-risk use. No industrial or contaminating activities have been identified.

Surrounding land

The surrounding area has been residential since the 1930s. Low-risk institutional and commercial uses included the Lady Gowrie Red Cross Convalescent Home (10 Edward Street) and a small vacuum cleaner service business (9 Robert Street). Higher-risk land uses (service stations, gasworks) were identified >900 m from the site and are unlikely to have affected the site given the distance and low-permeability soils/bedrock.

Site inspection and investigation

A site inspection confirmed residential development with associated landscaping, pools, outbuildings, carparks and a tennis court. No evidence of surface staining, odours, storage tanks or surface asbestos was observed.

Seventeen environmental boreholes (BH1 to BH17) were drilled, and 39 soil samples were analysed for metals, TRH, BTEXN, PAHs, OCPs, OPPs, PCBs and asbestos. No analytes exceeded adopted health-based site assessment criteria, and no asbestos fibres were detected. Fill layers contained minor anthropogenic inclusions (brick, concrete, slag, glass), but no contamination was identified.

Conclusion

The results of the PSI/DSI confirm that the site is suitable for the proposed residential development without the need for further investigation or remediation.

1 PROJECT INFORMATION

1.1 INTRODUCTION AND OBJECTIVES

Geo-Environmental Engineering Pty Ltd (GEE) was commissioned by CPDM Pty Ltd, on behalf of Edward Street Residence DM Pty Limited, to undertake a preliminary and detailed site contamination investigation at 1 – 1A Edwrd Street and 25 – 27 Rosedale Road, Gordon New South Wales 2072 (herein referred to as the 'site' – **Figure 1**). The site covers an area of approximately 5,999.24m^2 (by title) and encompasses the following four allotments:

Address	Lot	Area (on Survey)
1 Edward Street	Lot A in DP 189351	1,843sqm
1a Edward Street	Lot C in DP 334965	1,710sqm
25 Rosedale Road	Lot B in DP 334965	850.7sqm
27 Rosedale Road	Lot A in DP 334965	1,542sqm
Total Area		5,945.7sqm

This PSI and DSI relates to the proposed construction of multi-storey, residential flat buildings with in-fill affordable housing and multiple basement level. A survey plan and a copy of the architectural plans are provided for reference in **Appendix A**. This report accompanies an Environmental Impact Statement (EIS) pursuant to Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act), in support of a State Significant Development Application (SSDA) for the proposed development (reference SSD-85549710).

The objective of the investigation was to address the requirements of Issue 13 entitled '*contamination and remediation'* from the "*Planning Secretary's Environmental Assessment Requirements Housing*" document published by the NSW Department of Planning, Housing and Infrastructure Planning (Reference 1). The requirement mandates an assessment of site contamination in accordance with the *State Environmental Planning Policy (Resilience and Hazards) 2021* (Reference 2). This requirement specifies the preparation of a PSI as a minimum and if required further investigations and reports in the form of a Detailed Site Investigation (DSI) and potentially a Remedial Action Plan.

GEE has completed a *Preliminary Site Investigation* (PSI) and a *Detailed Site Investigation* (DSI) in accordance with the NSW Environment Protection Authority (NSW EPA) in the *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land* (Reference

3) and NEPM 1999 (revised 2013) Schedule B(2) *Guideline on Site Characterisation* (Reference 4).

Finally, the field investigations were completed in conjunction with a geotechnical investigation by Morrow Geotechnics, the results of which are reported separately. However, borehole logs from their investigation have been referenced within this report to supplement our understanding of deeper subsurface geological conditions.

1.2 PROPOSED DEVELOPMENT

According to the architectural plans prepared by PMDL Architecture + Design (refer to **Appendix A**), it is proposed to demolish all existing dwellings and associated structures to facilitate the construction of two, nine storey residential flat buildings, comprising of:

- ◊ 119 residential units, including affordable housing apartments
- ◊ Basement levels, and,
- ◊ Associated infrastructure.

The proposed buildings (labelled as building A and B) will be constructed above a shared two to three level basement accommodating vehicle parking, waste storage, and services. Vehicular access to the basement will be provided via a driveway from Edward Street, located at the northern end of the site.

On the ground floor, there will be communal open space and landscaped gardens between the two buildings and around the perimeter of the site.

1.3 PREVIOUS INVESTIGATIONS

GEE is not aware of any previous site contamination investigations having taken place on the site or part thereof.

As noted above, Morrow Geotechnics were undertaking a geotechnical investigation at the site to support the proposed development, with this investigation comprising the drilling and logging of five boreholes (BH101 to BH105) across the site to depths of between 2.45m and 15.0m. Groundwater wells were also installed within BH101 to BH103 to measure stabilised groundwater levels.

These investigations do not provide any specific information about the contamination status of the site; however, they do provide useful information on the subsurface conditions, including groundwater depths and potential flow direction. The information

from these boreholes and well have been incorporated into our summary of the subsurface conditions across the site (Refer to Sections 6.1.2), while a copy of the borehole logs are also provided in **Appendix B**.

The approximate locations of these boreholes are also shown on **Figure 2** (along with an extract from the survey) and **Figure 3** (with a recent aerial photograph).

1.4 Scope of Works

The scope of works completed by GEE, to achieve the above objectives, is provided below:

- A review of the environmental and physical setting in which the site lies, including geology, hydrogeology and topography,
- A review of the history of the site and surrounding land using readily available records and historical aerial photographs,
- A site inspection for potential sources of contamination,
- Preparation of an initial Conceptual Site Model (CSM), and
- Field investigations including:
  - The drilling and logging of seventeen boreholes (BH1 to BH17) at accessible locations across the site, and
  - The collection of soil samples from each of the boreholes.
- Laboratory analysis of selected soil samples for a broad suite of potential contaminants, and
- Preparation of this report including the comparison of the laboratory analytical results against relevant NSW EPA endorsed guidelines.

2 SITE IDENTIFICATION

A summary of the site location details is provided below, while a site location map is provided as **Figure 1**:

Street Address:	1 and 1A Edward Street & 25 and 27 Rosedale, Gordon NSW 2072
Legal Description:	Lot A in Deposited Plan (DP) 189351 (No. 1 Edward Street) Lot C in DP 334965 (No. 1A Edward Street) Lot B in DP 334965 (No. 25 Rosedale Road) Lot A in DP 334965 (No. 27 Rosedale Road)
Coordinates (MGA 56):	-33.754081 Lat., 151.157303 Long.
Local Government Area:	Ku-ring-gai Council
Site Area:	5,945.7 m^2
Current Zoning:	R2 – Low Density Residential[1]
Current Use:	Residential
Proposed Zoning:	R2 – Low Density Residential
Proposed Use:	Residential

[1] Ku-ring-gai Local Environment Plan (LEP) 2015

3 SITE HISTORY

The history of the site was researched to provide an understanding of past and present site activities which in turn may indicate sources and areas of potential contamination.

Information obtained and reviewed included:

- ◊ Historical aerial photographs dating back to 1938, as supplied by the NSW Land and Property Information, or online sources such as Google Earth, and obtained by Lotsearch Pty Ltd.
- ◊ Historical title information obtained from Advance Legal Searchers Pty Ltd.
- ◊ Available business directory records from between 1950 and 1991 which is provided in the Lotsearch Report.
- ◊ An internet search for any relevant historical information about the site.
- ◊ Council records of past development applications and approvals.
- ◊ A search of historical Google Street View Photographs.
- ◊ A search of the contaminated land database, which is available on the NSW EPA website, was conducted which reveals if there have been any records of written notices issued on the site by EPA under the Contaminated Land Management Act 1997 (CLM Act), including preliminary investigation orders. Additionally, the search can reveal if the site has ever been notified to the EPA under Section 60 duty to report contaminated sites, of the CLM Act.
- ◊ A search of records under the PFAS investigation program.
- ◊ A search of the NSW EPA Protection of the Environment Act public register of licences, applications and notices that are maintained under Section 308 of the Protection of the Environment Operations (POEO) Act 1997.
- ◊ A search of national, state and local heritage registers.

3.1 HISTORICAL AERIAL PHOTOGRAPHS

Historical aerial imagery was sourced by Lotsearch and is provided in **Appendix C**. This included aerial photographs captured between 1930 and 2025. A summary of observed site features and relevant changes over time is presented below, based on a review of these images and supported by site inspection observations where applicable.

Relevant features are also shown on **Figure 2** (annotated site survey) and **Figure 3** (recent aerial photograph).

Year	**Site**	**Surrounding Land**
1930	The photo is not very clear. However, key observations included: 1 Edward St The existing house was visible at the front half of the property with lawns/gardens at the rear. A small rectangular-roofed shed/outbuilding was also visible in the southwestern part of the rear yard. 1A Edward St & 27 Rosedale Rd The two allotments appeared to be part of a larger land parcel. A large building (likely a dwelling) was observed centrally across these properties. The remaining land appeared to be grassed with some along the northern boundary. 25 Rosedale Rd A house was visible at the front of the site with lawns/gardens at the rear.	The existing roads within proximity of the site are established and the land is predominately developed with detached, low-density properties.
1943	1 Edward St No significant changes. 1A Edward St & 27 Rosedale Rd The original large building visible in 1930 had been demolished and replaced with the existing buildings (dwellings) on each of these allotments. The remainder of the allotments appeared to be lawn/garden, although the existing tennis court on 1A Edward St is visible. 25 Rosedale Rd No significant changes.	The previously undeveloped open land to the west-southwest of the site has since been transformed into a similar low-density residential area.

1951	No significant changes.	No significant changes.
1955, 1956	No significant changes.	No significant changes.
1961	No significant changes.	No significant changes.
1965	1 Edward St, 25 & 27 Rosedale Rd Some former trees and other vegetation have been cleared from the yards of these properties. 1A Edward St A small, white-roofed attached extension was visible at the southwestern corner of the dwelling.	No significant changes.
1970	1 Edward St An L-shaped attached extension was observed to the southwest of the dwelling. The rear yard was cleared of trees, and a new tree is visible in the front yard. 1A Edward St & 27 Rosedale Rd No significant changes 25 Rosedale Rd The original dwelling no longer visible and the existing dwelling has been constructed.	No significant changes.

1978	1 Edward St By 1978, the small shed at the center of the rear yard is no longer visible and likely demolished. 1A Edward St 27 Rosedale Rd No significant changes 25 Rosedale Rd The existing pool had been constructed. 27 Rosedale Rd No significant changes	No significant changes.
1982	No significant changes.	By 1982, 10E Edward Street underwent significant expansion, with the original structures substantially extended to accommodate a large, multi-wing building footprint.
1986	No significant changes.	No significant changes.
1991	1 Edward St No significant changes. 1A Edward St The southwestern attached extension of the structure had been further extended slightly southward, featuring a white roof. 27 Rosedale Rd A pool was constructed in the northeastern corner, adjoining the western boundary of 1A Edward Street.	No significant changes.

	25 Rosedale Rd There was a small extension to the southeastern side of the house. An additional extension constructed midway along the southern boundary had also been visible.	
1994	No significant changes.	No significant changes.
2005	No significant changes.	The previous residential dwelling at 21 Rosedale Road to the South of the site has been replaced by the existing structure.
2014	1 Edward St The main roof structure also appeared to have been altered suggesting that another level was added to the original dwelling. Additionally, the existing outbuilding was constructed midway along the western boundary and is attached to south-western corner of the dwelling. There have also been changes to the rear yard. 1A Edward St, 25 & 27 Rosedale Rd No significant changes.	No significant changes.

2025	1 Edward St No significant changes 1A Edward St By 2025, paved walkways were visible around the perimeter of the main dwelling. 25 Rosedale Rd A likely pergola was present to the east of the house, providing coverage over the narrow side yard area. 27 Rosedale Rd The pool to the north of the house had been replaced by an at-grade parking area with access from Edward Street.	The previous substantial multi-wing structures at 10E Edward Street had been transformed into multiple detached dwellings, as well as an apartment building (Gordon Quarter).

A summary of the aerial photography information is provided below for the site and the surrounding area.

1 Edward Street

A detached dwelling was present from at least 1930, with gardens and a shed to the rear. In the late 1960s, an L-shaped extension was added, and tree planting occurred. By 1978, the rear shed had been removed. Between 2009 and 2014, the main dwelling underwent roof alterations, possibly to accommodate an additional storey, and a new outbuilding was constructed to the west.

1A Edward Street

This allotment originally formed part of a larger parcel with 27 Rosedale Street, occupied by a single dwelling until the early 1940s. By 1943, the original dwelling had been demolished and the existing residence constructed. A tennis court was also established at the rear at this time. A small extension was added in the late 1960s. Between 2020 and 2025, further landscaping and paved walkways were added.

25 Rosedale Street

A detached dwelling was present from at least 1930. The original residence was replaced in the late 1960s. In the 1970s, a swimming pool had been constructed at the rear. A pergola structure was added between 2020 and 2025.

27 Rosedale Street

This allotment originally formed part of a larger parcel with 1A Edward Street and contained a single dwelling until the early 1940s. By 1943, the original residence had been demolished and replaced with the existing dwelling. Between the early 1990s and 2003, a swimming pool was constructed in the north-eastern corner of the front yard, adjacent to Edward St, but in c2014 it was removed and replaced with the existing surface car parking area accessed from Edward Street.

Surrounding Land

The surrounding land use has consistently remained residential in character, with no evidence of nearby commercial or industrial operations. The progressive urbanisation pattern and absence of contaminating activities in the immediate vicinity further support the preliminary assessment of low off-site risk potential.

3.2 HISTORICAL TITLE INFORMATION

A copy of the historical title information dating back to the early 1900s is provided for reference in **Appendix D**, while a summary is provided below:

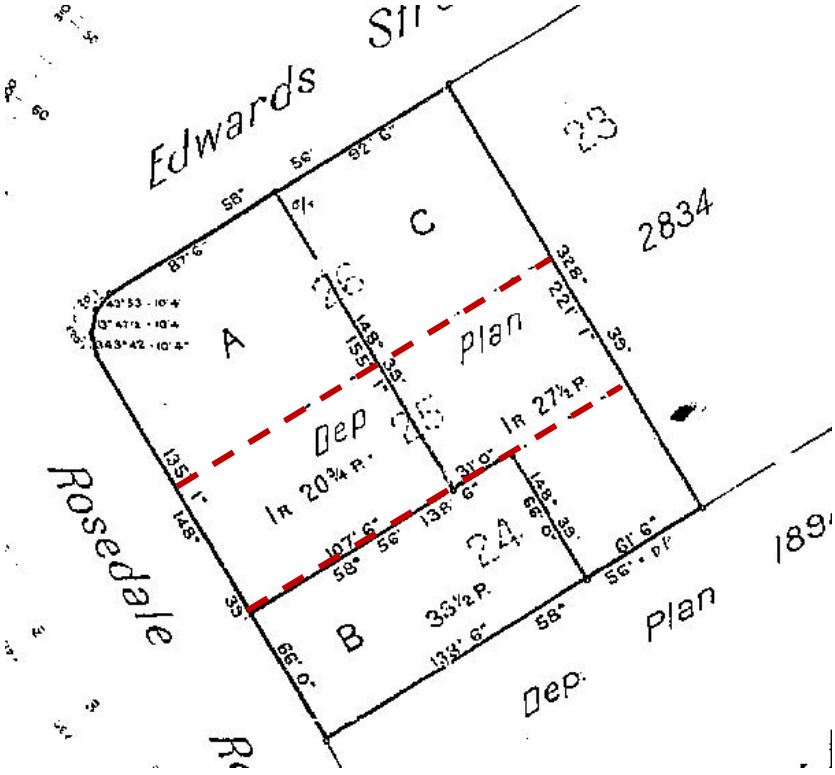
1 Edward Street (Lot A in DP 189351)

This allotment was created in 1938 following the subdivision of a larger land parcel (Lot 23 in DP 2834, approximately 2,137 m²) which also included land to the south. The property has predominantly been held by various individuals, indicating long-term residential use.

The only exception was a period of ownership by Birriga Investments Pty Limited from 1963 to 1973, prior to its transfer to Wilfred Philip McDowell. Based on available public records, Birriga Investments operated as a private investment entity and likely leased the property for residential purposes. No evidence of commercial or industrial activity was identified.

25 & 27 Rosedale Road, 1A Edward Street (Lot A, B & C in DP 334965)

These three allotments were created in 1937 via the realignment of three former parcels of land covering the same area as the existing allotments. This is depicted in the extract of the subdivision plan below.



The configuration has remained unchanged since that time.

Ownership of these lots has also been dominated by private individuals, consistent with residential land use. However, the following exceptions were noted:

- 1A Edward Street (Lot C) - Owned by Yarrabung Pty Ltd between 2019 and 2021. Yarrabung is an investment entity, and the property was presumably used as a rental residence during this time.
- 25 Rosedale Street (Lot B) - Owned by A.M.K. Construction Pty Ltd between 1970 and 1971, coinciding with the construction of the current dwelling. There is no indication of ongoing commercial operations during this ownership.
- 27 Rosedale Street (Lot A) - Owned by Gordon Dental Pty Ltd since 2013. Based on observations during the site inspection, this property is currently used as a dental practice, representing a commercial (but low-risk) use.

In summary, the historical title information confirms that the site has been used primarily for residential purposes since subdivision in the 1930s. The few corporate owners appear to be investment or construction entities, with no evidence of industrial activity or contaminating land uses. Based on this review, no significant contamination risk is associated with the land title history.

3.3 Business Directory Listings

A review of historical business directory listings from 1950 to 1991 was completed by Lotsearch (refer to **Appendix C**) to assist in identifying any former land uses that may represent a source of contamination.

Site-Specific Listings

No historical business listings were recorded within the boundaries of the subject site.

Surrounding Land

A limited number of businesses were identified in the immediate vicinity, including:

- Lady Gowrie Red Cross Convalescent Home, listed at 10 Edward Street (approximately 22 m north) in 1961.
- Vacuum cleaner sales and service provider, listed at 9 Robert Street (approximately 139 m southwest).

These businesses represent low-risk land uses from a contamination perspective, involving either institutional care or minor commercial/retail services.

Higher-risk land uses such as dry cleaners, automotive service stations, and printing businesses were identified by Lotsearch at greater distances, generally beyond 200 m from the site. Given the separation distance and the low permeability of the regional soils and bedrock, it is unlikely that these off-site sources have resulted in contamination of the subject site.

3.4 Internet Search and Anecdotal Information

An internet search of the site and general area was completed by GEE to gain any relevant information relating to past land-use activities. This included a review of potential historical photographs. However, no relevant to our investigation was found.

3.5 Council Records

GEE used the online development application search tool provided by Council to inquire about past development applications and approvals relating to the site which can provide an indication of past land-use activities.

The search identified the following application items related to the 27 Rosedale Road property:

Lodgment Date	Application / Approval	Determination and Date	Description
6 Mar 2014	Construction Certificate Application (CCPCA0070/14)	Approved 24 Feb 2014	Convert existing dwelling to professional consulting rooms and dwelling.

3.6 Google Street View Photographs

Google provides Street View images for the site at regular intervals between 2008 and 2024. A review of these images revealed that the existing development on the site has remained relatively unchanged. The only notable observation was at the 27 Rosedale Road property where it was evident that the former dwelling was converted into a Dental practice (i.e. Gordon Dental) between March 2013 and September 2018.

3.7 Contaminated Land Database

A search of the NSW Environment Protection Authority (EPA) contaminated land database was completed to identify any records of regulatory action under the Contaminated Land Management Act 1997 (CLM Act).

The Site

There are no records of written notices issued for the subject site by the EPA under the CLM Act, including preliminary investigation orders, management orders, or ongoing regulation. The site has also not been notified to the EPA under Section 60 of the CLM Act (duty to report contaminated sites).

Surrounding Land

Three properties located within a 1 km radius of the site have been notified to the EPA under Section 60 of the CLM Act. Two of these sites have previously been subject to formal regulation. A summary of these properties is provided in the table below.

Site	Address	Suburb	Activity	Management Class	Distance (m)	Direction
Land adjacent to Former Service Station Site	684-684a, 690, 692 and 696 Pacific Highway	Killara	Service Station	Contamination formerly regulated under the CLM Act	914	South
Former Caltex Service Station	692B-694 Pacific Highway	Killara	Service Station	Contamination formerly regulated under the CLM Act	945	South
Former 3M site	950 Pacific Highway	Pymble	Gasworks	Regulation under CLM Act not required	983	West

These sites involve historical land uses commonly associated with hydrocarbon and solvent contamination, with the potential for off-site migration via groundwater or vapour pathways, particularly where volatile and mobile contaminants are involved.

While these properties represent potential regional sources of contamination, they are located at considerable distances from the site (>900 m) and given the relatively low permeability of the residual soils and underlying bedrock, it is unlikely that contamination from these properties has migrated to the subject site.

3.8 EPA PFAS Investigation Program

A search of sites that are part of the EPA, Defence or Airservices Australia PFAS investigation programs was completed by Lotsearch (**Appendix B**) and identified no records within a 1km buffer.

3.9 POEO Register Search

A search of the NSW EPA Protection of the Environment Operations Act 1997 (POEO Act) public register was undertaken as part of the Lotsearch report. The register includes information on environment protection licences, applications, notices, penalties, prosecutions, audits, pollution reduction programs, and related approvals.

The search did not identify any significant records that would suggest a contamination issue for the site.

3.10 Heritage Registers

A search of the Commonwealth, State and Local heritage registers was undertaken with the results provided in the Lotsearch report (**Appendix B**). The search revealed that the site is on the National Heritage List as part of the National Trust Urban Conservation Areas of Ku-ring-gai. The surrounding area is currently identified as a nominated place of historic value and includes the site.

No.1, 1A Edward St & No.25 & 27 Rosedale Rd are within an Environmental Planning Instrument (EPI) heritage area (C13) known as the Roberts Grant Conservation Area.

3.11 Summary of Site History Information

3.11.1 *The Site*

The site was subdivided in the late 1930s to create four allotments (1 and 1A Edward Street and 25 and 27 Rosedale Road), each of which has since been developed for residential purposes. Detached dwellings were present by the 1930s, with later modifications including swimming pools at 25 and 27 Rosedale Road, a tennis court at 1A Edward Street, and various extensions, outbuildings and landscaping works across all properties. In 2014, the dwelling at 27 Rosedale Road was converted to a dental practice (Gordon Dental), which remains in use but is considered a low-risk activity.

From a land contamination perspective, the historical use of the site appears generally benign. No commercial, industrial or waste-related activities have been identified. However, due to the age of the structures, the historical use of asbestos-containing materials (ACM) and lead-based paints cannot be excluded. Renovations, demolition or fill placement may have introduced shallow soil contamination, including lead and fragments of ACM. There is also the potential for imported fill of unknown origin to have been used during past site levelling or landscaping works.

3.11.2 Surrounding Land

The surrounding land has remained predominantly residential since at least the 1930s. Low-risk institutional and commercial uses have included the former Lady Gowrie Red Cross Convalescent Home at 10 Edward Street and a small vacuum cleaner service business at 9 Robert Street. Higher-risk uses such as former service stations and a gasworks site were located more than 900 m away and are considered unlikely to have affected the site given the distance and low permeability of local soils and bedrock.

4 SITE CONDITION AND SURROUNDING ENVIRONMENT

This section of the report provides a detailed description of the physical and environmental setting of the site, including a description of the site and the presence of any visible signs of contamination.

4.1 SITE DESCRIPTION

The site is located on the corner of Edward Street and Rosedale Road and is surrounded by detached residential dwellings. The site is rectangular in shape and comprises four individual allotments: 1 and 1A Edward Street, 25 and 27 Rosedale Road.

At the time of the site inspection, the following conditions were observed:

- 1 Edward Street: The property comprised a large two-storey residence with a red tiled roof and is accessed via a concrete driveway in the north-western corner. A car shed and an outbuilding were situated to the southwest of the property along the western boundary. The remainder of the site comprised grassed areas, gardens and mature vegetation, with no apparent signs of active earthworks.
- 1A Edward Street: This property was occupied by a two-storey brick residence with a tiled roof. The front yard comprised lawn and was enclosed by a metal fence with palisade infill. A paved concrete driveway and footpath led to the front entrance and extended along the western side of the dwelling to metal-framed carports. The mid yard contained mature vegetation and was enclosed by a low wooden fence, with two metal pergolas along the eastern boundary. At the rear, the property included a small brick outbuilding to the southwest of the dwelling, and a tennis court extending towards the southern boundary.
- 25 Rosedale Road: The property comprised a two-storey rendered brick residence with a gable roof including dormer windows. The dwelling is enclosed by a solid masonry wall and accessed via a concrete driveway leading to an integrated garage. The rear yard contains a lawn and an in-ground swimming pool situated near the eastern boundary.
- 27 Rosedale Road: The property contains a two-storey brick building with a tiled roof, situated on a corner allotment with dual frontage to Edward Street and Rosedale Road. The site is accessed via two at-grade carparks, one along Edward Street and one along Rosedale Road, and a paved footpath from Edward Street. The surrounding grounds comprised maintained lawns and landscaped vegetations, enclosed by a low brick wall. At the time of our investigation the site was being used by a dental practice (Gordon Dental).

During our site walkover inspection there was no unusual odours or surface staining that could be potentially associated with contamination. There was also no evidence of underground or above-ground, fuel or chemical, storage tanks observed across the site. Additionally, there was no obvious evidence of Asbestos Containing Materials (ACM) on the surface of the site. Photographs of the site are provided for reference in Plates 1 to 14.

Plate 1 – The front of No. 1 Edward Street, viewed to the southeast.

Plate 2 – View to the northwest across the rear yard of No. 1 Edward Street.

Plate 3 – View to the north from inside the carport along the western boundary of No. 1 Edward Street.

Plate 4 – View to the southeast showing the front of No. 1A Edward St.

Plate 5 – View to the northwest across the rear tennis court of No. 1A Edward St.

Plate 6 – View to the south-west behind the dwelling at 1A Edward St.

Plate 7 – View to the southeast showing the former dwelling and now dentist at 27 Rosedale Rd.

Plate 8 – View to the northwest along the eastern side of No. 27 Rosedale Rd.

Plate 9 – View to the north-west along the western side of No. 27 Rosedale Rd.

Plate 10 – View to the north across the front yard of No.5 Rosedale Rd.

Plate 11 – View to the east along the southern side of No. 25 Rosedale Rd.

Plate 12 – View to the north-east across the rear yard of No. 25 Rosedale Rd.

4.2 *Surrounding Land Uses and Activities*

Surrounding land uses observed from the aerial photographs and our site inspection are low density residential properties and are considered relatively benign from a contamination perspective.

4.3 *Topography*

The site is located on a south-easterly dipping hillslope with an average gradient of approximately 5-6%. Spot heights shown on the survey plan (refer to **Appendix A**) indicate that the site falls from approximately 122.4 m AHD at the northwestern corner to approximately 116.5 m AHD at the southeastern corner. This reflects a total elevation change of approximately 6.0 metres across the site.

4.4 *Regional Geology and Soils*

A review of the regional geological map (Reference 5) indicates that the site is underlain by the Ashfield Shale formation, which typically consists of "*…black to light grey shale and laminate*".

A review of the regional soils map indicates that the top half of site is located within the Lucas Heights Landscape Group while the bottom portion of the site is located within the Glenorie Landscape Group (Reference 6). The Lucas Heights Landscape Group comprises gently undulating crests and ridges on plateau surfaces of the Mittagong formation

(alternating bands of shale and fine-grained sandstones), while the Glenorie Landscape Group is associated with undulating to rolling low hills on Wianamatta Group shales. Local relief for Lucas Height landscapes is up to 30 m, slopes of less than 10%, an absence of rock outcrop, and has been extensively or completely cleared of its original dry sclerophyll low forest and woodland. Local reliefs for the Glenorie Group are between 50-80m while slopes are typically between 5-20% in gradient. Soils of the Glenorie Group typically comprise erosional clays, are moderately reactive and form a high soil erosion hazard.

Information on site specific subsurface conditions across the site is provided in Section 6.1.2.

4.5 REGIONAL GROUNDWATER / HYDROGEOLOGY

Based on the geological information, it is anticipated that regional and permanent groundwater in the vicinity of the site is present within confined or semi-confined, discontinuous water-bearing zones in the underlying bedrock. However, intermittent 'perched' groundwater seepage is likely to occur at the soil–bedrock interface following periods of heavy and prolonged rainfall.

Groundwater flow in bedrock is typically controlled by fractures and joints where stress has caused reduced cohesion in the rock. Indicators of water bearing fractures include clay infill or iron-staining along the joint surfaces.

A search of registered groundwater bores within 2km of the site was completed and the results are provided in the Lotsearch report (**Appendix B**). In total there were a total of 13 registered bores, and the nearest bore (GW024606) is 882m to the southwest of the site. The bore is used for 'irrigation' purposes and was installed to 76.5m within sandstone. The standing water level was not noted on the drillers log.

Due to the distance from the site and potential differences in topography and subsurface conditions, these off-site bore records are not considered representative of groundwater conditions at the subject site.

4.6 POTENTIAL RECEIVING WATER BODIES

Based on regional topographic gradients (Refer to Section 4.3), the nearest potential receiving surface water body to the site is likely to be Rocky Creek which is located approximately 450m to the north of the south-east.

This watercourse is considered to be a potential downgradient receptor for groundwater migration, particularly in the event of subsurface contamination. Rocky Creek ultimately discharges into Middle Harbour Creek which is approximately 3.0km to the east of the site.

Although a potential receptor of groundwater contamination, the distance and urban setting is expected to reduce the likelihood of direct impact.

4.7 ACID SULPHATE SOIL RISK

Acid Sulphate Soil is naturally occurring sediments and soils containing iron sulfides (principally iron sulfide, iron disulfide or their precursors). Oxidation of these soils through exposure to the atmosphere or through lowering of groundwater levels results in the generation of sulfuric acid.

Land that may contain potential acid sulphate soils was mapped by the NSW Department of Land and Water Conservation (DLWC) and based on these maps local Councils produced their own acid sulphate soil maps to be used for planning purposes.

The regional Acid Sulphate Soil Risk Map (Reference 7), indicates that the site lies within an area with no known occurrences of acid sulphate soil and land activities within this area are "...*not likely to be affected by acid sulphate soil materials*".

The ASS Planning Map produced by Council, and available via online interactive mapping, indicates that the site lies within an area defined as "Class 5". In accordance with clause 6.1 of the Kur-ring-gai Local Environment Plan (LEP) 2015, a preliminary assessment of acid sulphate soil and potentially a management plan is recommended for any "*Works within 500 metres of adjacent Class 1, 2, 3 or 4 land that is below 5 metres Australian Height Datum by which the water table is likely to be lowered below 1 metre Australian Height Datum on adjacent Class 1, 2, 3 or 4 land*".

The surface elevation is significantly greater than 5m AHD and the maximum depth of excavation is not extending below 1m AHD. In this regard, dewatering below 1m AHD is not required and therefore there is no need for an acid sulphate soil assessment or management plan.

5 INITIAL CONCEPTUAL SITE MODEL

This CSM has been prepared for the site and reflects the site's historical and current residential use, with potential AECs arising primarily from historical building materials and imported fill.

The conceptual site model (CSM) is a representation, or summary, of information obtained regarding potential contamination sources, receptors and exposure pathways between the sources and receptors. The key elements of a CSM include:

- ◊ known and potential sources of contamination, areas of environmental concern (AEC) and chemicals of potential concern (CoPC), including the mechanisms of contamination (such as 'top down' spills or sub-surface releases from corroded tanks or pipes),
- ◊ potentially affected media (such as soil, sediment, groundwater, surface water, indoor and ambient air),
- ◊ human and ecological receptors, and
- ◊ potential and complete exposure pathways.

GEE notes that this CSM is preliminary in nature and based on currently available information. It will be refined and updated as further data from site investigation becomes available.

5.1 POTENTIAL CONTAMINATION SOURCES AND COPC

Based on the site history information, a review of the site's physical and environmental setting, and the results of the previous field investigations, the areas of environmental concern (AEC), potential for contamination (albeit minor), and Chemicals of Potential Concern (CoPC) are summarised in **Table 1**.

Table 1: Potential Areas of Environmental Concern, Contaminating Sources and CoPC

Area of Environmental Concern (AEC)	Potential Contaminating Source	Chemical of Potential Concern (CoPC)	Estimated Risk of Contamination	Justification
On-Site				
Entire Site	Fill Material	Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene (BTEXN), Pesticides, PCBs and Asbestos[2]	Medium	There is potential for fill material to have been introduced to site to raise the site surface or create a level building platform for the existing or past developments. When sourced from an unknown origin, the quality of the fill is not known and therefore may be contaminated.
Entire Site (Particularly Around Structures)	Hazardous Building Materials	Lead and Asbestos	Medium	The age of the former, and some current buildings suggests that asbestos containing material (ACM) and lead based paints may have been used. Therefore, any renovations, maintenance or the demolition of these structures may have resulted in near surface soils being impacted with lead and/or ACM.
Vehicle Accessible Areas	Past and Present Vehicle Movements	TRH, BTEXN, Lead and PAHs	Low	Vehicles accessing and parking on site may have resulted in leaks and spillage of fuel and oils.
Entire Site	Potential Application of Pesticides	Pesticides, Metals	Very Low	Pesticides may have been applied for pest/vegetation control.

[2] These are common contaminants of concern for developed areas across Sydney.

Off-Site				
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5.2 POTENTIAL OR KNOWN CONTAMINATED MEDIA

The potential for contamination on site is from top-down sources and therefore the potential contaminated media is the near surface soils across the site. To a lesser extent is the deeper soil profile because there is always potential for some of the CoPC to leach down through the soil.

Groundwater is unlikely to be contaminated but should be assessed if the upper fill and natural soils are found to be contaminated with mobile contaminants.

Soil Vapour is also unlikely to be contaminated but should be assessed if significant volatile contamination is encountered in the soil and/or groundwater.

5.3 CONTAMINANT RECEPTORS

Considering the proposed development and layout, potential receptors to the any contamination would include:

Human Receptors

- ◊ Workers (adults) engaged to construct the proposed development including earthworks contractors for the basement,
- ◊ Existing and future users of the site (children and adults), and
- ◊ Workers (adults) engaged to maintain any buried services/utilities.

Environmental Receptors

- ◊ Subsurface ecosystems and any vegetation or microbiota reliant on soil quality, particularly in areas of proposed deep planting or landscaping, and
- ◊ Buildings and structures.

5.4 POTENTIAL EXPOSURE PATHWAYS

At this preliminary stage, potential exposure pathways include:

- ◊ Ingestion of soil and dust (workers) during redevelopment of the site and during future use from accessible areas.
- ◊ Ingestion of soil and dust (adults and children) during future use of the site from landscaped or exposed soil parts of the site.
- ◊ Direct (dermal) contact for future users of the site (via any landscaped or exposed soil areas).

- ◊ Direct (dermal) contact for workers engaged to construct the proposed development or maintain any buried services/utilities.
- ◊ Inhalation of any volatile contaminants (if present).
- ◊ Inhalation of asbestos fibres from degraded ACM (if present).

6 SAMPLING AND ANALYSIS PROGRAM

The sampling and analysis program was designed with reference to the site's history, our site walkover inspection and the CSM. The purpose of the program was to characterise of the soil conditions across the site in accordance with relevant EPA NSW guidelines to determine whether it would be suitable for the proposed land-use.

In accordance with NSW EPA *Contaminated Sites: Guidelines for NSW Site Auditor Scheme* (Reference 8) and Appendix B of Schedule B2 of the NEPM (Reference 7), the Data Quality Objectives (DQOs) process was used to define the type, quantity and quality of the data needed to support decisions relating to the environmental condition of a site. Details of the DQO process adopted for the soil sampling and analysis program is provided in **Appendix E**.

6.1 SAMPLING PROGRAM

The sampling program was undertaken by Stephen McCormack, Zachery Ziesel and Sean Gao from GEE in August 2025 and the work comprised:

- The drilling of seventeen boreholes (BH1 to BH17) in accessible areas across the site and in areas that target the sources of potential contamination, and
- The collection of soil samples from each borehole at regular interval for subsequent selective laboratory analysis of contaminants of potential concern.

6.1.1 Borehole Drilling Operations and Logging

The boreholes were drilled on the 8th of August 2025 and were positioned in accordance with an approximate systematic pattern (subject to access and utility constraints), subject to access restrictions from buried services and business operations. While a systematic grid wasn't feasible, the boreholes sufficiently covered Areas of Environmental Concern (AECs).

Prior to commencement of the bores, GEE performed an online search for potential underground services and utilities using Before Your Dig Australia (BYDA). The total number of boreholes (i.e. sampling points) exceeds the minimum number of sampling points required for adequate site characterisation as defined by the EPA NSW and Australian Standards (Reference 9 and 10).

Each of the boreholes were drilled using an 85mm diameter stainless steel hand auger operated by GEE personnel, after removal of any surface pavers or coring of any surface concrete. All the environmental soil samples were collected with the hand auger and the

head of the hand auger was decontaminated prior to use and between boreholes by washing with laboratory grade, biodegradable and phosphate-free detergent, followed by rinsing with potable water. To check the adequacy of the decontamination procedures, GEE collected a rinsate quality control sample (SM080825-R) from the hand auger and submitted it for analysis of some contaminants of concern, in particular volatile contaminants which are most likely to cause cross-contamination.

All boreholes were advanced through the surface topsoil and/or fill material (i.e. either imported material or previously disturbed soil) and into the natural (i.e., previously undisturbed) soil profile. During drilling, the encountered fill and natural soils were geologically logged, taking care to describe the presence and depth of fill material/previously disturbed ground, the natural stratum, moisture, seeps or water bearing zones, elevation of the water level/hydraulic head, and adverse aesthetics such as discolouration, odours or obvious evidence of contamination. There was no adverse odour or staining observed during drilling, and no obvious Potential Asbestos Containing Material (PACM) observed below ground at the borehole locations. However, there was some sporadic presence of anthropogenic inclusions noted in the fill layer at BH6, BH8, BH9, BH13 and BH17 (e.g. slag, plastic, concrete, brick and glass).

A summary of the subsurface conditions encountered is provided in Section 6.1.2, while a summary of the borehole information, including total depth, is provided in **Table 2**. Also included in Table 2 is the relevant information from the geotechnical boreholes.

The locations of the boreholes are shown on **Figure 4**, along with a recent aerial photograph, and **Figure 5** along with an extract from the survey.

Table 2: Summary of the Borehole (and Well) Information

Borehole ID	Date	Drilling Method	Total Depth	Depth of Topsoil and/or Filling[1]	Depth to Bedrock	Groundwater Well Screen Interval
			(m BGS)	(m BGS)	(m BGS)	(m BGS)
GEE Boreholes						
BH1	08/08/2025	Hand Auger	0.90	0.30	-	-
BH2	08/08/2025	Hand Auger	1.00	0.40	-	-
BH3	08/08/2025	Hand Auger	1.00	0.20	-	-
BH4	08/08/2025	Hand Auger	1.40	0.80	-	-
BH5	08/08/2025	Hand Auger	1.20	0.35	-	-
BH6	08/08/2025	Hand Auger	1.40	0.30	-	-
BH7	08/08/2025	Hand Auger	0.90	0.02	-	-
BH8	08/08/2025	Hand Auger	0.90	0.20	-	-
BH9	08/08/2025	Hand Auger	0.90	0.50	-	-
BH10	08/08/2025	Hand Auger	0.55	0.20	-	-
BH11	08/08/2025	Hand Auger	1.80	1.70	-	-
BH12	08/08/2025	Hand Auger	0.70	0.25	-	-
BH13	08/08/2025	Hand Auger	1.20	0.60	-	-
BH14	08/08/2025	Hand Auger	0.70	0.30	-	-
BH15	08/08/2025	Hand Auger	0.70	0.20	-	-
BH16	08/08/2025	Hand Auger	0.50	0.10	-	-
BH17	08/08/2025	Hand Auger	0.90	0.30	-	-
Morrow Geotechnical Boreholes						
BH101	16/11/2021	SFA & Core	15.00	0.40	2.30	3.00 – 15.00
BH102	16/11/2021	SFA & Core	9.17	0.20	2.30	3.00 – 9.17
BH103	16/11/2021	SFA & Core	9.00	0.50	1.60	3.00 – 9.00
BH104	16/11/2021	SFA	9.13	0.50	0.95	-
BH105	16/11/2021	HA	2.45	1.70	2.45	-

m BGS = metres below ground surface
HA = Hand Auger
SFA = Solid Flight Auger
Core = Diamond Coring of the Bedrock

6.1.2 Subsurface Conditions

The subsurface conditions, as observed in all the boreholes, typically comprised a layer of topsoil and/or fill material, over natural silty clay soils which in turn was underlain by shale bedrock. Detailed descriptions of the subsurface conditions on site is provided in the borehole logs provided in **Appendix B** (Morrow Geotechnics) and **Appendix F** (GEE) while a summary of the subsurface conditions across the site is provided in **Table 3**.

Table 3: Summary of the Subsurface Conditions

Layer / Unit	Description	Depth to the Top of the Layer (m)
1 – FILL / TOPSOIL	Sandy SILT, Silty SAND, SAND, Clayey SAND, Silty CLAY, Sandy CLAY, Gravelly CLAY,: black, dark brown, brown, orange, dark grey, grey, fine to coarse grained, low to medium plasticity, moist with trace roots, fine to coarse gravel, clay, some organics and anthropogenic inclusions (e.g. slag/sandstone gravels, glass, plastic and bricks).	Surface
2 - NATURAL SOIL	Silty CLAY: red-brown, brown-orange, orange-red, grey, medium to high plasticity, trace roots and fine to coarse ironstone gravel and charcoal, moist.	0.1 – 1.7
3 - BEDROCK	SHALE: grey, weathered.	-

All of our shallow boreholes (BH1 to BH17) were dry upon completion and the relatively short period they remained open.

The depth to groundwater in the geotechnical wells at BH101 to BH103 was 2.93m, 3.40m and 2.33m bgs, respectively, which corresponds to elevations of approximately 118.7m AHD at BH101, 118.2m AHD at BH102 and 116.6m AHD at BH103.

Although only two wells had water, the water elevations in these wells suggest that groundwater is following the regional topography and flowing to the south-east.

6.1.3 Soil Sampling

In accordance with NEPM (1999) Schedule B(2) *Guideline on Site Characterisation* (Reference 4) samples were collected from the near surface (50 – 200mm) and at approximately 0.5m intervals, or at changes in fill, or soil type, or at depths where the

presence of contamination was indicated (*e.g.* based on odour, colour, unusual substances, liquids etc).

Each sample was collected by hand using dedicated, disposable nitrile gloves in general accordance with techniques described in Australian Standard AS4482.2 (Reference 11) and NEPM (2013 – Reference 4), to maintain the representativeness and integrity of the samples. The soil was then placed in laboratory supplied; acid washed glass jars. When collecting duplicates, samples to be analysed for volatiles were not mixed, rather they were split and placed directly into separate sample jars.

Field screening of samples for the potential presence of volatile contaminants, such as fuel, was not carried out, however, there was no obvious hydrocarbon odour noted during the fieldwork and most near surface soil samples were analysed for volatile component of Total Petroleum Hydrocarbons, which is more conclusive than field screening with a PID.

The samples were each labelled with a unique sample identification number, in addition to the date of collection and project number, before being placed on ice within an esky. For the borehole samples, the sample identification number was repeated on the borehole logs (**Appendix F**) at the corresponding depth. At the end of sampling, the esky was returned directly to the laboratory (with a Chain of Custody (COC) form).

In accordance with AS4482.1 (Reference 10), a series of Quality Assurance (QA) procedures were integrated within the sampling plan and included:

- ◊ The collection of Quality Control (QC) samples.
- ◊ The use of standardised field sampling forms developed by GEE.
- ◊ Documentation of calibration and use of field instruments.

QC samples were collected as appropriate including blind replicates and split duplicates at a frequency of 5 %, and the collection of trip blanks, trip spikes and a Rinsate sample. More detail about the QC sampling and analysis is provided in Section 7 and **Appendix G**.

At the completion of each borehole, including logging and the sampling of soils, each borehole was backfilled with soil cuttings.

A summary of the samples collected and analysed during this investigation and the sampling depths are provided in **Table 4**.

Table 4: Summary of the Sampling and Analysis Program

Location	Sample Depth (m)	Sample ID	Material Type/Layer	Analytical Program						
				Metals	TRH / BTEXN	PAHs	OCPs	OPPs	PCB	Asbestos
Primary Samples										
BH01	0.05 - 0.20	SM080825-01	FILL - Sandy SILT	✓	-	✓	✓	✓	-	✓
BH01	0.35 - 0.45	SM080825-02	Natural - Silty CLAY	✓	-	-	✓	✓	-	-
BH01	0.80 - 0.90	SM080825-03	Natural - Silty CLAY	-	-	-	-	-	-	-
BH02	0.05 - 0.15	SM080825-04	FILL - Silty SAND	✓	-	✓	✓	✓	-	✓
BH02	0.45 - 0.55	SM080825-05	Natural - Silty CLAY	✓	-	-	-	-	-	-
BH02	0.90 - 1.00	SM080825-06	Natural - Silty CLAY	-	-	-	-	-	-	-
BH03	0.05 - 0.15	SM080825-07	FILL - Silty SAND	✓	-	-	✓	✓	-	✓
BH03	0.30 - 0.40	SM080825-08	Natural - Silty CLAY	✓	-	-	-	-	-	-
BH03	0.90 - 1.00	SM080825-09	Natural - Silty CLAY	-	-	-	-	-	-	-
BH04	0.05 - 0.20	SM080825-10	FILL - Silty SAND	✓	-	✓	✓	✓	-	✓
BH04	0.60 - 0.70	SM080825-11	FILL - Silty SAND	✓	-	-	-	-	-	-
BH04	0.80 - 0.90	SM080825-12	Natural - Silty CLAY	✓	-	-	-	-	-	-
BH04	1.30 - 1.40	SM080825-13	Natural - Silty CLAY	-	-	-	-	-	-	-
BH05	0.10 - 0.20	SM080825-14	FILL - Silty CLAY	✓	✓	✓	✓	-	✓	✓
BH05	0.40 - 0.50	SM080825-15	Natural - Silty CLAY	✓	-	✓	-	-	-	-
BH05	1.00 - 1.10	SM080825-16	Natural - Silty CLAY	-	-	-	-	-	-	-
BH06	0.10 - 0.20	SM080825-17	FILL - Silty CLAY	✓	✓	✓	✓	-	✓	✓
BH06	0.50 - 0.60	SM080825-18	FILL - Silty CLAY	✓	-	✓	-	-	-	-
BH06	0.80 - 0.90	SM080825-19	Natural - Silty CLAY	✓	-	✓	-	-	-	-
BH06	1.30 - 1.40	SM080825-20	Natural - Silty CLAY	-	-	-	-	-	-	-

BH07	0.05 - 0.15	SM080825-21	Natural - Silty CLAY	✓	-	-	✓	✓	-	✓
BH07	0.80 - 0.90	SM080825-22	Natural - Silty CLAY	✓	-	-	-	-	-	-
BH08	0.05 - 0.20	SM080825-30	FILL - Clayey SAND	✓	✓	✓	✓	-	✓	✓
BH08	0.30 - 0.40	SM080825-31	Natural - Silty CLAY	✓	-	-	✓	✓	-	-
BH08	0.80 - 0.90	SM080825-32	Natural - Silty CLAY	-	-	-	-	-	-	-
BH09	0.05 - 0.20	SM080825-33	FILL - Silty CLAY	✓	✓	✓	✓	-	✓	✓
BH09	0.60 - 0.70	SM080825-34	Natural - Silty CLAY	✓	-	-	✓	✓	-	-
BH10	0.05 - 0.20	SM080825-35	FILL - Silty CLAY	✓	-	✓	✓	✓	-	✓
BH10	0.30 - 0.40	SM080825-36	Natural - Silty CLAY	✓	-	-	-	-	-	-
BH10	0.45 - 0.55	SM080825-37	Natural - Silty CLAY	-	-	-	-	-	-	-
BH11	0.05 - 0.20	SM080825-38	FILL - Silty CLAY	✓	-	✓	✓	✓	-	✓
BH11	0.30 - 0.40	SM080825-39	FILL - Silty CLAY	✓	✓	✓	✓	-	✓	✓
BH11	1.70 - 1.80	SM080825-40	Natural - Silty CLAY	✓	-	✓	-	-	-	-
BH12	0.05 - 0.20	SM080825-60	FILL - Clayey SAND/Sandy CLAY	✓	-	✓	✓	✓	-	✓
BH12	0.30 - 0.45	SM080825-61	Natural - Silty CLAY	✓	-	-	-	-	-	-
BH12	0.60 - 0.70	SM080825-62	Natural - Silty CLAY	-	-	-	-	-	-	-
BH13	0.05 - 0.15	SM080825-63	FILL - Silty SAND	✓	-	✓	✓	✓	-	✓
BH13	0.20 - 0.30	SM080825-64	FILL - Gravelly CLAY	✓	✓	✓	✓	-	✓	✓
BH13	0.40 - 0.50	SM080825-65	FILL - Silty SAND	✓	-	-	✓	✓	-	-
BH13	0.70 - 0.80	SM080825-66	Natural - Silty CLAY	✓	-	-	-	-	-	-
BH13	1.10 - 1.20	SM080825-67	Natural - Silty CLAY	-	-	-	-	-	-	-
BH14	0.05 - 0.20	SM080825-68	FILL - Silty SAND	✓	-	✓	✓	✓	-	✓
BH14	0.30 - 0.40	SM080825-69	Natural - Silty CLAY	✓	-	-	✓	✓	-	-

BH14	0.60 - 0.70	SM080825-70	Natural - Silty CLAY	-	-	-	-	-	-	-
BH15	0.05 - 0.20	SM080825-71	FILL - Silty SAND	✓	-	-	✓	✓	-	✓
BH15	0.30 - 0.40	SM080825-72	Natural - Silty CLAY	✓	-	-	✓	✓	-	-
BH15	0.70 - 0.80	SM080825-73	Natural - Silty CLAY	-	-	-	-	-	-	-
BH16	0.05 - 0.10	SM080825-74	FILL - SAND	✓	✓	✓	✓	-	✓	✓
BH17	0.20 – 0.30	ZG030925-01	FILL – Sandy GRAVEL	✓	✓	✓	✓	-	✓	✓
BH17	0.50 – 0.60	ZG030925-02	FILL – Sandy GRAVEL	✓	-	✓	-	-	-	✓
BH17	1.00 – 1.10	ZG030925-03	FILL – Sandy GRAVEL	✓	-	✓	-	-	-	✓
		TOTALS		39	8	22	25	17	8	21
			Quality Control Samples							
BH01	0.05 – 0.20	SM080825-100	Blind Replicate of SM080825-01	-	-	-	-	-	-	-
BH03	0.05 – 0.15	SM080825-101	Split Duplicate of SM080825-07	-	-	-	-	-	-	-
BH04	0.05 – 0.20	SM080825-102	Blind Replicate of SM080825-10	✓	-	-	-	-	-	-
BH07	0.05 – 0.15	SM080825-104	Split Duplicate of SM080825-21	✓	-	-	-	-	-	-
BH08	0.05 – 0.20	SM080825-107	Blind Replicate of SM080825-30	✓	✓	✓	✓	-	✓	-
BH09	0.05 – 0.20	SM080825-108	Split Duplicate of SM080825-33	✓	✓	✓	✓	-	✓	-
BH12	0.05 – 0.20	SM080825-110	Blind Replicate of SM080825-60	✓	-	✓	✓	✓	-	-
BH13	0.05 – 0.15	SM080825-111	Split Duplicate of SM080825-63	✓	-	✓	✓	✓	-	-
--	--		Trip Blank	-	✓[1]	-	-	-	-	-
--	--		Trip Spike	-	✓[2]	-	-	-	-	-
--	--		Rinsate Sample SM080825-R	✓	✓	-	-	-	-	-

Note 1: TRH Volatile and BTEXN only. Note 2: BTEXN only.

6.2 ANALYTICAL PROGRAM

In accordance with the CSM, selected soil samples were analysed for a broad suite of potential contaminants, including:

- Metals (Arsenic, Cadmium, Chromium, Copper, Nickel, Lead and Zinc),
- TRH,
- BTEXN,
- PAH,
- OCPs and OPPs,
- PCBs, and
- Asbestos.

The primary environmental samples were analysed by Envirolab laboratory in Chatswood which is National Association of Testing Authorities (NATA) registered for the testing undertaken. The secondary (or inter laboratory) samples were analysed by Envirolab Melbourne laboratory which is also NATA registered for the testing undertaken.

A summary of the soil analytical program, including which samples were selected for analysis and the chemicals analysed, is provided in **Table 4**.

7 DATA QUALITY ASSESSMENT

A detailed Quality Assurance (QA) assessment, including the analysis of Quality Control (QC) samples, was carried out by GEE to determine the suitability and reliability of field procedures and analytical results. In accordance with Appendix C of Schedule B2 of the NEPM (Reference 7), the QA assessment used Data Quality Indicators (DQIs) which included:

- precision.
- accuracy (or bias).
- representativeness.
- completeness.
- comparability.

The detailed QA assessment report is provided in **Appendix G** and concludes that the field procedures and analytical data presented herein are of suitable quality for making conclusions and recommendations regarding the contamination status of the site.

8 ASSESSMENT CRITERIA

To determine the significance of any contaminants detected in the soil samples, appropriate Site Assessment Criteria (SAC) have been defined and are based on guidelines endorsed by the NSW EPA.

For a soil contamination assessment, it is necessary to assess the human health and ecological risks associated with the presence of site contamination. Also, in accordance with the NSW EPA Site Auditor Guidelines (Reference 8) and section 3.6 of Schedule B1 of the NEPM (Reference 12), residential sites need to address aesthetics such as highly malodorous soils. Furthermore, no single summary statistic will fully characterise a site and appropriate consideration of relevant statistical measurements should be used in the data evaluation process.

For soil to be considered as uncontaminated (i.e. not posing an unacceptable risk) all reported concentrations must be below the site remediation criteria. For chemical analysis the following statistical criteria shall be adopted with respect to the health criteria:

- The upper 95% confidence limit on the average concentration for each analyte (calculated for samples collected from consistent soil horizons, stratigraphy or material types) must be below the adopted criterion,
- No single concentration shall exceed 250% of the adopted criterion, and
- The standard deviation of the results must be less than 50% of the criterion.

8.1 AESTHETICS

Aesthetics were continually assessed in the field during borehole drilling and no significant observations were noted.

8.2 ECOLOGICAL RISK

Most of the site will be covered by the proposed development, including the proposed basement, meaning that ecological interaction with soil contaminants will be limited. Therefore, ecological criteria are not relevant for the proposed development.

8.3 HEALTH RISK

To address potential health impacts at the site, GEE has compared the analytical results against Health Investigation Levels (HILs) and Health Screening Levels (HSLs), provided in NEPM (2013), *Schedule B(1) – Guidelines on Investigation Levels for Soil and Groundwater* (Reference 12).

8.3.1 Health Investigation Levels (HILs)

HILs for soil contaminants are provided in Table 1A(1) of the NEPM guidelines and have been developed for a broad range of metals and organic substances (i.e. PAHs, Pesticides and PCBs). Asbestos and petroleum hydrocarbons are not included.

The HILs are scientifically based, generic assessment criteria to be used as a first stage (or tier 1) screening of potential risks to human health from chronic exposure to contaminants. They are intentionally conservative and are based on the following four different and generic land use scenarios (or exposure scenarios) which are based on long-term exposures for the most sensitive receptor populations exposed:

- HIL-A described as residential with accessible soils and includes childcare centres, preschools and primary schools,
- HIL-B which includes residential with minimal opportunities for soil access and includes high rise apartments,
- HIL-C for public space such as parks and secondary schools, and
- HIL-D for commercial/industrial sites.

Each land-use scenario assumes different exposure scenarios and when land is used for more than one purpose, the HILs that are relevant to the more sensitive land-use should be adopted. For the site, the most appropriate land use scenario is HIL-B.

A summary of the HIL-B criteria is provided in **Table 5**.

8.3.2 Health Screening Levels (HSLs)

Health Screening Levels (HSLs) were developed for selected petroleum hydrocarbons (specifically TRH C_6 – C_{10} or F1 fraction, TRH >C_{10} – C_{16} or F2 fraction and BTEX) by the Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE) and have been adopted and are referenced in Schedule B(1) of NEPM (2013 – Reference 12) and Friebel & Nadebaum (2011 – Reference 13). HSLs were also developed for asbestos in soil by the WA DoH (Reference 14) and have been adopted in Schedule B(1) of NEPM.

Petroleum Hydrocarbons

The assessment of petroleum hydrocarbon contamination is primarily driven by human health concerns relating to:

1. Volatile components (e.g., TRH $C_6 – C_{10}$, TRH $>C_{10} – C_{16}$ and Benzene) which have the potential to cause health issues via vapour intrusion (e.g., from inhalation), and
2. Direct contact with the hydrocarbons.

For vapour intrusion, different HSLs apply for different land use scenarios, different soil types (i.e. sand, silt and clay) and different depths. For the purpose of this investigation, criteria relevant for shallow (0m to 1m) soils has been adopted because they are the most conservative and most of the samples collected for analysis were from less than 1m depth. For soil type, the criteria for sand soils have been adopted because this is also the most conservative. Notwithstanding this, if a sample exceedance occurs then the corresponding criteria will be considered during discussion of the analytical results.

With respect to land-use, there are five scenarios:

◊ HSL-A for low density residential sites

◊ HSL-B for high density residential sites

◊ HSL-C for recreational/open space areas

◊ HSL-D for commercial and industrial sites

◊ HSL – Intrusive Maintenance Workers

The first four land-use scenarios are based on the land-use at the lowest level (i.e. either ground or basement) because if vapour exposure is acceptable at this level, it can be assumed that it is also acceptable for the floors above ground level. For the proposed development HSL-D is applicable for vapour intrusion, however the HSL-A/B criteria has been adopted as a first pass assessment of the data. Intrusive maintenance worker HSLs are also relevant but are much higher than the soil vapour criteria.

For direct contact, which is also appropriate for the part of the site, different HSLs apply for various land-use scenarios and the most appropriate for this site are those relating to HSL-B.

In summary, and for the purpose of a preliminary assessment of the results, GEE has adopted the lowest criteria from the HSLs for vapour intrusion (HSL-B), HSLs for the protection of intrusive maintenance workers and HSLs for direct contact (HSL-B). Like HILs, an exceedance of the HSL does not necessarily mean that there is a risk, rather further appropriate evaluation and/or investigation is required. A summary of the HSLs adopted for the site is provided in **Table 5**.

Asbestos in Soil

In accordance with the guidelines, GEE has adopted a zero-tolerance approach to asbestos on the surface and therefore any detection of asbestos fibres at the surface will result in the need for further assessment and/or management. For asbestos fibres in soil, the HSL screening levels are based on scenario-specific likely exposure levels associated with land-use. Considering the proposed land-use GEE has adopted criteria for residential land-use with minimal access to soil (HSL-B).

Table 5: Soil Site Assessment Criteria (SAC)

Analyte	Health Investigation/Screening Levels (HILs/HSLs) (mg/kg)	Reference
Total Metals		
Arsenic	500	(HIL-B) Table 1A – Reference 12
Cadmium	150	(HIL-B) Table 1A – Reference 12
Chromium (VI)	500	(HIL-B) Table 1A – Reference 12
Copper	30,000	(HIL-B) Table 1A – Reference 12
Lead	1,200	(HIL-B) Table 1A – Reference 12
Mercury (inorganic)	120	(HIL-B) Table 1A – Reference 12
Nickel	1,200	(HIL-B) Table 1A – Reference 12
Zinc	60,000	(HIL-B) Table 1A – Reference 12
Polycyclic Aromatic Hydrocarbons (PAHs)		
Benzo(a)pyrene	--	--
Benzo(a)pyrene TEQ	4	(HIL-B) Table 1A – Reference 12
TOTAL PAHs	400	(HIL-B) Table 1A – Reference 12
Organochlorine and Organophosphate Pesticides (OCP/OPPs)		
Heptachlor	10	(HIL-B) Table 1A – Reference 12
Aldrin + Dieldrin	10	(HIL-B) Table 1A – Reference 12
Endrin	20	(HIL-B) Table 1A – Reference 12
Chlordane	90	(HIL-B) Table 1A – Reference 12
Endosulfan	400	(HIL-B) Table 1A – Reference 12
HCB	15	(HIL-B) Table 1A – Reference 12
Methoxychlor	500	(HIL-B) Table 1A – Reference 12
DDE + DDD + DDT	600	(HIL-B) Table 1A – Reference 12
Chlorpyrifos	340	(HIL-B) Table 1A – Reference 12
BTEXN		
Benzene	0.5	(HSL-A/B Vapour) Table 1A(3) – Reference 12
Toluene	160	(HSL-A/B Vapour) Table 1A(3) – Reference 12
Ethylbenzene	55	(HSL-A/B Vapour) Table 1A(3) – Reference 12
Xylenes	40	(HSL-A/B Vapour) Table 1A(3) – Reference 12
Naphthalene	3	(HSL-A/B Vapour) Table 1A(3) – Reference 12
Total Recoverable Hydrocarbons (TRH)		
(F1) C6 – C10	45	(HSL-A/B Vapour) Table 1A(3) – Reference 12
(F2) >C10 - C16	110	(HSL-A/B Vapour) Table 1A(3) – Reference 12
(F3) >C16 – C34	5,800	(HSL-B direct contact) Table A4 – Reference 13
(F4) >C34 – C40	8,100	(HSL-B direct contact) Table A4 – Reference 13
PCBs		
Total PCBs	1	(HIL-B) Table 1A – Reference 12
Asbestos		
Surface Soil	No Visible Asbestos	(HSL-B) Table 7 – Reference 12
Buried Bonded	0.04%	(HSL-B) Table 7 – Reference 12
Buried Friable	0.001%	(HSL-B) Table 7 – Reference 12

9 ANALYTICAL RESULTS

A copy of the laboratory reports is provided in **Appendix G**, while a summary of the results is provided in **Table 6** and discussed in the following Sections.

9.1 METALS

A total of thirty-nine (39) primary samples were analysed for arsenic, cadmium, chromium, copper, lead, nickel, mercury and zinc. In summary, all the sample concentrations were below the SAC which indicates that these metals do not pose a contamination issue for the site and the proposed development.

9.2 PAHs

Twenty-two (22) primary samples were analysed for PAHs, which includes Benzo(a)Pyrene (BaP) and BaP Toxicity Equivalent Quotient (BaP TEQ). In summary, all the sample concentrations were below the SAC which indicates that PAHs do not pose a contamination issue for the site and the proposed development.

9.3 TRH AND BTEXN

Eight (8) primary samples were selected for TRH and BTEXN analysis. In summary, all the sample concentrations were below the SAC. When combined with the fact that there was no hydrocarbon odour noted during our fieldwork, GEE considers that TRH and BTEXN do not pose a contamination issue for the site and the proposed development.

9.4 OCPs

Twenty-five (25) near surface soil samples were analysed for OCPs, and the concentrations were less than the adopted health-based SAC. As such, OCPs are not considered to be a contamination issue at the site.

9.5 OPPs

Seventeen (17) near surface soil samples were analysed for OPPS, and the concentrations were less the minimum laboratory detection levels. As such, OPPs are not considered to be a contamination issue at the site.

9.6 PCBs

Eight (8) near surface soil samples were analysed for OPPs, and the concentrations were less than the adopted health-based SAC and the minimum laboratory detection levels. As such, OPPs are not considered to be a contamination issue at the site.

9.7 ASBESTOS IN SOIL

The presence of asbestos fibres was analysed in twenty-one (21) near-surface fill samples which are most likely to be impacted by asbestos. In summary, there was no asbestos fibres detected and as such, asbestos is not considered to be a contamination issue at the site.

TABLE 6 - Summary of the Soil Analytical Results (HIL-B & HSL-B)

Analyte	Units	Limit Of Reporting (LOR)	Sample ID	SM080825-01	SM080825-02	SM080825-04	SM080825-05	SM080825-07	SM080825-08	SM080825-10	SM080825-102	SM080825-11	SM080825-12	SM080825-14	SM080825-15	SM080825-17	SM080825-18	SM080825-19	Site Acceptance Criteria
			Location	BH1	BH1	BH2	BH2	BH3	BH3	BH4	Blind	BH4	BH4	BH5	BH5	BH6	BH6	BH6	Health Based Criteria (HILs & HSLs)
			Depth	0.05 - 0.20	0.35 - 0.45	0.05 - 0.15	0.45 - 0.55	0.05 - 0.15	0.30 - 0.40	0.05 - 0.20	Replicate of	0.60 - 0.70	0.80 - 0.90	0.10 - 0.20	0.40 - 0.50	0.10 - 0.20	0.50 - 0.60	0.80 - 0.90	
			Type	FILL - Sandy SILT	Natural - Silty CLAY	FILL - Silty SAND	Natural - Silty CLAY	FILL - Silty SAND	Natural - Silty CLAY	FILL - Silty SAND	SM080825-10	FILL - Silty SAND	Natural - Silty CLAY	FILL - Silty CLAY	Natural - Silty CLAY	FILL - Silty CLAY	FILL - Silty CLAY	Natural - Silty CLAY	
Asbestos ID Soil																			
Asbestos ID	g/kg	0.1g/kg = 0.01%		<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**0.04%**
Trace Analysis [2]	Yes/No	-		No	-	No	-	No	-	No	-	-	-	No	-	No	-	-	**0.001%**
Lab Comment [3]	-	-		Nil observed	-	Nil observed	-	Nil observed	-	Nil observed	-	-	-	Nil observed	-	Nil observed	-	-	**-**
Metals																			
Arsenic	mg/kg	4		6	6	6	6	5	8	<4	<4	27	11	<4	5	55	12	7	**500**
Cadmium	mg/kg	0.4		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.7	<0.4	<0.4	**150**
Chromium[1]	mg/kg	1		13	19	12	13	14	17	10	17	16	20	12	16	23	13	15	**500**
Copper	mg/kg	1		22	15	21	12	17	9	17	18	13	8	15	22	60	11	13	**30,000**
Lead	mg/kg	1		140	21	190	44	83	16	120	150	62	24	21	23	760	34	20	**1,200**
Mercury	mg/kg	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	0.4	<0.1	<0.1	**120**
Nickel	mg/kg	1		5	4	5	2	10	2	4	7	3	2	4	4	7	3	2	**1,200**
Zinc	mg/kg	1		64	7	150	90	120	3	78	86	61	8	18	30	410	59	8	**60,000**
BTEXN																			
Benzene	mg/kg	0.2		-	-	-	-	-	-	-	-	-	-	<0.2	-	<0.2	-	-	**0.5**
Toluene	mg/kg	0.5		-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	-	-	**160**
Ethylbenzene	mg/kg	1		-	-	-	-	-	-	-	-	-	-	<1	-	<1	-	-	**55**
Total Xylenes	mg/kg	1		-	-	-	-	-	-	-	-	-	-	<1	-	<1	-	-	**40**
Naphthalene	mg/kg	1		-	-	-	-	-	-	-	-	-	-	<1	-	<1	-	-	**3**
TRH																			
TRH C_6 - C_{10} (F1)	mg/kg	25		-	-	-	-	-	-	-	-	-	-	<25	-	<25	-	-	**45**
TRH >C_{10} - C_{16} (F2)	mg/kg	50		-	-	-	-	-	-	-	-	-	-	<50	-	<50	-	-	**110**
TRH >C_{16}-C_{34} (F3)	mg/kg	100		-	-	-	-	-	-	-	-	-	-	<100	-	<100	-	-	**5,800**
TRH >C_{34}-C_{40} (F4)	mg/kg	100		-	-	-	-	-	-	-	-	-	-	<100	-	<100	-	-	**8,100**
PAHs																			
Benzo(a)pyrene	mg/kg	0.05		1.1	-	0.7	-	-	-	0.3	-	-	-	0.06	<0.05	0.86	<0.05	<0.05	**-**
Benzo(a)pyrene TEQ	mg/kg	0.5		1.6	-	1	-	-	-	<0.5	-	-	-	<0.5	<0.5	1.2	<0.5	<0.5	**4**
Total PAHs	mg/kg	0.05		8.5	-	5.5	-	-	-	2.7	-	-	-	0.3	<0.05	9.1	<0.05	<0.05	**400**
OCPs																			
Heptachlor	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**10**
Aldrin	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**10**
Dieldrin	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	4.4	-	-	
Endrin	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**20**
gamma-Chlordane	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**90**
alpha-chlordane	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	
Endosulfan I	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**400**
Endosulfan II	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	
HCB	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**15**
Methoxychlor	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**500**
DDE + DDD + DDT	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	**600**
Remaining OCPs	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	<0.1	-	<0.1	-	-	-
OPPs																			
Chlorpyriphos	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	**340**
Remaining OPPs	mg/kg	0.1		<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
PCBs																			
Total PCBs	mg/kg	0.1		-	-	-	-	-	-	-	-	-	-	<0.1	-	<0.1	-	-	**1**

TABLE NOTES:

1 Total Chromium analytical result includes chromium (III) and (VI).

2 Trace Analysis relates results from Polarised Light microscopy and Dispersion Staining Techniques (Fibres not Visiable to the naked eye)

3 The lab will comment if they observed asbestos fibres even if the concentration was below the LOR of 0.1g/kg

Bold Result exceeding the Residential Human Health Criteria

TABLE 6 - Summary of the Soil Analytical Results (HIL-B & HSL-B)

Analyte	Units	Limit Of Reporting (LOR)	Sample ID	SM080825-21	SM080825-104	SM080825-22	SM080825-30	SM080825-107	SM080825-31	SM080825-33	SM080825-108	SM080825-34	SM080825-35	SM080825-36	SM080825-38	SM080825-39	SM080825-40	Site Acceptance Criteria
			Location	BH7	Split	BH7	BH8	Blind	BH8	BH9	Split	BH9	BH10	BH10	BH11	BH11	BH11	Health Based Criteria (HILs & HSLs)
			Depth	0.05 - 0.15	Duplicate of	0.80 - 0.90	0.05 - 0.20	Replicate of	0.30 - 0.40	0.05 - 0.20	Duplicate of	0.60 - 0.70	0.05 - 0.20	0.30 - 0.40	0.05 - 0.20	0.30 - 0.40	1.70 - 1.80	
			Type	Natural - Silty CLAY	SM080825-21	Natural - Silty CLAY	FILL - Clayey SAND	SM080825-30	Natural - Silty CLAY	FILL - Silty CLAY	SM080825-33	Natural - Silty CLAY	FILL - Silty CLAY	Natural - Silty CLAY	FILL - Silty CLAY	FILL - Silty CLAY	Natural - Silty CLAY	
Asbestos ID Soil																		
Asbestos ID	g/kg	0.1g/kg = 0.01%		<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	<0.1	<0.1	-	**0.04%**
Trace Analysis [2]	Yes/No	-		No	-	-	No	-	-	No	-	-	No	-	No	No	-	**0.001%**
Lab Comment [3]	-	-		Nil observed	-	-	Nil observed	-	-	Nil observed	-	-	Nil observed	-	Nil observed	Nil observed	-	**-**
Metals																		
Arsenic	mg/kg	4		7	7.4	5	12	8	7	16	13	<4	48	<4	10	5	7	**500**
Cadmium	mg/kg	0.4		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.9	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	**150**
Chromium[1]	mg/kg	1		20	25	8	13	13	13	21	20	9	36	8	15	15	22	**500**
Copper	mg/kg	1		16	15	8	24	21	9	470	200	29	28	8	19	29	10	**30,000**
Lead	mg/kg	1		28	27	14	170	110	22	780	410	19	180	19	110	28	19	**1,200**
Mercury	mg/kg	0.1		<0.1	<0.1	<0.1	0.1	0.1	<0.1	0.3	0.19	<0.1	0.1	<0.1	0.1	<0.1	<0.1	**120**
Nickel	mg/kg	1		2	2.4	<1	5	4	4	11	5.6	<1	14	<1	4	4	3	**1,200**
Zinc	mg/kg	1		5	5	2	86	100	110	590	320	7	140	4	80	39	3	**60,000**
BTEXN																		
Benzene	mg/kg	0.2		-	-	-	<0.2	<0.2	-	<0.2	<0.20	-	-	-	-	<0.2	-	**0.5**
Toluene	mg/kg	0.5		-	-	-	<0.5	<0.5	-	<0.5	<0.50	-	-	-	-	<0.5	-	**160**
Ethylbenzene	mg/kg	1		-	-	-	<1	<1	-	<1	<1.0	-	-	-	-	<1	-	**55**
Total Xylenes	mg/kg	1		-	-	-	<1	<1	-	<1	<1.0	-	-	-	-	<1	-	**40**
Naphthalene	mg/kg	1		-	-	-	<1	<1	-	<1	<1.0	-	-	-	-	<1	-	**3**
TRH																		
TRH C_6 - C_{10} (F1)	mg/kg	25		-	-	-	<25	<25	-	<25	<25	-	-	-	-	<25	-	**45**
TRH >C_{10} - C_{16} (F2)	mg/kg	50		-	-	-	<50	<50	-	<50	<50	-	-	-	-	<50	-	**110**
TRH >C_{16}-C_{34} (F3)	mg/kg	100		-	-	-	<100	<100	-	<100	<100	-	-	-	-	<100	-	**5,800**
TRH >C_{34}-C_{40} (F4)	mg/kg	100		-	-	-	<100	<100	-	<100	<100	-	-	-	-	<100	-	**8,100**
PAHs																		
Benzo(a)pyrene	mg/kg	0.05		-	-	-	0.3	0.1	-	0.1	0.13	-	0.3	-	0.2	<0.05	<0.05	**-**
Benzo(a)pyrene TEQ	mg/kg	0.5		-	-	-	<0.5	<0.5	-	<0.5	<0.50	-	<0.5	-	<0.5	<0.5	<0.5	**4**
Total PAHs	mg/kg	0.05		-	-	-	2.8	1.2	-	1.2	1.5	-	3.1	-	1.6	<0.05	<0.05	**400**
OCPs																		
Heptachlor	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	**10**
Aldrin	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	**10**
Dieldrin	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	
Endrin	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	**20**
gamma-Chlordane	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	**90**
alpha-chlordane	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	
Endosulfan I	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	**400**
Endosulfan II	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	
HCB	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	**15**
Methoxychlor	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	**500**
DDE + DDD + DDT	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	**600**
Remaining OCPs	mg/kg	0.1		<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	-
OPPs																		
Chlorpyriphos	mg/kg	0.1		<0.1	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	<0.1	-	-	**340**
Remaining OPPs	mg/kg	0.1		<0.1	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	<0.1	-	-	-
PCBs																		
Total PCBs	mg/kg	0.1		-	-	-	<0.1	<0.1	-	<0.1	<0.1	-	-	-	-	<0.1	-	**1**

TABLE NOTES:

1 Total Chromium analytical result includes chromium (III) and (VI).

2 Trace Analysis relates results from Polarised Light microscopy and Dispersion Staining Techniques (Fibres not Visioble to the naked eye)

3 The lab will comment if they observed asbestos fibres even if the concentration was below the LOR of 0.1g/kg

Bold Result exceeding the Residential Human Health Criteria

TABLE 6 - Summary of the Soil Analytical Results (HIL-B & HSL-B)

Analyte	Units	Limit Of Reporting (LOR)	Sample ID	SM080825-60	SM080825-110	SM080825-61	SM080825-63	SM080825-111	SM080825-64	SM080825-65	SM080825-66	SM080825-68	SM080825-69	SM080825-71	SM080825-72	SM080825-74	ZG030925-01	ZG030925-02	ZG030925-03	Site Acceptance Criteria
			Location	BH12	Blind	BH12	BH13	Split	BH13	BH13	BH13	BH14	BH14	BH15	BH15	BH16	BH17	BH17	BH17	
			Depth	0.05 - 0.20	Replicate of	0.30 - 0.45	0.05 - 0.15	Duplicate of	0.20 - 0.30	0.40 - 0.50	0.70 - 0.80	0.05 - 0.20	0.30 - 0.40	0.05 - 0.20	0.30 - 0.40	0.05 - 0.10	0.20 - 0.30	0.50 - 0.60	1.00 - 1.10	Health Based Criteria (HILs & HSLs)
			Type	FILL - Clayey SAND/Sandy CLAY	SM080825-60	Natural - Silty CLAY	FILL - Silty SAND	SM080825-63	FILL - Gravelly CLAY	FILL - Silty SAND	Natural - Silty CLAY	FILL - Silty SAND	Natural - Silty CLAY	FILL - Silty SAND	Natural - Silty CLAY	FILL - SAND	FILL - Sandy GRAVEL	FILL - Sandy GRAVEL	FILL - Sandy GRAVEL	
Asbestos ID Soil																				
Asbestos ID	g/kg	0.1g/kg = 0.01%		<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	**0.04%**
Trace Analysis [2]	Yes/No	-		No	-	-	No	-	No	-	-	No	-	No	-	No	No	No	No	**0.001%**
Lab Comment [3]	-	-		Nil observed	-	-	Nil observed	-	Nil observed	-	-	Nil observed	-	Nil observed	-	Nil observed	Nil observed	Nil observed	Nil observed	**-**
Metals																				
Arsenic	mg/kg	4		5	5	11	7	5.8	9	6	8	7	6	8	5	5	6	4	<4	**500**
Cadmium	mg/kg	0.4		<0.4	<0.4	<0.4	0.5	0.7	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	**150**
Chromium[1]	mg/kg	1		11	13	14	10	11	16	16	15	12	16	14	14	14	12	7	36	**500**
Copper	mg/kg	1		24	23	8	58	55	24	11	7	14	8	29	11	6	25	12	28	**30,000**
Lead	mg/kg	1		100	130	18	160	180	150	53	20	150	19	190	16	8	30	30	28	**1,200**
Mercury	mg/kg	0.1		<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	**120**
Nickel	mg/kg	1		4	4	2	4	3.8	5	4	1	4	3	4	3	4	6	3	24	**1,200**
Zinc	mg/kg	1		95	92	3	70	82	110	24	3	59	6	120	11	17	30	42	44	**60,000**
BTEXN																				
Benzene	mg/kg	0.2		-	-	-	-	-	<0.2	-	-	-	-	-	-	<0.2	<0.2	-	-	**0.5**
Toluene	mg/kg	0.5		-	-	-	-	-	<0.5	-	-	-	-	-	-	<0.5	<0.5	-	-	**160**
Ethylbenzene	mg/kg	1		-	-	-	-	-	<1	-	-	-	-	-	-	<1	<1	-	-	**55**
Total Xylenes	mg/kg	1		-	-	-	-	-	<1	-	-	-	-	-	-	<1	<1	-	-	**40**
Naphthalene	mg/kg	1		-	-	-	-	-	<1	-	-	-	-	-	-	<1	<1	-	-	**3**
TRH																				
TRH C_6 - C_{10} (F1)	mg/kg	25		-	-	-	-	-	<25	-	-	-	-	-	-	<25	<25	-	-	**45**
TRH >C_{10} - C_{16} (F2)	mg/kg	50		-	-	-	-	-	<50	-	-	-	-	-	-	<50	<50	-	-	**110**
TRH >C_{16}-C_{34} (F3)	mg/kg	100		-	-	-	-	-	<100	-	-	-	-	-	-	<100	<100	-	-	**5,800**
TRH >C_{34}-C_{40} (F4)	mg/kg	100		-	-	-	-	-	<100	-	-	-	-	-	-	<100	<100	-	-	**8,100**
PAHs																				
Benzo(a)pyrene	mg/kg	0.05		0.64	0.4	-	0.3	0.27	0.1	-	-	0.05	-	-	-	<0.05	1.5	0.09	0.1	**-**
Benzo(a)pyrene TEQ	mg/kg	0.5		0.8	<0.5	-	<0.5	<0.50	<0.5	-	-	<0.5	-	-	-	<0.5	2.1	<0.5	<0.5	**4**
Total PAHs	mg/kg	0.05		6.4	3.4	-	2.6	2.7	0.99	-	-	0.05	-	-	-	<0.05	10	0.4	1.3	**400**
OCPs																				
Heptachlor	mg/kg	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	-	-	**10**
Aldrin	mg/kg	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	-	-	**10**
Dieldrin	mg/kg	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	-	-	
Endrin	mg/kg	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	-	-	**20**
gamma-Chlordane	mg/kg	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	-	-	**90**
alpha-chlordane	mg/kg	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	-	-	
Endosulfan I	mg/kg	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	-	-	**400**
Endosulfan II	mg/kg	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	-	-	
HCB	mg/kg	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	-	-	**15**
Methoxychlor	mg/kg	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	-	-	**500**
DDE + DDD + DDT	mg/kg	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	-	-	**600**
Remaining OCPs	mg/kg	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	-	-
OPPs																				
Chlorpyriphos	mg/kg	0.1		<0.1	<0.1	-	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	-	**340**
Remaining OPPs	mg/kg	0.1		<0.1	<0.1	-	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
PCBs																				
Total PCBs	mg/kg	0.1		-	-	-	-	-	<0.1	-	-	-	-	-	-	<0.1	<0.1	-	-	**1**

TABLE NOTES:

1 Total Chromium analytical result includes chromium (III) and (VI).

2 Trace Analysis relates results from Polarised Light microscopy and Dispersion Staining Techniques (Fibres not Visioble to the naked eye)

3 The lab will comment if they observed asbestos fibres even if the concentration was below the LOR of 0.1g/kg

Bold Result exceeding the Residential Human Health Criteria

10 SITE CHARACTERISATION

A summary of the investigation is presented below and includes a review of the analytical results.

10.1 SITE HISTORY

The Site

The site was subdivided in the late 1930s to create four allotments (1 and 1A Edward Street and 25 and 27 Rosedale Road), each of which has since been developed for residential purposes. Detached dwellings were present by the 1930s, with later modifications including swimming pools at 25 and 27 Rosedale Road, a tennis court at 1A Edward Street, and various extensions, outbuildings and landscaping works across all properties. In 2014, the dwelling at 27 Rosedale Road was converted to a dental practice (Gordon Dental), which remains in use but is considered a low-risk activity.

From a land contamination perspective, the historical use of the site appears generally benign. No commercial, industrial or waste-related activities have been identified. However, due to the age of the structures, the historical use of asbestos-containing materials (ACM) and lead-based paints cannot be excluded. Renovations, demolition or fill placement may have introduced shallow soil contamination, including lead and fragments of ACM. There is also the potential for imported fill of unknown origin to have been used during past site levelling or landscaping works.

Surrounding Land

The surrounding land has remained predominantly residential since at least the 1930s. Low-risk institutional and commercial uses have included the former Lady Gowrie Red Cross Convalescent Home at 10 Edward Street and a small vacuum cleaner service business at 9 Robert Street. Higher-risk uses such as former service stations and a gasworks site were located more than 900 m away and are considered unlikely to have affected the site given the distance and low permeability of local soils and bedrock.

10.2 SITE DESCRIPTION AND SURFACE CONDITIONS

At the time of inspection, all four properties were developed with modern or renovated residential dwellings, formal landscaping, and associated hardstand surfaces. Key features observed across the site include:

- ◊ Grassed and landscaped yards
- ◊ In-ground swimming pools at 25 Rosedale Road
- ◊ At-grade carparks at 27 Rosedale Road

◊ Disused tennis courts at 1A Edward Street.

◊ Outbuildings and garden sheds in rear yards

No visible signs of contamination (e.g. surface staining, chemical odours, or storage tanks) were identified. No Asbestos Containing Materials (ACM) were observed at the ground surface.

10.3 POTENTIAL FOR CONTAMINATION

Based on GEE's knowledge of the site, including review of the site's history and physical and environmental setting, the main sources of potential contamination included the following:

Onsite Areas and Sources of Potential Contamination	
Entire Site	FILL MATERIAL: There is potential for fill material to have been introduced to site to raise the site surface or create a level building platform for existing or past developments. When sourced from an unknown origin, the quality of the fill is not known and therefore may be contaminated.
Entire Site (Particularly Around Structures)	HAZARDOUS BUILDING MATERIALS: The age of the former, and some current buildings suggest that asbestos containing material (ACM) and lead-based paints may have been used. Therefore, any renovations, maintenance or the demolition of these structures may have resulted in near surface soils being impacted with lead and/or ACM.
Vehicle Accessible Areas	VEHICLE MOVEMENTS: Vehicles accessing and parking on site may have resulted in leaks and spillage of fuel and oils.
Entire Site	PESTICIDE USE: Pesticides may have been applied for pest/vegetation control.
Off-Site Areas and Sources of Potential Contamination	
-	-

It was also determined that the potential for contamination is from top-down sources and therefore the potential contaminated media is the near surface soils and any fill material across the site. To a lesser extent is the upper portion of the natural soil profile because there is always potential for contaminants in the fill layer to impact on the upper portion of the underlying natural soil profile via leaching.

Groundwater is unlikely to be contaminated but should be assessed if the upper fill and natural soils are found to be contaminated with mobile contaminants. Soil Vapour is also unlikely to be contaminated but should be assessed if significant volatile contamination is encountered in the soil and/or groundwater.

10.4 SUBSURFACE SOIL CONDITIONS

Subsurface conditions across the site were assessed at seventeen (BH1 to BH17 – refer to **Figure 4** and **Figure 5**), which were positioned in an approximate systematic pattern across the site, subject to access constraints and utility clearances. Borehole placement also targeted areas of potential concern. The number and spatial distribution of boreholes satisfy the minimum requirements for site characterisation as outlined by the NSW EPA and relevant Australian Standards (References 9 and 10).

During drilling and soil sampling, no adverse odours, staining, or asbestos-containing materials (ACM) were observed. Minor anthropogenic inclusions (brick, concrete, slag, glass) were noted within the fill layer at some locations.

To assess the contamination status of the fill and natural soil profile across the site, GEE submitted a total of 39 primary soil samples from the boreholes to a NATA accredited laboratory analysis for selective analysis of the CoPC. Specifically, metals (arsenic, cadmium, chromium, copper, nickel, lead, mercury and zinc), TRH, BTEXN, PAHs, OCPs, OPPs, PCBs and asbestos. All the results were then compared against relevant set of health-based SAC appropriate for the proposed development and the associated land-uses.

In summary all the results were below the SAC and there was no asbestos detected.

10.5 GROUNDWATER ASSESSMENT

GEE acknowledges that groundwater conditions beneath the site were not assessed as part of this investigation. However, this is acceptable given that:

- ◊ The contaminants of concern are from top-down sources,
- ◊ Permanent groundwater was not encountered by each the boreholes.
- ◊ The regional groundwater in the vicinity of the site is confined or partly confined, discrete, water-bearing zones within the underlying sandstone bedrock formation,
- ◊ The bedrock formation of shale is expected to have a relatively low permeability (in the order of 10^{-7}m/sec – Reference 15) and would restrict the vertical migration of contaminants, and
- ◊ There have been no significant volatile contaminating activities identified during this preliminary investigation which could be sufficiently mobile and impact the groundwater.

11 CONCLUSION

Geo-Environmental Engineering Pty Ltd (GEE) was commissioned by CPDM Pty Ltd, on behalf of Edward Street Residence DM Pty Limited, to undertake a preliminary and detailed site contamination investigation at 1 – 1A Edward and 25 – 27 Rosedale Roads, Gordon New South Wales 2072 (herein referred to as the 'site'). The site covers an area of 5,999.24m^2 (by title) and encompasses the following four allotments:

Address	Lot	Area (on Survey)
1 Edward Street	Lot A in DP 189351	1,843sqm
1a Edward Street	Lot C in DP 334965	1,710sqm
25 Rosedale Road	Lot B in DP 334965	850.7sqm
27 Rosedale Road	Lot A in DP 334965	1,542sqm
Total Area		5,945.7sqm

This PSI and DSI relate to the proposed construction of multi-storey, residential flat buildings with in-fill affordable housing and this report will accompany an Environmental Impact Statement (EIS) pursuant to Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act), in support of a State Significant Development Application (SSDA) for the proposed development (reference SSD-85549710).

The objective of the investigation was to address the requirements of Issue 13 'contamination and remediation' from the NSW Department of Planning, Housing and Infrastructure (DPHI) Housing Delivery Authority Criteria, by assessing and quantifying any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the proposed development.

The investigation comprised a:

- A review of the environmental and physical setting in which the site lies, including geology, hydrogeology and topography,
- A review of the history of the site and surrounding land using readily available records and historical aerial photographs,
- A site inspection for potential sources of contamination,
- Preparation of an initial Conceptual Site Model (CSM), and
- Field investigations including:
  - The drilling and logging of seventeen boreholes (BH1 to BH17) at accessible locations across the site, and

- The collection of soil samples from each of the boreholes.

◊ Laboratory analysis of selected soil samples for a broad suite of potential contaminants, and

◊ Preparation of this report including the comparison of the laboratory analytical results against relevant NSW EPA endorsed guidelines.

Based on observations made during the field investigations, the sampling and analysis program conducted at the site, the proposed land-use and with respect to relevant statutory guidelines, GEE conclude that the site is suitable for the proposed development and the associated land-use, without further assessment and/or remediation.

12 DECLARATION

I, Stephen McCormack, confirm this PSI and DSI report addresses the requirement of SEAR Clause 13 and relevant State and local legislation, policies, and guidelines including the State Environmental Planning Policy (Resilience and Hazards) 2021, the NSW EPA (2020) Contaminated Land Guidelines, and NEPM (2013) Schedule B(2) Guideline on Site Characterisation.

I further confirm that none of the information contained in the PSI and DSI reports is false or misleading.

13 GENERAL LIMITATIONS OF THIS REPORT

This report has been prepared in general accordance with guidelines endorsed by the NSW Office of Environment and Heritage, and the conclusions of this report are based on a limited scope of work described herein, which was considered appropriate based on the same regulatory guidelines.

It is the intention of GEE that the report reflect actual subsurface site conditions, and the contamination status, of the entire site (within the depths investigated). However, regardless of the level of investigation undertaken, there will always be uncertainty when dealing with land contamination. For instance, the sampling points (boreholes and/or testpits) represent a relatively small portion of the site, and ground conditions may vary between sampling locations. The cause of such variation may include, but are not limited to, complex geological settings, the fate and transport characteristics of certain chemicals, the distribution of existing contamination, physical limitations imposed by the location of utilities and other man-made structures, and the limitations of assessment technologies.

Furthermore, the laboratory analytical results contained in this report, upon which conclusions are drawn, relate only to a discrete sample submitted for analysis. Also, not all chemicals have been assessed as part of this investigation. The chemical analytes targeted by this investigation are based on either the site's history or represent a suite of common soil contaminants.

This report is based on site conditions which existed at the time of the field investigation and subsurface conditions may change over time, either through natural processes, or via ongoing activities on the site. Should additional information become available regarding conditions at the site (such as during construction), including evidence of previously unknown sources of contamination, then additional advice should be sought from GEE.

Finally, this report has been prepared for use by the client who has commissioned the works in accordance with the project brief only. Any reliance assumed by third parties on this report shall be at their own risk. This report should not be reproduced without prior approval by the client or amended in any way without prior approval by GEE.

14 REFERENCES

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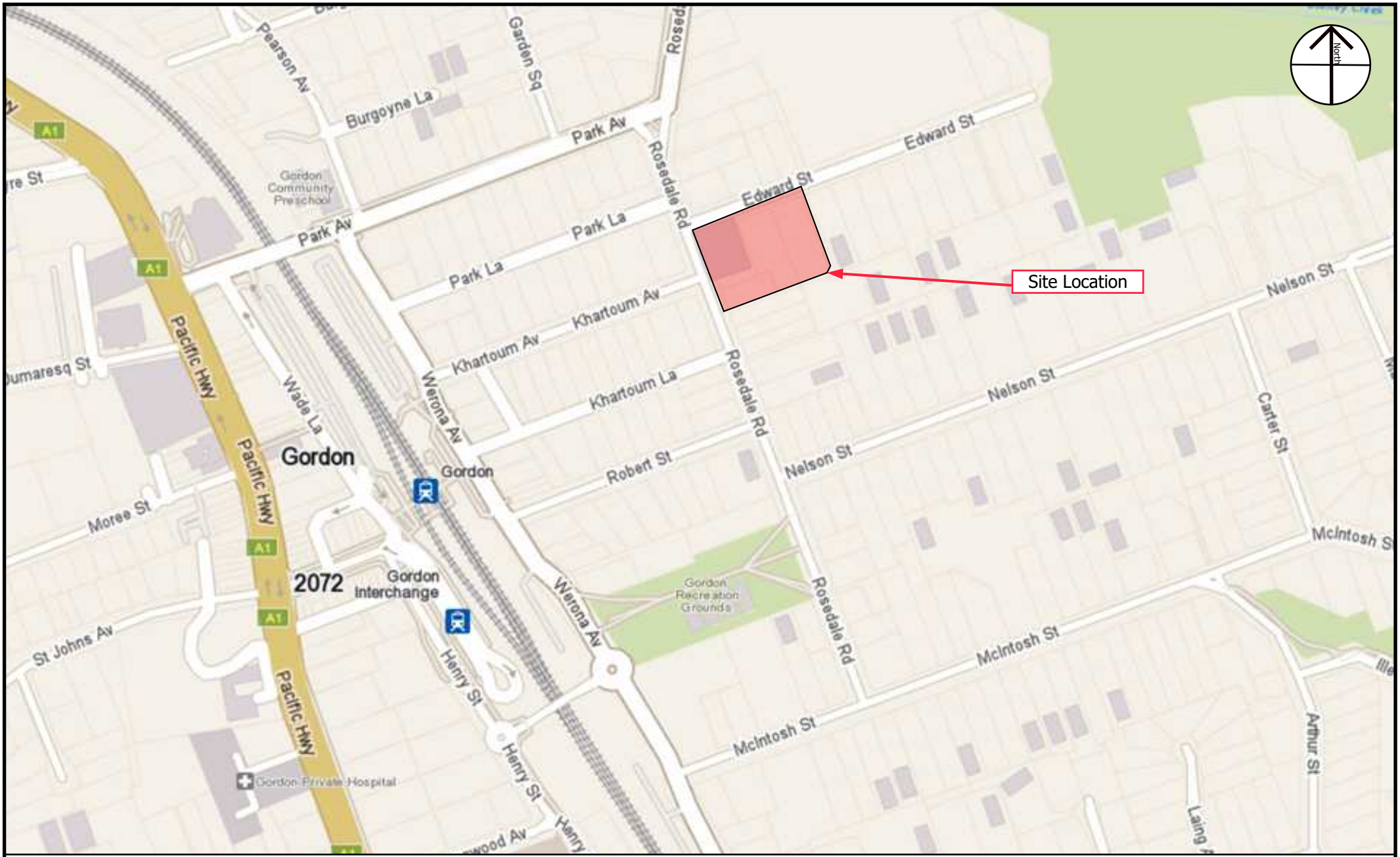
FIGURES

1 – Site Location Map
2 – Site Layout (Survey)
3 – Site Layout (Aerial)
4 – Site Plan Showing the Borehole Locations (Aerial)
5 – Site Plan Showing the Borehole Locations (Survey)



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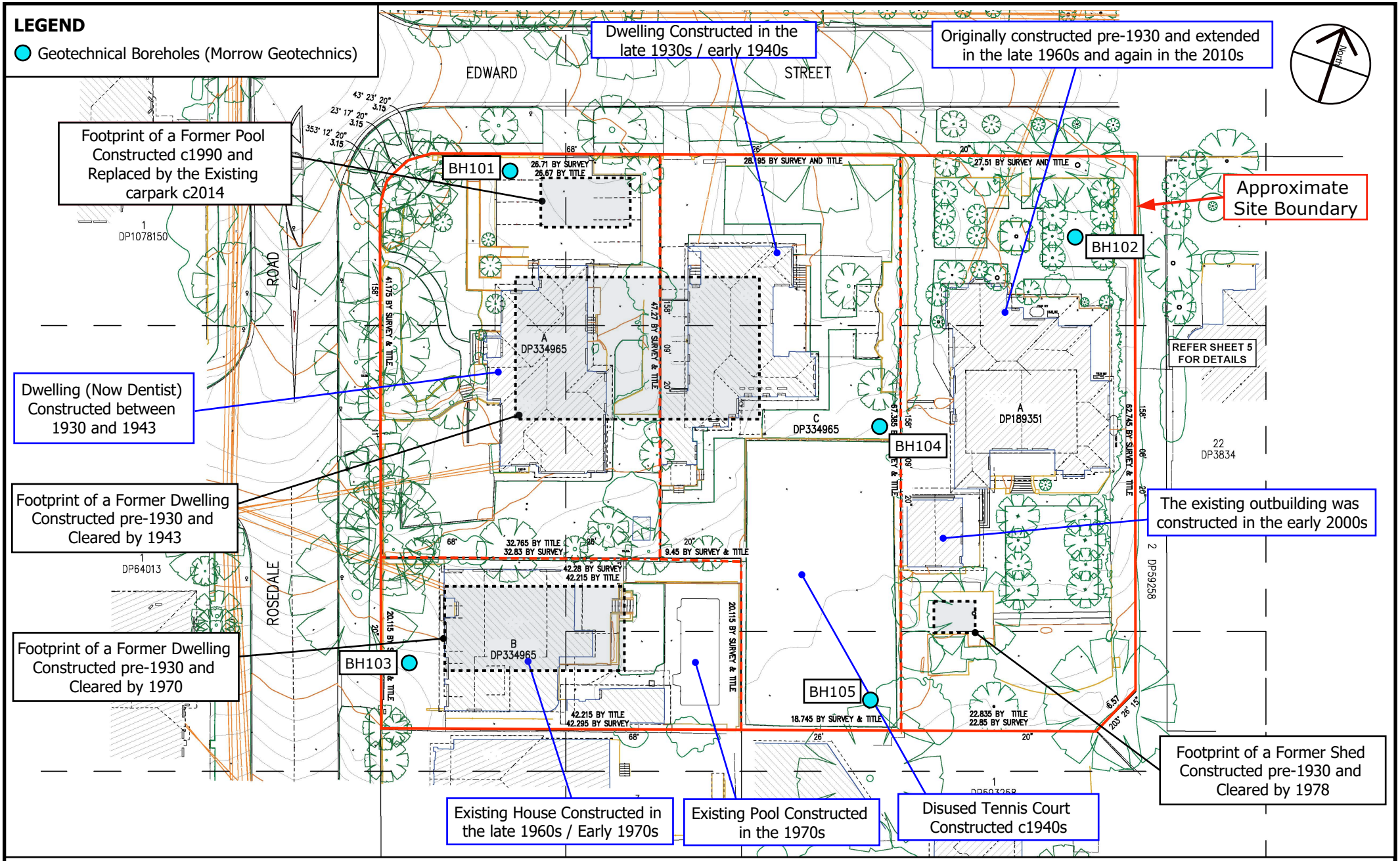
www.geoenvironmental.com.au

TITLE: SITE LOCATION MAP 1 - 1A Edward Street & 25 - 27 Rosedale, Road, Gordon NSW	SCALE: **N.T.S**	DATE: **7 Aug 2025**	FIGURE No.: **1**
	DRAWN: **S. Gao**	JOB No.: **E25008GOR**	REVISION: **A**



Survey Image Source: Survey Plan Prepared by TSS Total Surveying Solutions. Job No. 250373. Revision 0 Dated 13th June 2025

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UNIT 2 / 5-7 MALTA STREET
FAIRFIELD EAST NSW 2165
P - 61 (2) 9420 3361
E - info@geoenvironmental.com.au
www.geoenvironmental.com.au

TITLE:	SCALE:	DATE:	FIGURE No.:
SITE LAYOUT PLAN (Survey)	**N.T.S**	**7th Aug 2025**	**2**
	DRAWN: **S.Gao**	JOB No.: **E25008GOR**	REVISION: **A**

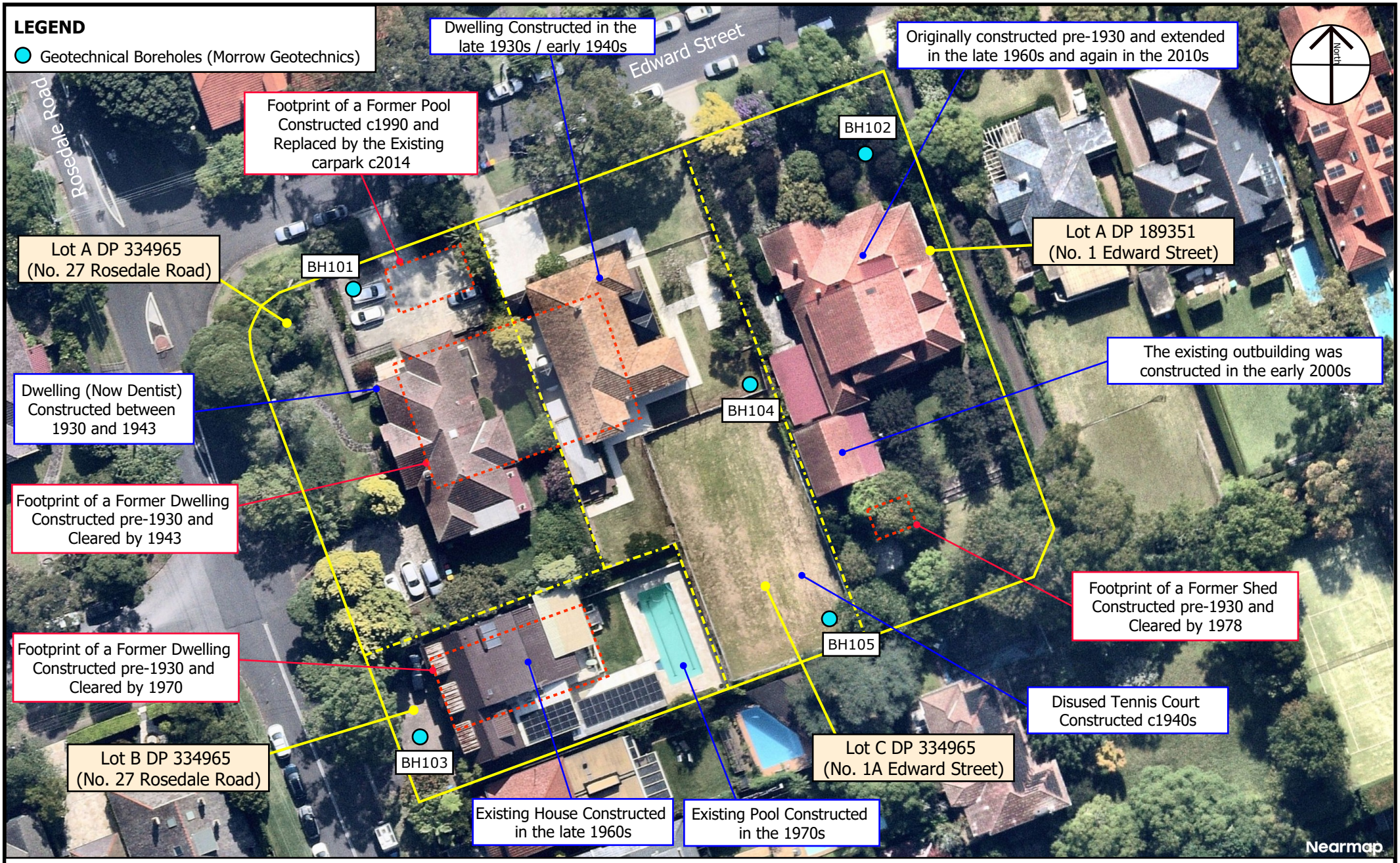

Image Source: www.nearmap.com. Nearmap Limited. Image Date: 3 April 2025

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TITLE:	SCALE:	DATE:	FIGURE No.:
SITE LAYOUT PLAN (Aerial)	**N.T.S**	**13 Aug 2025**	**3**
	DRAWN: **S.Gao**	JOB No.: **E25008GOR**	REVISION: **A**

Image Source: www.nearmap.com. Nearmap Limited. Image Date: 3 April 2025

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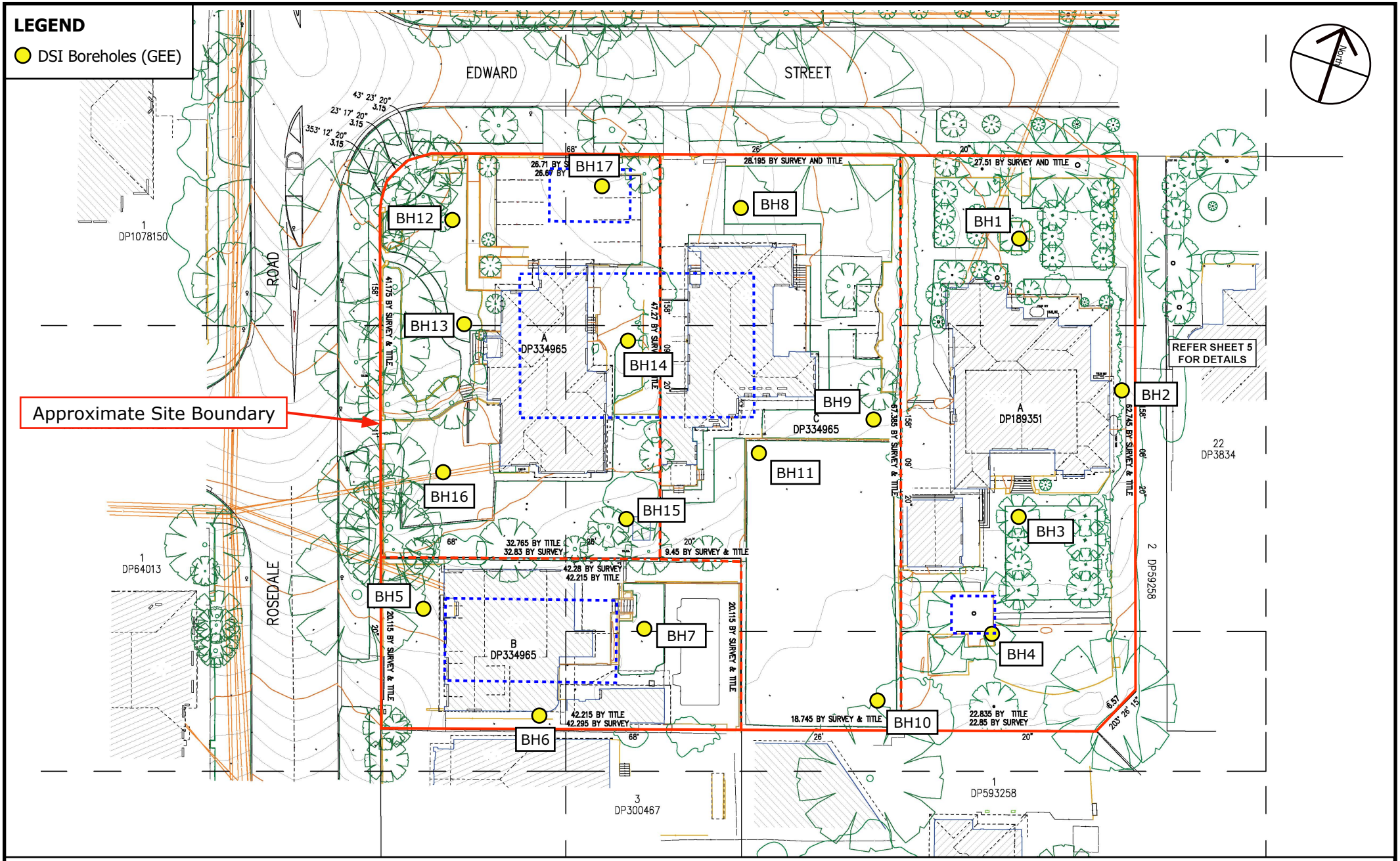
TITLE:	SCALE:	DATE:	FIGURE No.:
SITE SAMPLING PLAN (Aerial)	**N.T.S**	**9 Sept 2025**	**4**
	DRAWN: **S.Gao**	JOB No.: **E25008GOR**	REVISION: **A**



Survey Image Source: Survey Plan Prepared by TSS Total Surveying Solutions. Job No. 250373. Revision 0 Dated 13th June 2025

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TITLE:	SCALE:	DATE:	FIGURE No.:
SITE SAMPLING PLAN (Survey)	**N.T.S**	**9 Sept 2025**	**5**
	DRAWN: **S.Gao**	JOB No.: **E25008GOR**	REVISION: **A**

APPENDIX A

Survey and Architectural Plans

NOTE:

THE BOUNDARIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED BY SURVEY ON 26/05/2025 BY A SURVEYOR REGISTERED UNDER THE SURVEYING AND SPATIAL INFORMATION ACT 2002.

THE REGISTERED SURVEYOR CERTIFIES THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE SURVEYING AND SPATIAL INFORMATION REGULATION 2024, SECTION 45.

IF ANY CONSTRUCTION OR DESIGN WORK, WHICH RELIES ON CRITICAL SETBACKS FROM THE STREET OR SIDE BOUNDARIES IS PLANNED, SURVEY MARKS SHOULD BE PLACED TO DEFINE THE PROPERTY BOUNDARIES.

LEVELS ARE ON AUSTRALIAN HEIGHT DATUM (AHD).
ORIGIN: SSM 98821
REDUCED LEVEL: 116.088m
CLASS: B

COORDINATE SYSTEM. MAP GRID OF AUSTRALIA (MGA)
DATUM: GDA2020 - ZONE 56.
ORIGIN: SCIMS SSM 98821
SCIMS REPORT: 25/05/2025.

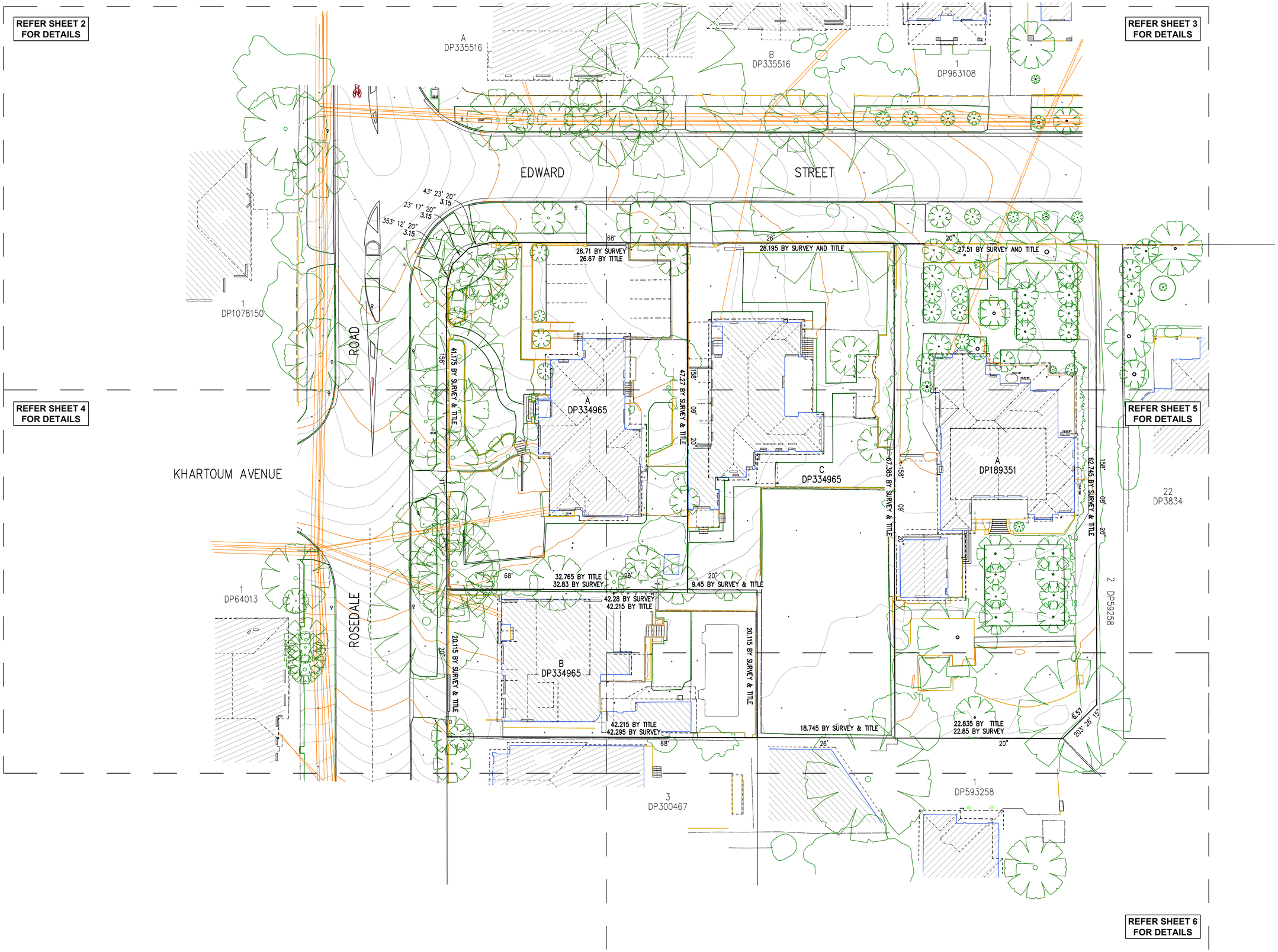
SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS ARE BASED ON SURFACE INDICATOR(S) LOCATED DURING FIELD SURVEY. CONFIRMATION OF THE EXACT POSITION SHOULD BE MADE PRIOR TO ANY EXCAVATION WORK. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN.

RIDGE & GUTTER HEIGHTS HAVE BEEN OBTAINED BY INDIRECT METHOD AND ARE ACCURATE TO ± 0.05m.

CONTOURS SHOWN DEPICT THE TOPOGRAPHY. EXCEPT AT SPOT LEVELS SHOWN THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. THE SPOT LEVELS ARE TRUE FOR THEIR POSITION AND ARE INTENDED TO BE USEFUL TO REPRESENT THE GENERAL TERRAIN. CARE SHOULD BE TAKEN IF EXTRAPOLATING.

TREE DIMENSIONS ARE APPROXIMATE ONLY.

Cameron Sparkes-Carroll
Registered Surveyor
Nº 9185



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E ELECTRICITY OVERHEAD

POINT SUFFIX LEGEND

FE - FENCE	AWN - AWNING	TK - TOP OF KERB	ELEC - ELECTRICAL PIT
TW - TOP OF WALL	EV - EAVES	BK - BACK OF KERB	PP - POWER POLE
BW - BOTTOM OF WALL	RR - ROOF RIDGE	GUT - KERB GUTTER	BM - BENCHMARK
WIN - WINDOW	FL - FLOOR LEVEL	LIP - KERB LIP	D/H/S - DIAMETER/HEIGHT/SPREAD

REV	DATE	DESCRIPTION	DRAWN	CHECKED
0	13/06/2025	FIRST ISSUE	BN	CSC

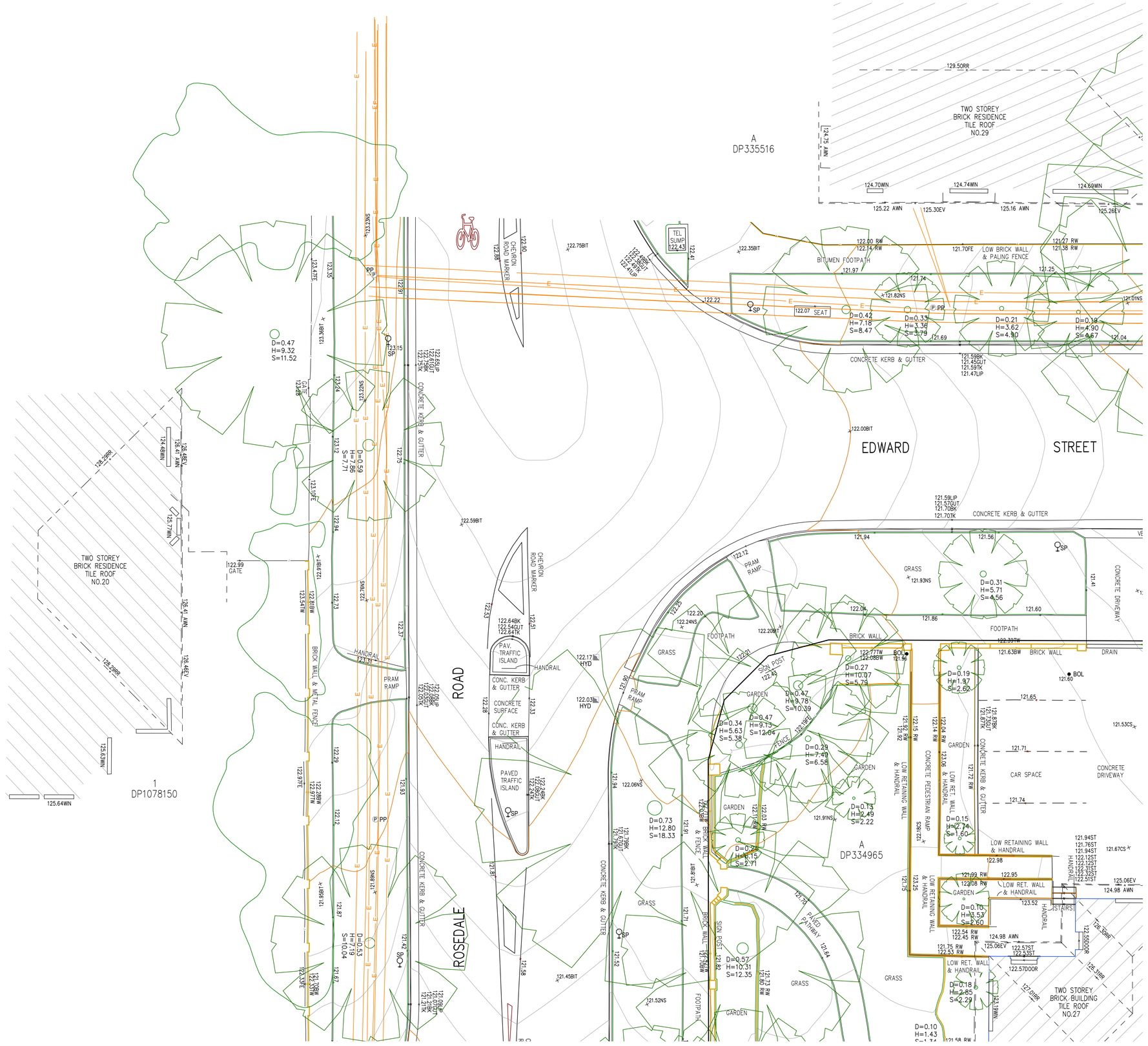
SYMBOL LEGEND

BM	BENCH MARK	SIP	SEWER INSPECTION PIT		STAY POLE	NBN	NBN PIT
EBOX	ELECTRICAL BOX	FH	FIRE HYDRANT	G	GAS VALVE	S SMH	SEWER MANHOLE
LP	LIGHT POLE	TL	TRAFFIC LIGHT	W	WATER VALVE	SV	STOP VALVE
PP	POWER POLE	TS	TRAFFIC SIGNAL BOX	VENT	SEWER VENT	HYD	WATER HYDRANT
	SURVEY MARK	TAP	WATER TAP	MH	MANHOLE	WM	WATER METER
FHR	FIRE HOSE REEL		STATE SURVEY MARK	OPTUS	OPTUS PIT	GM	GAS METER
DP	DOWN PIPE		MAILBOX	COMMS	COMMS PIT	ANT	ANTENNA
	UNIDENTIFIED POLE	TPIL	TELSTRA PILLAR	TEL	TELSTRA PIT	ATM	ATM
PM	PARKING METER	BH	BORE HOLE	ELEC	ELECTRICITY PIT	BOL	BOLLARD
SP	SIGN POST	EOT	END OF TRACE		CAMERA	AC	AIR CONDITIONER

TSS TOTAL SURVEYING SOLUTIONS

CLIENT: EDWARD ST RESIDENCES DM Pty Ltd

JOB No:	250373	DRAWING NUMBER		LGA
		250373-2		KU-RING-GAI
ADDRESS:	1 &1A Edward and 25 & 27 Rosedale Street, Gordon	DATUM AHD	SOURCE SSM98821	CONTOUR INTERVAL 0.2m MINOR / 1m MAJOR
TITLE:	PLAN HOWING DETAIL & LEVELS OVER LOTS A, B & C IN DP334965 AND LOT A IN DP189351	SCALE N.T.S	MGA	REV. 0
		SHEET 1/6		A1



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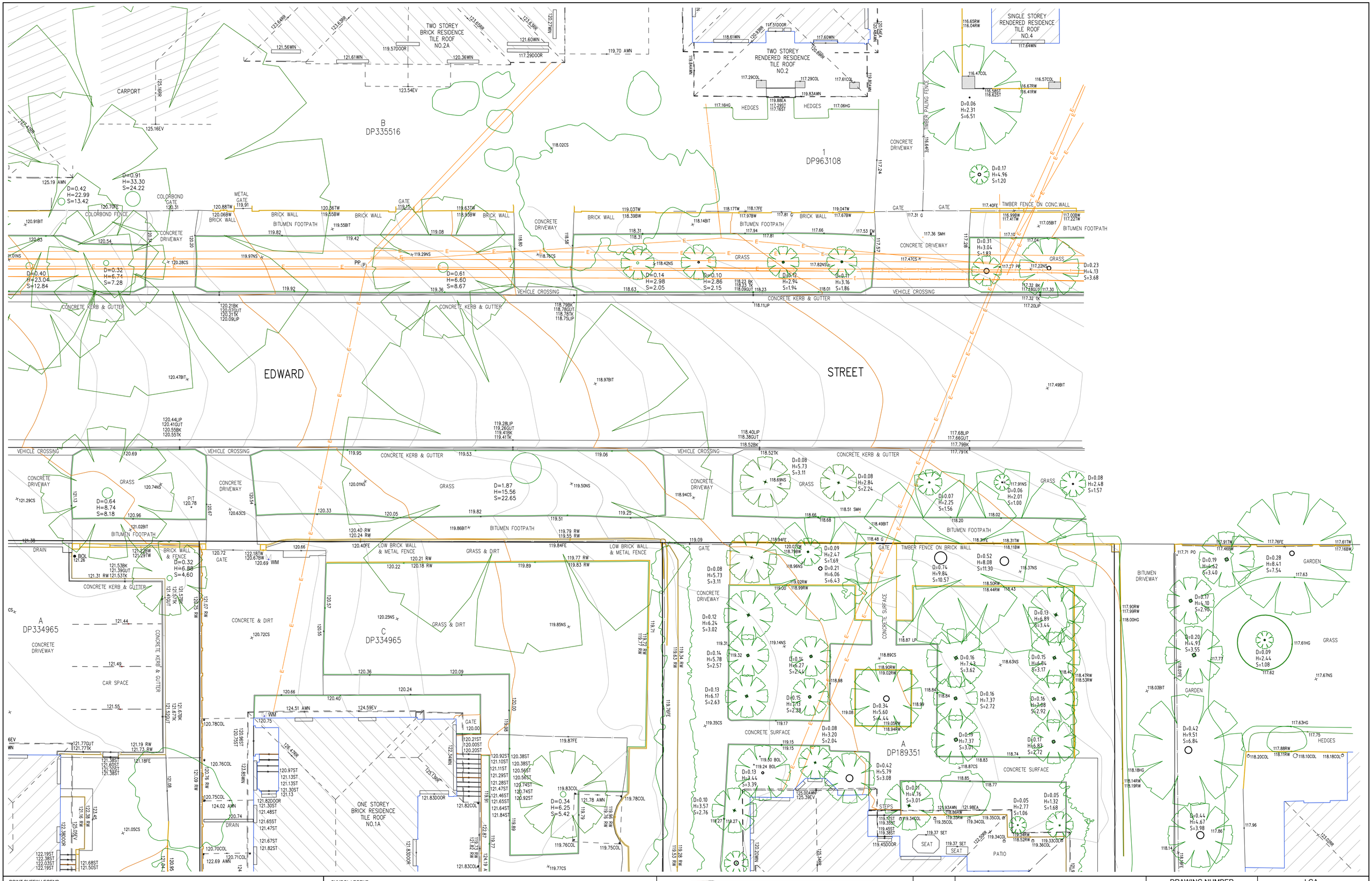

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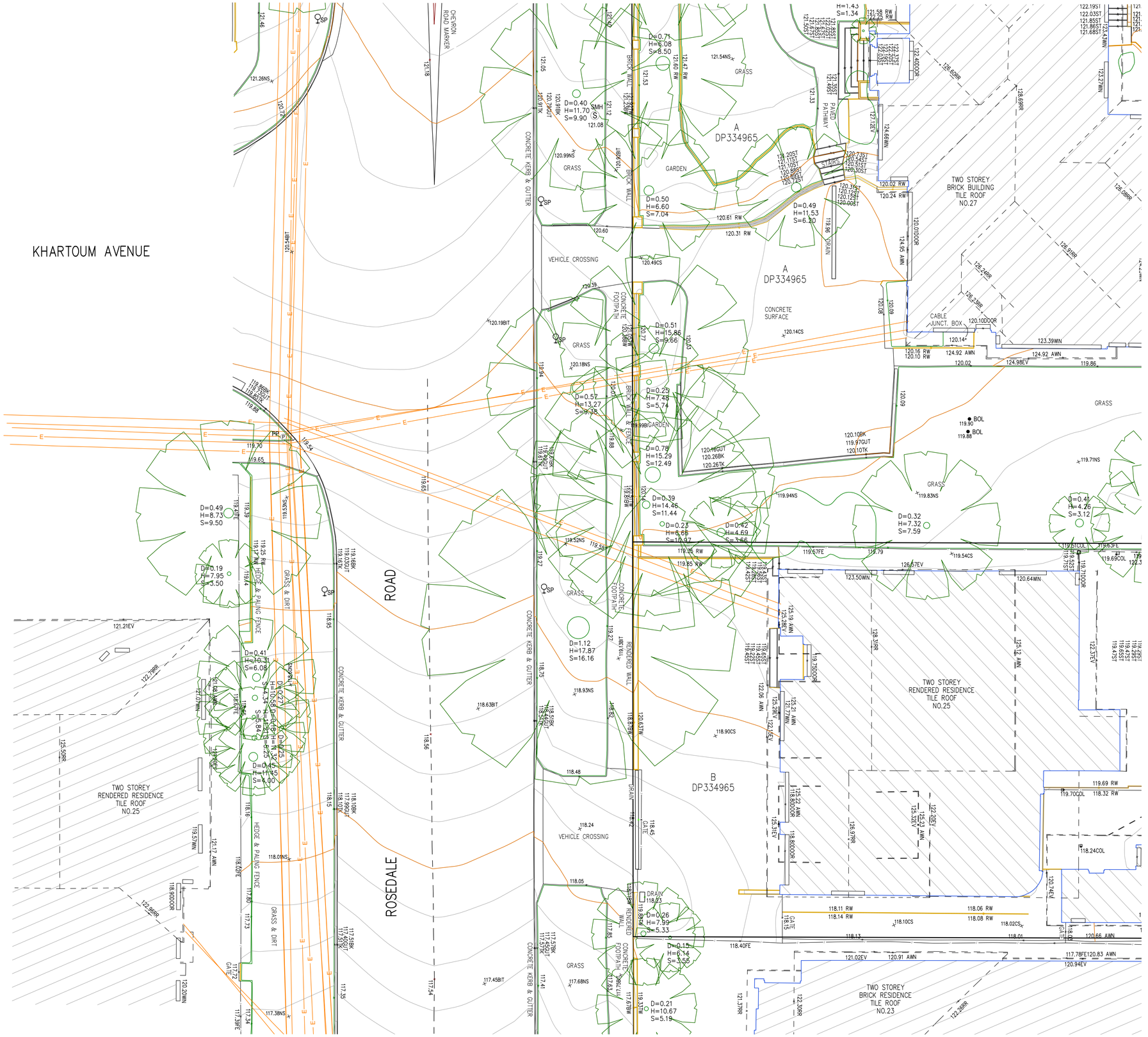

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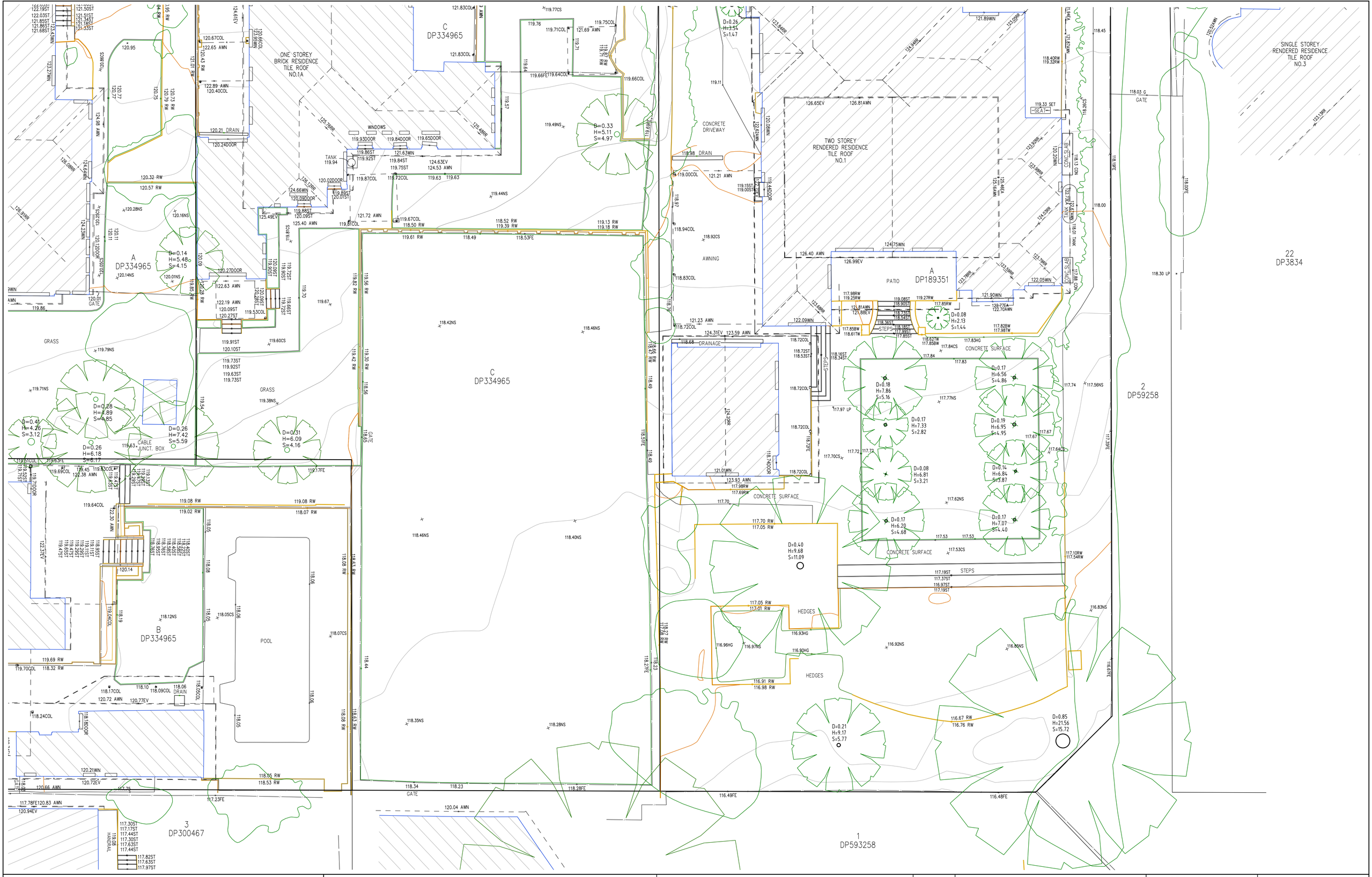

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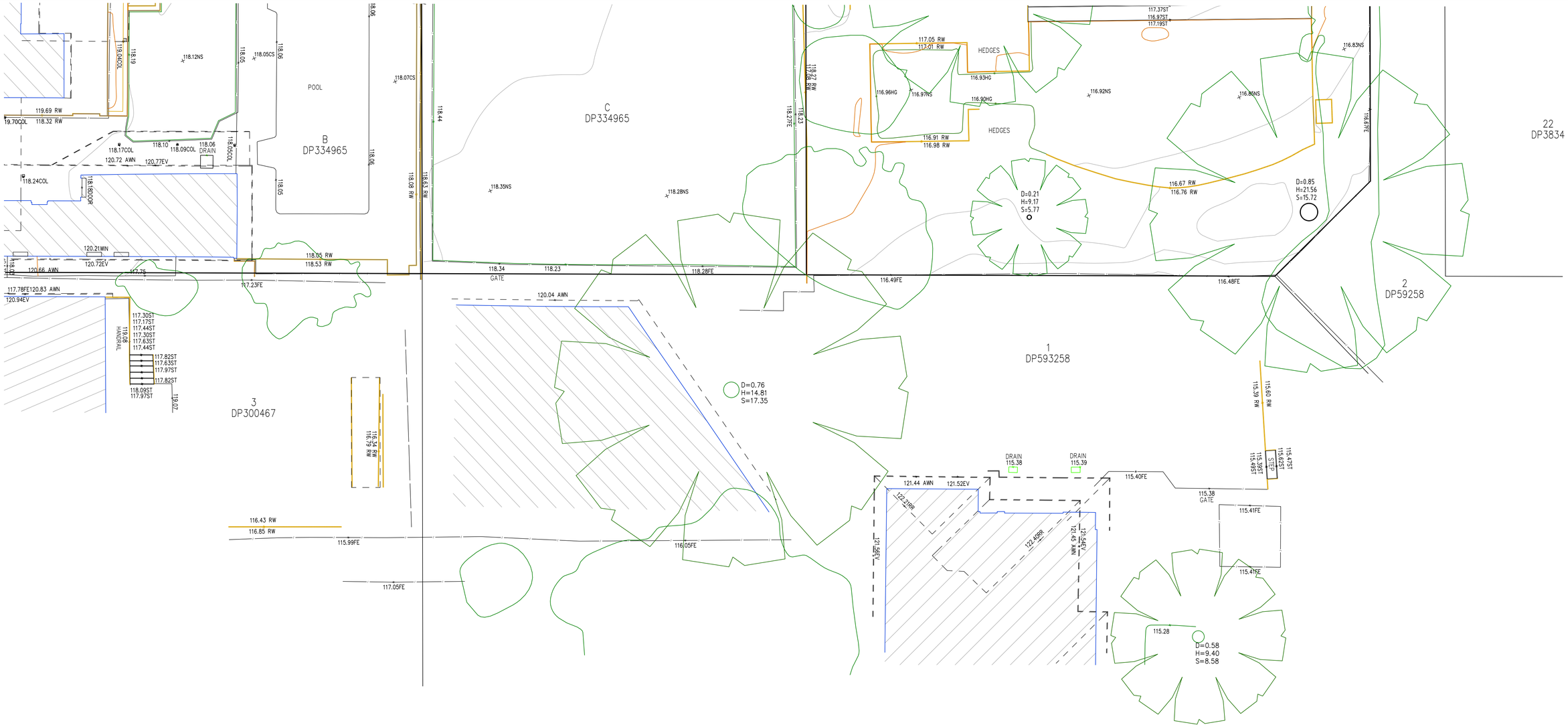

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		SHEET 6/6		A1

Edward Street and Rosedale Road, Gordon

1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

State Significant Development Application

Drawing List

Number	Name	Current Revision	Rev. Date
General Information			
DA00.00	Cover Page	E	06/05/26
DA00.01	Project Information	E	21/04/26
DA00.02	Site Analysis - Context Plan	A	26/09/25
Existing Conditions and Site Works			
DA01.00	Demolition Site Plan	A	26/09/25
DA01.01	Proposed Site Plan	A	26/09/25
General Arrangement Plans			
DA10.00	Basement 2 GA Plan	E	04/03/26
DA10.01	Basement 1 GA Plan	F	04/03/26
DA10.02	Level 0 GA Plan	G	09/04/26
DA10.03	Level 1 GA Plan	F	09/04/26
DA10.04	Level 2 GA Plan	D	04/03/26
DA10.05	Level 3 GA Plan	D	04/03/26
DA10.06	Level 4 GA Plan	E	04/03/26
DA10.07	Level 5 GA Plan	E	04/03/26
DA10.08	Level 6 GA Plan	D	04/03/26
DA10.09	Level 7 GA Plan	D	04/03/26
DA10.10	Level 8 GA Plan	D	04/03/26
DA10.11	Level 9 GA Plan	D	04/03/26
DA10.12	Roof GA Plan	B	04/03/26
Elevations and Finishes			
DA20.01	Buildings A & B North Elevations	D	06/05/26
DA20.02	Buildings A & B South Elevations	D	06/05/26
DA20.03	Buildings A East and West Elevations	D	06/05/26
DA20.04	Building B East and West Elevations	C	06/05/26
DA20.05	Materials and Finishes	B	14/11/25
Sections			
DA30.01	Sections 1	C	06/05/26
DA30.02	Sections 2	C	06/05/26
DA30.03	Driveway Details	B	04/03/26
Compliance			
DA50.30	Height Plane Diagram 1	D	06/05/26
DA50.40	Cross Ventilation Diagram 1	C	04/03/26
DA50.41	Cross Ventilation Diagram 2	C	04/03/26
DA50.50	Affordable Housing Diagrams 1	C	04/03/26
DA50.51	Affordable Housing Diagrams 2	C	04/03/26
DA50.60	Solar Access Winter Solstice Study 1	A	11/11/25
DA50.61	Solar Access Winter Solstice Study 2	A	11/11/25
DA50.62	Solar Access Diagrams 1	A	11/11/25
DA50.63	Solar Access Diagrams 2	A	11/11/25
DA50.64	Shadow Study - Proposed Envelope 9 - 10am	D	06/05/26
DA50.65	Shadow Study - Proposed Envelope 11 - 12 noon	D	06/05/26
DA50.66	Shadow Study - Proposed Envelope 1 - 2pm	D	06/05/26
DA50.67	Shadow Study - Proposed Envelope 3pm	D	06/05/26
DA50.68	Shadow Study - Proposed Envelope + Neighbouring Proposed Envelope	C	06/05/26
DA50.69	Shadow Study - Proposed Envelope - No Penthouses	C	06/05/26
DA50.70	Adapatable / Liveable Diagrams 1	A	11/11/25
DA50.71	Adapatable / Liveable Diagrams 2	A	11/11/25
DA60.01	Communal Open Space & Deep Soil	A	26/09/25
DA60.02	Livable Unit Layout 1	C	04/03/26
DA60.03	Livable Unit Layout 2	C	04/03/26
DA60.04	GFA Diagrams 1	B	04/03/26
DA60.05	GFA Diagrams 2	B	04/03/26
View Analysis			
DA70.00	View Analysis	B	14/11/25
DA70.01	View Analysis	A	14/11/25
DA70.02	View Analysis	A	14/11/25
DA70.03	View Analysis	A	14/11/25
DA70.04	View Analysis	A	14/11/25
DA70.05	View Analysis	A	14/11/25

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
E	06/05/26	SSDA Application	PMDL	
D	25/11/25	SSDA Application	PMDL	
C	14/11/25	SSDA Application	PMDL	
B	12/11/25	SSDA Application	PMDL	

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PMDL ARCHITECTURE + DESIGN PTY LTD ABN 56 062 961 317
NSW NOMINATED ARCHITECTS: CAO PECULIS 9610 DAVID MORRIS 5865 VICKI VAN DIJK 9476

DO NOT SCALE FROM DRAWING. USE FIGURED DIMENSION ONLY.
CHECK ALL DIMENSIONS ON SITE BEFORE MANUFACTURE OR CONSTRUCTION.

PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Cover Page

PROJ#: 3304

SCALE:

DA00.00 REV E

PROJECT INFORMATION

SITE AREA: 5,945.7m²

GFA / FSR	GFA (max.)	FSR (max.)
PERMISSIBLE (TOD)	14,864.25m²	2.5:1
+ IFAH BONUS (20%)	17,837.1m²	3:1
PROPOSED	15,931.36m²	2.68:1

HEIGHT	Height (max.)
PERMISSIBLE (TOD)	22m
+ IFAH BONUS (20%)	26.4m
PROPOSED	Building A (Lift Overrun) = HOB 30.18m (RL 151.23) Building B (Lift Overrun) = HOB 30.81m (RL 149.92)

AFFORDABLE	Affordable (min.)	Total (min.)
IFAH BONUS (10% min.)	1,593.14m²	1,911.77m² (12%)
IPAH (2% min.)	318.63m²	
PROPOSED	2,384.99m²	2,708.44m² (17%)
	323.45m²	

OVERVIEW

Total - GFA Schedule

Level	Area (m2)
A.L0	427.18 m²
A.L1	1140.40 m²
A.L2	1138.25 m²
A.L3	1138.25 m²
A.L4	1022.70 m²
A.L5	855.28 m²
A.L6	853.56 m²
A.L7	853.56 m²
A.L8	852.74 m²
A.L9	289.99 m²
B.L0	346.26 m²
B.L1	914.03 m²
B.L2	1014.61 m²
B.L3	1014.51 m²
B.L4	890.50 m²
B.L5	739.19 m²
B.L6	738.73 m²
B.L7	738.73 m²
B.L8	738.63 m²
B.L9	224.27 m²
Grand total	15931.36 m²

Total - Unit Mix Schedule

Type
1B + 1BTH
7
2B + 2.5BTH
4
2B + 2BTH
58
3B + 2.5BTH
8
3B + 3.5BTH
15
3B + 3BTH
25
4B + 3.5BTH
1
4B + 4.5BTH
1
Grand total: 119

AFFORDABLE CALCULATION

Affordable Housing

Number	Type	Area (m2)
A.L0.U1	3B + 3.5BTH	164.70 m²
* A.L0.U2	2B + 2BTH	110.67 m²
A.L0.U3	2B + 2BTH	112.38 m²
A.L1.U3	3B + 3BTH	126.49 m²
A.L1.U4	3B + 3.5BTH	141.71 m²
A.L1.U5	1B + 1BTH	86.97 m²
A.L1.U6	3B + 3.5BTH	141.71 m²
A.L2.U3	3B + 3.5BTH	133.41 m²
A.L4.U7	1B + 1BTH	84.05 m²
A.L5.U6	1B + 1BTH	84.05 m²
A.L6.U6	1B + 1BTH	84.05 m²
A.L7.U6	1B + 1BTH	84.05 m²
A.L8.U6	1B + 1BTH	84.05 m²

Affordable Housing

Number	Type	Area (m2)
B.L0.U1	3B + 3BTH	130.28 m²
B.L1.U1	2B + 2BTH	112.38 m²
B.L1.U2	2B + 2BTH	113.77 m²
* B.L1.U3	2B + 2.5BTH	145.40 m²
B.L1.U4	2B + 2BTH	113.05 m²
* B.L1.U5	1B + 1BTH	67.38 m²
B.L1.U6	2B + 2BTH	101.58 m²
B.L2.U5	3B + 3BTH	141.59 m²
B.L2.U7	2B + 2BTH	101.58 m²
B.L3.U5	3B + 3BTH	141.59 m²
B.L3.U7	2B + 2BTH	101.58 m²
Grand total: 24		2708.44 m²

Note: * *Units calculated in perpetuity 2%*

AFFORDABLE HOUSING

	Controls	Proposed
Infill 10%:	1,593.14m² (10%)	2,384.99m² (15%)
In perpetuity 2%:	318.63m² (2%)	323.45m² (2%)
TOTAL AFFORDABLE HOUSING AREA (Infill 10% + In Perpetuity 2%)	1,911.77m² (12%)	2,708.44m² (17%)

LIVABLE UNITS

Total Units	Platinum Level	Silver Level
119	18 units (15%)	101 units (85%)

PARKING

ESTIMATED CAR PARKING NUMBER UNDER SECTION 10 OF THE HOUSING SEPP 2021

	MAMARKET UNITS				AFFORDABLE UNITS				GRAND TOTAL
	1B	2B	3B	4B	1B	2B	3B		
Unit Number	0	51	42	2	7	9	8		119
Parking Rate	0.5	1	1.5	1.5	0.4	0.5	1		
Residential Parking Number	0	51	63	3	3	5	8		132
TOTAL REQUIRED PARKING NUMBER									132
TOTAL PARKING PROVIDED									135

ADG COMPLIANCE

Communal Open Space

Level	Area (m2)
A.L9	101.23 m²
B.L9	101.23 m²
L1	1660.19 m²
Grand total	1862.66 m²

Deep Soil Area

Area (m2)
923.99 m²
923.99 m²

CROSS VENTILATION

Total Units	Achieved Cross Ventilation
119	95 (80%)

COMMUNAL OPEN SPACE

	Controls	Proposed
COS (ADG)	25% (1,486.43m²)	31% (1,862.66m²)

DEEP SOIL

	Controls	Proposed
DEEP SOIL (ADG)	7% (416.20m²)	15.5% (923.99m²)

SOLAR ACCESS

Total Units	Achieved >2 Hours Solar Access
119	100 (84%)

BUILDING A

Building A - Unit Schedule

Number	Type	Unit Area (m2)	Solar Access	Cross Ventilation	Affordable	Platinum Living	POS Area (m2)
A.L0							POS
A.L0.U1	3B + 3.5BTH	164.70 m²	Yes	Yes	Yes	Yes	95.05 m²
A.L0.U2	2B + 2BTH	110.67 m²	No	No	Yes	Yes	28.20 m²
A.L0.U3	2B + 2BTH	112.38 m²	No	Yes	Yes	No	61.65 m²
3							184.90 m²
A.L1							
A.L1.U1	3B + 3.5BTH	146.18 m²	Yes	Yes	No	Yes	63.63 m²
A.L1.U2	2B + 2BTH	112.38 m²	Yes	Yes	No	Yes	61.09 m²
A.L1.U3	3B + 3BTH	126.49 m²	Yes	Yes	Yes	Yes	45.49 m²
A.L1.U4	3B + 3.5BTH	141.71 m²	Yes	Yes	Yes	Yes	47.85 m²
A.L1.U5	1B + 1BTH	86.97 m²	No	Yes	Yes	No	34.93 m²
A.L1.U6	3B + 3.5BTH	141.71 m²	No	Yes	Yes	Yes	25.63 m²
A.L1.U7	3B + 3BTH	116.41 m²	Yes	Yes	No	No	12.16 m²
A.L1.U8	2B + 2BTH	101.58 m²	No	Yes	No	No	11.06 m²
8							301.84 m²
A.L2							
A.L2.U1	3B + 2.5BTH	125.06 m²	Yes	Yes	No	No	12.01 m²
A.L2.U2	2B + 2BTH	101.58 m²	Yes	Yes	No	No	11.05 m²
A.L2.U3	3B + 3.5BTH	133.41 m²	Yes	No	Yes	No	12.00 m²
A.L2.U4	2B + 2BTH	122.56 m²	Yes	No	No	No	11.28 m²
A.L2.U5	3B + 3.5BTH	155.95 m²	No	Yes	No	No	13.88 m²
A.L2.U6	2B + 2BTH	108.20 m²	Yes	Yes	No	No	10.14 m²
A.L2.U7	2B + 2BTH	110.83 m²	Yes	Yes	No	No	10.14 m²
A.L2.U8	2B + 2BTH	99.13 m²	Yes	Yes	No	No	11.06 m²
A.L2.U9	2B + 2BTH	104.66 m²	No	Yes	No	No	10.95 m²
9							102.51 m²
A.L3							
A.L3.U1	3B + 2.5BTH	125.06 m²	Yes	Yes	No	No	12.01 m²
A.L3.U2	2B + 2BTH	104.55 m²	Yes	Yes	No	No	11.05 m²
A.L3.U3	3B + 3.5BTH	133.02 m²	Yes	No	No	No	12.00 m²
A.L3.U4	2B + 2BTH	122.56 m²	Yes	No	No	No	10.78 m²
A.L3.U5	3B + 3.5BTH	155.95 m²	No	Yes	No	No	17.47 m²
A.L3.U6	2B + 2BTH	108.20 m²	Yes	Yes	No	No	10.14 m²
A.L3.U7	2B + 2BTH	110.83 m²	Yes	Yes	No	No	10.14 m²
A.L3.U8	2B + 2BTH	98.74 m²	Yes	Yes	No	No	11.05 m²
A.L3.U9	2B + 2BTH	104.55 m²	No	Yes	No	No	11.05 m²
9							105.68 m²
A.L4							
A.L4.U1	3B + 2.5BTH	125.06 m²	Yes	Yes	No	No	12.01 m²
A.L4.U2	2B + 2BTH	101.58 m²	Yes	Yes	No	No	11.05 m²
A.L4.U3	3B + 3.5BTH	133.01 m²	Yes	No	No	No	12.00 m²
A.L4.U4	2B + 2BTH	122.56 m²	Yes	No	No	No	10.99 m²
A.L4.U5	3B + 3.5BTH	155.95 m²	No	Yes	No	No	17.47 m²
A.L4.U6	3B + 3BTH	123.39 m²	Yes	Yes	No	No	51.71 m²
A.L4.U7	1B + 1BTH	84.05 m²	Yes	No	Yes	No	8.24 m²
A.L4.U8	2B + 2BTH	95.93 m²	Yes	Yes	No	No	14.22 m²
8							137.68 m²

Building A - Unit Schedule

Number	Type	Unit Area (m2)	Solar Access	Cross Ventilation	Affordable	Platinum Living	POS Area (m2)
A.L5							
A.L5.U1	2B + 2BTH	93.61 m²	Yes	Yes	No	No	48.73 m²
A.L5.U2	2B + 2BTH	109.57 m²	Yes	No	No	No	22.23 m²
A.L5.U3	3B + 3BTH	130.62 m²	Yes	Yes	No	No	74.59 m²
A.L5.U4	3B + 2.5BTH	137.53 m²	Yes	Yes	No	No	20.16 m²
A.L5.U5	3B + 3BTH	123.39 m²	Yes	Yes	No	No	12.92 m²
A.L5.U6	1B + 1BTH	84.05 m²	Yes	No	Yes	No	8.64 m²
A.L5.U7	2B + 2BTH	95.93 m²	Yes	Yes	No	No	14.99 m²
7							202.25 m²
A.L6							
A.L6.U1	2B + 2BTH	93.51 m²	Yes	Yes	No	No	11.80 m²
A.L6.U2	2B + 2BTH	109.91 m²	Yes	No	No	No	10.02 m²
A.L6.U3	3B + 3BTH	133.70 m²	Yes	Yes	No	No	18.92 m²
A.L6.U4	3B + 2.5BTH	137.53 m²	Yes	Yes	No	No	18.41 m²
A.L6.U5	3B + 3BTH	123.39 m²	Yes	Yes	No	No	13.53 m²
A.L6.U6	1B + 1BTH	84.05 m²	Yes	No	Yes	No	8.96 m²
A.L6.U7	2B + 2BTH	95.93 m²	Yes	Yes	No	No	14.99 m²
7							96.61 m²
A.L7							
A.L7.U1	2B + 2BTH	93.51 m²	Yes	Yes	No	No	11.80 m²
A.L7.U2	2B + 2BTH	109.57 m²	Yes	No	No	No	10.01 m²
A.L7.U3	3B + 3BTH	133.70 m²	Yes	Yes	No	No	19.19 m²
A.L7.U4	3B + 2.5BTH	137.53 m²	Yes	Yes	No	No	18.09 m²
A.L7.U5	3B + 3BTH	124.17 m²	Yes	Yes	No	No	13.53 m²
A.L7.U6	1B + 1BTH	84.05 m²	Yes	No	Yes	No	8.96 m²
A.L7.U7	2B + 2BTH	99.01 m²	Yes	Yes	No	No	14.99 m²
7							96.57 m²
A.L8							
A.L8.U1	2B + 2BTH	93.51 m²	Yes	Yes	No	No	11.80 m²
A.L8.U2	2B + 2BTH	109.57 m²	Yes	No	No	No	10.01 m²
A.L8.U3	3B + 3BTH	130.62 m²	Yes	Yes	No	No	18.92 m²
A.L8.U4	3B + 2.5BTH	137.53 m²	Yes	Yes	No	No	18.41 m²
A.L8.U5	3B + 3BTH	123.39 m²	Yes	Yes	No	No	13.53 m²
A.L8.U6	1B + 1BTH	84.05 m²	Yes	No	Yes	No	8.96 m²
A.L8.U7	2B + 2BTH	95.93 m²	Yes	Yes	No	No	14.22 m²
7							95.84 m²
A.L9							
A.L9.U1	4B + 4.5BTH	252.48 m²	Yes	Yes	No	Yes	64.44 m²
1							64.44 m²

Building A - Unit Mix Schedule

Type
1B + 1BTH
6
2B + 2BTH
31
3B + 2.5BTH
7
3B + 3.5BTH
10
3B + 3BTH
11
4B + 4.5BTH
1
Grand total: 66

BUILDING B

Building B - Unit Schedule

Number	Type	Unit Area (m2)	Solar Access	Cross Ventilation	Affordable	Platinum Living	POS Area (m2)
B.L0							
B.L0.U1	3B + 3BTH	130.28 m²	No	Yes	Yes	No	82.22 m²
B.L0.U2	3B + 3.5BTH	184.88 m²	Yes	Yes	No	No	82.21 m²
2							164.43 m²
B.L1							
B.L1.U1	2B + 2BTH	112.38 m²	Yes	Yes	Yes	Yes	76.20 m²
B.L1.U2	2B + 2BTH	113.77 m²	Yes	No	Yes	No	35.13 m²
B.L1.U3	2B + 2.5BTH	145.40 m²	Yes	No	Yes	Yes	38.80 m²
B.L1.U4	2B + 2BTH	113.05 m²	Yes	No	Yes	No	28.37 m²
B.L1.U5	1B + 1BTH	67.38 m²	Yes	Yes	Yes	No	28.89 m²
B.L1.U6	2B + 2BTH	101.58 m²	No	Yes	Yes	No	11.05 m²
B.L1.U7	2B + 2BTH	109.03 m²	Yes	Yes	No	No	11.05 m²
7							229.50 m²
B.L2							
B.L2.U1	2B + 2BTH	101.58 m²	Yes	Yes	No	No	11.05 m²
B.L2.U2	2B + 2BTH	130.54 m²	Yes	Yes	No	No	11.98 m²
B.L2.U3	2B + 2BTH	105.12 m²	Yes	No	No	No	13.75 m²
B.L2.U4	2B + 2.5BTH	124.78 m²	Yes	No	No	Yes	16.05 m²
B.L2.U5	3B + 3BTH	141.59 m²	Yes	Yes	Yes	No	15.80 m²
B.L2.U6	3B + 3BTH	138.76 m²	Yes	Yes	No	No	15.80 m²
B.L2.U7	2B + 2BTH	101.58 m²	No	Yes	Yes	No	11.05 m²
B.L2.U8	2B + 2BTH	98.74 m²	Yes	Yes	No	No	11.05 m²
8							106.53 m²
B.L3							
B.L3.U1	2B + 2BTH	101.58 m²	Yes	Yes	No	No	11.05 m²
B.L3.U2	2B + 2BTH	130.54 m²	Yes	Yes	No	No	11.98 m²
B.L3.U3	2B + 2BTH	104.80 m²	Yes	No	No	No	14.02 m²
B.L3.U4	2B + 2.5BTH	124.78 m²	Yes	No	No	Yes	16.05 m²
B.L3.U5	3B + 3BTH	141.59 m²	Yes	Yes	Yes	No	15.80 m²
B.L3.U6	3B + 3BTH	139.35 m²	Yes	Yes	No	No	15.80 m²
B.L3.U7	2B + 2BTH	101.58 m²	No	Yes	Yes	No	10.35 m²
B.L3.U8	2B + 2BTH	98.74 m²	Yes	Yes	No	No	10.35 m²
8							105.40 m²
B.L4							
B.L4.U1	2B + 2BTH	101.59 m²	Yes	Yes	No	No	11.05 m²
B.L4.U2	3B + 2.5BTH	130.51 m²	Yes	Yes	No	No	12.01 m²
B.L4.U3	2B + 2BTH	105.12 m²	Yes	No	No	No	14.02 m²
B.L4.U4	2B + 2.5BTH	124.51 m²	Yes	No	No	Yes	16.18 m²
B.L4.U5	2B + 2BTH	107.16 m²	No	Yes	No	No	32.27 m²
B.L4.U6	3B + 3BTH	149.90 m²	No	Yes	No	Yes	17.38 m²
B.L4.U7	2B + 2BTH	100.21 m²	Yes	Yes	No	No	46.03 m²
7							148.94 m²

Building B - Unit Schedule

Number	Type	Unit Area (m2)	Solar Access	Cross Ventilation	Affordable	Platinum Living	POS Area (m2)
B.L5							
B.L5.U1	2B + 2BTH	116.53 m²	Yes	Yes	No	No	63.35 m²
B.L5.U2	3B + 3BTH	150.82 m²	Yes	Yes	No	No	70.28 m²
B.L5.U3	3B + 3.5BTH	155.95 m²	Yes	Yes	No	No	17.71 m²
B.L5.U4	3B + 3BTH	149.90 m²	Yes	Yes	No	Yes	15.69 m²
B.L5.U5	2B + 2BTH	100.21 m²	Yes	Yes	No	No	12.03 m²
5							179.06 m²
B.L6							
B.L6.U1	2B + 2BTH	117.00 m²	Yes	Yes	No	No	12.19 m²
B.L6.U2	3B + 3BTH	150.82 m²	Yes	Yes	No	No	13.34 m²
B.L6.U3	3B + 3.5BTH	155.95 m²	Yes	Yes	No	No	18.15 m²
B.L6.U4	3B + 3BTH	149.90 m²	Yes	Yes	No	Yes	15.98 m²
B.L6.U5	2B + 2BTH	100.21 m²	Yes	Yes	No	No	12.00 m²
5							71.65 m²
B.L7							
B.L7.U1	2B + 2BTH	116.53 m²	Yes	Yes	No	No	12.19 m²
B.L7.U2	3B + 3BTH	150.82 m²	Yes	Yes	No	No	13.34 m²
B.L7.U3	3B + 3.5BTH	155.95 m²	Yes	Yes	No	No	18.05 m²
B.L7.U4	3B + 3BTH	149.90 m²	Yes	Yes	No	Yes	15.98 m²
B.L7.U5	2B + 2BTH	100.21 m²	Yes	Yes	No	No	12.00 m²
5							71.55 m²
B.L8							
B.L8.U1	2B + 2BTH	116.53 m²	Yes	Yes	No	No	12.00 m²
B.L8.U2	3B + 3BTH	150.82 m²	Yes	Yes	No	No	13.34 m²
B.L8.U3	3B + 3.5BTH	155.95 m²	Yes	Yes	No	No	18.41 m²
B.L8.U4	3B + 3BTH	149.90 m²	Yes	Yes	No	Yes	15.98 m²
B.L8.U5	2B + 2BTH	100.21 m²	Yes	Yes	No	No	12.00 m²
5							71.72 m²
B.L9							
B.L9.U1	4B + 3.5BTH	191.23 m²	Yes	Yes	No	No	84.04 m²
1							84.04 m²

Building B - Unit Mix Schedule

Type
1B + 1BTH
1
2B + 2.5BTH
4
2B + 2BTH
27
3B + 2.5BTH
1
3B + 3.5BTH
5
3B + 3BTH
14
4B + 3.5BTH
1
Grand total: 53

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
E	21/04/26	SSDA Application	PMDL	
D	17/11/25	SSDA Application	PMDL	
C	14/11/25	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	

PMDL ARCHITECTURE
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PMDL ARCHITECTURE + DESIGN HK (LIMITED)
PMDL ARCHITECTURE + DESIGN PTY LTD ABN 56 082 891 317
NSW NOMINATED ARCHITECTS: CAIO PECULIS 9610 DAVID MORRIS 6865 VICKI VAN DIJK 9476

DO NOT SCALE FROM DRAWING. USE FIGURED DIMENSION ONLY.
CHECK ALL DIMENSIONS ON SITE BEFORE MANUFACTURE OR CONSTRUCTION.

PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

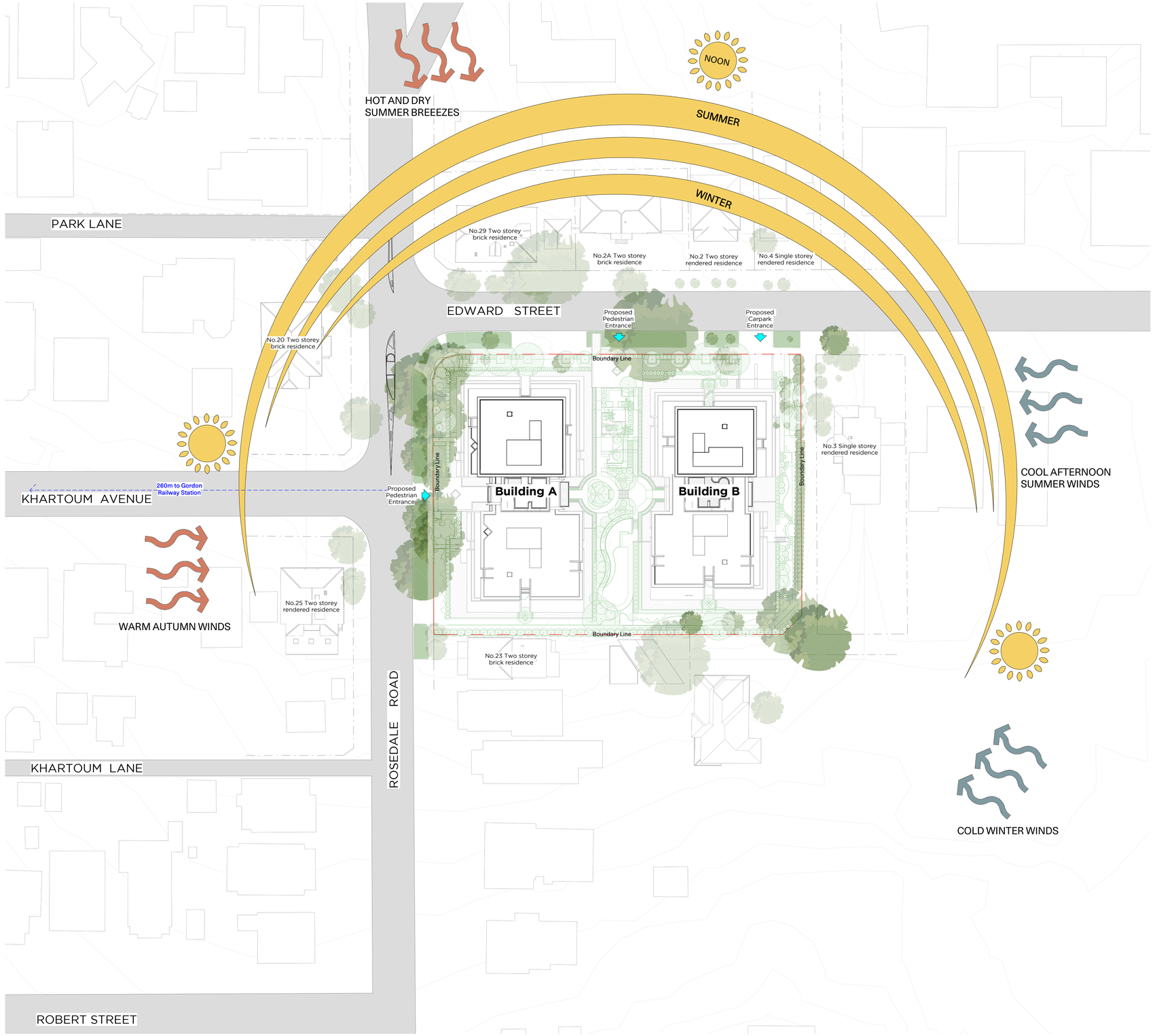
ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Project Information

PROJ#: 3304

SCALE: @ A1

DA00.01 REV E



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Scale 1:100

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
A	26/09/25	SSDA Application	PMDL	

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PROJECT
Edward Street and
Rosedale Road,
Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

NAME
Site Analysis - Context Plan

PROJ#
3304

SCALE
1 : 500@ A1

#
DA00.02

REV
A

Note:
Based on Survey by TSS
Total Surveying Solutions

Drawing Number: 250373-2

Date: 23/09/2025

0m 2 4 5m
Scale 1:100

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
A	26/09/25	SSDA Application	PMDL	

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PMDL ARCHITECTURE + DESIGN HK (LIMITED)
PMDL ARCHITECTURE + DESIGN PTY LTD ABN 56 062 961 317
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PROJECT
Edward Street and Rosedale Road, Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME
Demolition Site Plan

PROJ#
3304

SCALE
1:200@ A1

#
DA01.00

REV
A

0m 4 8 10m
Scale 1:200

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9610 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Proposed Site Plan

PROJ#: 3304

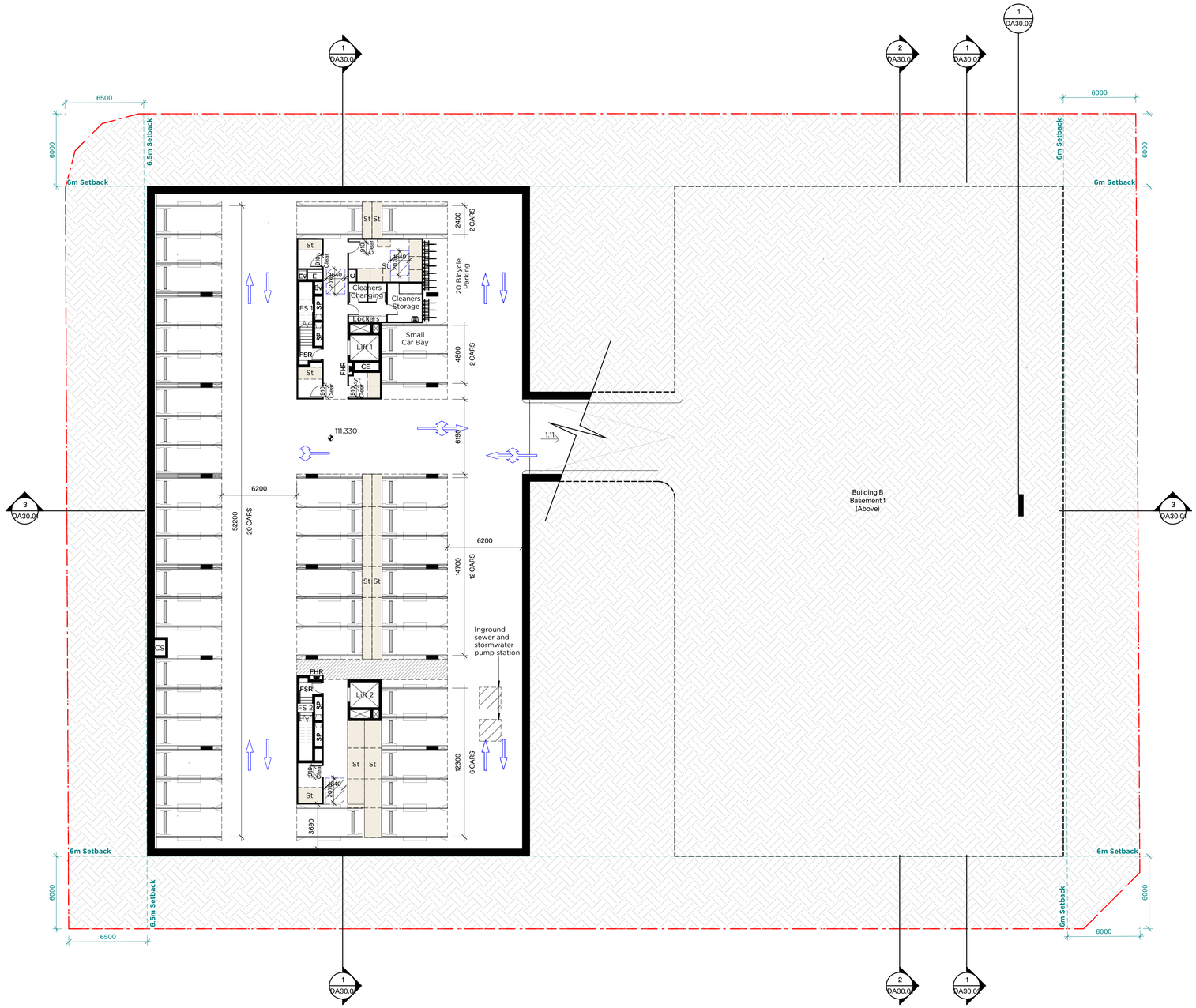
SCALE: 1:200@ A1

DA01.01

REV A

Carpark Storage - Basement 2

	Volume (m3)
Storage	8.5 m³
Storage	2.9 m³
Storage	3.1 m³
Storage	5.4 m³
Storage	9.6 m³
Storage	9.1 m³
Storage	9.3 m³
Storage	8.5 m³
Storage	9.6 m³
Storage	9.1 m³
Storage	6.7 m³
Storage	6.7 m³
Storage	2.9 m³
Storage	3.1 m³
Storage	4.0 m³
Storage	3.1 m³
Storage	3.1 m³
Storage	1.9 m³
Storage	1.9 m³
Storage	4.7 m³
Storage	7.0 m³
Storage	6.0 m³
Storage	5.4 m³
Storage	5.7 m³
Storage	6.0 m³
Storage	5.4 m³
Storage	5.7 m³
Storage	6.0 m³
Storage	6.0 m³
Storage	5.7 m³
Storage	5.7 m³
Storage	5.4 m³
Storage	5.4 m³
33	188.6 m³



LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN) Sliding Door: Full Height (SD) Door: Full Height (DR)	
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs		

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
E	04/03/26	SSDA Application	PMDL	
D	25/11/25	SSDA Application	PMDL	
C	14/11/25	SSDA Application	PMDL	
B	12/11/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Basement 2 GA Plan

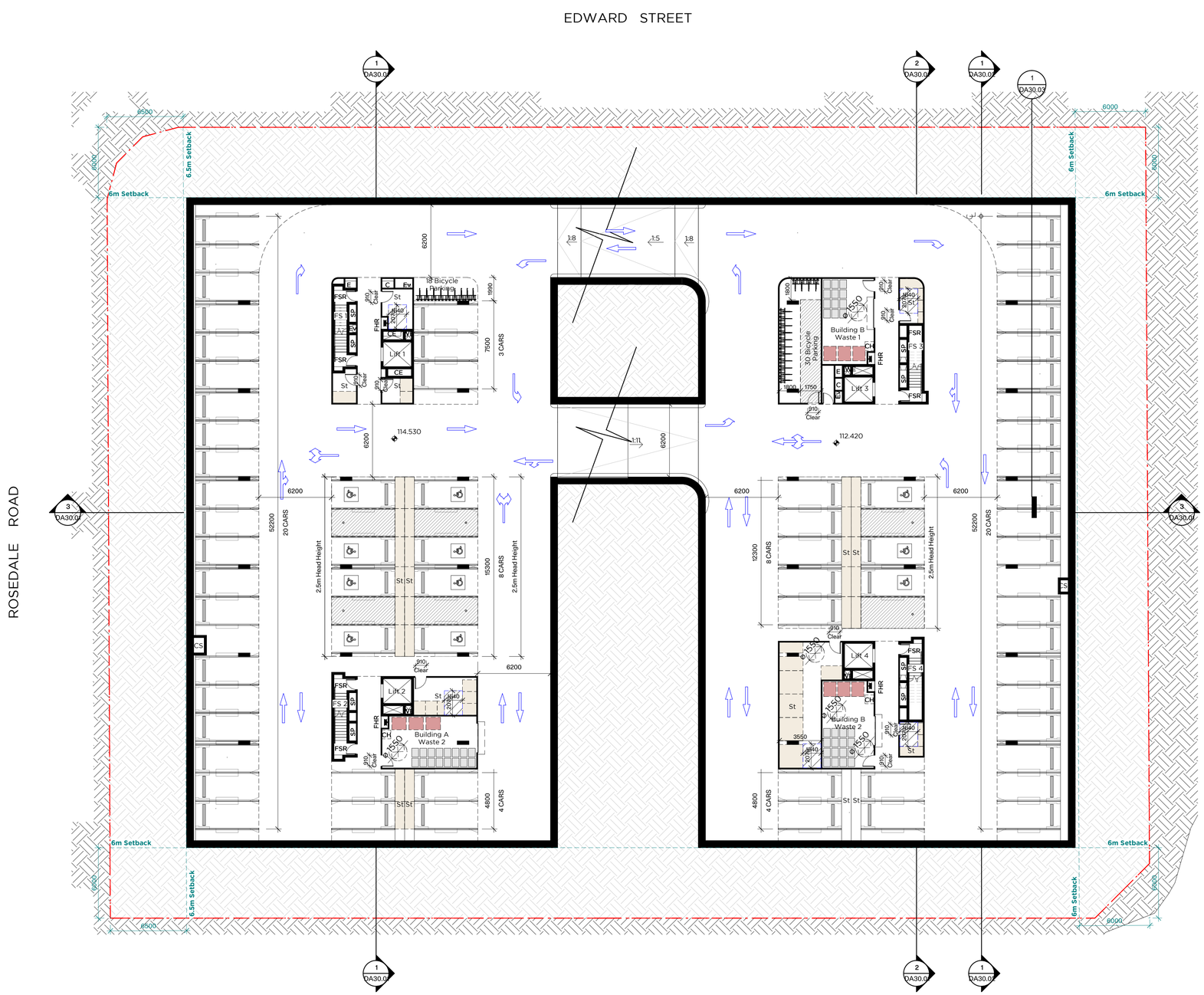
PROJ#: 3304

SCALE: 1:200@ A1

DA10.00

REV E

Carpark Storage - Basement 1	
	Volume (m3)
Storage	3.2 m³
Storage	3.2 m³
Storage	1.2 m³
Storage	4.5 m³
Storage	1.2 m³
Storage	3.2 m³
Storage	3.2 m³
Storage	2.0 m³
Storage	3.2 m³
Storage	2.9 m³
Storage	3.1 m³
Storage	5.7 m³
Storage	6.0 m³
Storage	5.7 m³
Storage	5.7 m³
Storage	5.7 m³
Storage	5.7 m³
Storage	6.0 m³
Storage	5.7 m³
Storage	5.7 m³
Storage	5.7 m³
Storage	5.7 m³
Storage	6.0 m³
Storage	5.4 m³
Storage	5.7 m³
Storage	6.0 m³
Storage	5.4 m³
Storage	5.7 m³
Storage	6.0 m³
Storage	6.0 m³
Storage	5.7 m³
Storage	5.7 m³
Storage	5.4 m³
Storage	5.4 m³
Storage	10.9 m³
Storage	10.9 m³
Storage	10.9 m³
Storage	10.9 m³
Storage	6.5 m³
Storage	4.9 m³
Storage	5.8 m³
Storage	1.2 m³
Storage	4.0 m³
Storage	1.2 m³
Storage	1.2 m³
Storage	6.0 m³
Storage	6.0 m³
Storage	6.0 m³
Storage	6.0 m³
49	255.1 m³



LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs

Glass Windows & Sliding Doors:
(sl) Sliding
(fi) Fixed
(aw) Awning
(lv) Louvre
(sw) Swing

Window: 1m Sill (WN)
Sliding Door: Full Height (SD)
Door: Full Height (DR)

Not for construction

Scale 1:100 (0m, 2, 4, 5m)

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
F	04/03/26	SSDA Application	PMDL	
E	25/11/25	SSDA Application	PMDL	
D	14/11/25	SSDA Application	PMDL	
C	12/11/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Basement 1 GA Plan

PROJ#: 3304

SCALE: 1:200@ A1

DA10.01

REV F

Carpark Storage - Level 0

	Volume (m3)
Storage	3.2 m³
Storage	3.2 m³
Storage	3.2 m³
Storage	3.2 m³
Storage	2.7 m³
Storage	3.2 m³
Storage	3.2 m³
Storage	3.2 m³
Storage	3.2 m³
Storage	3.1 m³
Storage	3.2 m³
Storage	3.2 m³
Storage	2.7 m³
Storage	7.2 m³
Storage	7.2 m³
Storage	7.2 m³
Storage	6.4 m³
Storage	6.5 m³
Storage	3.5 m³
Storage	3.1 m³
Storage	3.5 m³
Storage	3.1 m³
Storage	3.1 m³
Storage	3.1 m³
Storage	3.9 m³
Storage	3.9 m³
Storage	4.0 m³
Storage	4.4 m³
28	111.1 m³

Unit Storage - Level 0

Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L0.U1	11.5 m³	No	Yes
A.L0.U3	6.9 m³	Yes	No
A.L0.U2	10.2 m³	No	Yes
B.L0.U1	6.0 m³	Yes	No
B.L0.U2	11.3 m³	No	Yes

LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl) Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi) Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw) Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv) Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw) Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan	
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN)
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs	Sliding Door: Full Height (SD) Door: Full Height (DR)

Scale 1:100 (0m, 2, 4, 5m)

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
G	09/04/26	SSDA Application	PMDL	
F	04/03/26	SSDA Application	PMDL	
E	25/11/25	SSDA Application	PMDL	
D	14/11/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 0 GA Plan

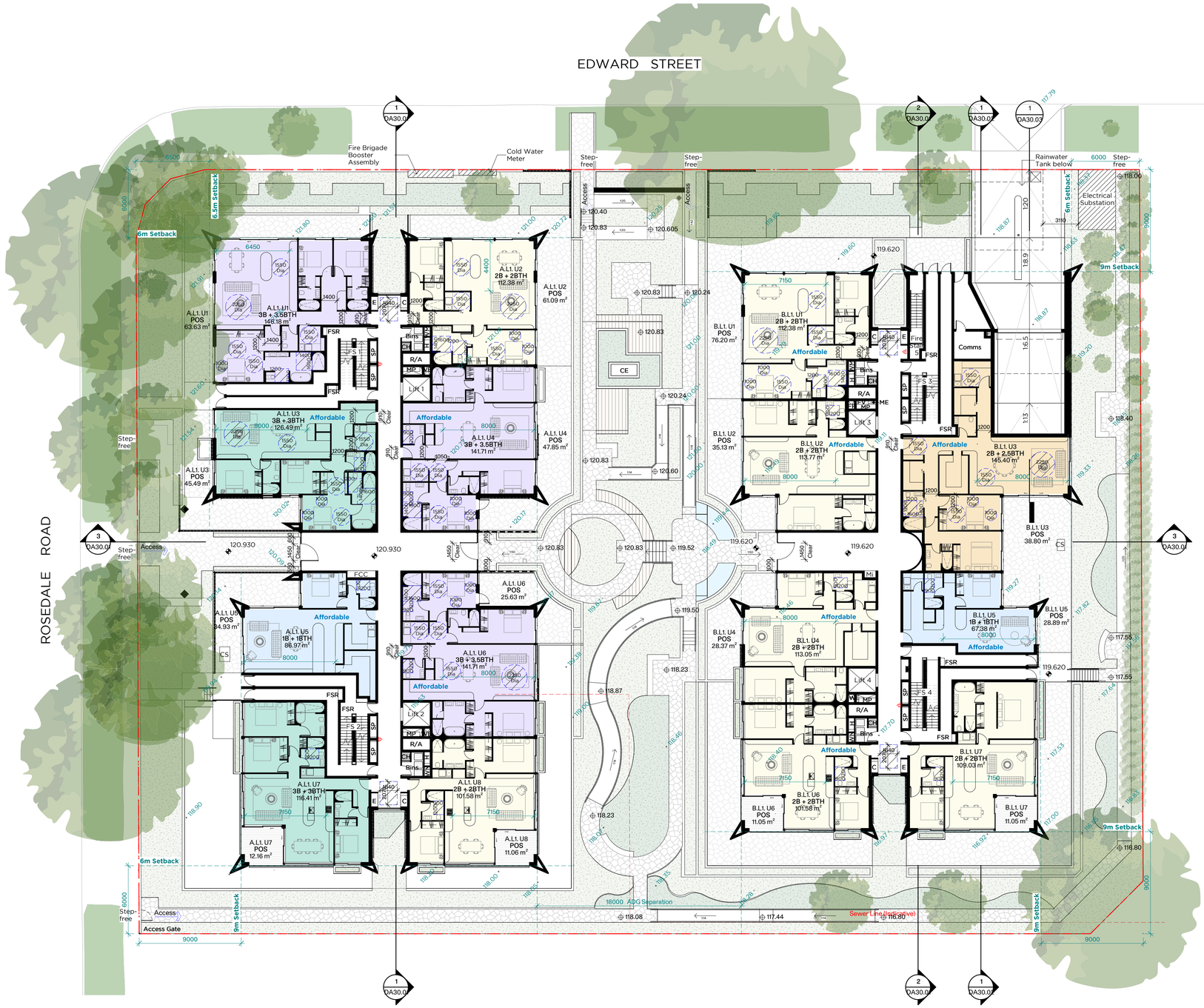
PROJ#: 3304

SCALE: 1 : 200@ A1

DA10.02 REV G

Unit Storage - Level 1

Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L1.U1	5.6 m³	Yes	No
A.L1.U2	4.8 m³	Yes	No
A.L1.U4	5.1 m³	Yes	No
A.L1.U3	10.7 m³	No	Yes
A.L1.U5	6.2 m³	No	Yes
A.L1.U6	5.1 m³	Yes	No
A.L1.U7	5.5 m³	Yes	No
A.L1.U8	6.3 m³	Yes	No
B.L1.U1	4.0 m³	Yes	No
B.L1.U2	8.4 m³	No	Yes
B.L1.U3	8.4 m³	No	Yes
B.L1.U4	8.8 m³	No	Yes
B.L1.U5	6.0 m³	No	Yes
B.L1.U6	6.3 m³	Yes	No
B.L1.U7	4.1 m³	Yes	No



LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN) Sliding Door: Full Height (SD) Door: Full Height (DR)	
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs		

Not for construction

Scale 1:100 (0m, 2, 4, 5m)

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
F	09/04/26	SSDA Application	PMDL	
E	04/03/26	SSDA Application	PMDL	
D	25/11/25	SSDA Application	PMDL	
C	14/11/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 1 GA Plan

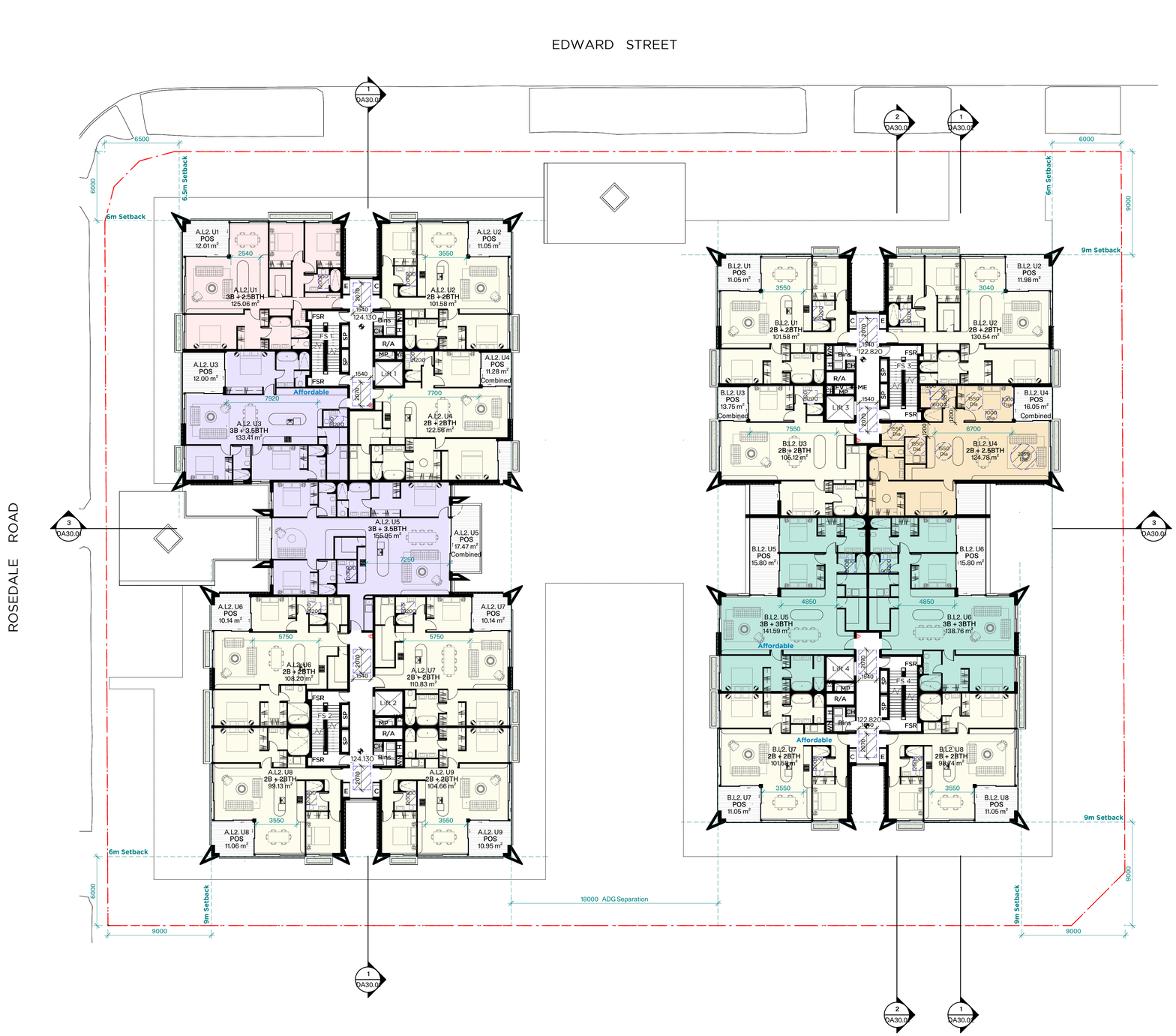
PROJ#: 3304

SCALE: 1:200@ A1

DA10.03

REV F

Unit Storage - Level 2			
Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L2.U1	5.8 m³	Yes	No
A.L2.U2	6.3 m³	Yes	No
A.L2.U3	11.7 m³	No	Yes
A.L2.U4	5.0 m³	Yes	No
A.L2.U5	11.0 m³	No	Yes
A.L2.U6	6.3 m³	Yes	No
A.L2.U7	9.9 m³	No	Yes
A.L2.U8	4.2 m³	Yes	No
A.L2.U9	6.3 m³	Yes	No
B.L2.U1	6.3 m³	Yes	No
B.L2.U2	5.8 m³	Yes	No
B.L2.U3	4.6 m³	Yes	No
B.L2.U4	5.5 m³	Yes	No
B.L2.U5	10.2 m³	No	Yes
B.L2.U6	7.4 m³	No	Yes
B.L2.U7	6.3 m³	Yes	No
B.L2.U8	4.1 m³	Yes	No



LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN) Sliding Door: Full Height (SD) Door: Full Height (DR)	
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs		

Not for construction

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REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	04/03/26	SSDA Application	PMDL	
C	25/11/25	SSDA Application	PMDL	
B	12/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 2 GA Plan

PROJ#: 3304

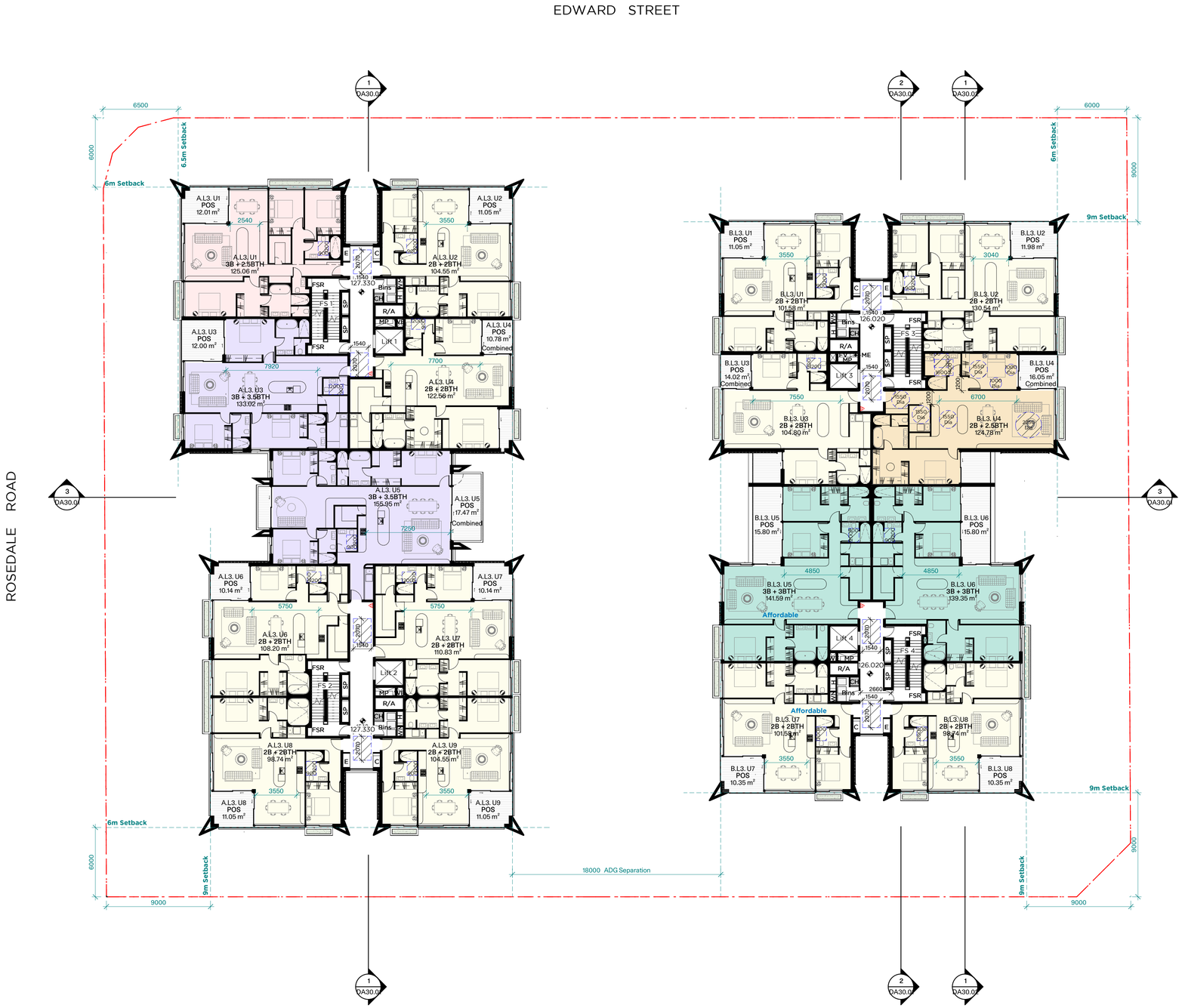
SCALE: 1:200@ A1

DA10.04

REV: D

Unit Storage - Level 3

Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L3.U1	5.8 m³	Yes	No
A.L3.U2	6.3 m³	Yes	No
A.L3.U3	11.7 m³	No	Yes
A.L3.U4	5.0 m³	Yes	No
A.L3.U5	11.0 m³	No	Yes
A.L3.U6	6.3 m³	Yes	No
A.L3.U7	9.9 m³	No	Yes
A.L3.U8	4.2 m³	Yes	No
A.L3.U9	6.3 m³	Yes	No
B.L3.U1	6.3 m³	Yes	No
B.L3.U2	5.8 m³	Yes	No
B.L3.U3	4.6 m³	Yes	No
B.L3.U4	5.5 m³	Yes	No
B.L3.U5	10.2 m³	No	Yes
B.L3.U6	7.4 m³	No	Yes
B.L3.U7	6.3 m³	Yes	No
B.L3.U8	4.1 m³	Yes	No



LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl) Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi) Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw) Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv) Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw) Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan	
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN) Sliding Door: Full Height (SD) Door: Full Height (DR)
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs	

Not for construction

Scale 1:100 (0m, 2, 4, 5m)

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A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9610 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 3 GA Plan

PROJ#: 3304

SCALE: 1:200@ A1

DA10.05

REV D

Unit Storage - Level 4			
Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L4.U1	5.8 m³	Yes	No
A.L4.U2	6.3 m³	Yes	No
A.L4.U3	11.7 m³	No	Yes
A.L4.U4	5.0 m³	Yes	No
A.L4.U5	11.0 m³	No	Yes
A.L4.U6	12.5 m³	No	Yes
A.L4.U7	3.1 m³	Yes	No
A.L4.U8	6.4 m³	Yes	No
B.L4.U1	6.3 m³	Yes	No
B.L4.U2	5.8 m³	Yes	No
B.L4.U3	4.6 m³	Yes	No
B.L4.U4	5.5 m³	Yes	No
B.L4.U5	4.1 m³	Yes	No
B.L4.U6	6.5 m³	Yes	No
B.L4.U7	8.3 m³	No	Yes

LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN) Sliding Door: Full Height (SD) Door: Full Height (DR)	
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs		

Not for construction

Scale 1:100 (0m, 2, 4, 5m)

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
E	04/03/26	SSDA Application	PMDL	
D	25/11/25	SSDA Application	PMDL	
C	12/11/25	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS (#6135) DAVID MORRIS 5865 VICKI VAN DIJK 9476

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CHECK ALL DIMENSIONS ON SITE BEFORE MANUFACTURE OR CONSTRUCTION.

PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 4 GA Plan

PROJ#: 3304

SCALE: 1:200@ A1

DA10.06

REV: E

Unit Storage - Level 5			
Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L5.U1	4.2 m³	Yes	No
A.L5.U2	5.6 m³	Yes	No
A.L5.U3	5.8 m³	Yes	No
A.L5.U4	17.6 m³	No	Yes
A.L5.U5	12.5 m³	No	Yes
A.L5.U6	3.1 m³	Yes	No
A.L5.U7	6.4 m³	Yes	No
B.L5.U1	4.2 m³	Yes	No
B.L5.U2	10.3 m³	No	Yes
B.L5.U3	11.0 m³	No	Yes
B.L5.U4	6.5 m³	Yes	No
B.L5.U5	8.3 m³	No	Yes

LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN) Sliding Door: Full Height (SD) Door: Full Height (DR)	
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs		

Not for construction

Scale 1:100 (0m, 2, 4, 5m)

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
E	04/03/26	SSDA Application	PMDL	
D	25/11/25	SSDA Application	PMDL	
C	12/11/25	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9915 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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CHECK ALL DIMENSIONS ON SITE BEFORE MANUFACTURE OR CONSTRUCTION.

PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 5 GA Plan

PROJ#: 3304

SCALE: 1:200@ A1

DA10.07

REV: E

Unit Storage - Level 6

Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L6.U1	4.2 m³	Yes	No
A.L6.U2	5.6 m³	Yes	No
A.L6.U3	5.8 m³	Yes	No
A.L6.U4	17.6 m³	No	Yes
A.L6.U5	12.5 m³	No	Yes
A.L6.U6	3.1 m³	Yes	No
A.L6.U7	6.4 m³	Yes	No
B.L6.U1	4.2 m³	Yes	No
B.L6.U2	10.3 m³	No	Yes
B.L6.U3	11.0 m³	No	Yes
B.L6.U4	6.5 m³	Yes	No
B.L6.U5	8.3 m³	No	Yes

LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN)	
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs	Sliding Door: Full Height (SD) Door: Full Height (DR)	

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	04/03/26	SSDA Application	PMDL	
C	25/11/25	SSDA Application	PMDL	
B	12/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9915 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 6 GA Plan

PROJ#: 3304

SCALE: 1:200@ A1

DA10.08

REV D

Unit Storage - Level 7

Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L7.U1	4.2 m³	Yes	No
A.L7.U2	5.6 m³	Yes	No
A.L7.U3	5.8 m³	Yes	No
A.L7.U4	17.6 m³	No	Yes
A.L7.U5	12.5 m³	No	Yes
A.L7.U6	3.1 m³	Yes	No
A.L7.U7	6.4 m³	Yes	No
B.L7.U1	4.2 m³	Yes	No
B.L7.U2	10.3 m³	No	Yes
B.L7.U3	11.0 m³	No	Yes
B.L7.U4	6.5 m³	Yes	No
B.L7.U5	8.3 m³	No	Yes

LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN)	
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs	Sliding Door: Full Height (SD) Door: Full Height (DR)	

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	04/03/26	SSDA Application	PMDL	
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B	12/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 7 GA Plan

PROJ#: 3304

SCALE: 1:200@ A1

DA10.09

REV D

Unit Storage - Level 8

Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L8.U1	4.2 m³	Yes	No
A.L8.U2	5.6 m³	Yes	No
A.L8.U3	5.8 m³	Yes	No
A.L8.U4	17.6 m³	No	Yes
A.L8.U5	12.5 m³	No	Yes
A.L8.U6	3.1 m³	Yes	No
A.L8.U7	6.4 m³	Yes	No
B.L8.U1	4.2 m³	Yes	No
B.L8.U2	10.3 m³	No	Yes
B.L8.U3	11.0 m³	No	Yes
B.L8.U4	6.5 m³	Yes	No
B.L8.U5	8.3 m³	No	Yes

LEGENDS

Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:
1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl) Sliding
2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi) Fixed
2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw) Awning
3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv) Louvre
3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw) Swing
3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan	
3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN)
4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs	Sliding Door: Full Height (SD) Door: Full Height (DR)

Not for construction

Scale 1:100 (0m, 2, 4, 5m)

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	04/03/26	SSDA Application	PMDL	
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B	12/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9915 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Level 8 GA Plan

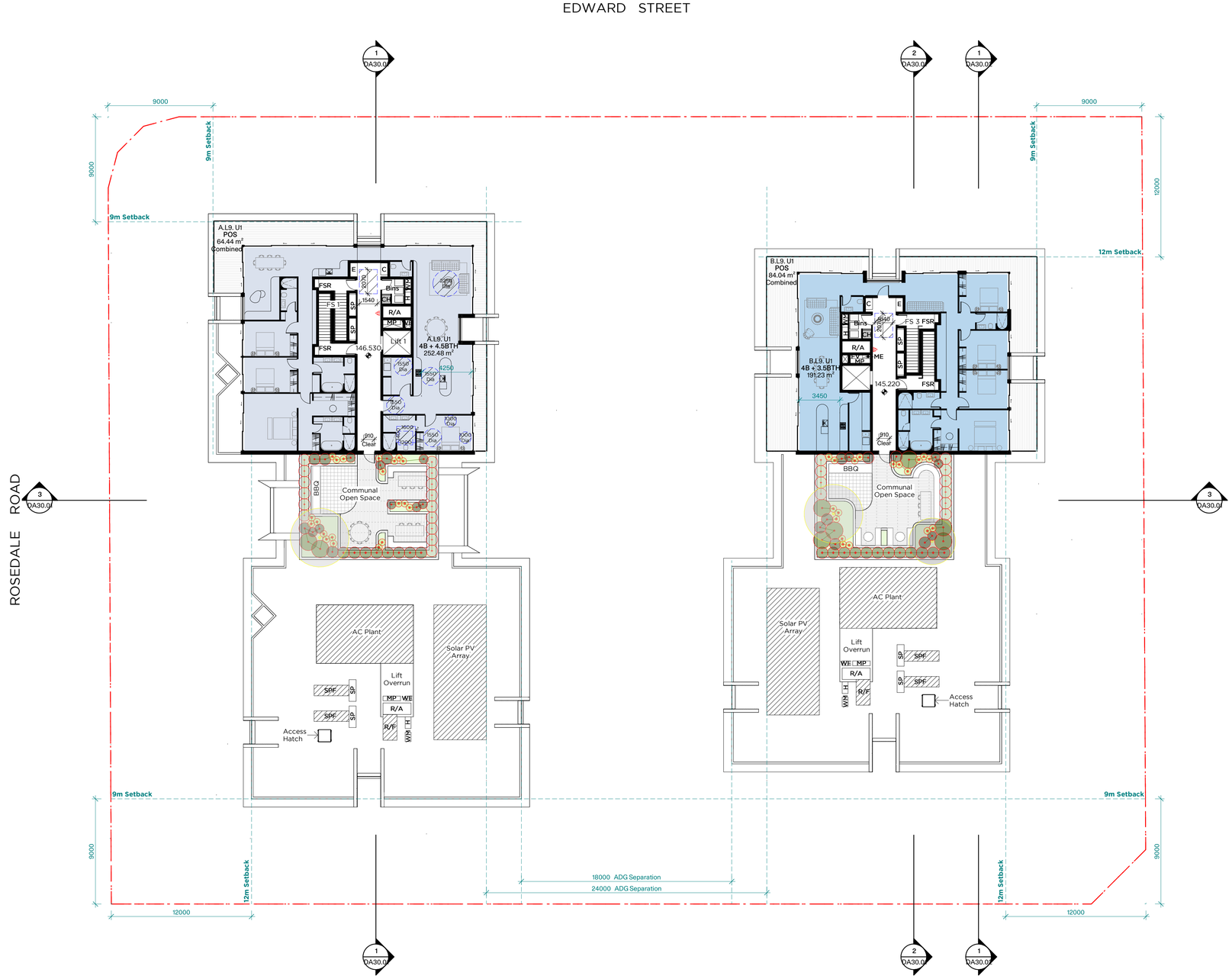
PROJ#: 3304

SCALE: 1:200@ A1

DA10.10

REV: D

Unit Storage - Level 9			
Unit Number	Volume (m3)	50% In-basement Storage	100% In-Unit Storage
A.L9.U1	12.0 m^3	No	Yes
B.L9.U1	12.7 m^3	No	Yes



LEGENDS

	Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
	1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
	2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
	2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
	3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
	3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
	3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
	3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN) Sliding Door: Full Height (SD) Door: Full Height (DR)	
	4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs		

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	04/03/26	SSDA Application	PMDL	
C	25/11/25	SSDA Application	PMDL	
B	14/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9610 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT
Edward Street and Rosedale Road, Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME
Level 9 GA Plan

PROJ#
3304

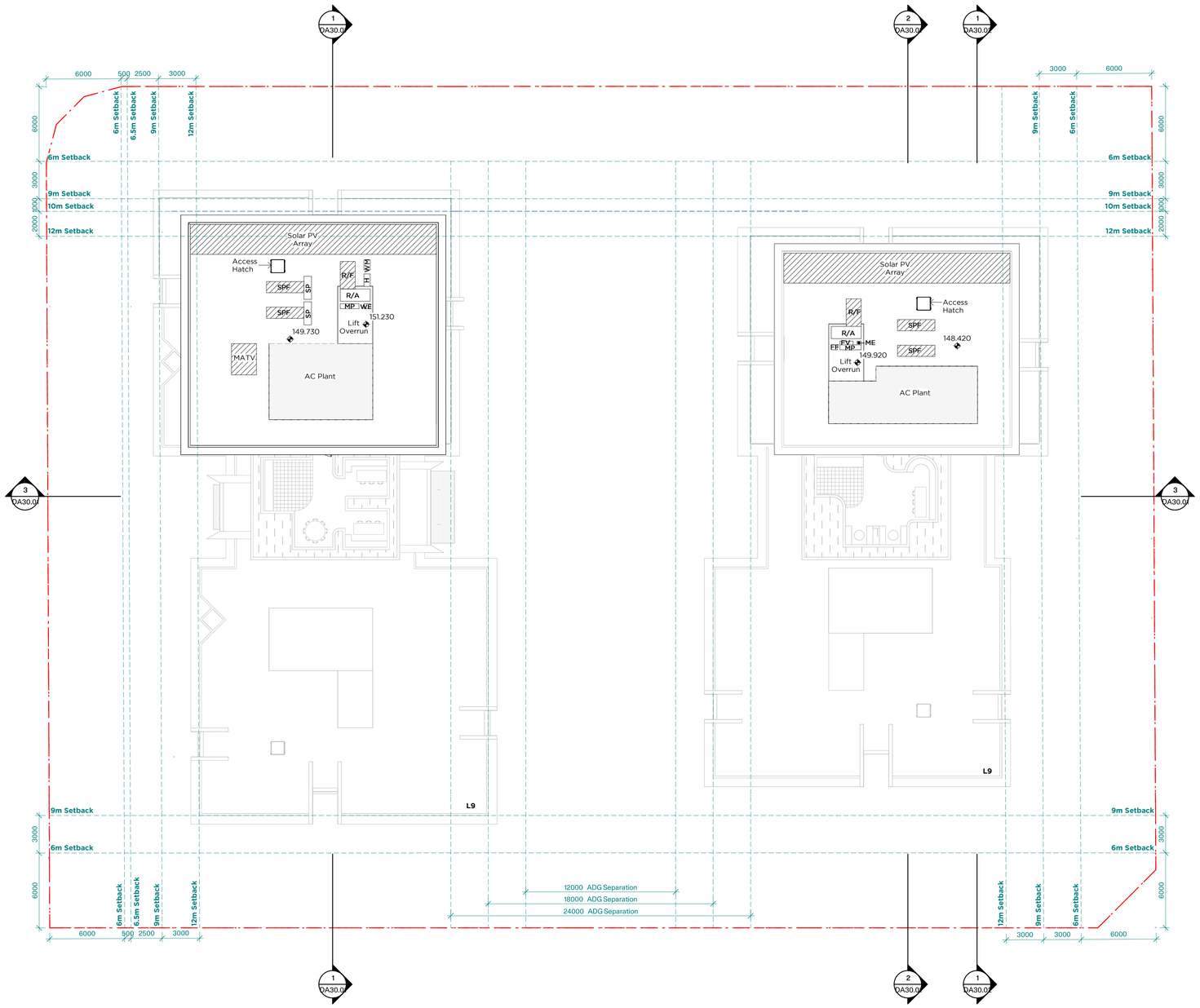
SCALE
1 : 200@ A1

DA10.11

REV D

EDWARD STREET

ROSEDALE ROAD



LEGENDS

Site Boundary	C	Comms Cupboard	St	Storage	CS	Carpark Supply Riser	Glass Windows & Sliding Doors:	
1B + 1BTH	E	Electrical Cupboard	Mi	Mimic Panel	CF	Carpark Supply Fan	(sl)	Sliding
2B + 2BTH	CH	Gabage Chute	FE	Fire Extinguisher	FV	Fire Pump Room Ventilation	(fi)	Fixed
2B + 2.5BTH	R/A	Relief Air	CE	Carpark Exhaust	MV	MSB Room Ventilation	(aw)	Awning
3B + 2BTH	WM	Water Meter Cupboard	POS	Private Open Space	FF	Fire Pump Flue Shaft	(lv)	Louvre
3B + 2.5BTH	H	Hydraulic Cupboard	COS	Communal Open Space	R/F	Lobby Relief Fan	(sw)	Swing
3B + 3BTH	SP	Stair Pressurisation Shaft	Ev	Ev Charger Distribution Board	SPF	Stair Presurrisation Fan		
3B + 3.5BTH	FCC	Fire Control Centre	WE	Waste Room Exhaust	FSR	Fire Service Riser	Window: 1m Sill (WN) Sliding Door: Full Height (SD) Door: Full Height (DR)	
4B + 5BTH	FHR	Fire Hose Wheel	MP	Mechanical Pipework Riser	FS#	Fire Stairs		

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
B	04/03/26	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

0m 2 4 5m
Scale 1:100

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PROJECT
Edward Street and
Rosedale Road,
Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

NAME
Roof GA Plan

PROJ#
3304

SCALE
1 : 200@ A1

REV
DA10.12 B

1 Buildings A & B North Elevation
Elevation 1:200

FINISHES & COLOUR SCHEDULE

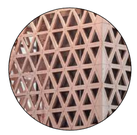
CON1 - Concrete Off Form

CON2 - Pigmented Concrete

WN/SD - Powercoated White Frame

BL - Powercoated White Balustrade

BK1 - Featured Brick



BK2 - Featured "Hit & Miss" Brick

0m 4 8 10m
Scale 1:200

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	06/05/26	SSDA Application	PMDL	
C	04/03/26	SSDA Application	PMDL	
B	14/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

Not for construction

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PROJECT
Edward Street and Rosedale Road, Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME
Buildings A & B North Elevations

PRO.#
3304

SCALE
1:200@ A1

REV
DA20.01 D

1 Buildings A & B South Elevation
Elevation 1:200

FINISHES & COLOUR SCHEDULE

CON1 - Concrete Off Form

CON2 - Pigmented Concrete

WN/SD - Powercoated White Frame

BL - Powercoated White Balustrade

BK1 - Featured Brick

BK2 - Featured "Hit & Miss" Brick

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	06/05/26	SSDA Application	PMDL	
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B	14/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9610 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Buildings A & B South Elevations

PROJ#: 3304

SCALE: 1:200@ A1

DA20.02

REV D

1 Building A East Elevation

Elevation 1:200

2 Building A West Elevation

Elevation 1:200

FINISHES & COLOUR SCHEDULE

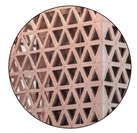
CON1 - Concrete Off Form

CON2 - Pigmented Concrete

WN/SD - Powercoated White Frame

BL - Powercoated White Balustrade

BK1 - Featured Brick



BK2 - Featured "Hit & Miss" Brick

0m 4 8 10m

Scale 1:200

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	06/05/26	SSDA Application	PMDL	
C	04/03/26	SSDA Application	PMDL	
B	14/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9693 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Buildings A East and West Elevations

PROJ#: 3304

SCALE: 1:200@ A1

DA20.03

REV D

1 Building B East Elevation
Elevation 1:200

2 Building B West Elevation
Elevation 1:200

FINISHES & COLOUR SCHEDULE

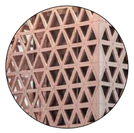
CON1 - Concrete Off Form

CON2 - Pigmented Concrete

WN/SD - Powercoated White Frame

BL - Powercoated White Balustrade

BK1 - Featured Brick



BK2 - Featured "Hit & Miss" Brick

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
C	06/05/26	SSDA Application	PMDL	
B	14/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS (#6513) DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT
Edward Street and Rosedale Road, Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME
Building B East and West Elevations

PROJ#
3304

SCALE
1:200@ A1

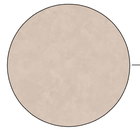
#
DA20.04

REV
C

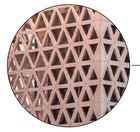
FINISHES & COLOUR SCHEDULE

WN - Powercoated White Frame

BL - Powercoated White Balustrade



CON2 - Pigmented Concrete



CON1 - Concrete Off Form

BK2 - Featured "Hit & Miss" Brick

BK1 - Featured Brick

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
B	14/11/25	SSDA Application	PMDL	
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PROJECT
Edward Street and Rosedale Road, Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

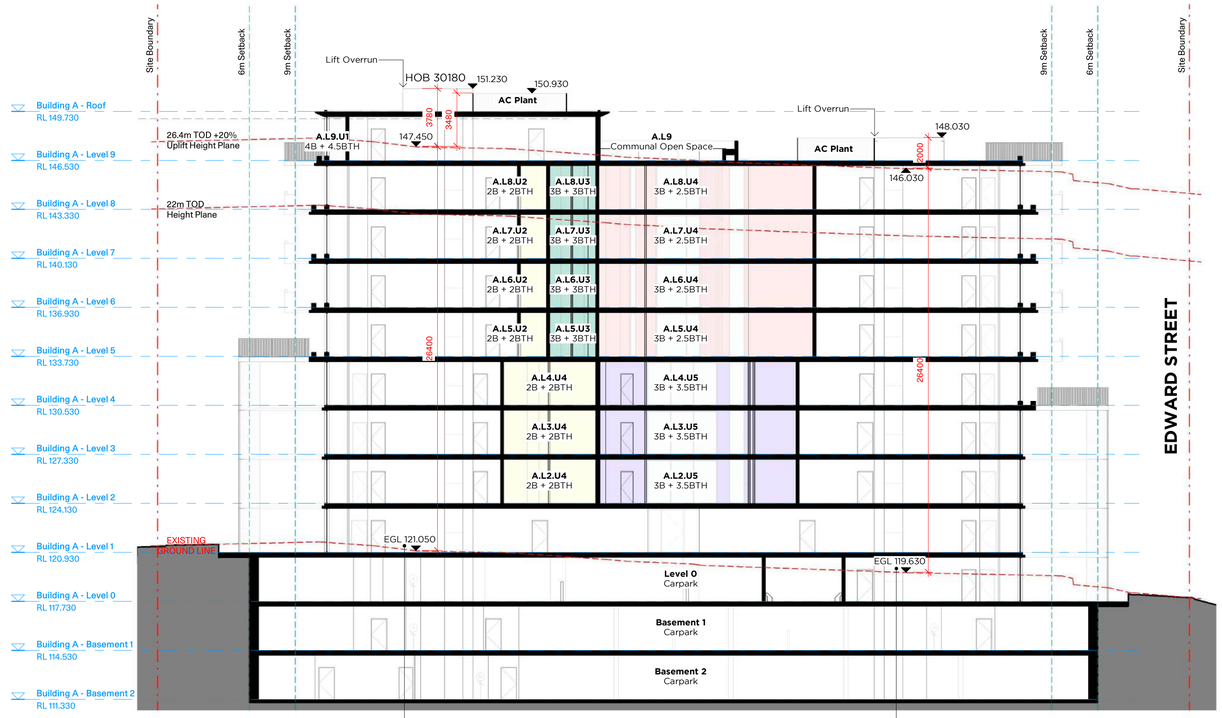
NAME
Materials and Finishes

PROJ#
3304

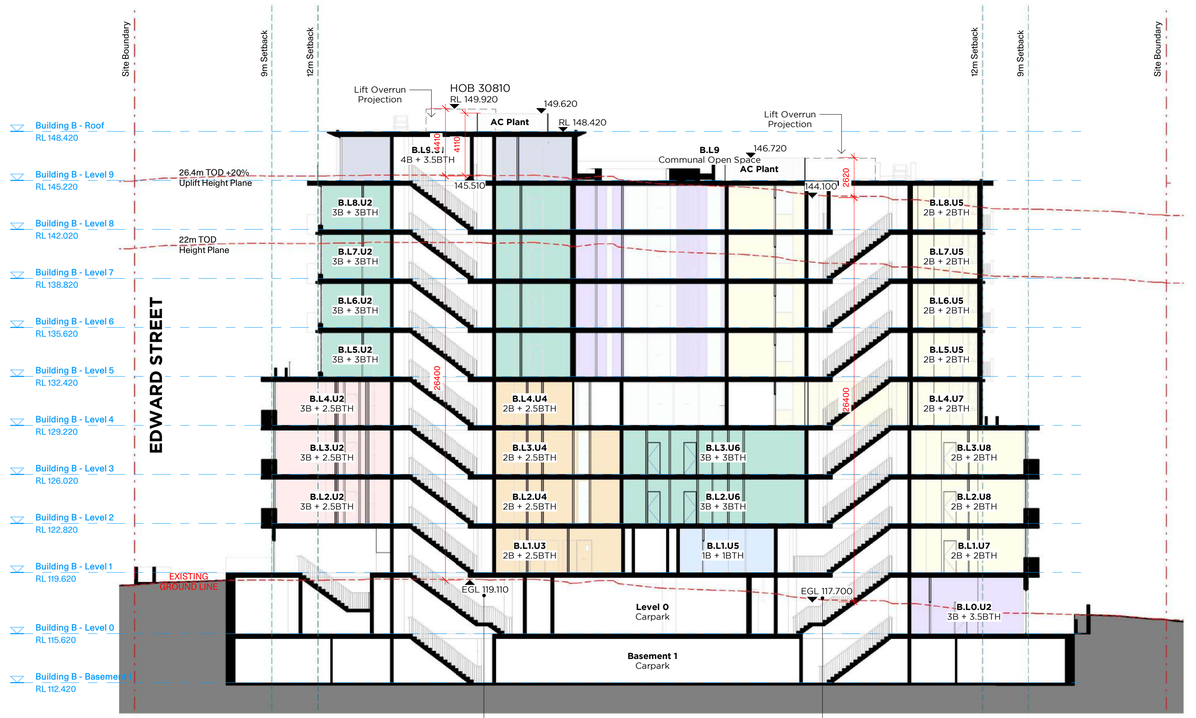
SCALE

DA20.05

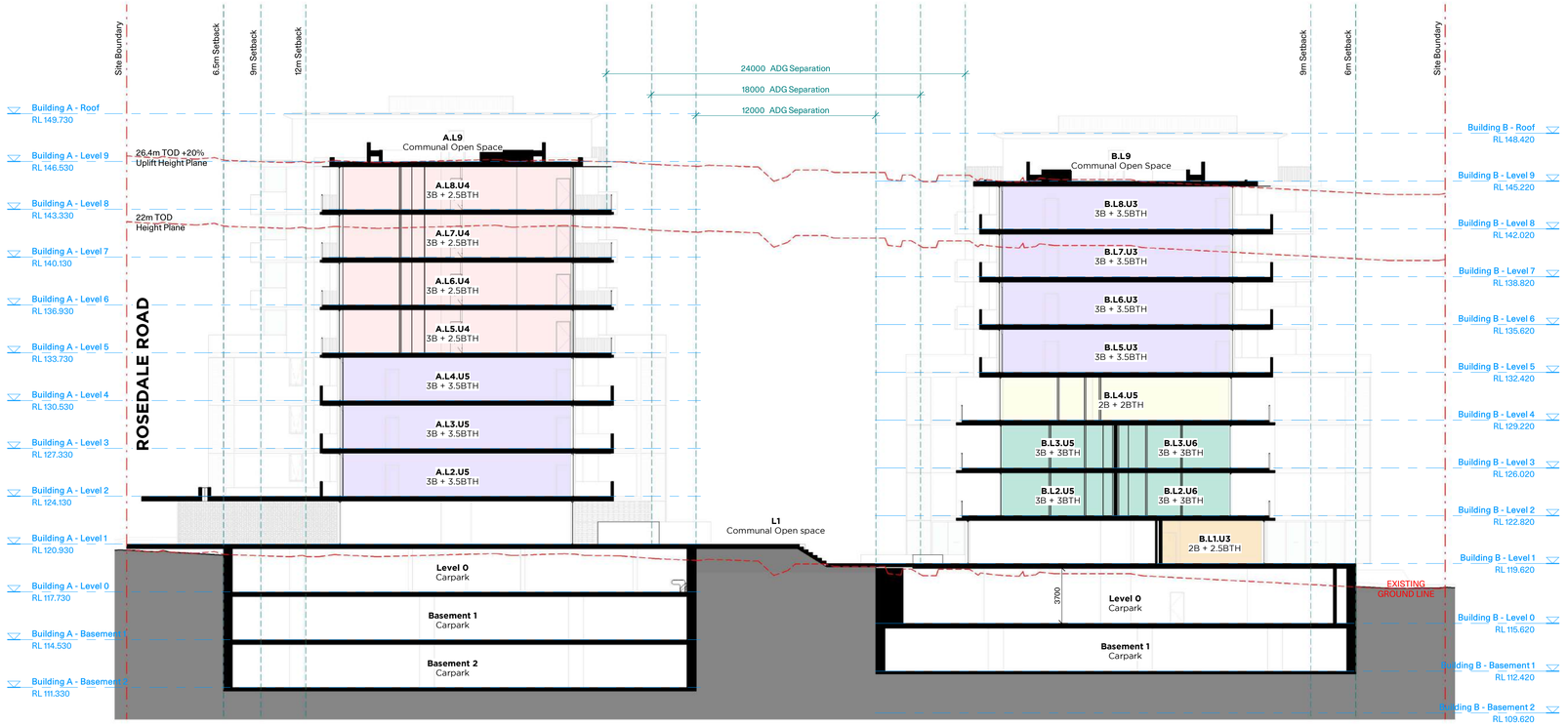
REV B



1 Section 1
Section 1:200



2 Section 2
Section 1:200



3 Section 3
Section 1:200

0m 4 8 10m
Scale 1:200

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
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B	09/04/26	SSDA Application	PMDL	
A	25/11/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

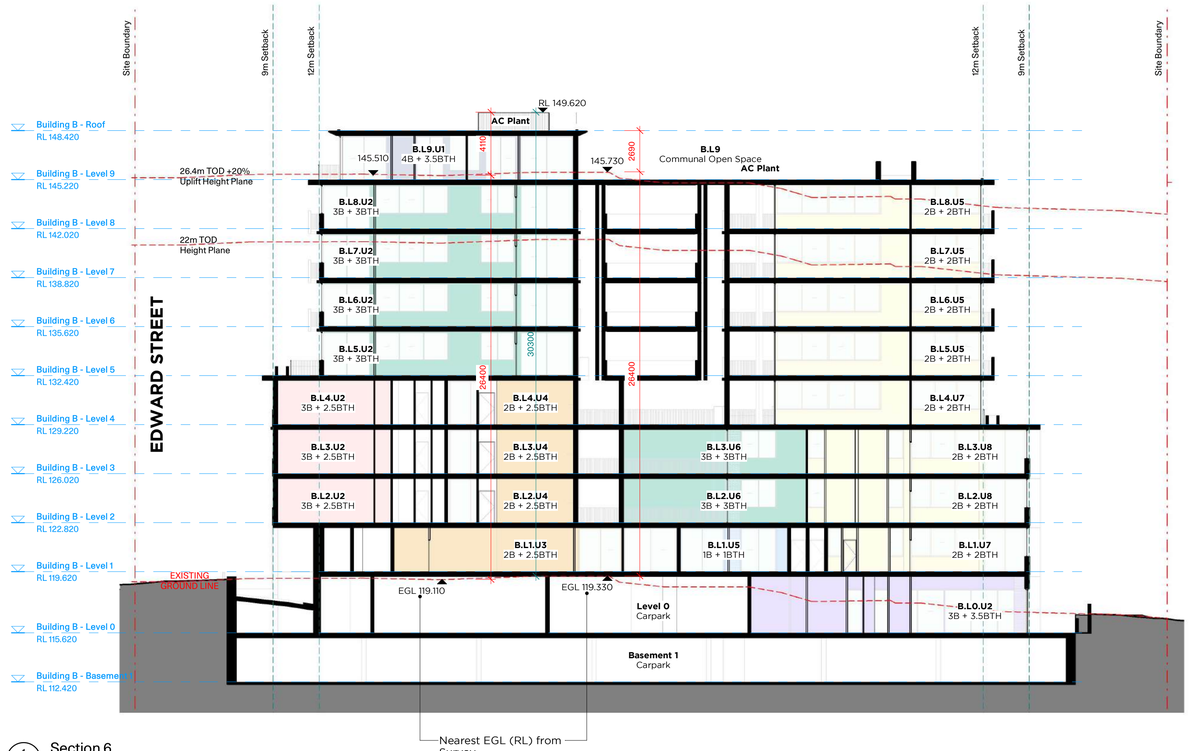
NAME: Sections 1

PROJ#: 3304

SCALE: 1:200@ A1

DA30.01

REV C



1 Section 6
Section 1:200

0m 4 8 10m
Scale 1:200

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
C	06/05/26	SSDA Application	PMDL	
B	09/04/26	SSDA Application	PMDL	
A	04/03/26	SSDA Application	PMDL	

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PROJECT
Edward Street and Rosedale Road, Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

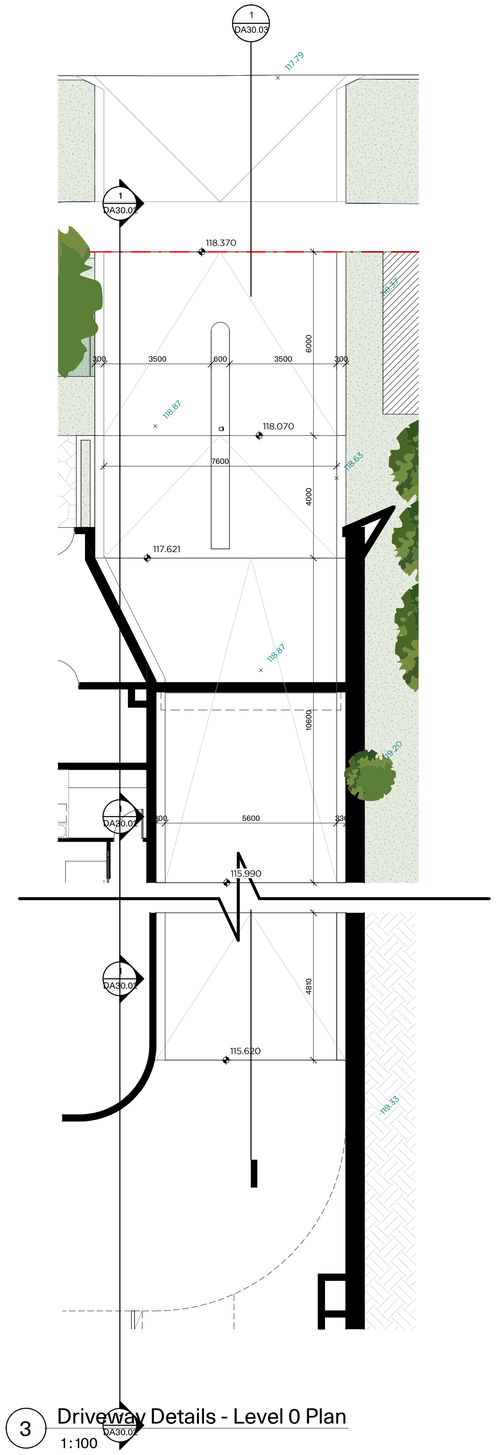
NAME
Sections 2

PROJ#
3304

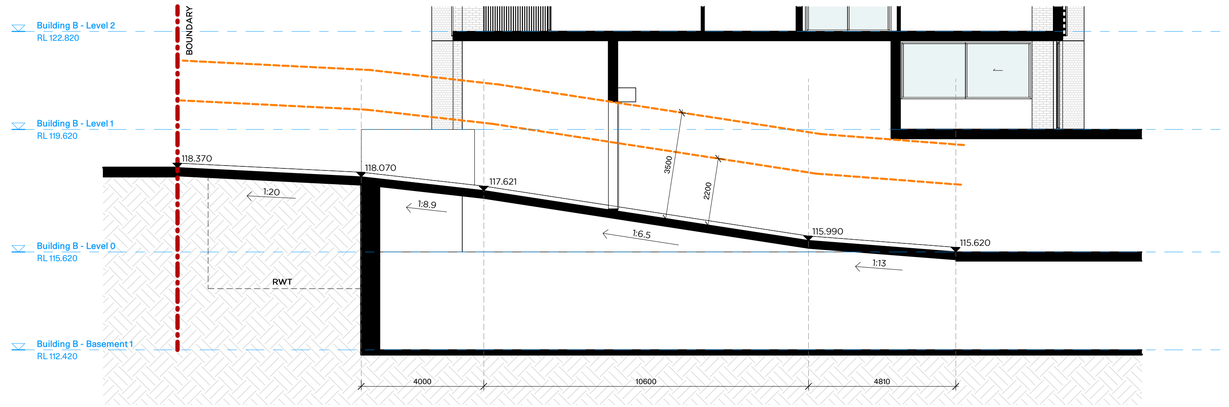
SCALE
1:200@ A1

DA30.02

REV C



3 Driveway Details - Level 0 Plan
1:100



1 Driveway Section
1:100

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
B	04/03/26	SSDA Application	PMDL	
A	17/11/25	SSDA Application	PMDL	

0m 2 4 5m
Scale 1:100

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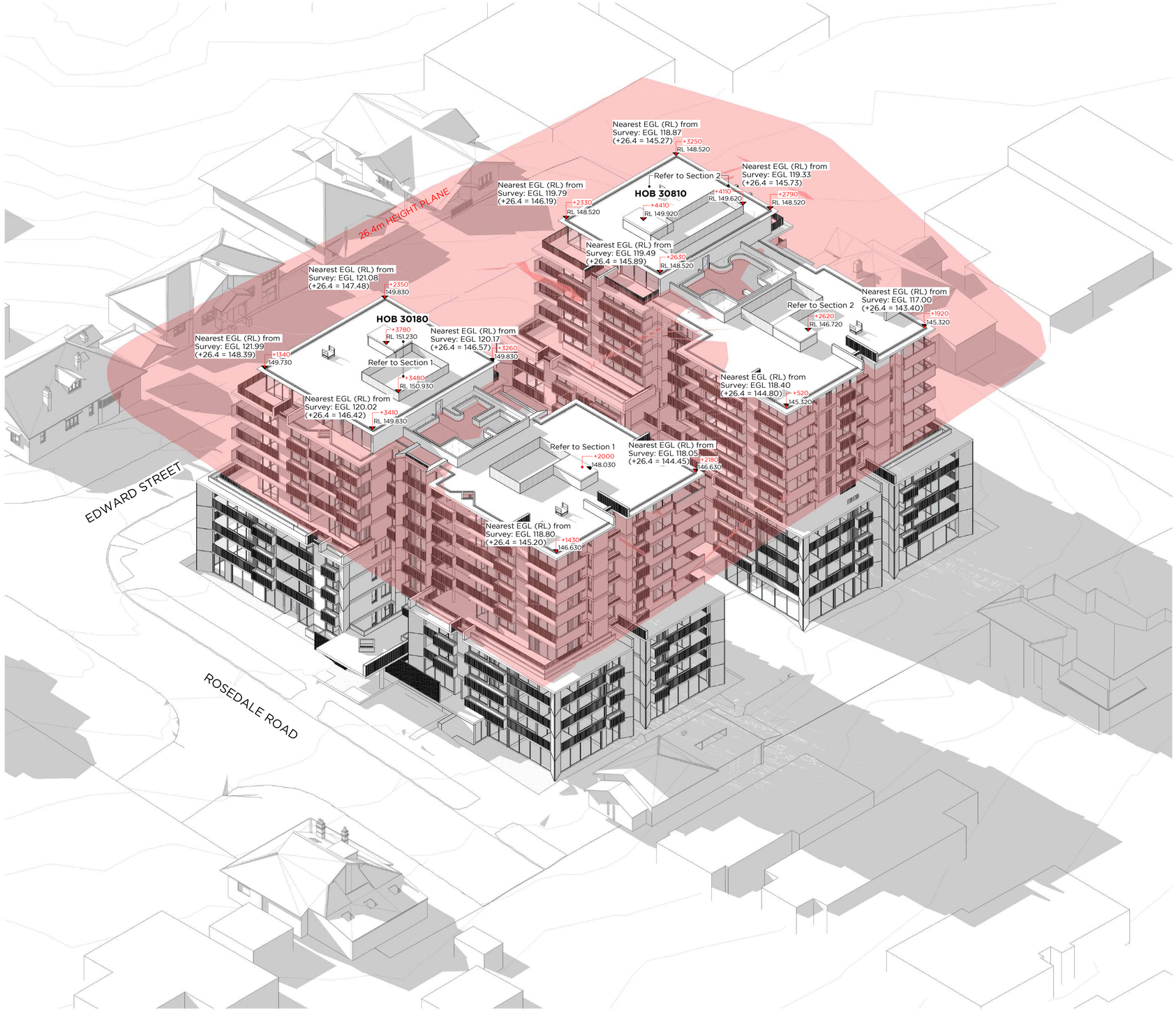
PROJECT: Edward Street and Rosedale Road, Gordon
CLIENT: CPDM
ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Driveway Details
PROJ#: 3304
SCALE: 1:100@ A1
#: DA30.03
REV: B



Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	06/05/26	SSDA Application	PMDL	
C	09/04/26	SSDA Application	PMDL	
B	14/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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PROJECT
Edward Street and Rosedale Road, Gordon

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ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

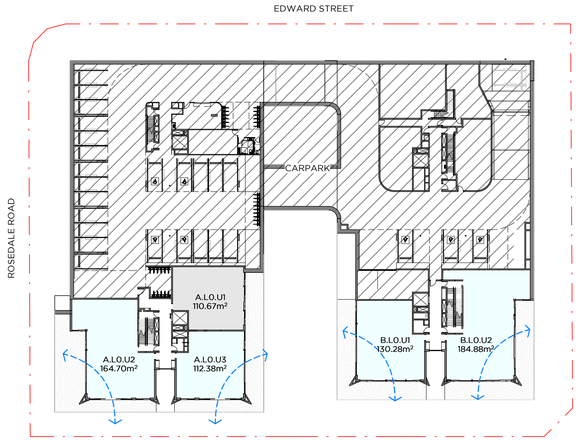
NAME
Height Plane Diagram 1

PROJ#
3304

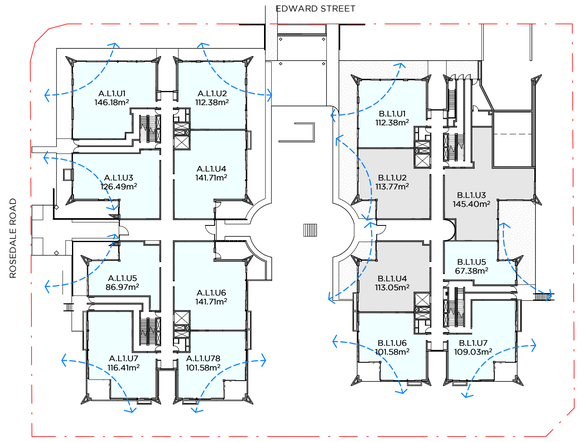
SCALE

#
DA50.30

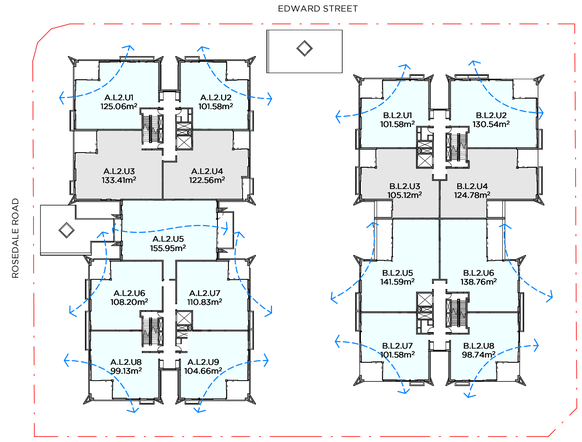
REV
D



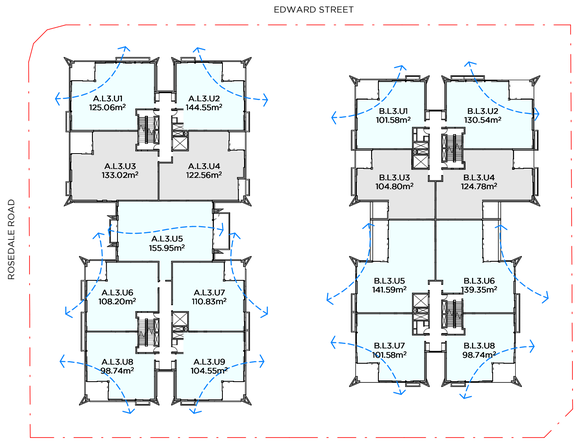
1 Level 0 - Cross Ventilation
1:500



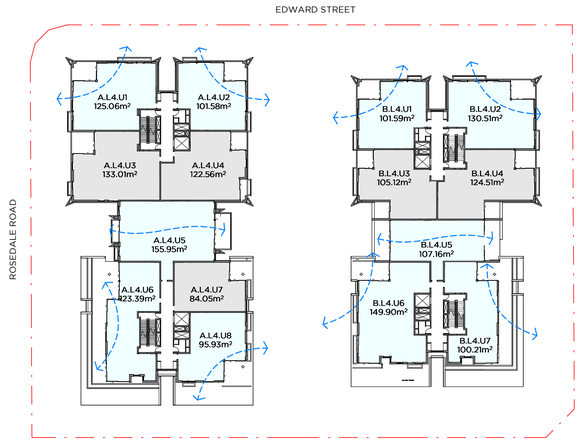
2 Level 1 - Cross Ventilation
1:500



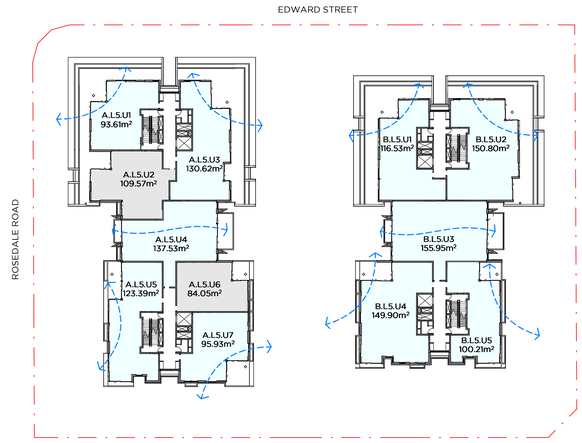
3 Level 2 - Cross Ventilation
1:500



4 Level 3 - Cross Ventilation
1:500



5 Level 4 - Cross Ventilation
1:500



6 Level 5 - Cross Ventilation
1:500

LEGEND:

- Site Boundary
- Archieving Cross Ventilation
- Not Archieving Cross Ventilation
- Carpark

CROSS VENTILATION

Total Units	Achieved Cross Ventilation
119	95 (80%)

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
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A	26/09/25	SSDA Application	PMDL	

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PROJECT
Edward Street and
Rosedale Road,
Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

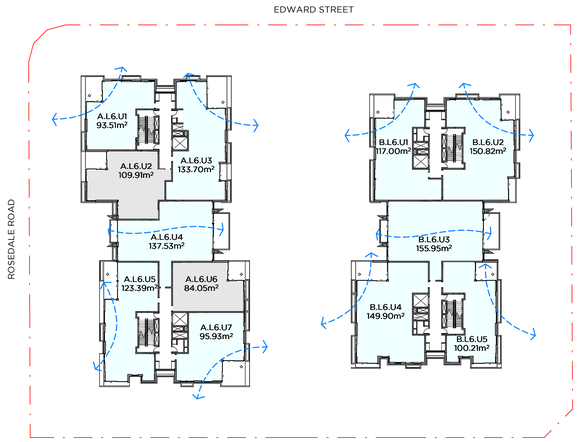
NAME
Cross Ventilation Diagram 1

PROJ#
3304

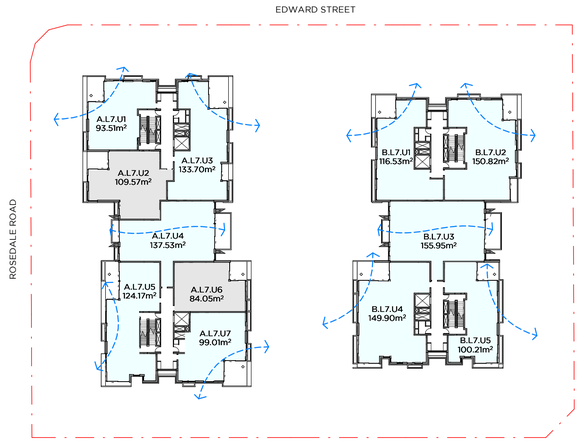
SCALE
1:500@ A1

#
DA50.40

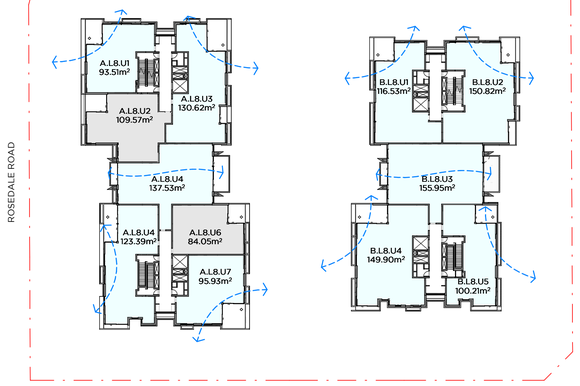
REV
C



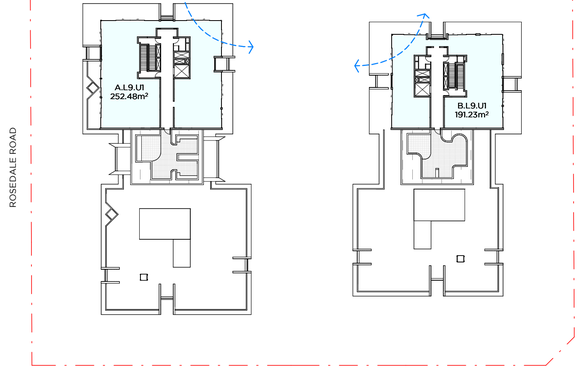
1 Level 6 - Cross Ventilation
1:500



2 Level 7 - Cross Ventilation
1:500



3 Level 8 - Cross Ventilation
1:500



4 Level 9 - Cross Ventilation
1:500

Building A - Cross Vent

Number	Type	Unit Area (m2)	Cross Ventilation
A.L0			
A.L0.U1	3B + 3.5BTH	164.70 m²	Yes
A.L0.U2	2B + 2BTH	110.67 m²	No
A.L0.U3	2B + 2BTH	112.38 m²	Yes
3			
A.L1			
A.L1.U1	3B + 3.5BTH	146.18 m²	Yes
A.L1.U2	2B + 2BTH	112.38 m²	Yes
A.L1.U3	3B + 3BTH	126.49 m²	Yes
A.L1.U4	3B + 3.5BTH	141.71 m²	Yes
A.L1.U5	1B + 1BTH	86.97 m²	Yes
A.L1.U6	3B + 3.5BTH	141.71 m²	Yes
A.L1.U7	3B + 3BTH	116.41 m²	Yes
A.L1.U8	2B + 2BTH	101.58 m²	Yes
8			
A.L2			
A.L2.U1	3B + 2.5BTH	125.06 m²	Yes
A.L2.U2	2B + 2BTH	101.58 m²	Yes
A.L2.U3	3B + 3.5BTH	133.41 m²	No
A.L2.U4	2B + 2BTH	122.56 m²	No
A.L2.U5	3B + 3.5BTH	155.95 m²	Yes
A.L2.U6	2B + 2BTH	108.20 m²	Yes
A.L2.U7	2B + 2BTH	110.83 m²	Yes
A.L2.U8	2B + 2BTH	99.13 m²	Yes
A.L2.U9	2B + 2BTH	104.66 m²	Yes
9			
A.L3			
A.L3.U1	3B + 2.5BTH	125.06 m²	Yes
A.L3.U2	2B + 2BTH	104.55 m²	Yes
A.L3.U3	3B + 3.5BTH	133.02 m²	No
A.L3.U4	2B + 2BTH	122.56 m²	No
A.L3.U5	3B + 3.5BTH	155.95 m²	Yes
A.L3.U6	2B + 2BTH	108.20 m²	Yes
A.L3.U7	2B + 2BTH	110.83 m²	Yes
A.L3.U8	2B + 2BTH	98.74 m²	Yes
A.L3.U9	2B + 2BTH	104.55 m²	Yes
9			
A.L4			
A.L4.U1	3B + 2.5BTH	125.06 m²	Yes
A.L4.U2	2B + 2BTH	101.58 m²	Yes
A.L4.U3	3B + 3.5BTH	133.01 m²	No
A.L4.U4	2B + 2BTH	122.56 m²	No
A.L4.U5	3B + 3.5BTH	155.95 m²	Yes
A.L4.U6	3B + 3BTH	123.39 m²	Yes
A.L4.U7	1B + 1BTH	84.05 m²	No
A.L4.U8	2B + 2BTH	95.93 m²	Yes
8			
A.L5			
A.L5.U1	2B + 2BTH	93.61 m²	Yes
A.L5.U2	2B + 2BTH	109.57 m²	No
A.L5.U3	3B + 3BTH	130.62 m²	Yes
A.L5.U4	3B + 2.5BTH	137.53 m²	Yes
A.L5.U5	3B + 3BTH	123.39 m²	Yes
A.L5.U6	1B + 1BTH	84.05 m²	No
A.L5.U7	2B + 2BTH	95.93 m²	Yes
7			
A.L6			
A.L6.U1	2B + 2BTH	93.51 m²	Yes
A.L6.U2	2B + 2BTH	109.91 m²	No
A.L6.U3	3B + 3BTH	133.70 m²	Yes
A.L6.U4	3B + 2.5BTH	137.53 m²	Yes
A.L6.U5	3B + 3BTH	123.39 m²	Yes
A.L6.U6	1B + 1BTH	84.05 m²	No
A.L6.U7	2B + 2BTH	95.93 m²	Yes
7			
A.L7			
A.L7.U1	2B + 2BTH	93.51 m²	Yes
A.L7.U2	2B + 2BTH	109.57 m²	No
A.L7.U3	3B + 3BTH	133.70 m²	Yes
A.L7.U4	3B + 2.5BTH	137.53 m²	Yes
A.L7.U5	3B + 3BTH	124.17 m²	Yes
A.L7.U6	1B + 1BTH	84.05 m²	No
A.L7.U7	2B + 2BTH	99.01 m²	Yes
7			
A.L8			
A.L8.U1	2B + 2BTH	93.51 m²	Yes
A.L8.U2	2B + 2BTH	109.57 m²	No
A.L8.U3	3B + 3BTH	130.62 m²	Yes
A.L8.U4	3B + 2.5BTH	137.53 m²	Yes
A.L8.U5	3B + 3BTH	123.39 m²	Yes
A.L8.U6	1B + 1BTH	84.05 m²	No
A.L8.U7	2B + 2BTH	95.93 m²	Yes
7			
A.L9			
A.L9.U1	4B + 4.5BTH	252.48 m²	Yes
1			

Building B - Cross Vent

Number	Type	Unit Area (m2)	Cross Ventilation
B.L0			
B.L0.U1	3B + 3BTH	130.28 m²	Yes
B.L0.U2	3B + 3.5BTH	184.88 m²	Yes
2			
B.L1			
B.L1.U1	2B + 2BTH	112.38 m²	Yes
B.L1.U2	2B + 2BTH	113.77 m²	No
B.L1.U3	2B + 2.5BTH	145.40 m²	No
B.L1.U4	2B + 2BTH	113.05 m²	No
B.L1.U5	1B + 1BTH	67.38 m²	Yes
B.L1.U6	2B + 2BTH	101.58 m²	Yes
B.L1.U7	2B + 2BTH	109.03 m²	Yes
7			
B.L2			
B.L2.U1	2B + 2BTH	101.58 m²	Yes
B.L2.U2	2B + 2BTH	130.54 m²	Yes
B.L2.U3	2B + 2BTH	105.12 m²	No
B.L2.U4	2B + 2.5BTH	124.78 m²	No
B.L2.U5	3B + 3BTH	141.59 m²	Yes
B.L2.U6	3B + 3BTH	138.76 m²	Yes
B.L2.U7	2B + 2BTH	101.58 m²	Yes
B.L2.U8	2B + 2BTH	98.74 m²	Yes
8			
B.L3			
B.L3.U1	2B + 2BTH	101.58 m²	Yes
B.L3.U2	2B + 2BTH	130.54 m²	Yes
B.L3.U3	2B + 2BTH	104.80 m²	No
B.L3.U4	2B + 2.5BTH	124.78 m²	No
B.L3.U5	3B + 3BTH	141.59 m²	Yes
B.L3.U6	3B + 3BTH	139.35 m²	Yes
B.L3.U7	2B + 2BTH	101.58 m²	Yes
B.L3.U8	2B + 2BTH	98.74 m²	Yes
8			
B.L4			
B.L4.U1	2B + 2BTH	101.59 m²	Yes
B.L4.U2	3B + 2.5BTH	130.51 m²	Yes
B.L4.U3	2B + 2BTH	105.12 m²	No
B.L4.U4	2B + 2.5BTH	124.51 m²	No
B.L4.U5	2B + 2BTH	107.16 m²	Yes
B.L4.U6	3B + 3BTH	149.90 m²	Yes
B.L4.U7	2B + 2BTH	100.21 m²	Yes
7			
B.L5			
B.L5.U1	2B + 2BTH	116.53 m²	Yes
B.L5.U2	3B + 3BTH	150.82 m²	Yes
B.L5.U3	3B + 3.5BTH	155.95 m²	Yes
B.L5.U4	3B + 3BTH	149.90 m²	Yes
B.L5.U5	2B + 2BTH	100.21 m²	Yes
5			
B.L6			
B.L6.U1	2B + 2BTH	117.00 m²	Yes
B.L6.U2	3B + 3BTH	150.82 m²	Yes
B.L6.U3	3B + 3.5BTH	155.95 m²	Yes
B.L6.U4	3B + 3BTH	149.90 m²	Yes
B.L6.U5	2B + 2BTH	100.21 m²	Yes
5			
B.L7			
B.L7.U1	2B + 2BTH	116.53 m²	Yes
B.L7.U2	3B + 3BTH	150.82 m²	Yes
B.L7.U3	3B + 3.5BTH	155.95 m²	Yes
B.L7.U4	3B + 3BTH	149.90 m²	Yes
B.L7.U5	2B + 2BTH	100.21 m²	Yes
5			
B.L8			
B.L8.U1	2B + 2BTH	116.53 m²	Yes
B.L8.U2	3B + 3BTH	150.82 m²	Yes
B.L8.U3	3B + 3.5BTH	155.95 m²	Yes
B.L8.U4	3B + 3BTH	149.90 m²	Yes
B.L8.U5	2B + 2BTH	100.21 m²	Yes
5			
B.L9			
B.L9.U1	4B + 3.5BTH	191.23 m²	Yes
1			

LEGEND:

- Site Boundary
- Archieving Cross Ventilation
- Not Archieving Cross Ventilation
- Carpark

CROSS VENTILATION

Total Units	Achieved Cross Ventilation
119	95 (80%)

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
C	04/03/26	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9610 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT
Edward Street and Rosedale Road, Gordon

CLIENT
CPDM

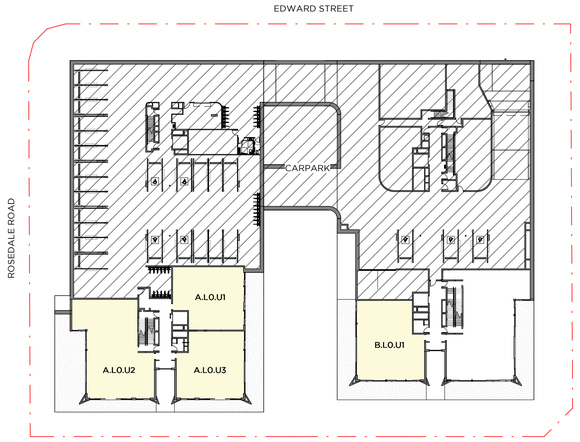
ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME
Cross Ventilation Diagram 2

PROJ#
3304

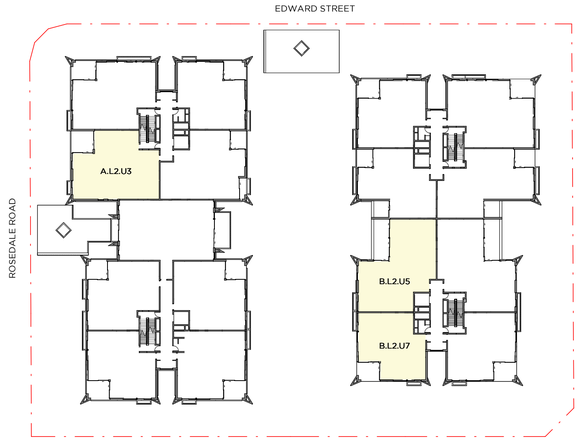
SCALE
1:500@ A1

REV
DA50.41 C

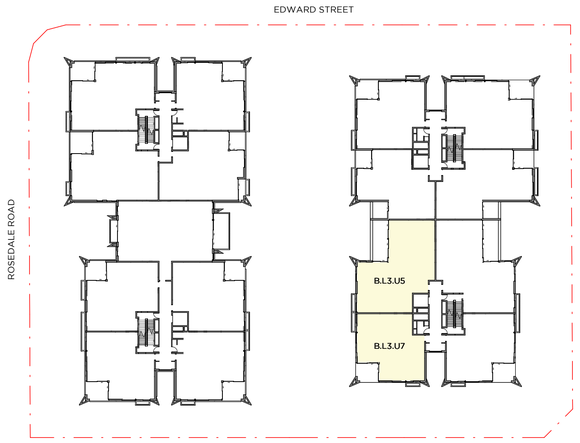


1 Level 0 - Affordable Housing
1:500

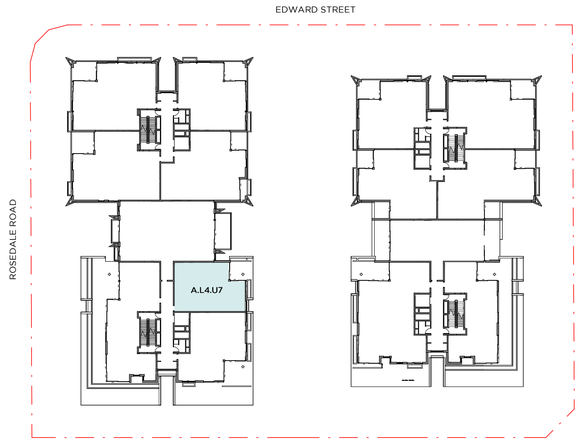
2 Level 1 - Affordable Housing
1:500



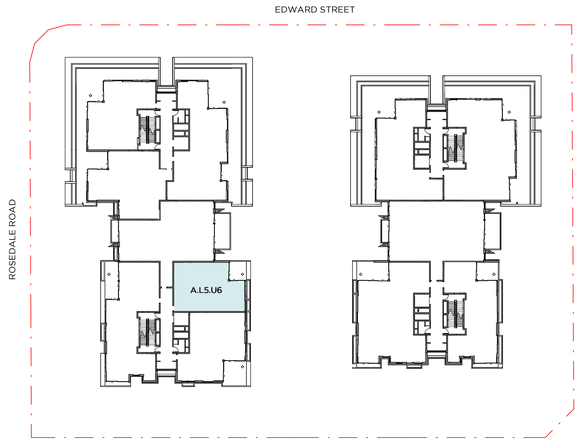
3 Level 2 - Affordable Housing
1:500



4 Level 3 - Affordable Housing
1:500



5 Level 4 - Affordable Housing
1:500



6 Level 5 - Affordable Housing
1:500

AFFORDABLE HOUSING

	Controls	Proposed
Infill 10%:	1,593.14m² (10%)	2,384.99m² (15%)
In perpetuity 2%:	318.63m² (2%)	323.45m² (2%)
TOTAL AFFORADABLE HOUSING AREA (Infill 10% + In Perpetuity 2%)	1,911.77m² (12%)	2,708.44m² (17%)

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
C	04/03/26	SSDA Application	PMDL	
B	17/11/25	SSDA Application	PMDL	
A	11/11/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9610 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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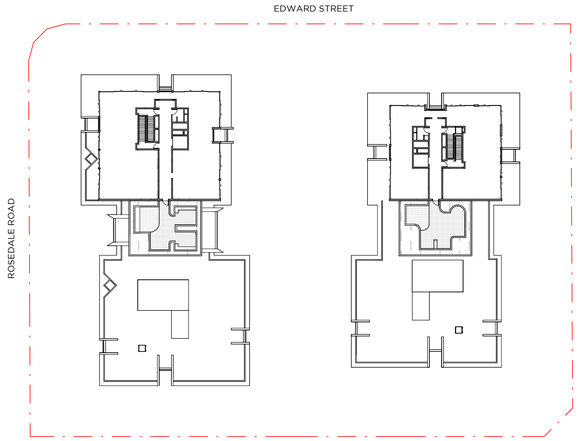
PROJECT: Edward Street and Rosedale Road, Gordon
CLIENT: CPDM
ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Affordable Housing Diagrams 1
PRO.# 3304
SCALE 1:500@ A1
DA50.50
REV C

1 Level 6 - Affordable Housing
1:500

2 Level 7 - Affordable Housing
1:500

3 Level 8 - Affordable Housing
1:500



4 Level 9 - Affordable Housing
1:500

Affordable Housing - 1 & 1a Edwards Street + 25-27 Rosedale Road

Number	Type	Area (m2)	Solar Access	Cross Ventilation	Platinum
A.L0.U1	3B + 3.5BTH	164.70 m²	Yes	Yes	Yes
A.L0.U2	2B + 2BTH	110.67 m²	No	No	Yes
A.L0.U3	2B + 2BTH	112.38 m²	No	Yes	No
A.L1.U3	3B + 3BTH	126.49 m²	Yes	Yes	Yes
A.L1.U4	3B + 3.5BTH	141.71 m²	Yes	Yes	Yes
A.L1.U5	1B + 1BTH	86.97 m²	No	Yes	No
A.L1.U6	3B + 3.5BTH	141.71 m²	No	Yes	Yes
A.L2.U3	3B + 3.5BTH	133.41 m²	Yes	No	No
A.L4.U7	1B + 1BTH	84.05 m²	Yes	No	No
A.L5.U6	1B + 1BTH	84.05 m²	Yes	No	No
A.L6.U6	1B + 1BTH	84.05 m²	Yes	No	No
A.L7.U6	1B + 1BTH	84.05 m²	Yes	No	No
A.L8.U6	1B + 1BTH	84.05 m²	Yes	No	No

Affordable Housing - 1 & 1a Edwards Street + 25-27 Rosedale Road

Number	Type	Area (m2)	Solar Access	Cross Ventilation	Platinum
B.L0.U1	3B + 3BTH	130.28 m²	No	Yes	No
B.L1.U1	2B + 2BTH	112.38 m²	Yes	Yes	Yes
B.L1.U2	2B + 2BTH	113.77 m²	Yes	No	No
B.L1.U3	2B + 2.5BTH	145.40 m²	Yes	No	Yes
B.L1.U4	2B + 2BTH	113.05 m²	Yes	No	No
B.L1.U5	1B + 1BTH	67.38 m²	Yes	Yes	No
B.L1.U6	2B + 2BTH	101.58 m²	No	Yes	No
B.L2.U5	3B + 3BTH	141.59 m²	Yes	Yes	No
B.L2.U7	2B + 2BTH	101.58 m²	No	Yes	No
B.L3.U5	3B + 3BTH	141.59 m²	Yes	Yes	No
B.L3.U7	2B + 2BTH	101.58 m²	No	Yes	No
Grand total: 24		2708.44 m²			

AFFORDABLE HOUSING

	Controls	Proposed
Infill 10%:	1,593.14m² (10%)	2,384.99m² (15%)
In perpetuity 2%:	318.63m² (2%)	323.45m² (2%)
TOTAL AFFORDABLE HOUSING AREA (Infill 10% + In Perpetuity 2%)	1,911.77m² (12%)	2,708.44m² (17%)

Not for construction

Scale 1:100 (0m, 2, 4, 5m)

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
C	04/03/26	SSDA Application	PMDL	
B	17/11/25	SSDA Application	PMDL	
A	11/11/25	SSDA Application	PMDL	

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NSW NOMINATED ARCHITECTS: CAIO PECULIS 9610 DAVID MORRIS 5865 VICKI VAN DIJK 9476

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Affordable Housing Diagrams 2

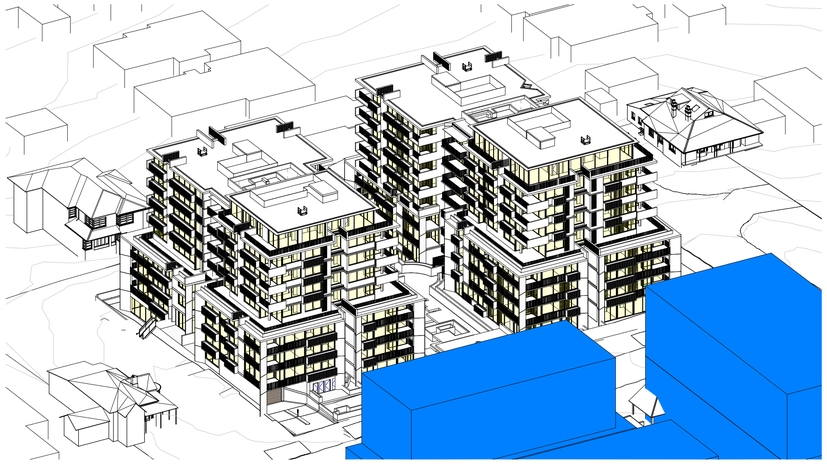
PRO.# 3304

SCALE 1:500@ A1

DA50.51

REV C

1 9am Winter Solstice



2 10am Winter Solstice

3 11am Winter Solstice

4 12pm Winter Solstice

LEGEND:

Glazing

29 Edward Street Massing

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
A	11/11/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

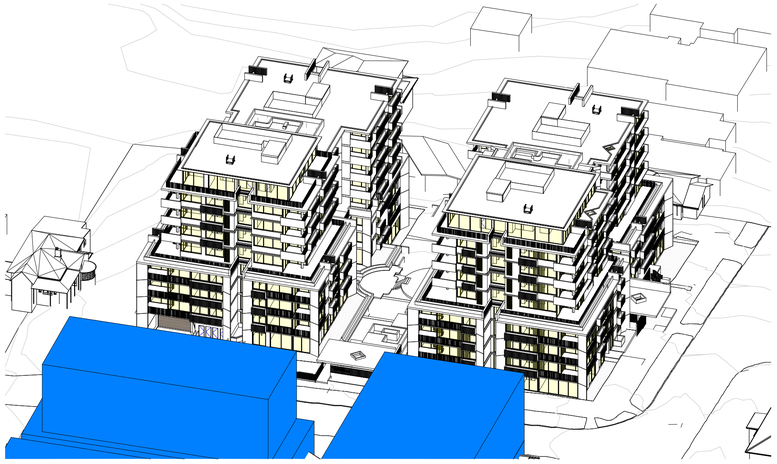
NAME: Solar Access Winter Solstice Study 1

PROJ#: 3304

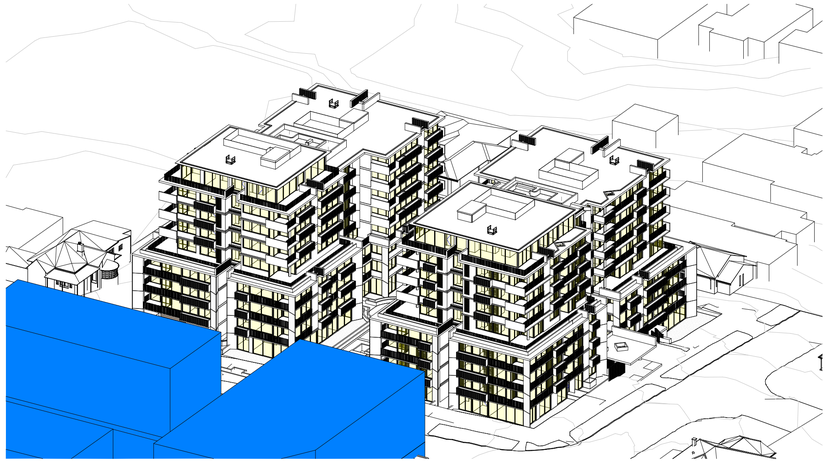
SCALE:

DA50.60

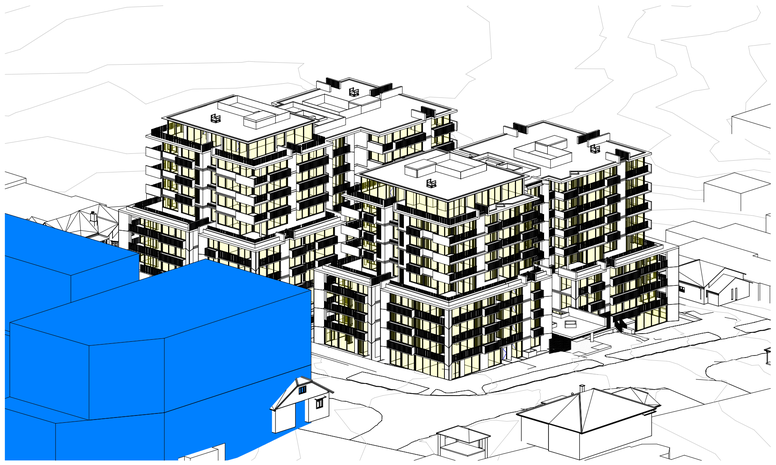
REV A



1 1pm Winter Solstice



2 2pm Winter Solstice



3 3pm Winter Solstice

LEGEND:

Glazing

29 Edward Street Massing

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
A	11/11/25	SSDA Application	PMDL	

0m 2 4 5m
Scale 1:100

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PROJECT
Edward Street and
Rosedale Road,
Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

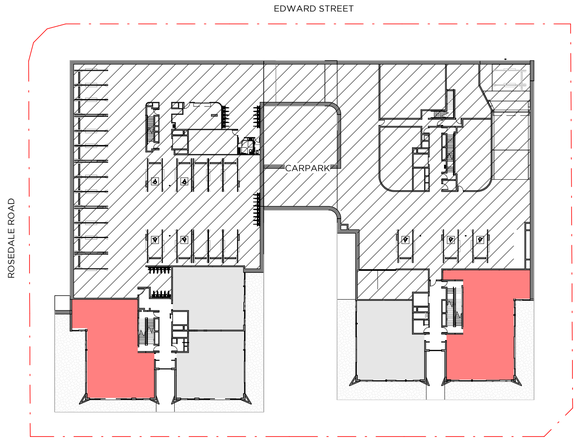
NAME
Solar Access Winter Solstice
Study 2

PROJ#
3304

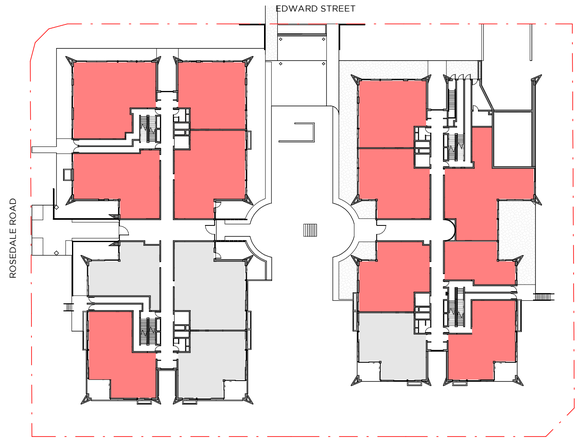
SCALE
1:500@ A1

#
DA50.61

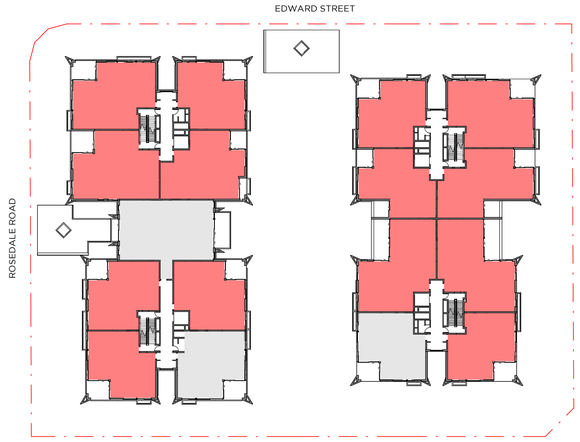
REV
A



1 Level 0 - Solar Access
1:500

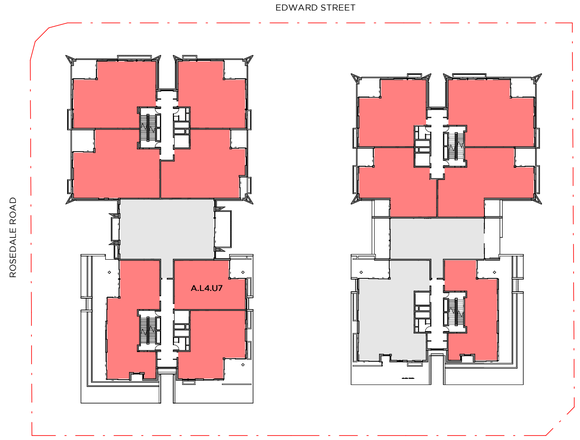


2 Level 1 - Solar Access
1:500

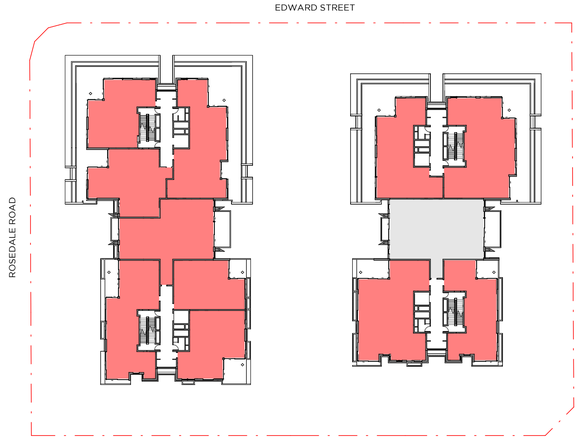


3 Level 2 - Solar Access
1:500

4 Level 3 - Solar Access
1:500



5 Level 4 - Solar Access
1:500



6 Level 5 - Solar Access
1:500

LEGEND:

- Site Boundary
- 2 Hours Solar Acess
- < 2 Hours Solar Access
- Carpark

SOLAR ACCESS

Total Units	Achieved >2 Hours Solar Access
119	100 (84%)

0m 2 4 5m
Scale 1:100

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
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Edward Street and
Rosedale Road,
Gordon

CLIENT
CPDM

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1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

NAME
Solar Access Diagrams 1

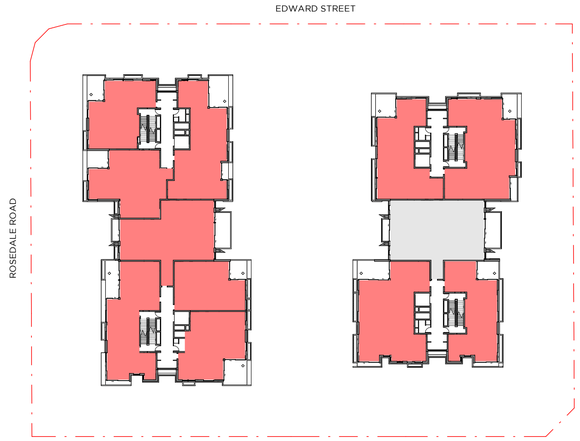
PRO.#
3304

SCALE
1:500@ A1

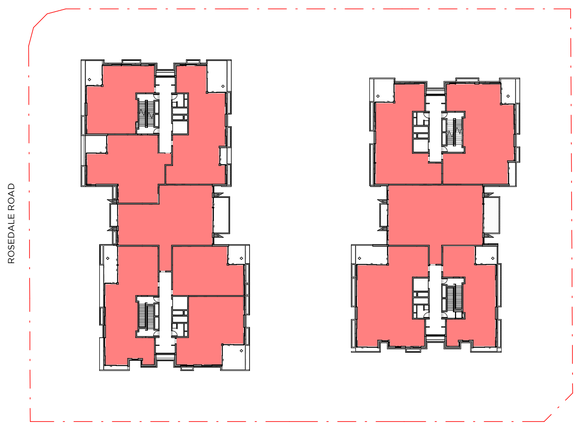
#
DA50.62

REV
A

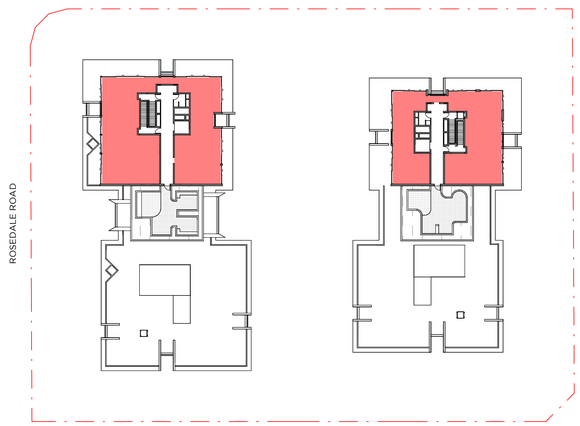
1 Level 6 - Solar Access
1:500



2 Level 7 - Solar Access
1:500



3 Level 8 - Solar Access
1:500



4 Level 9 - Solar Access
1:500

Building A - Solar Access

Number	Type	Unit Area (m2)	Solar Access
A.L0			
A.L0.U1	3B + 3.5BTH	164.70 m²	Yes
A.L0.U2	2B + 2BTH	110.67 m²	No
A.L0.U3	2B + 2BTH	112.38 m²	No
3			
A.L1			
A.L1.U1	3B + 3.5BTH	146.18 m²	Yes
A.L1.U2	2B + 2BTH	112.38 m²	Yes
A.L1.U3	3B + 3BTH	126.49 m²	Yes
A.L1.U4	3B + 3.5BTH	141.71 m²	Yes
A.L1.U5	1B + 1BTH	86.97 m²	No
A.L1.U6	3B + 3.5BTH	141.71 m²	No
A.L1.U7	3B + 3BTH	116.41 m²	Yes
A.L1.U8	2B + 2BTH	101.58 m²	No
8			
A.L2			
A.L2.U1	3B + 2.5BTH	125.06 m²	Yes
A.L2.U2	2B + 2BTH	101.58 m²	Yes
A.L2.U3	3B + 3.5BTH	133.41 m²	Yes
A.L2.U4	2B + 2BTH	122.56 m²	Yes
A.L2.U5	3B + 3.5BTH	155.95 m²	No
A.L2.U6	2B + 2BTH	108.20 m²	Yes
A.L2.U7	2B + 2BTH	110.83 m²	Yes
A.L2.U8	2B + 2BTH	99.13 m²	Yes
A.L2.U9	2B + 2BTH	104.66 m²	No
9			
A.L3			
A.L3.U1	3B + 2.5BTH	125.06 m²	Yes
A.L3.U2	2B + 2BTH	104.55 m²	Yes
A.L3.U3	3B + 3.5BTH	133.02 m²	Yes
A.L3.U4	2B + 2BTH	122.56 m²	Yes
A.L3.U5	3B + 3.5BTH	155.95 m²	No
A.L3.U6	2B + 2BTH	108.20 m²	Yes
A.L3.U7	2B + 2BTH	110.83 m²	Yes
A.L3.U8	2B + 2BTH	98.74 m²	Yes
A.L3.U9	2B + 2BTH	104.55 m²	No
9			
A.L4			
A.L4.U1	3B + 2.5BTH	125.06 m²	Yes
A.L4.U2	2B + 2BTH	101.58 m²	Yes
A.L4.U3	3B + 3.5BTH	133.01 m²	Yes
A.L4.U4	2B + 2BTH	122.56 m²	Yes
A.L4.U5	3B + 3.5BTH	155.95 m²	No
A.L4.U6	3B + 3BTH	123.39 m²	Yes
A.L4.U7	1B + 1BTH	84.05 m²	Yes
A.L4.U8	2B + 2BTH	95.93 m²	Yes
8			
A.L5			
A.L5.U1	2B + 2BTH	93.61 m²	Yes
A.L5.U2	2B + 2BTH	109.57 m²	Yes
A.L5.U3	3B + 3BTH	130.62 m²	Yes
A.L5.U4	3B + 2.5BTH	137.53 m²	Yes
A.L5.U5	3B + 3BTH	123.39 m²	Yes
A.L5.U6	1B + 1BTH	84.05 m²	Yes
A.L5.U7	2B + 2BTH	95.93 m²	Yes
7			
A.L6			
A.L6.U1	2B + 2BTH	93.51 m²	Yes
A.L6.U2	2B + 2BTH	109.91 m²	Yes
A.L6.U3	3B + 3BTH	133.70 m²	Yes
A.L6.U4	3B + 2.5BTH	137.53 m²	Yes
A.L6.U5	3B + 3BTH	123.39 m²	Yes
A.L6.U6	1B + 1BTH	84.05 m²	Yes
A.L6.U7	2B + 2BTH	95.93 m²	Yes
7			
A.L7			
A.L7.U1	2B + 2BTH	93.51 m²	Yes
A.L7.U2	2B + 2BTH	109.57 m²	Yes
A.L7.U3	3B + 3BTH	133.70 m²	Yes
A.L7.U4	3B + 2.5BTH	137.53 m²	Yes
A.L7.U5	3B + 3BTH	124.17 m²	Yes
A.L7.U6	1B + 1BTH	84.05 m²	Yes
A.L7.U7	2B + 2BTH	99.01 m²	Yes
7			
A.L8			
A.L8.U1	2B + 2BTH	93.51 m²	Yes
A.L8.U2	2B + 2BTH	109.57 m²	Yes
A.L8.U3	3B + 3BTH	130.62 m²	Yes
A.L8.U4	3B + 2.5BTH	137.53 m²	Yes
A.L8.U5	3B + 3BTH	123.39 m²	Yes
A.L8.U6	1B + 1BTH	84.05 m²	Yes
A.L8.U7	2B + 2BTH	95.93 m²	Yes
7			
A.L9			
A.L9.U1	4B + 4.5BTH	252.48 m²	Yes
1			

Building B - Solar Access

Number	Type	Unit Area (m2)	Solar Access
B.L0			
B.L0.U1	3B + 3BTH	130.28 m²	No
B.L0.U2	3B + 3.5BTH	184.88 m²	Yes
2			
B.L1			
B.L1.U1	2B + 2BTH	112.38 m²	Yes
B.L1.U2	2B + 2BTH	113.77 m²	Yes
B.L1.U3	2B + 2.5BTH	145.40 m²	Yes
B.L1.U4	2B + 2BTH	113.05 m²	Yes
B.L1.U5	1B + 1BTH	67.38 m²	Yes
B.L1.U6	2B + 2BTH	101.58 m²	No
B.L1.U7	2B + 2BTH	109.03 m²	Yes
7			
B.L2			
B.L2.U1	2B + 2BTH	101.58 m²	Yes
B.L2.U2	2B + 2BTH	130.54 m²	Yes
B.L2.U3	2B + 2BTH	105.12 m²	Yes
B.L2.U4	2B + 2.5BTH	124.78 m²	Yes
B.L2.U5	3B + 3BTH	141.59 m²	Yes
B.L2.U6	3B + 3BTH	138.76 m²	Yes
B.L2.U7	2B + 2BTH	101.58 m²	No
B.L2.U8	2B + 2BTH	98.74 m²	Yes
8			
B.L3			
B.L3.U1	2B + 2BTH	101.58 m²	Yes
B.L3.U2	2B + 2BTH	130.54 m²	Yes
B.L3.U3	2B + 2BTH	104.80 m²	Yes
B.L3.U4	2B + 2.5BTH	124.78 m²	Yes
B.L3.U5	3B + 3BTH	141.59 m²	Yes
B.L3.U6	3B + 3BTH	139.35 m²	Yes
B.L3.U7	2B + 2BTH	101.58 m²	No
B.L3.U8	2B + 2BTH	98.74 m²	Yes
8			
B.L4			
B.L4.U1	2B + 2BTH	101.59 m²	Yes
B.L4.U2	3B + 2.5BTH	130.51 m²	Yes
B.L4.U3	2B + 2BTH	105.12 m²	Yes
B.L4.U4	2B + 2.5BTH	124.51 m²	Yes
B.L4.U5	2B + 2BTH	107.16 m²	No
B.L4.U6	3B + 3BTH	149.90 m²	No
B.L4.U7	2B + 2BTH	100.21 m²	Yes
7			
B.L5			
B.L5.U1	2B + 2BTH	116.53 m²	Yes
B.L5.U2	3B + 3BTH	150.82 m²	Yes
B.L5.U3	3B + 3.5BTH	155.95 m²	Yes
B.L5.U4	3B + 3BTH	149.90 m²	Yes
B.L5.U5	2B + 2BTH	100.21 m²	Yes
5			
B.L6			
B.L6.U1	2B + 2BTH	117.00 m²	Yes
B.L6.U2	3B + 3BTH	150.82 m²	Yes
B.L6.U3	3B + 3.5BTH	155.95 m²	Yes
B.L6.U4	3B + 3BTH	149.90 m²	Yes
B.L6.U5	2B + 2BTH	100.21 m²	Yes
5			
B.L7			
B.L7.U1	2B + 2BTH	116.53 m²	Yes
B.L7.U2	3B + 3BTH	150.82 m²	Yes
B.L7.U3	3B + 3.5BTH	155.95 m²	Yes
B.L7.U4	3B + 3BTH	149.90 m²	Yes
B.L7.U5	2B + 2BTH	100.21 m²	Yes
5			
B.L8			
B.L8.U1	2B + 2BTH	116.53 m²	Yes
B.L8.U2	3B + 3BTH	150.82 m²	Yes
B.L8.U3	3B + 3.5BTH	155.95 m²	Yes
B.L8.U4	3B + 3BTH	149.90 m²	Yes
B.L8.U5	2B + 2BTH	100.21 m²	Yes
5			
B.L9			
B.L9.U1	4B + 3.5BTH	191.23 m²	Yes
1			

LEGEND:

- Site Boundary
- 2 Hours Solar Acess
- < 2 Hours Solar Access
- Carpark

SOLAR ACCESS

Total Units	Achieved >2 Hours Solar Access
119	100 (84%)

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
A	11/11/25	SSDA Application	PMDL	

0m 2 4 5m
Scale 1:100

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

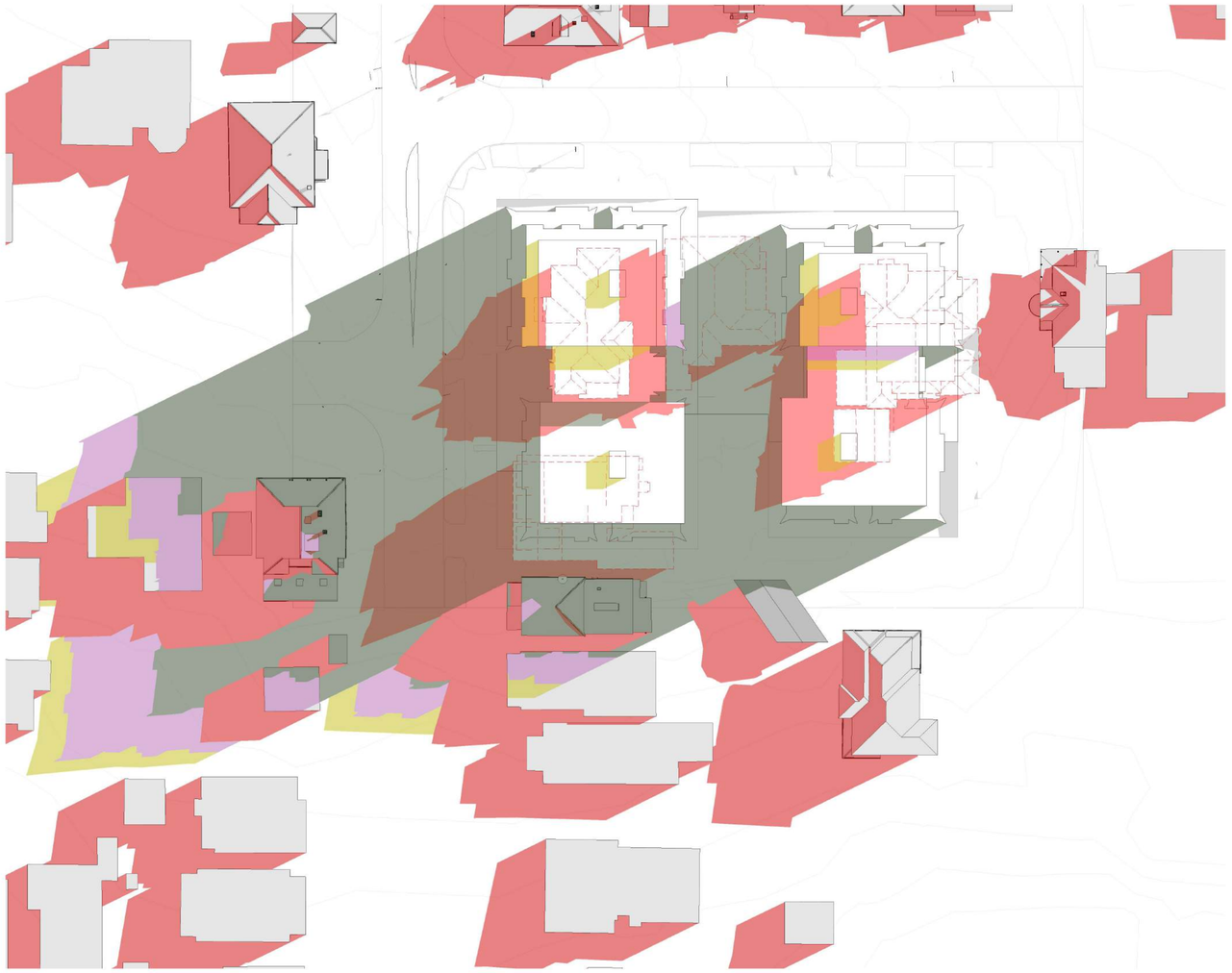
NAME: Solar Access Diagrams 2

PROJ#: 3304

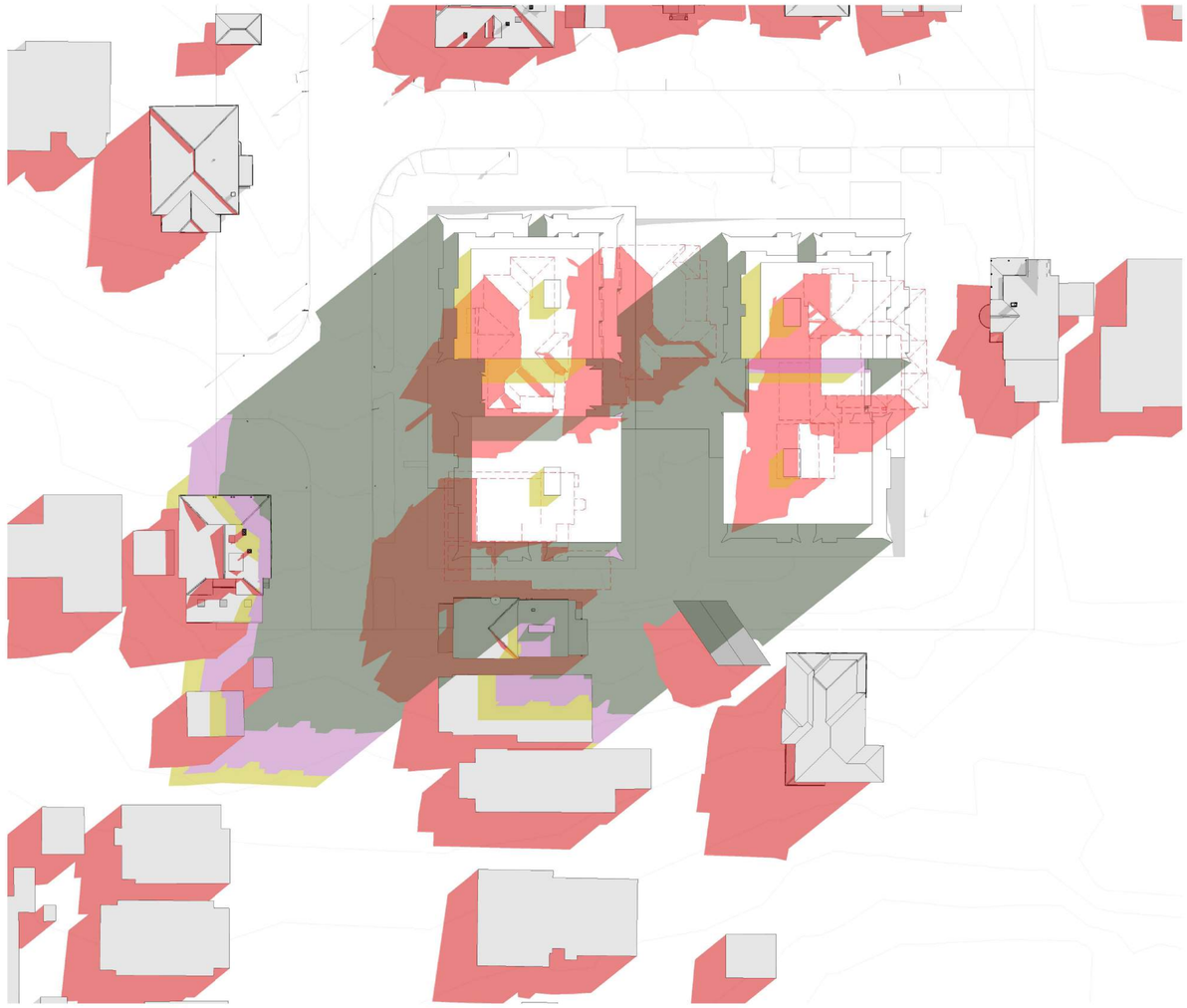
SCALE: 1:500@ A1

DA50.63

REV: A



1 9am - Winter Solstice
1:500



2 10am - Winter Solstice
1:500

LEGEND:

- Site boundary
- Shadows from existing elements
- Overshadowing from elements within permissible (TOD) = Under 22m HP
- Overshadowing from elements within IAFH Bonus (+20%) = Between 22m - 26.4m HP
- Overshadowing from elements above IAFH Bonus (+20%) = Over 26.4m HP

Not for construction

0m 10 20 25m
Scale 1:500

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	06/05/26	SSDA Application	PMDL	
C	04/03/26	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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PROJECT
Edward Street and Rosedale Road, Gordon

CLIENT
CPDM

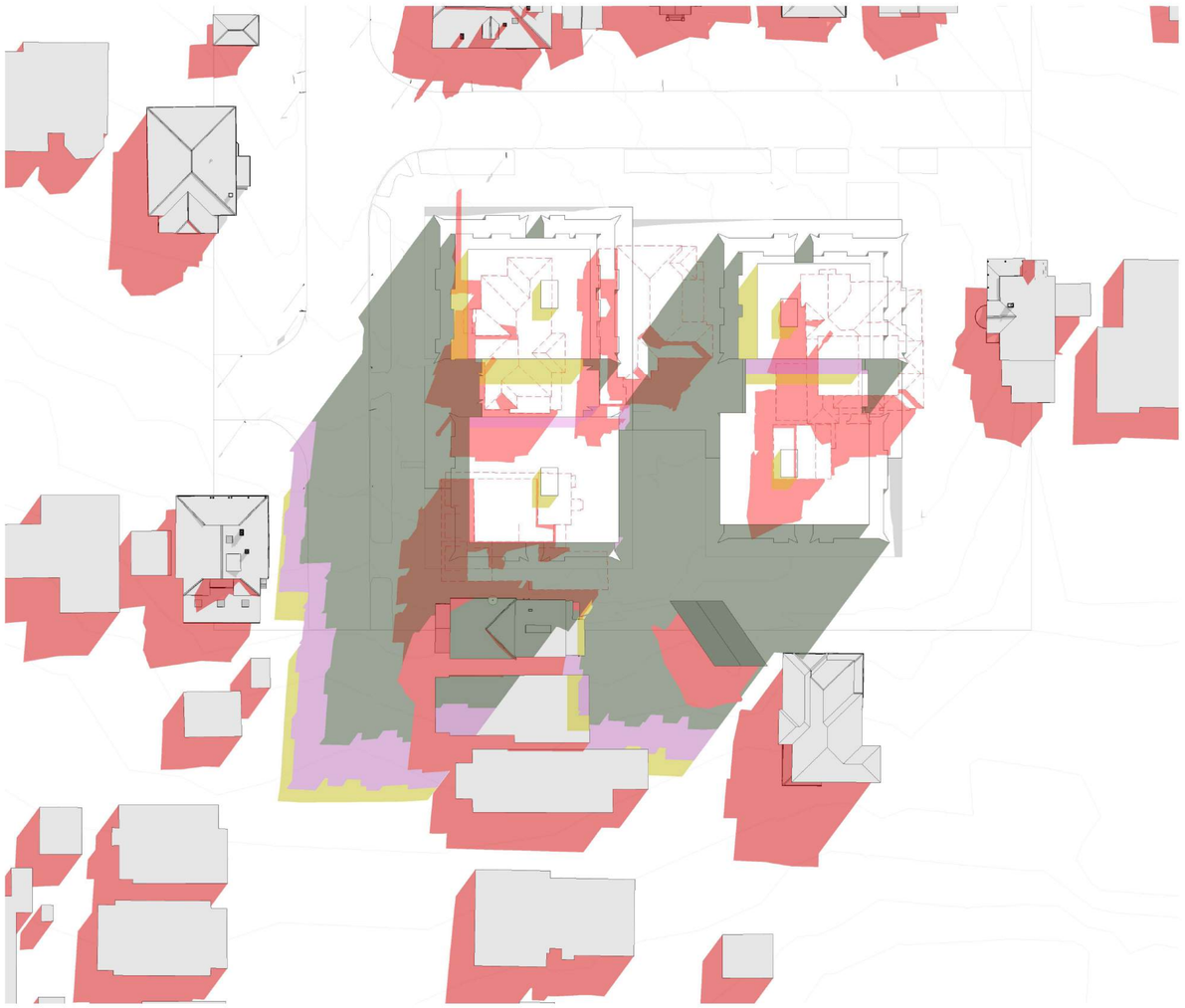
ADDRESS
1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME
Shadow Study - Proposed Envelope 9 - 10am

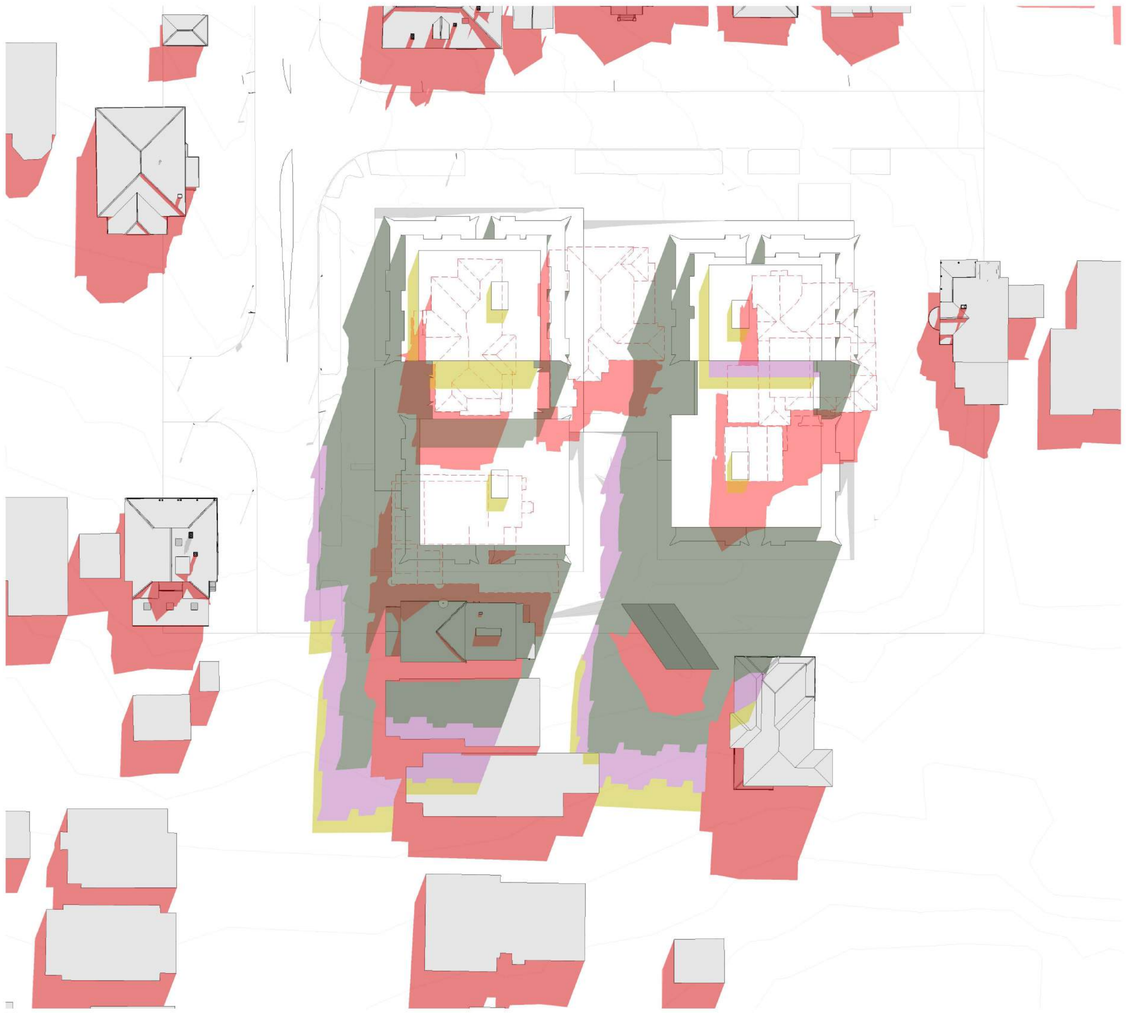
PROJ# 3304

SCALE As indicated@ A1

DA50.64 REV D



1 11am - Winter Solstice
1:500



2 12pm - Winter Solstice
1:500

LEGEND:

- Site boundary
- Shadows from existing elements
- Overshadowing from elements within permissible (TOD) = Under 22m HP
- Overshadowing from elements within IAFH Bonus (+20%) = Between 22m - 26.4m HP
- Overshadowing from elements above IAFH Bonus (+20%) = Over 26.4m HP

Not for construction

0m 10 20 25m
Scale 1:500

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	06/05/26	SSDA Application	PMDL	
C	04/03/26	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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PROJECT
Edward Street and
Rosedale Road,
Gordon

CLIENT
CPDM

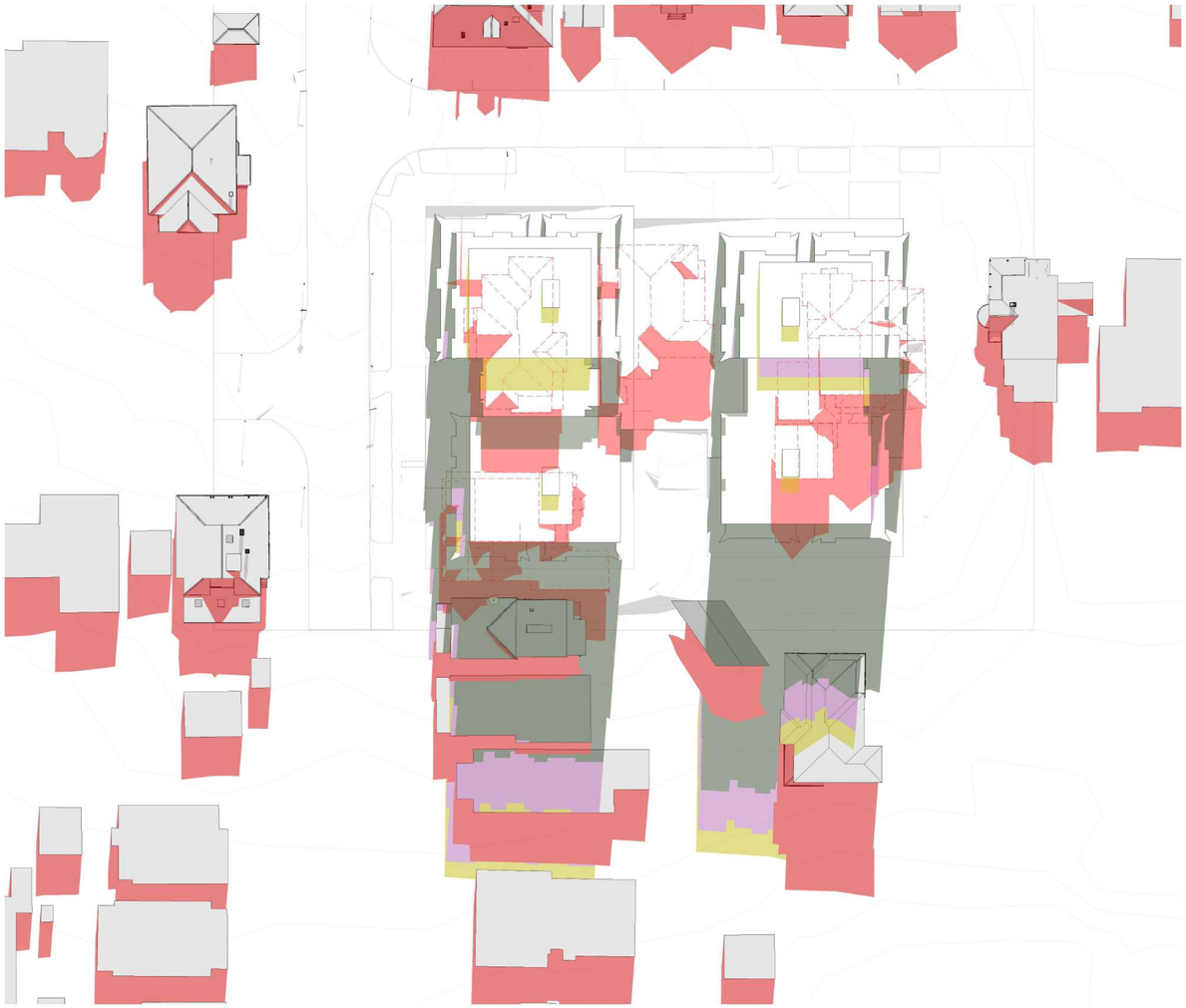
ADDRESS
1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

NAME
Shadow Study - Proposed
Envelope 11 - 12 noon

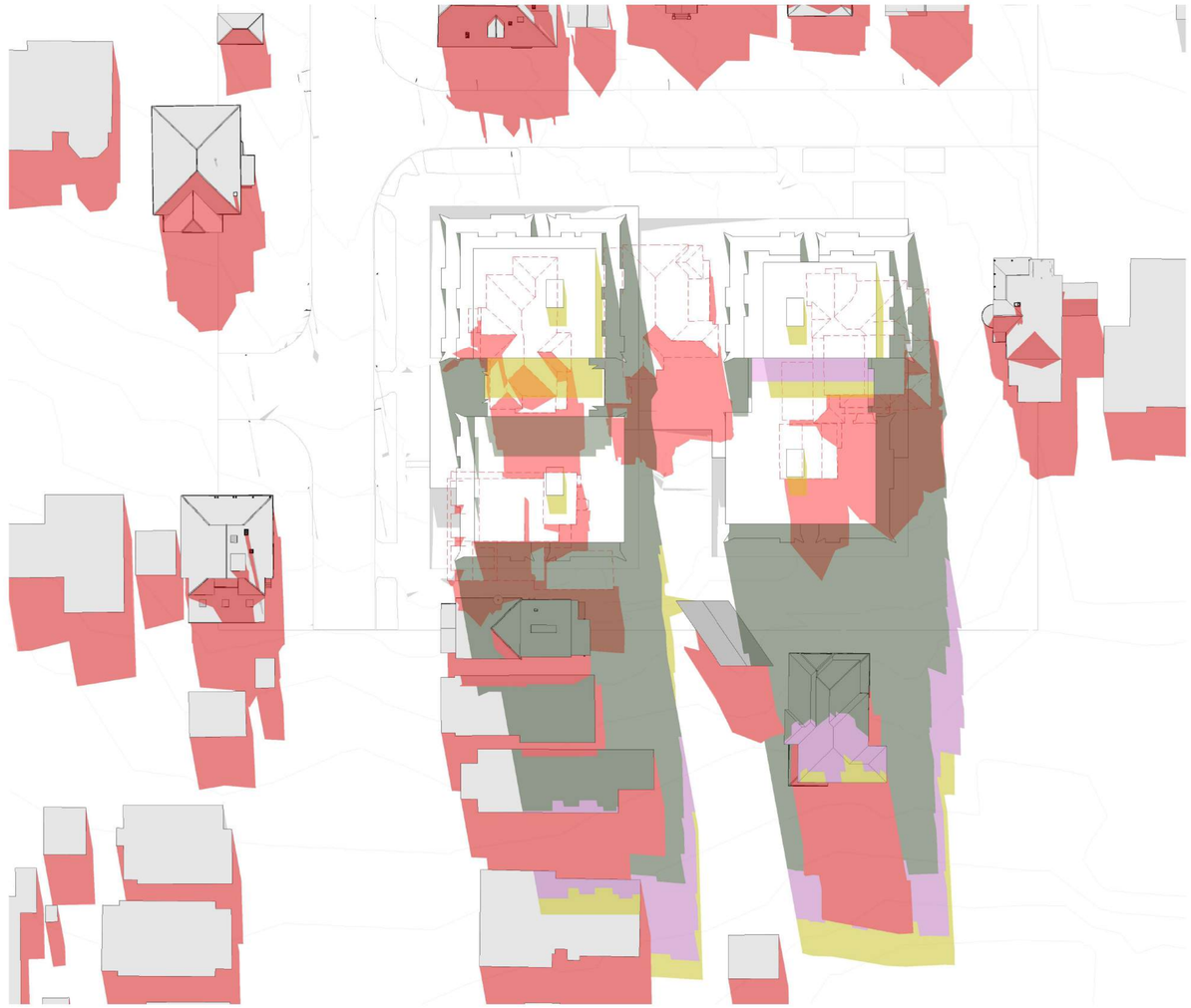
PRO.#
3304

SCALE
As
indicated@
A1

REV
DA50.65 D



1 1pm - Winter Solstice
1:500



2 2pm - Winter Solstice
1:500

LEGEND:

- Site boundary
- Shadows from existing elements
- Overshadowing from elements within permissible (TOD) = Under 22m HP
- Overshadowing from elements within IAFH Bonus (+20%) = Between 22m - 26.4m HP
- Overshadowing from elements above IAFH Bonus (+20%) = Over 26.4m HP

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	06/05/26	SSDA Application	PMDL	
C	04/03/26	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

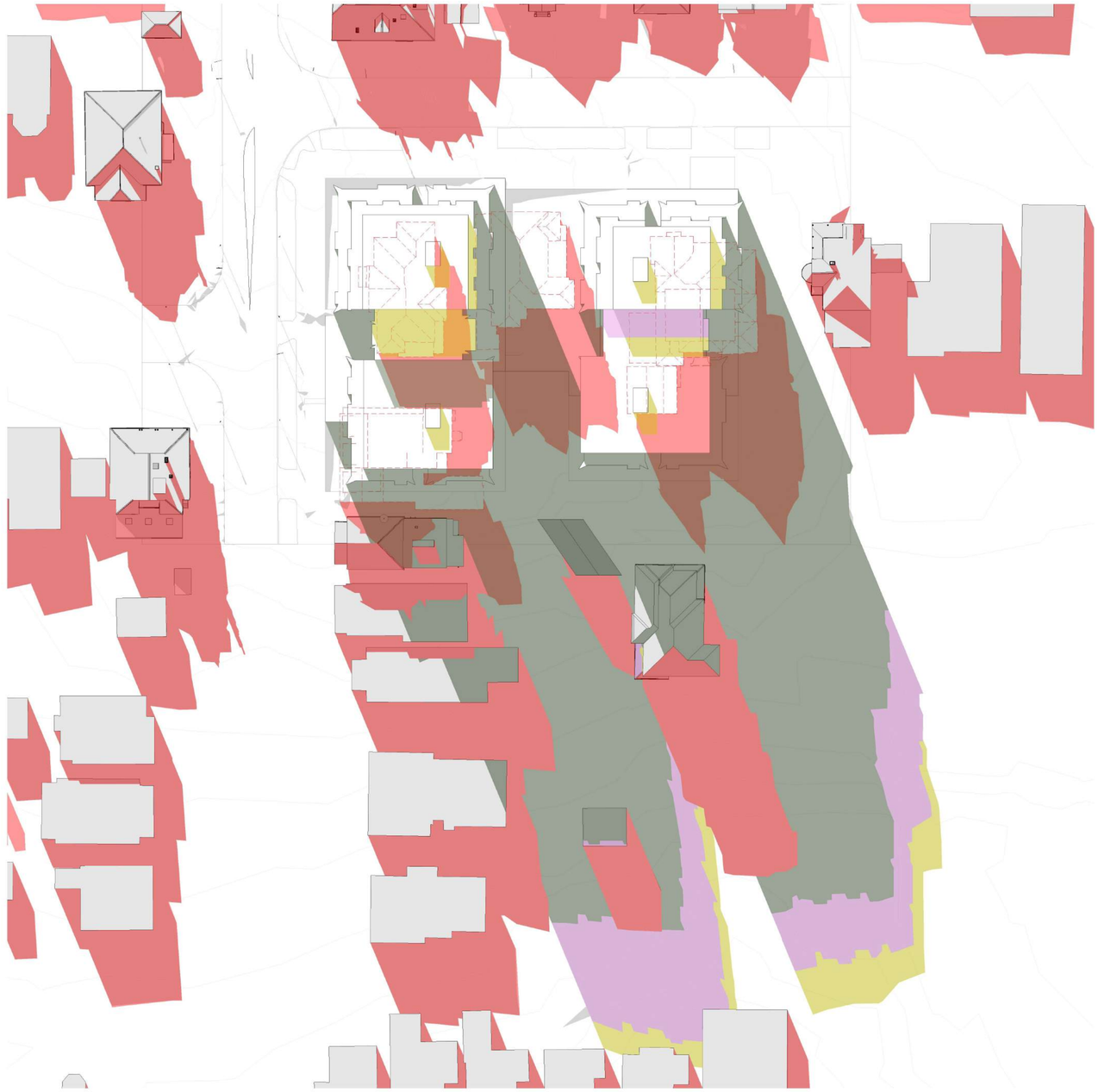
NAME: Shadow Study - Proposed Envelope 1 - 2pm

PROJ#: 3304

SCALE: As indicated@ A1

DA50.66

REV: D



1 3pm - Winter Solstice
1:500

LEGEND:

- Site boundary
- Shadows from existing elements
- Overshadowing from elements within permissible (TOD) = Under 22m HP
- Overshadowing from elements within IAFH Bonus (+20%) = Between 22m - 26.4m HP
- Overshadowing from elements above IAFH Bonus (+20%) = Over 26.4m HP

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
D	06/05/26	SSDA Application	PMDL	
C	04/03/26	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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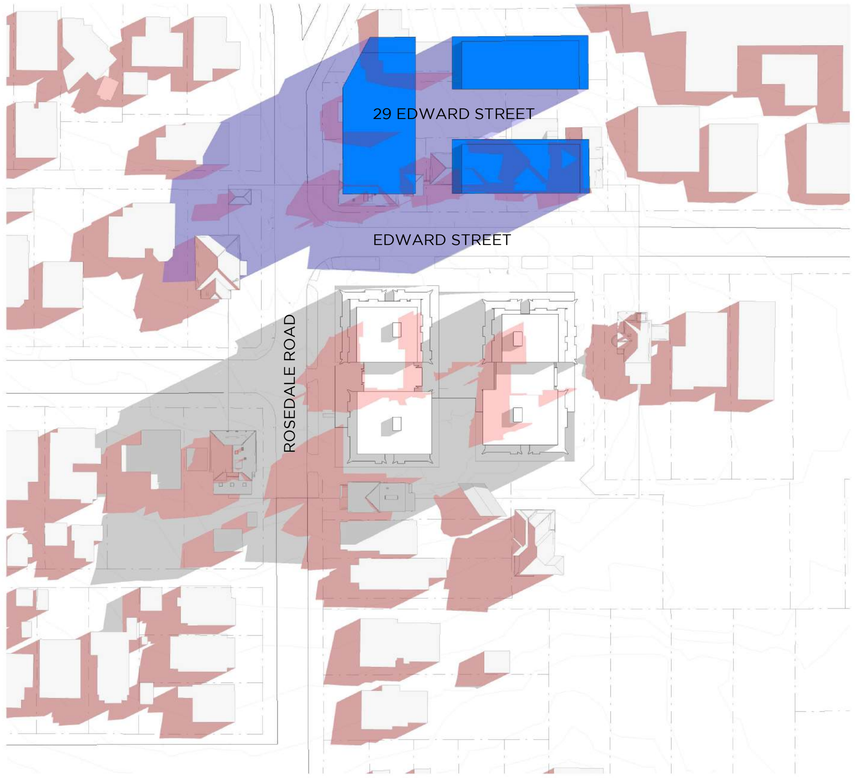
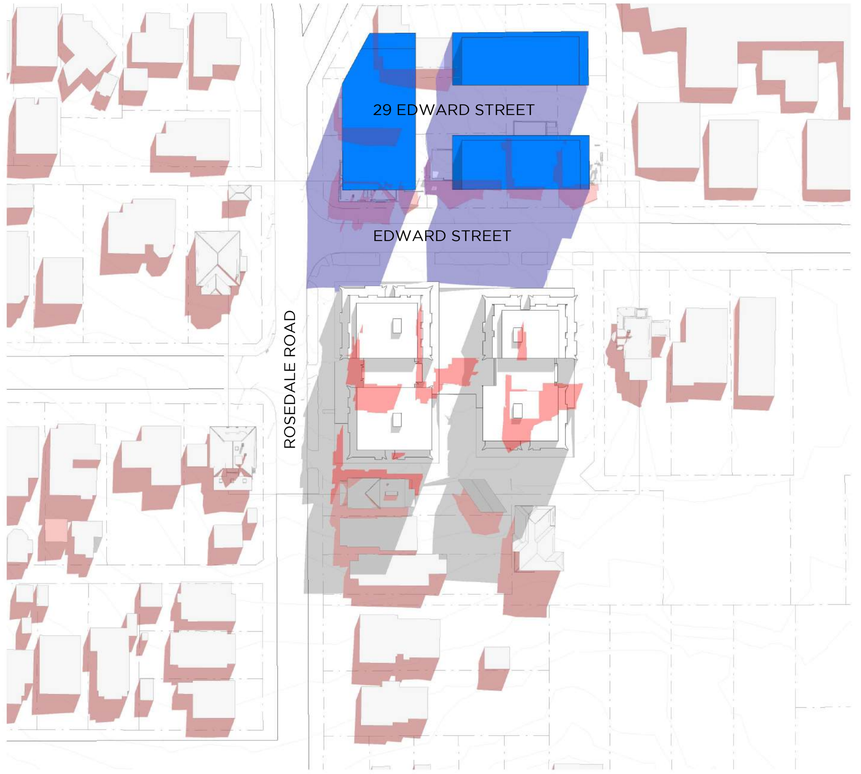
PROJECT: Edward Street and Rosedale Road, Gordon
CLIENT: CPDM
ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

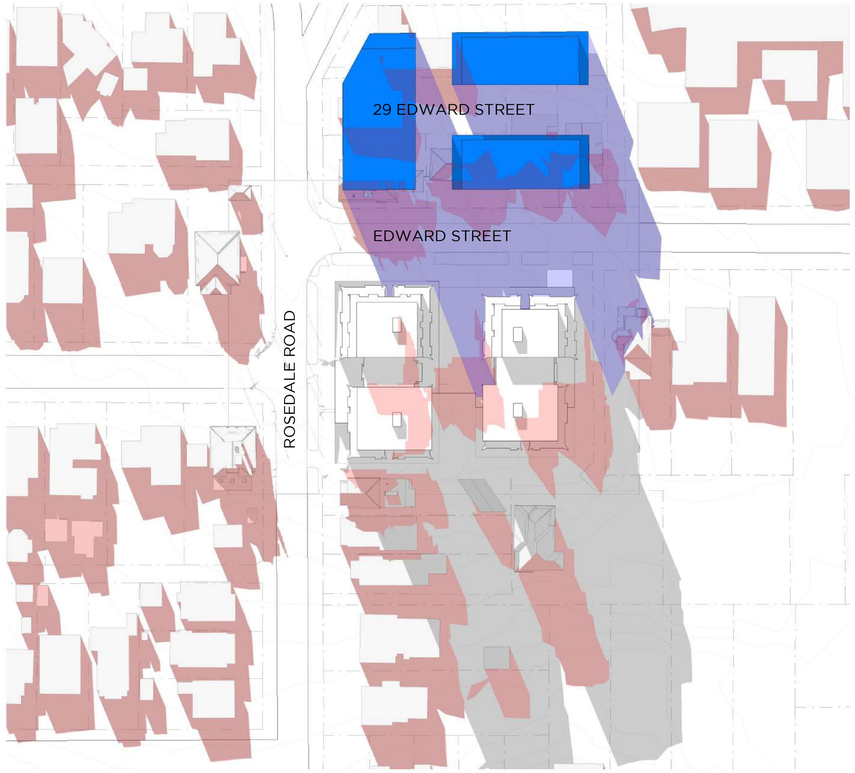
NAME: Shadow Study - Proposed Envelope 3pm
PROJ#: 3304
SCALE: As indicated@ A1
DA50.67
REV D



1 Winter Solstice - 9AM
Plan 1:1000



2 Winter Solstice - 12PM
Plan 1:1000



3 Winter Solstice - 3PM
Plan 1:1000

LEGEND:

- Site boundary
- Shadows from existing elements
- Overshadowing by 29 Edward Street permissible envelope
- Overshadowing from proposed envelope

0m 20 40 50m
Scale 1:1000

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
C	06/05/26	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Shadow Study - Proposed Envelope + Neighbouring Proposed Envelope

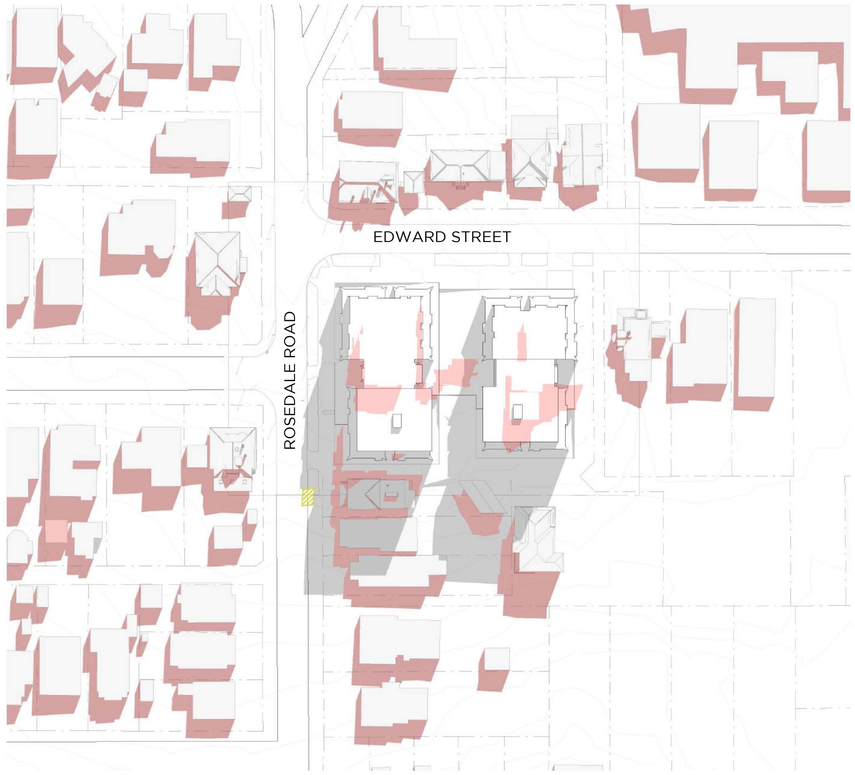
PROJ#: 3304

SCALE: As indicated@ A1

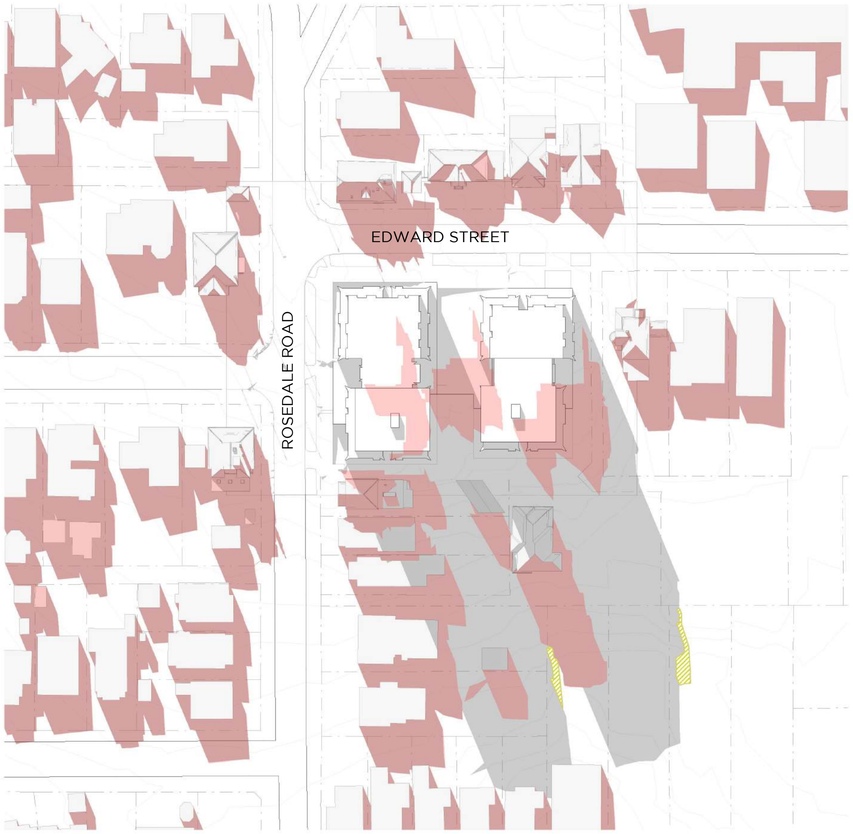
DA50.68

REV: C

1 Winter Solstice - 9AM
Plan 1:1000



2 Winter Solstice - 12PM
Plan 1:1000



3 Winter Solstice - 3PM
Plan 1:1000

LEGEND:

- Site boundary
- Shadows from existing elements
- Overshadowing by penthouses on A.L8 & B.L8
- Overshadowing from proposed envelope

0m 20 40 50m
Scale 1:1000

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
C	06/05/26	SSDA Application	PMDL	
B	11/11/25	SSDA Application	PMDL	
A	26/09/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

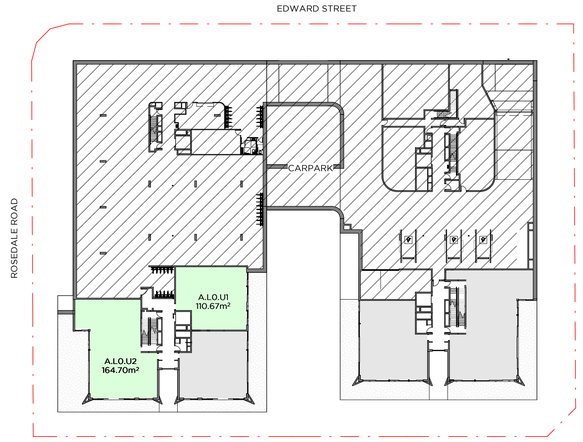
NAME: Shadow Study - Proposed Envelope - No Penthouses

PROJ#: 3304

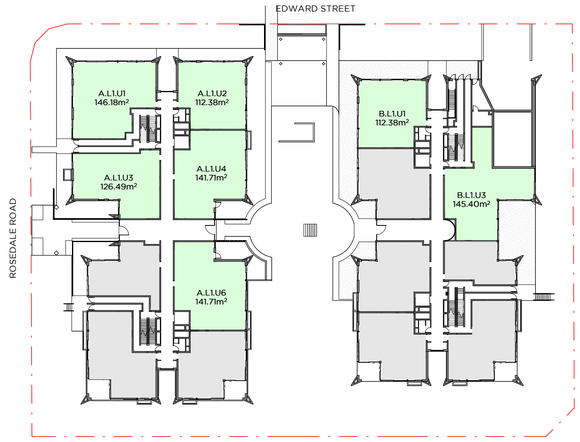
SCALE: As indicated@ A1

DA50.69

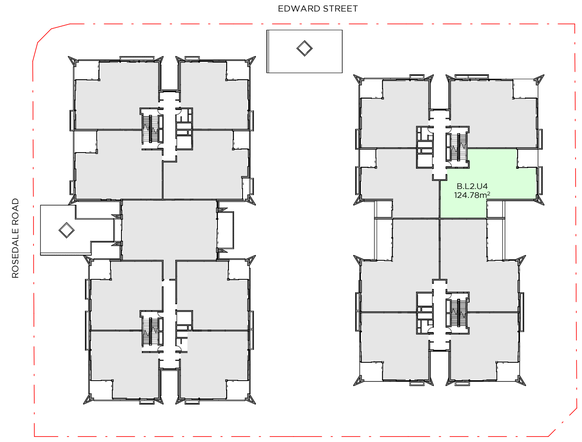
REV: C



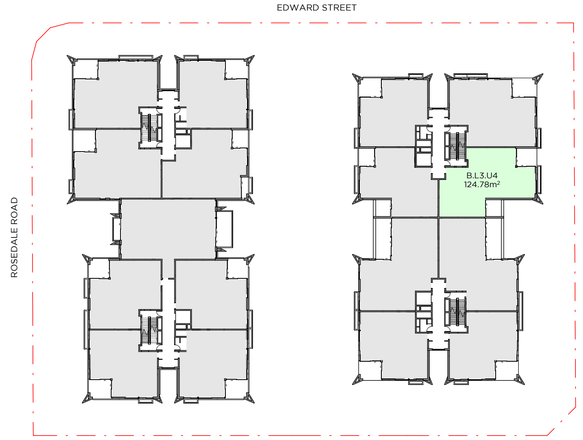
1 Level 0 - ADP/LIV Diagram
1:500



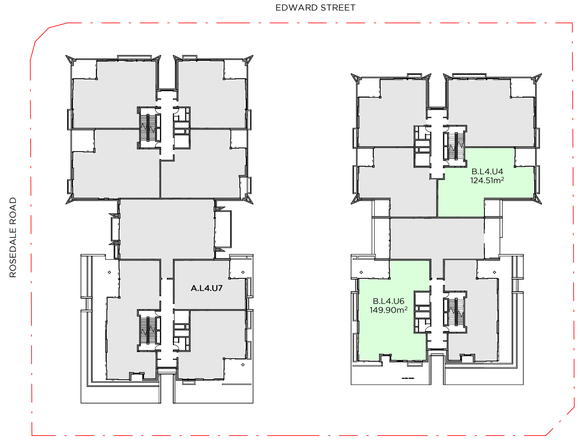
2 Level 1 - ADP/LIV Diagram
1:500



3 Level 2 - ADP/LIV Diagram
1:500



4 Level 3 - ADP/LIV Diagram
1:500



5 Level 4 - ADP/LIV Diagram
1:500

6 Level 5 - ADP/LIV Diagram
1:500

LEGEND:

- Site Boundary
- Platinum Level
- Silver Level
- Carpark

LIVABLE UNITS

Total Units	Platinum Level	Silver Level
119	18 units (15%)	101 units (85%)

0m 2 4 5m
Scale 1:100

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
A	11/11/25	SSDA Application	PMDL	

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PROJECT: Edward Street and Rosedale Road, Gordon

CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: Adapatable / Liveable Diagrams 1

PRO.#: 3304

SCALE: 1:500@ A1

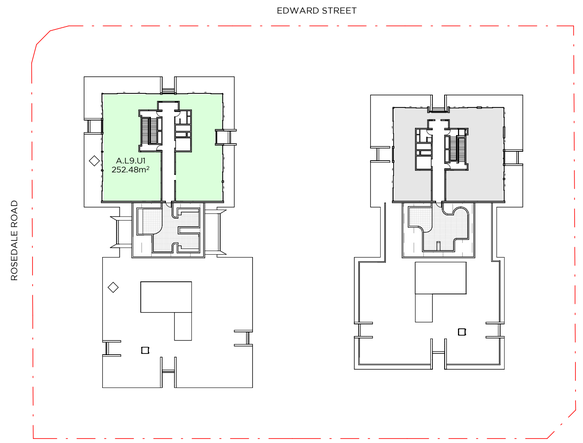
DA50.70

REV A

1 Level 6 - ADP/LIV Diagram
1:500

2 Level 7 - ADP/LIV Diagram
1:500

3 Level 8 - ADP/LIV Diagram
1:500



4 Level 9 - ADP/LIV Diagram
1:500

LEGEND:

- Site Boundary
- Platinum Level
- Silver Level
- Carpark

LIVABLE UNITS

Total Units	Platinum Level	Silver Level
119	18 units (15%)	101 units (85%)

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
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PROJECT
Edward Street and
Rosedale Road,
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CLIENT
CPDM

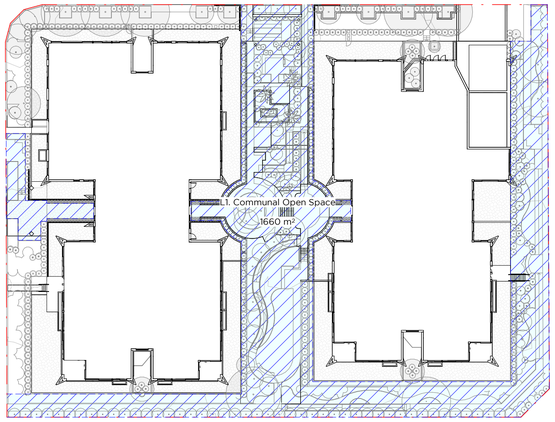
ADDRESS
1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

NAME
Adapatable / Liveable
Diagrams 2

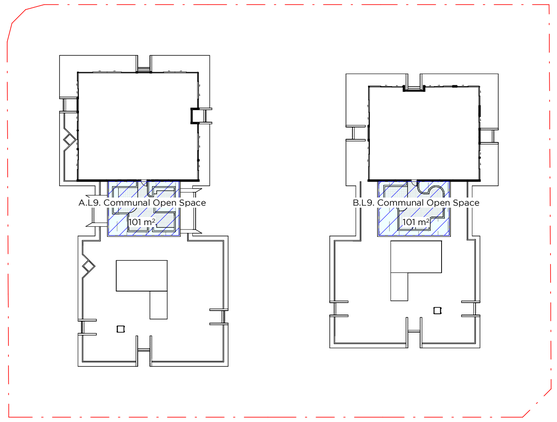
PROJ#
3304

SCALE
1:500@ A1

REV
DA50.71 A



1 Communal Open Space - Level 1
1:500



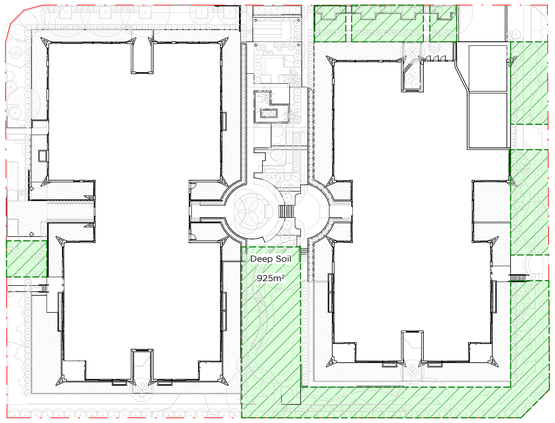
2 Communal Open Space - Level 9
1:500

LEGEND:

- Site Boundary
- Communal Open Space

COMMUNAL OPEN SPACE

	Controls	Proposed
COS (ADG)	25% (1,486.43m²)	31% (1,862.66m²)



3 Deep Soil Plan
1:500

LEGEND:

- Site Boundary
- Deep Soil Area Equal or Greater than 6m

DEEP SOIL

	Controls	Proposed
DEEP SOIL (ADG)	7% (416.20m²)	15.5% (923.99m²)

0m 2 4 5m
Scale 1:100

Not for construction

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CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

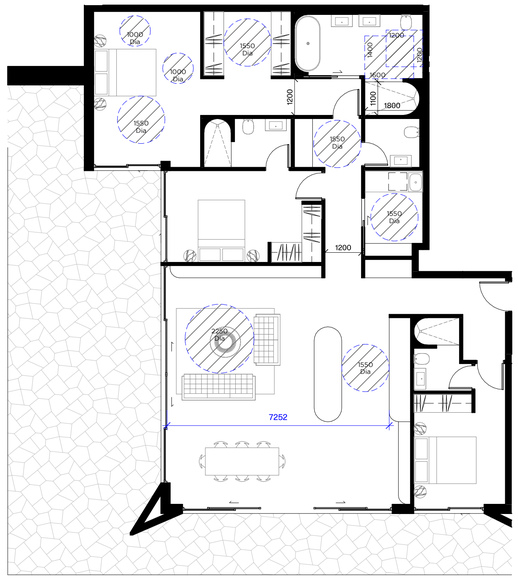
NAME: Communal Open Space & Deep Soil

PROJ#: 3304

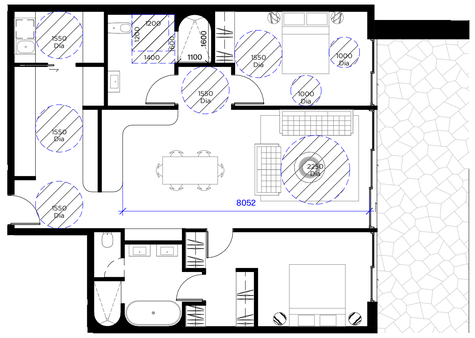
SCALE: As indicated@ A1

DA60.01

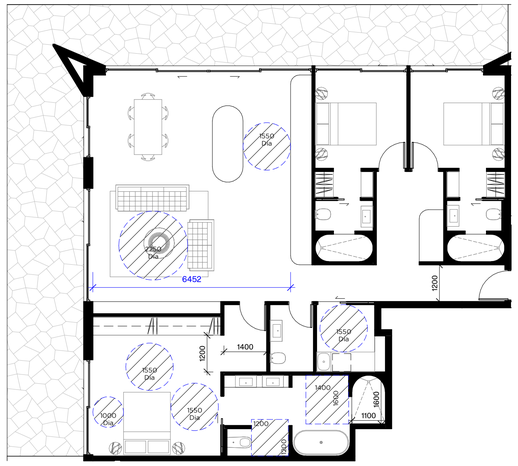
REV: A



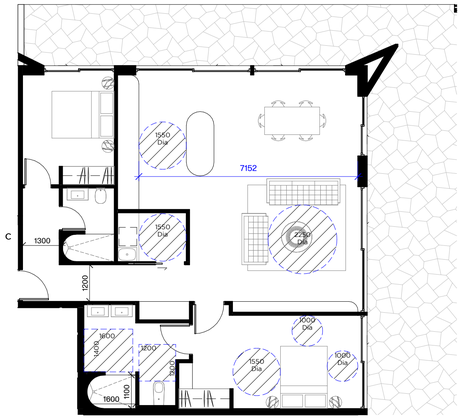
1 A.L0.U1
1:100



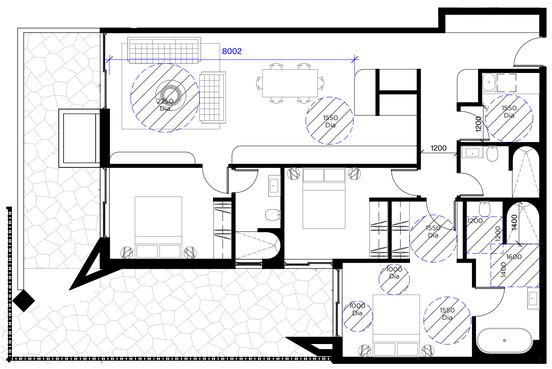
2 A.L0.U2
1:100



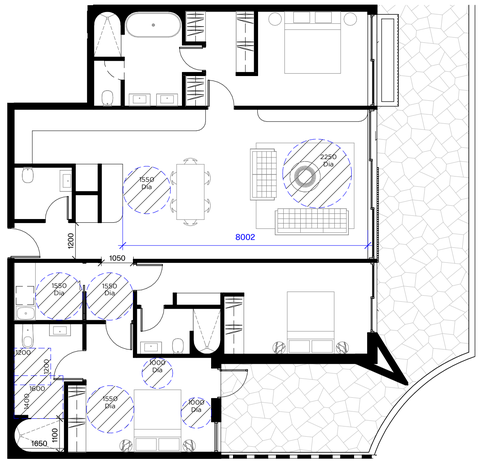
3 A.L1.U1
1:100



4 A.L1.U2
1:100



5 A.L1.U3
1:100



6 A.L1.U4
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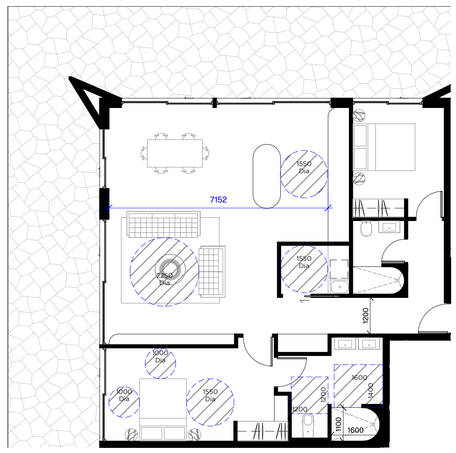
7 A.L1.U6
1:100



8 B.L1.U1
1:100

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
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Edward Street and
Rosedale Road,
Gordon

CLIENT
CPDM

ADDRESS
1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

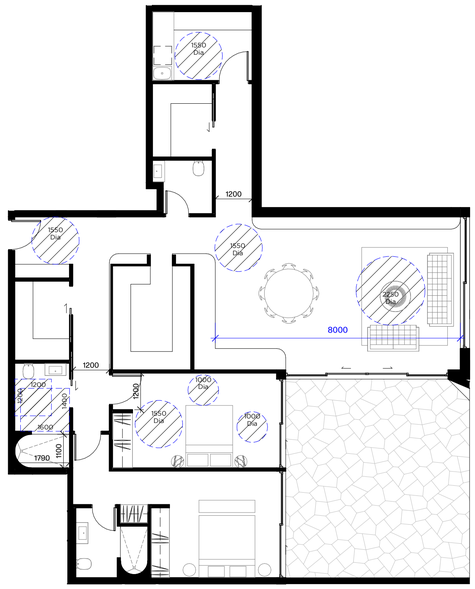
NAME
Livable Unit Layout 1

PROJ#
3304

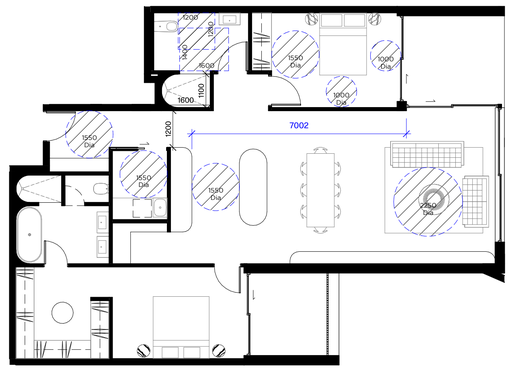
SCALE
1:100@ A1

#
DA60.02

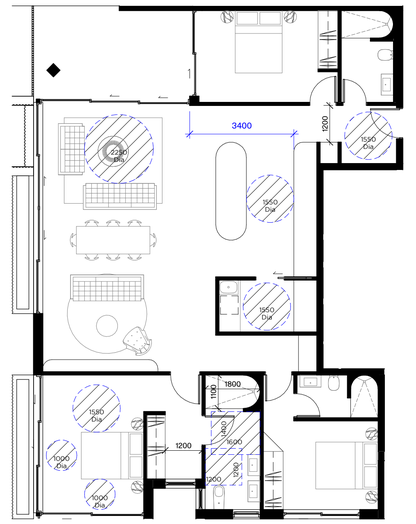
REV
C



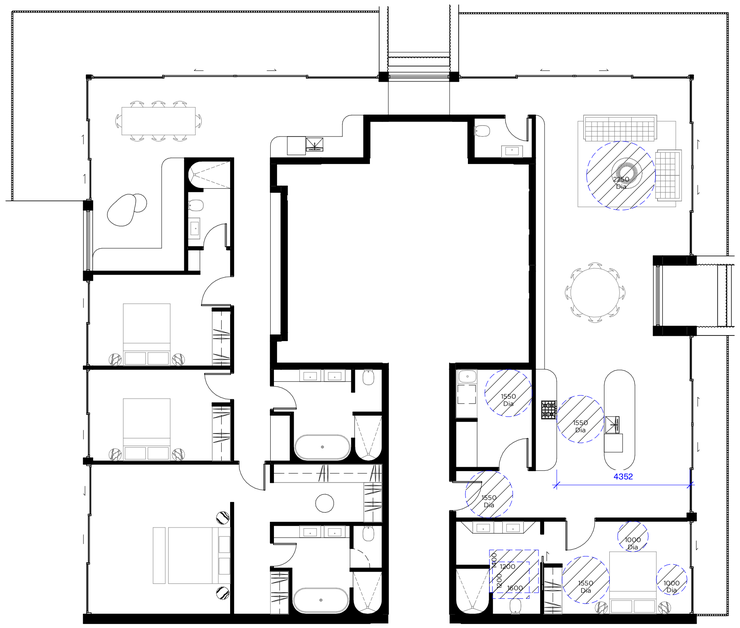
1 B.L1.U3
1:100



2 B.L2.U4 + B.L3.U4 + B.L4.U4
1:100



3 B.L4.U6 + B.L5.U4 + B.L6.U4 + B.L7.U4 + B.L8.U4
1:100



4 A.L9.U1
1:100

Not for construction

0m 2 4 5m
Scale 1:100

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A	11/11/25	SSDA Application	PMDL	

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CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

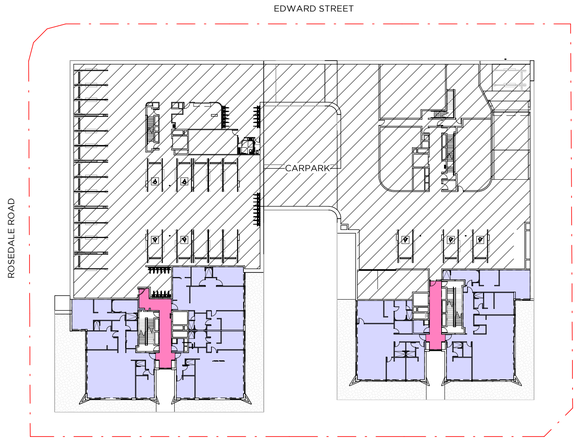
NAME: Livable Unit Layout 2

PROJ#: 3304

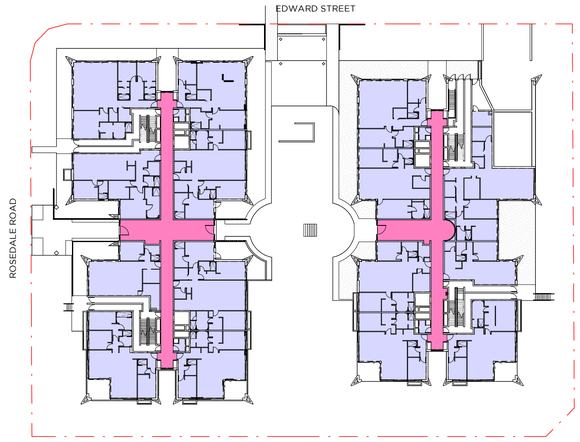
SCALE: 1:100@ A1

DA60.03

REV C

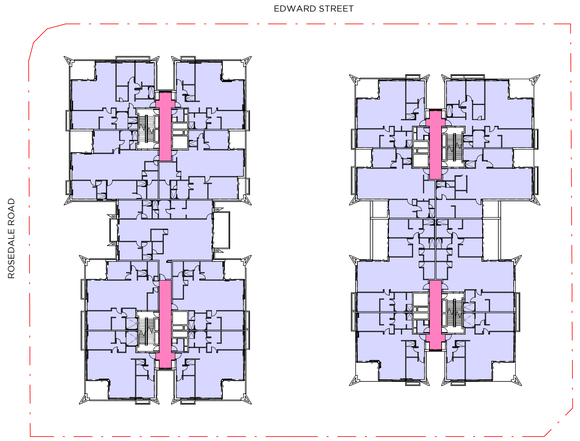


1 Level 0 - GFA Diagram
1:500

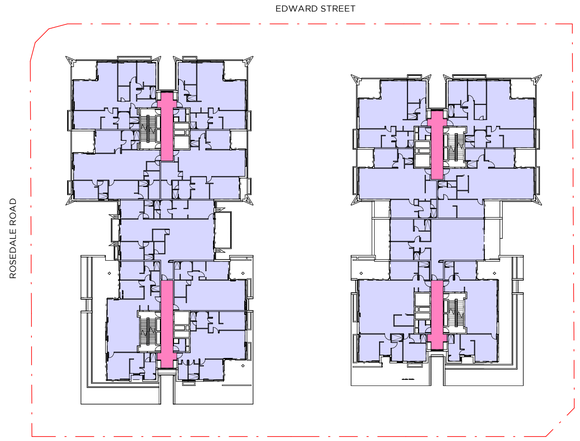


2 Level 1 - GFA Diagram
1:500

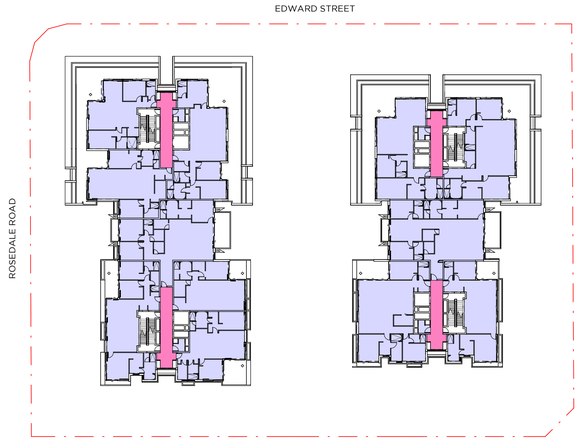
3 Level 2 - GFA Diagram
1:500



4 Level 3 - GFA Diagram
1:500



5 Level 4 - GFA Diagram
1:500



6 Level 5 - GFA Diagram
1:500

LEGEND:

- Site Boundary
- Units GFA
- Circulation GFA
- Carpark

Not for construction

0m 2 4 5m
Scale 1:100

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
B	04/03/26	SSDA Application	PMDL	
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CLIENT: CPDM

ADDRESS: 1 & 1a Edward St and 25 & 27 Rosedale Rd, Gordon

NAME: GFA Diagrams 1

PRO.#: 3304

SCALE: 1:500@ A1

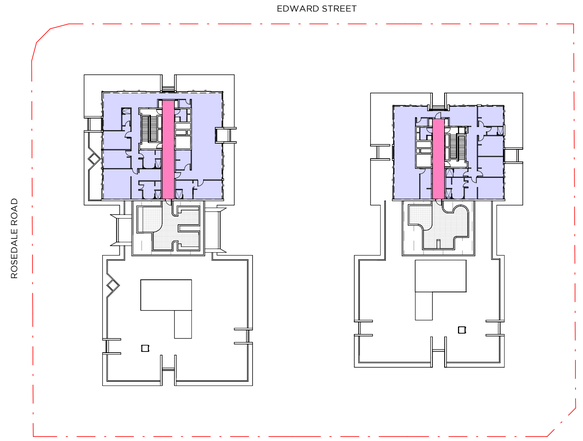
DA60.04

REV B

1 Level 6 - GFA Diagram
1:500

2 Level 7 - GFA Diagram
1:500

3 Level 8 - GFA Diagram
1:500



4 Level 9 - GFA Diagram
1:500

Total - GFA Schedule	
Level	**Area (m2)**
A.L0	427.18 m²
A.L1	1140.40 m²
A.L2	1138.25 m²
A.L3	1138.25 m²
A.L4	1022.70 m²
A.L5	855.28 m²
A.L6	853.56 m²
A.L7	853.56 m²
A.L8	852.74 m²
A.L9	289.99 m²

Total - GFA Schedule	
Level	**Area (m2)**
B.L0	346.26 m²
B.L1	914.03 m²
B.L2	1014.61 m²
B.L3	1014.51 m²
B.L4	890.50 m²
B.L5	739.19 m²
B.L6	738.73 m²
B.L7	738.73 m²
B.L8	738.63 m²
B.L9	224.27 m²
Grand total	15931.36 m²

Calculation Break up :

Units GFA	14,850.39 m²
Circulation GFA	1,080.97 m²

FSR Calculation

Total GFA	Site Area	FSR
15,931.36 m²	5,945.7 m²	2.68:1

LEGEND:

- Site Boundary
- Units GFA
- Circulation GFA
- Carpark

Not for construction

0m 2 4 5m
Scale 1:100

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ADDRESS
1 & 1a Edward St and 25 & 27
Rosedale Rd, Gordon

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GFA Diagrams 2

PRO.#
3304

SCALE
1:500@ A1

REV
DA60.05 B

Corner Edward St. & Rosedale Rd.

Not for construction

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Rosedale Rd, Gordon

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View Analysis

PROJ#
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SCALE

#
DA70.00

REV
B

Rosedale Rd. access

Not for construction

REV.	DATE	DESCRIPTION	ISSUED BY	CHECKED BY
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NAME: View Analysis

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SCALE:

#	REV
DA70.01	A

Edward St. access

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View Analysis

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SCALE

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DA70.02

REV
A

Internal Facade

Not for construction

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SCALE

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DA70.03

REV
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Internal Courtyard

Not for construction

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View Analysis

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SCALE

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REV A

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Rosedale Rd, Gordon

NAME
View Analysis

PROJ#
3304

SCALE

#
DA70.05

REV
A

APPENDIX B

Geotechnical Borehole Logs (Morrow Geotechnics)

morrow

Borehole No: BH101

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329288.73	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263608.52	**Logged By**	: Omkar Patil	**Project**	: Gordon
RL	: 121.60(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 15 m	**Date**	: 06/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Testing: SPT	Elevation / Depth (m)	Graphic Log	Material Type	Classification Code	Material Description	Depth (m)	Consistency	Weathering (XW DW HW MW SW F)	Moisture
Diatube				121.4		Non - Soil	CCT	Pavement Concrete 200 mm.	0.2			
Auger	GWNE	50mm PVC Solid	7,6,8 (N=14)	0.2 / 121.2		FILL	FILL	FILL SILTY CLAY: soft to firm, low plasticity, dark black, Trace fine sand, with fine gravel, w < pl, low resistance.	0.4	S - F		w < PL
				0.4		Residual	Cl	SILTY CLAY: stiff, medium plasticity, pale grey, trace fine gravel, w < pl, low resistance.	1	St		w < PL
			9,10,13 (N=23)	120.0 / 1.6		Residual	Cl	As above, but: very stiff, with xw shale bands, vl strength shale.	1.6 / 2	VSt		w < PL
				119.3 / 2.3		Rock	SHA	SHALE: highly weathered, very low to low strength, dark grey brown, very fine to fine grained, ironstained, with clay bands, low to medium resistance.	2.3	VLS - LS	HW	
				118.6 / 3				**Commenced Coring at 3 m**	3			

morrow

Borehole No: BH101

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329288.73	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263608.52	**Logged By**	: Omkar Patil	**Project**	: Gordon
RL	: 121.60(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 15 m	**Date**	: 06/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering (XW, DW, HW, MW, SW, F)	Testing: Is(50)	Estimated Strength (Very Low, Low, Med, High, Very High, Extremely High)	RQD% and TCR%	Defect Spacing (mm) (30, 100, 300, 1000, 3000)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
						Commenced Coring at 3m	1						
							2						
NMLC Coring		50mm PVC Slotted			CL	Core Loss.	3				RQD = 4% TCR = 55.56%		3-4.2, CORELOSS, °, °

morrow

Borehole No: BH101

UTM	**: 56H**	**Driller Rig**	**: Massenza Rig**	**Job Number**	**: P3585**
Easting	**: 329288.73**	**Driller Supplier**	**: Sytech Drilling Pty Ltd**	**Client**	**: Edwards St Residence DM Pty Ltd c/- CPDM**
Northing	**: 6263608.52**	**Logged By**	**: Omkar Patil**	**Project**	**: Gordon**
RL	**: 121.60(m)**	**Reviewed By**	**: Mark Peach**	**Location**	**: 1 Edward St, Gordon NSW 2072, Australia**
Total Depth	**: 15 m**	**Date**	**: 06/08/2025**	**Loc Comment**	**:**

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering	Testing: Is(50)	Estimated Strength	RQD% and TCR%	Defect Spacing (mm)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
NMLC Coring	Outflow - 0% - 5%	50mm PVC Slotted	117.4 / 4.2		CL	Core Loss. (continued)	4.2						4.2-4.38, CS, °, °
			4.2		SHA	SHALE: highly weathered, low to medium strength, dark grey brown, very fine to fine grained, ironstained, with clay bands.	5	HW	D:0.09 ; A:0.44		RQD = 4% TCR = 55.56%		4.39, P, 2°, °, PL, RO, OP 4.41-5, CS, °, ° 4.53, P, 2°, °, PL, RO, STN, OP 4.58, P, 2°, °, PL, RO, STN, OP 4.61, P, 2°, °, PL, RO, STN, OP 4.64, P, 2°, °, PL, RO, STN, OP 4.68, P, 2°, °, PL, RO, CT, OP 4.7, P, 2°, °, PL, RO, STN, OP 4.71, P, 2°, °, PL, RO, STN, OP 4.72, P, 2°, °, PL, RO, STN, OP 4.75, XWS, °, ° 4.75, XWS, °, ° 4.79, P, 2°, °, PL, RO, VN, OP 4.81-4.9, CS, 2°, °, STN 4.92, P, 2°, °, PL, RO, STN, OP 4.93, P, 2°, °, PL, RO, STN, OP 4.97-5.15, CS, °, ° 5.2, P, 2°, °, PL, RO, STN, OP 5.26-5.28, CS, °, ° 5.31-5.39, CS, °, ° 5.41, JT, 15°, °, PL, RO, STN, OP 5.42-5.7, CS, °, °
			115.9 / 5.73		CL	Core Loss.	5.73						5.73-6, CORELOSS, °, °
			115.6 / 6		SHA	SHALE: highly weathered, medium strength, dark grey brown, very fine to fine grained, ironstained, with clay bands.	6	HW					6.05-6.24, CS, °, °
							7				RQD = 13% TCR = 83.55%		6.27, P, 2°, °, PL, RO, STN, OP 6.29-6.32, SZ, °, ° 6.29, JT, 3°, °, PL, RO, STN, OP 6.35, JT, 10°, °, PL, RO, STN, OP 6.39-6.43, CS, °, ° 6.47, P, 2°, °, PL, RO, STN, OP 6.54, P, 3°, °, PL, RO, STN, OP 6.59-6.77, CS, °, ° 6.81, P, °, °, PL, RO, STN, OP 6.82, P, 2°, °, PL, RO, STN, OP 6.83, JT, 2°, °, PL, RO, STN, OP 6.86, P, 3°, °, PL, RO, STN, OP 6.88-6.91, XWS, °, ° 6.96-7.05, CS, °, ° 7.07-7.7, JT, 15°, °, PL, RO, STN, OP 7.1, JT, 3°, °, PL, RO, STN, OP 7.14-7.2, CS, °, ° 7.25-7.6, CORELOSS, °, °
			114.3 / 7.25		CL	Core Loss.	7.25						
			114.0 / 7.6		SHA	SHALE: highly weathered, medium strength, dark grey brown, very fine to fine grained, ironstained, with clay bands.	7.6	HW	D:0.10 ; A:0.39		RQD = 20% TCR = 77.03%		

morrow

Borehole No: BH101

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329288.73	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263608.52	**Logged By**	: Omkar Patil	**Project**	: Gordon
RL	: 121.60(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 15 m	**Date**	: 06/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering	Testing: Is(50)	Estimated Strength	RQD% and TCR%	Defect Spacing (mm)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
NMLC Coring	Outflow - 0% - 5%	50mm PVC Slotted	112.9 / 8.7		SHA	SHALE: highly weathered, medium strength, dark grey brown, very fine to fine grained, ironstained, with clay bands. (continued)	8.7	HW			RQD = 20% TCR = 77.03%		8.03, P, 5°, °, PL, RO, STN, OP 8.07, P, 3°, °, PL, RO, STN, OP 8.14, P, 2°, °, PL, RO, STN, OP 8.17, P, 3°, °, PL, RO, STN, OP 8.26, P, 2°, °, PL, RO, STN, OP 8.28, P, 2°, °, PL, RO, STN, OP 8.29, P, 3°, °, PL, RO, STN, OP 8.29, P, 2°, °, PL, RO, STN, OP 8.34-8.4, CS, °, ° 8.47, P, 3°, °, PL, RO, STN, OP 8.47, P, 3°, °, PL, RO, STN, OP 8.55-8.73, CS, °, °
					SHA	As above, but: moderately to slightly weathered, dark black, trace clay band.			D:0.73 ; A:0.99				8.79, JT, 2°, °, PL, RO, CL, OP
							9						9.06, P, 2°, °, PL, RO, CL, OP
													9.2, P, 3°, °, PL, RO, CL, OP
									D:0.35 ; A:1.22		RQD = 73% TCR = 100%		
					SHA			MW - SW					9.65-9.71, JT, 45°, °, PL, RO, CL, OP
							10						9.83-9.86, CS, °, ° 9.87-9.91, SZ, °, ° 9.97-10.05, JT, 45°, °, PL, SO, CL, OP 10.02-10.08, JT, 45°, °, PL, RO, CL, OP 10.09-10.18, CS, °, °
			111.0 / 10.56			LAMINITE: slightly weathered, medium to high strength, pale grey, very fine to fine grained, generally shale with embedded sandstone, with thinly embedded carbonaceous laminations.	10.56		D:0.85 ; A:1.01				10.29, P, 2°, °, PL, RO, CL, OP 10.31, P, 4°, °, PL, RO, CL, OP 10.38, P, 3°, °, PL, RO, CL, OP 10.41, P, 2°, °, PL, RO, CL, OP 10.51-10.54, CS, °, °
													10.71-10.72, P, °, °, PL, RO, CT, I
									D:0.97 ; A:1.89		RQD = 70% TCR = 100%		10.92, P, 2°, °, PL, RO, CL, OP
					LAM		11	SW					11.13, P, 3°, °, PL, RO, CL, OP
													11.41, P, 2°, °, PL, RO, CL, OP
													11.54, P, 3°, °, PL, RO, CL, OP
									D:0.47 ; A:0.91				11.63, P, 3°, °, RO, CL, OP 11.71, P, 2°, °, PL, RO, CL, OP
			109.8 / 11.79				11.79						
					LAM	As above, but: high strength, generally sandstone with embedded shale, with thinly embedded carbonaceous		MW	D:1.34 ; A:1.88		RQD = 87% TCR = 100%		

morrow

Borehole No: BH101

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329288.73	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263608.52	**Logged By**	: Omkar Patil	**Project**	: Gordon
RL	: 121.60(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 15 m	**Date**	: 06/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering (XW DW HW MW SW FR)	Testing: Is(50)	Estimated Strength (Very Low 0.1 Low 0.3 Med 1.0 High 3 Very High Extremely High)	RQD% and TCR%	Defect Spacing (mm) (30 100 300 1000 3000)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
NMLC Coring	Outflow - 0% - 5%	50mm PVC Slotted			LAM	As above, but: high strength, generally sandstone with embedded shale, with thinly embedded carbonaceous laminations. (continued)	13	MW	D:1.07 ; A:1.11		RQD = 87% TCR = 100%		13.7, P, 1°, °, PL, RO, CL, OP
									D:1.36 ; A:1.42				14.04, P, 2°, °, PL, VR, CL, OP 14.09, P, 2°, °, PL, VR, CL, OP 14.12, P, 2°, °, PL, VR, CL, OP
			107.8 13.8				13.8						
					SST	SANDSTONE: fresh weathered, high strength, pale grey, very fine to fine grained, with thinly embedded carbonaceous laminations.	14	F	D:0.90 ; A:1.13				14.34, P, 2°, °, PL, RO, CL, OP 14.36, P, 2°, °, PL, RO, CL, OP
													14.56, P, 2°, °, PL, SO, CL, OP
									D:1.47 ; A:1.34				
						BH101 Reached Target Depth at 15 m							

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Photo description	BH101 Box 1 of 3		
Client	Edwards St Residence DM Pty Ltd c/- CPDM		
Location	1 Edward St, Gordon NSW 2072, Australia		
Project name	Gordon		
Project No	P3585	**Scale**	Not to Scale
BH No	BH101	**BH Depth**	3m to 8 m

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Photo description	BH101 Box 2 of 3		
Client	Edwards St Residence DM Pty Ltd c/- CPDM		
Location	1 Edward St, Gordon NSW 2072, Australia		
Project name	Gordon		
Project No	P3585	**Scale**	Not to Scale
BH No	BH101	**BH Depth**	8m to 13m

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Photo description	BH101 Box 3 of 3		
Client	Edwards St Residence DM Pty Ltd c/- CPDM		
Location	1 Edward St, Gordon NSW 2072, Australia		
Project name	Gordon		
Project No	P3585	**Scale**	Not to Scale
BH No	BH101	**BH Depth**	13m to 15m

morrow

Borehole No: BH102

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329350.03	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263624.00	**Logged By**	: Omkar Patil / Omer Turkarslan	**Project**	: Gordon
RL	: 118.63(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9.17 m	**Date**	: 07/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Testing: SPT	Elevation / Depth (m)	Graphic Log	Material Type	Classification Code	Material Description	Depth (m)	Consistency	Weathering (XW DW HW MW SW F)	Moisture
Auger	GWNE	A; 50mm PVC Solid		118.4		TOPSOIL	CL - CI	SILTY CLAY: firm, low to medium plasticity, dark brown, Trace fine sand, trace fine to medium gravel, w < pl, with rootlets, low resistance.	0.2	F		w < PL
				0.2 / 118.0		Residual	CI - CH	SILTY CLAY: stiff, medium to high plasticity, dark brown, trace fine gravel, w < pl, low resistance.	0.6	St		w < PL
				0.6		Residual	CI - CH	As above, but: pale grey mottled red brown.	1	St		w < PL
			4,5,7 (N=12)									
				116.5 / 2.1		Residual	CI - CH	As above, but: low to medium resistance, with extremely weathered shale, with low strength shale bands.	2 / 2.1	St		w < PL
				116.3 / 2.3		Rock	SHA	SHALE: highly weathered, very low to low strength, pale grey mottled dark brown, very fine grained, high resistance, trace clay bands.	2.3	VLS - LS	HW	
			3,21,25 (N=46)						3			
								Commenced Coring at 3 m				

morrow

Borehole No: BH102

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329350.03	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263624.00	**Logged By**	: Omkar Patil / Omer Turkarslan	**Project**	: Gordon
RL	: 118.63(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9.17 m	**Date**	: 07/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering	Testing: Is(50)	Estimated Strength	RQD% and TCR%	Defect Spacing (mm)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
						Commenced Coring at 3m							
NMLC Coring		50mm PVC Slotted	115.3 / 3.34		SHA	SHALE: highly weathered, very low to low strength, pale grey mottled dark brown, very fine grained, high resistance, trace clay bands.	3						3.07, P, 2°, °, UN, RO, CL, OP 3.19, P, 5°, °, IR, RO, C 3.3-3.34, XWS, °, ° 3.34-3.76, CORELOSS, °, °
					CL	Core Loss.	3.34				RQD = 8% TCR = 69.29%		
			114.9 / 3.73		SHA	SHALE: highly weathered, very low to low strength, dark grey and dark brown, fine to medium grained, dry.	3.73	HW					3.76-4.7, XWS, °, °
			114.8 / 3.8		SHA	SHALE...Continued on next page	3.8	XW					

morrow

Borehole No: BH102

UTM	**: 56H**	**Driller Rig**	**: Massenza Rig**	**Job Number**	**: P3585**
Easting	**: 329350.03**	**Driller Supplier**	**: Sytech Drilling Pty Ltd**	**Client**	**: Edwards St Residence DM Pty Ltd c/- CPDM**
Northing	**: 6263624.00**	**Logged By**	**: Omkar Patil / Omer Turkarslan**	**Project**	**: Gordon**
RL	**: 118.63(m)**	**Reviewed By**	**: Mark Peach**	**Location**	**: 1 Edward St, Gordon NSW 2072, Australia**
Total Depth	**: 9.17 m**	**Date**	**: 07/08/2025**	**Loc Comment**	**:**

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering	Testing: Is(50)	Estimated Strength	RQD% and TCR%	Defect Spacing (mm)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
NMLC Coring	Outflow - 15% - 20%	50mm PVC Slotted	113.9 / 4.7		SHA	SHALE (XW): Sandy Silty Clay - hard, pale grey and mottled dark grey and dark brown, medium plasticity, fine grained sand, very low to low strength shale bands. (continued)	4.7	XW			RQD = 8% TCR = 69.29%		
			112.9 / 5.7		SHA	SHALE: highly weathered, low to medium strength, dark grey and mottled dark brown, fine grained, dry, ironstained.	5	HW			RQD = 0% TCR = 100%		4.77, P, 5°, °, IR, VR, CL, OP 4.83, P, °, °, IR, VR, CL, OP 4.88-5.11, P, °, °, IR, VR, STN, OP, crushed zone 5.11-5.16, JT, 75°, °, UN, RO, CL, OP 5.22-5.24, P, °, °, STP, VR, CL, OP 5.26-5.27, IS, °, °
			112.7 / 5.91		CL	Core Loss Core Loss.	5.7						5.39, P, 7°, °, UN, RO, CL, OP 5.4-5.7, XWS, °, °
			112.5 / 6.16		LAM	LAMINITE: highly weathered, low strength, dark grey and mottled dark brown, fine grained, dry, ironstained.	5.91						5.7-5.91, CORELOSS, °, °
	Outflow - 15% - 20%		112.1 / 6.5		LAM	As above, but: moderately to slightly weathered.	6	HW					5.95-5.97, IS, °, °
			112.0 / 6.64		LAM	As above, but: medium to high strength.	6.16	MW - SW					6.03, P, 3°, °, PL, RO, CL, OP 6.07, P, °, °, PL, RO, CL, OP 6.09, P, 3°, °, PL, RO, STN, OP 6.11, P, 5°, °, UN, VR, CL, OP 6.16, P, 5°, °, PL, SO, STN, OP 6.21-6.23, IS, °, ° 6.25-6.27, IS, °, ° 6.28-6.29, IS, °, ° 6.31, P, °, °, PL, SO, CL, OP 6.33, P, 3°, °, PL, SO, CL, OP 6.46, P, 2°, °, PL, SO, CL, OP 6.54, P, 3°, °, UN, SO, CL, OP 6.58, P, °, °, C 6.64, P, °, °, PL, SO, CL, OP
					LAM	As above, but: slightly to fresh weathered, dark grey and grey.	6.5	MW - SW	D:1.20 ; A:1.39		RQD = 44% TCR = 87.65%		
							6.64						
							7						7.09, P, 3°, °, PL, RO, CL, OP 7.21, P, 3°, °, PL, SO, CL, OP
					LAM			SW - F	D:0.95 ; A:1.67				7.3, P, °, °, PL, SO, CL, OP
											RQD = 46% TCR = 100%		7.85-8.67, JT, 70°, °, UN, RO, CL, OP 7.9, P, 5°, °, UN, RO, CL, OP

morrow

Borehole No: BH102

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329350.03	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263624.00	**Logged By**	: Omkar Patil / Omer Turkarslan	**Project**	: Gordon
RL	: 118.63(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9.17 m	**Date**	: 07/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering (XW DW HW MW SW FR)	Testing: Is(50)	Estimated Strength (Very Low 0.1 Low 0.3 Med 1.0 High 3 Very High 10 Extremely High)	RQD% and TCR%	Defect Spacing (mm) (30 100 300 1000 3000)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
NMLC Coring	Outflow - 15% - 20%	50mm PVC Slotted			LAM	As above, but: slightly to fresh weathered, dark grey and grey. (continued)		SW - F			RQD = 46% TCR = 100%		8.02, P, 5°, °, UN, RO, CL, OP 8.13, P, 5°, °, UN, RO, CL, OP 8.17, P, °, °, UN, RO, CL, OP 8.25, P, 10°, °, UN, VR, CL, OP 8.28, P, 2°, °, PL, SO, CL, OP
							9		D:1.07 ; A:3.42		RQD = 1% TCR = 100%		
						BH102 Reached Target Depth at 9.17 m							

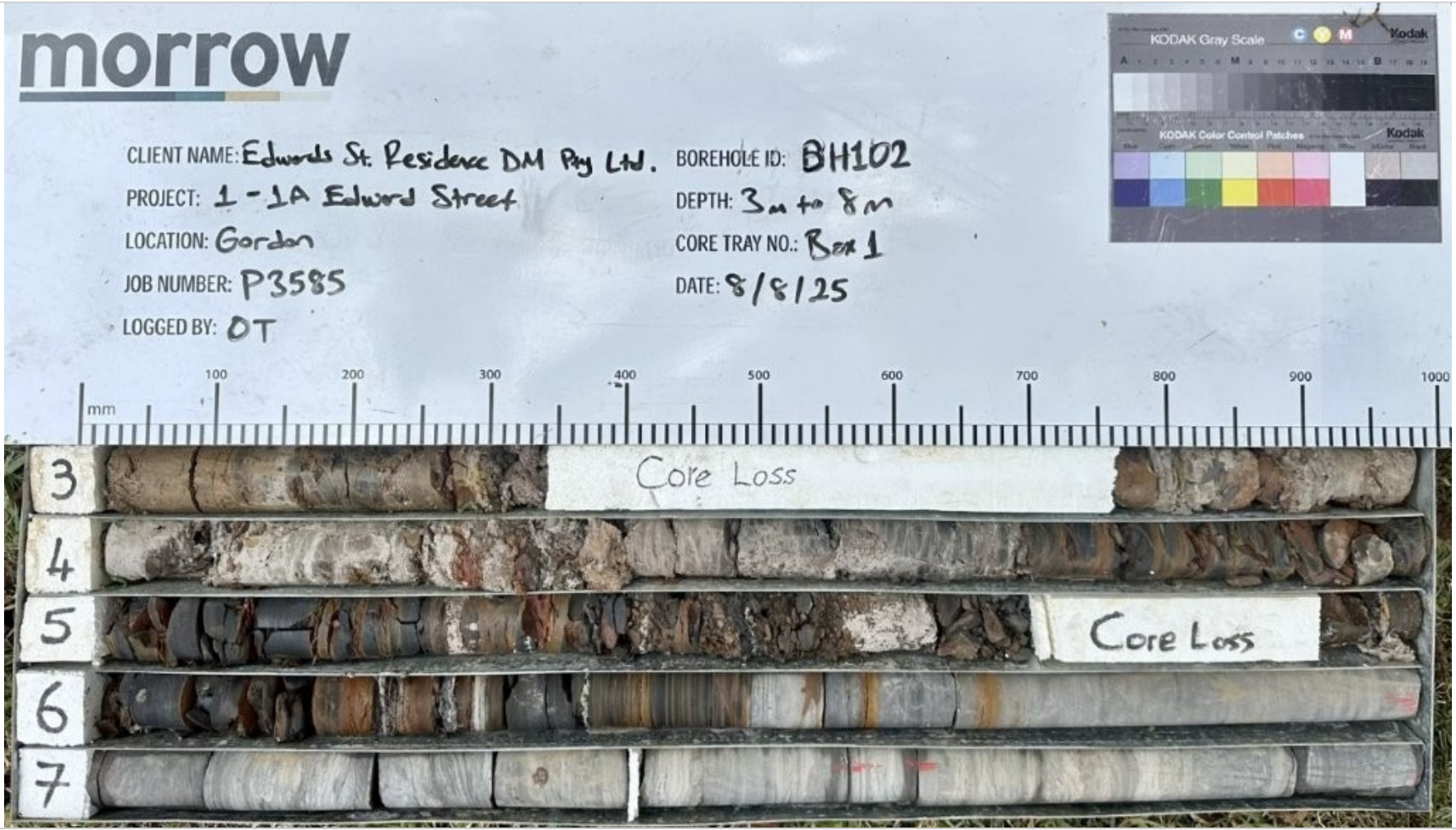

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Photo description	BH102 Box 1 of 2		
Client	Edwards St Residence DM Pty Ltd c/- CPDM		
Location	1 Edward St, Gordon NSW 2072, Australia		
Project name	Gordon		
Project No	P3585	**Scale**	Not to Scale
BH No	BH102	**BH Depth**	3m to 8m

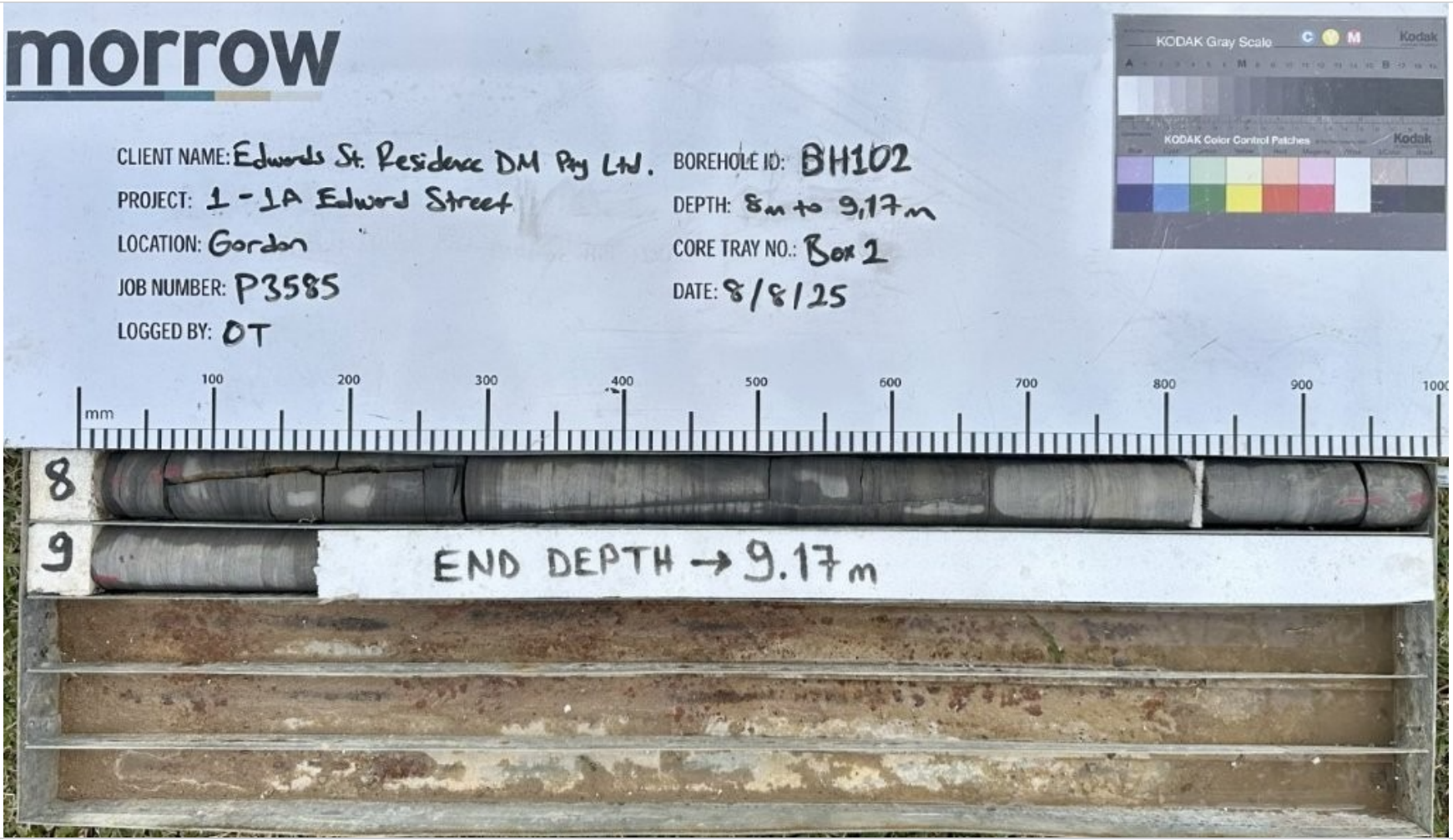

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Photo description	BH102 Box 2 of 2		
Client	Edwards St Residence DM Pty Ltd c/- CPDM		
Location	1 Edward St, Gordon NSW 2072, Australia		
Project name	Gordon		
Project No	P3585	**Scale**	Not to Scale
BH No	BH102	**BH Depth**	8m to 9.17m

morrow

Borehole No: BH103

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329355.28	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263600.17	**Logged By**	: Omkar Patil	**Project**	: Gordon
RL	: 118.90(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9 m	**Date**	: 07/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Testing	Elevation / Depth (m)	Graphic Log	Material Type	Classification Code	Material Description	Depth (m)	Consistency	Weathering (XW DW HW MW SW F)	Moisture
Diatube		A		118.8		Non - Soil	PAV	Pavement Pavers.	0.15			
Auger				0.15 118.6		FILL	FILL	FILL SILTY CLAY: soft, low plasticity, dark black, Trace fine sand, trace fine to medium gravel, w < pl, low resistance.	0.3	S		w < PL
	GWNE	50mm PVC Solid		0.3 117.3		Residual	Cl	SILTY CLAY: stiff to very stiff, medium plasticity, red brown, Trace fine sand, trace fine to medium gravel, w < pl, low resistance, with ironstone, with xw shale bands, with very low strength shale bands.	1	St - VSt		w < PL
		50mm PVC Slotted		1.6 115.1		Rock	SHA	SHALE: highly weathered, very low to low strength, pale grey mottled dark brown, very fine to fine grained, ironstained, with clay bands.	1.6 2 3	VLS - LS	HW	
				3.8		Rock	SHA	As above, but: low strength, dark brown, high resistance, with clay bands.	3.8	LS	HW	

morrow

Borehole No: BH103

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329355.28	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263600.17	**Logged By**	: Omkar Patil	**Project**	: Gordon
RL	: 118.90(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9 m	**Date**	: 07/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Testing	Elevation / Depth (m)	Graphic Log	Material Type	Classification Code	Material Description	Depth (m)	Consistency	Weathering (XW DW HW MW SW F)	Moisture
Auger		50mm PVC Slotted		114.8 / 4.1		Rock	SHA	As above, but: low strength, dark brown, high resistance, with clay bands. (continued)	4.1	LS	HW	
						Rock	SHA	As above, but: very low to low strength, low resistance, with clay bands.	5	VLS - LS	HW	
				113.3 / 5.6		Rock	SHA	As above, but: grey, moist to dry, medium to high resistance.	5.6	VLS - LS	HW	M - D
									6			
								Commenced Coring at 6 m				

morrow

Borehole No: BH103

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329355.28	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263600.17	**Logged By**	: Omkar Patil	**Project**	: Gordon
RL	: 118.90(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9 m	**Date**	: 07/08/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering	Testing: Is(50)	Estimated Strength	RQD% and TCR%	Defect Spacing (mm)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
						Commenced Coring at 6m							
NMLC Coring	Outflow - 0% - 5%	50mm PVC Slotted	112.7 / 6.2		SHA	As above, but: grey, moist to dry, medium to high resistance.	6						6-6.1, XWS, °, °
					SHA	SHALE: moderately weathered, low to medium strength, dark brown, very fine to fine grained, ironstained.	6.2	MW	D:0.29 ; A:0.43		RQD = 33% TCR = 100%		6.25, P, 2°, °, PL, RO, STN, OP 6.34, JT, 15°, °, CV, RO, STN, OP 6.43, P, 2°, °, PL, RO, STN, OP 6.5, P, 2°, °, PL, RO, STN, C 6.59, JT, 15°, °, PL, RO, STN, OP 6.59, P, 2°, °, PL, STN, C 6.67, JT, 2°, °, PL, RO, STN, OP 6.73, P, 2°, °, PL, RO, STN, OP
							7						6.91, P, 2°, °, PL, RO, STN, OP 6.95, P, 2°, °, PL, RO, STN, OP
			111.7 / 7.21				7.21						7.09, P, 2°, °, PL, RO, STN, OP 7.13, P, 3°, °, PL, RO, STN, OP 7.19, P, 2°, °, PL, RO, STN, OP
			111.6 / 7.27		CL	Core Loss.	7.27						7.21-7.27, CORELOSS, °, °
			111.5 / 7.42		SHA	SHALE: moderately weathered, medium strength, dark black, very fine to fine grained, ironstained.	7.42	MW			RQD = 40% TCR = 100%		7.29, JT, 2°, °, PL, RO, STN, OP 7.31, JT, 45°, °, UN, VR, STN, OP 7.35, P, 2°, °, PL, RO, STN, OP 7.36, P, 3°, °, PL, RO, STN, OP 7.37, P, 2°, °, PL, RO, STN, OP 7.4, P, 2°, °, PL, RO, STN, OP 7.41, P, 2°, °, PL, RO, STN, OP 7.42, P, 2°, °, PL, RO, STN, OP 7.48, P, 2°, °, PL, RO, STN, OP
					SST	SANDSTONE: highly weathered, medium strength, pale yellow, very fine to fine grained, iron stained, with carbonaceous laminations.		HW	D:0.56 ; A:0.80				7.52-7.54, JT, 90°, °, PL, RO, STN, OP 7.57, P, 2°, °, PL, RO, STN, OP 7.62, P, 2°, °, PL, RO, STN, OP
			111.0 / 7.89		SST	As above, but: moderately to slightly weathered, medium to	7.89	MW - SW					7.68, P, 2°, °, PL, RO, STN, OP 7.72, JT, 1°, °, PL, RO, STN, OP

morrow

Borehole No: BH103

UTM	**: 56H**	**Driller Rig**	**: Massenza Rig**	**Job Number**	**: P3585**
Easting	**: 329355.28**	**Driller Supplier**	**: Sytech Drilling Pty Ltd**	**Client**	**: Edwards St Residence DM Pty Ltd c/- CPDM**
Northing	**: 6263600.17**	**Logged By**	**: Omkar Patil**	**Project**	**: Gordon**
RL	**: 118.90(m)**	**Reviewed By**	**: Mark Peach**	**Location**	**: 1 Edward St, Gordon NSW 2072, Australia**
Total Depth	**: 9 m**	**Date**	**: 07/08/2025**	**Loc Comment**	**:**

Drilling Method	Water	Well Diagram	Elevation / Depth (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering (XW DW HW MW SW FR)	Testing: Is(50)	Estimated Strength (Very Low 0.1, Low 0.3, Medium 1.0, High 3, Very High, Extremely High)	RQD% and TCR%	Defect Spacing (mm) (30, 100, 300, 1000, 3000)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
NMLC Coring	Outflow - 0% - 5%	50mm PVC Slotted	110.4 / 8.5		SST	As above, but: moderately to slightly weathered, medium to high strength, pale grey mottled pale yellow, iron stained, trace infilled seams and carbonaceous laminations. (continued)		MW - SW			RQD = 40% TCR = 100%		8.02, JT, 2°, °, PL, RO, CL, OP 8.2-8.22, CS, °, ° 8.32-8.35, XWS, °, ° 8.38, P, °, °, PL, RO, STN, C 8.4, P, 2°, °, PL, RO, CT, OP 8.48, P, 2°, °, PL, RO, STN, OP 8.52, P, 2°, °, PL, RO, CL, OP 8.58, P, 3°, °, PL, RO, CL, OP
						As above, but: fresh weathered, high strength, pale grey, trace carbonaceous laminations.	8.5		D:0.69 ; A:1.02				
					SST			F			RQD = 100% TCR = 100%		
						BH103 Reached Target Depth at 9 m							

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Photo description	BH103 Box 1 of 1		
Client	Edwards St Residence DM Pty Ltd c/- CPDM		
Location	1 Edward St, Gordon NSW 2072, Australia		
Project name	Gordon		
Project No	P3585	**Scale**	Not to Scale
BH No	BH103	**BH Depth**	6m to 9m

morrow

Borehole No: BH104

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329342.10	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263592.79	**Logged By**	: Omer Turkarslan	**Project**	: Gordon
RL	: 118.98(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9.13 m	**Date**	: 08/08/2025	**Loc Comment**	:

Drilling Method	Water	Testing: SPT	Depth (m)	Elevation (m)	Material Type	Graphic Log	Classification Code	Material Description	Elevation / Depth (m)	Consistency/Density	Moisture
Auger	GWNE	3,4,16 (N=20) Bounced	1	118.0	TOPSOIL		CI - CH	SILTY SANDY CLAY: medium to high plasticity, dark brown, w < pl.	118.5		w < PL
					Residual		CH	SILTY CLAY: very stiff, high plasticity, brown and pale red, w < pl.	0.5 / 118.3	VSt	w < PL
					Residual		CH	As above, but: brown and pale red with slightly grey.	0.7 / 118.0	VSt	w < PL
			2	117.0	Rock		SHA	SHALE (XW): Silty Clay - hard, grey and dark brown, medium plasticity, iron stained with gravelly clay bands, low resistance.	0.95	H	M
			3	116.0							
				115.0							

morrow

Borehole No: BH104

UTM	**: 56H**	**Driller Rig**	**: Massenza Rig**	**Job Number**	**: P3585**
Easting	**: 329342.10**	**Driller Supplier**	**: Sytech Drilling Pty Ltd**	**Client**	**: Edwards St Residence DM Pty Ltd c/- CPDM**
Northing	**: 6263592.79**	**Logged By**	**: Omer Turkarslan**	**Project**	**: Gordon**
RL	**: 118.98(m)**	**Reviewed By**	**: Mark Peach**	**Location**	**: 1 Edward St, Gordon NSW 2072, Australia**
Total Depth	**: 9.13 m**	**Date**	**: 08/08/2025**	**Loc Comment**	**:**

Drilling Method	Water	Testing: SPT	Depth (m)	Elevation (m)	Material Type	Graphic Log	Classification Code	Material Description	Elevation / Depth (m)	Consistency/Density	Moisture
Auger			5	114.0	Rock		SHA	SHALE (XW): Silty Clay - hard, grey and dark brown, medium plasticity, iron stained with gravelly clay bands, low resistance. (continued)	113.2	H	M
				113.0	Rock		SHA	SHALE: highly weathered, very low to low strength, grey slightly pale red and pale brown, fine to medium grained, low to medium resistance.	5.8 113.0	VLS - LS	
								Commenced Coring at 6 m	6		

morrow

Borehole No: BH104

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329342.10	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263592.79	**Logged By**	: Omer Turkarslan	**Project**	: Gordon
RL	: 118.98(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9.13 m	**Date**	: 08/08/2025	**Loc Comment**	:

Drilling Method	Water	Depth. (m)	Elevation (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering	Testing Is(50)	Estimated Strength	RQD% and TCR%	Defect Spacing (mm)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
		4.50	114.5				4.50						
		5	114.0				5						
		5.50	113.5				5.50						
						Commenced Coring at 6 m							
NMLC Coring	7.00 m Outflow - 0% - 5%	6	113.0		SHA	SHALE: highly weathered, very low to low strength, grey brown red, fine grained, dry, iron stained with extremely weathered and crushed seams.	6	HW			RQD = 9% TCR = 100%		6-6.09, XWS, °, °
		6.50	112.5				6.50						6.15-6.22, CRF, °, °
													6.3-6.42, CRF, °, °
													6.43-6.45, JT, 30°, °, CV, RO, STN
													6.45-6.49, P, °, °, UN, RO, VR, CL, OP, 6.45 , 6.47 , 6.49 bedding parting
													6.52-6.57, IS, °, °
													6.62, P, 3°, °, UN, RO, CL, OP
													6.64-6.68, IS, °, °
													6.75, P, °, °, UN, VR, STN, OP
							6.88						6.78-6.83, JT, 70°, °, UN, RO, CL, OP
		7	112.0			As above, but: moderately weathered, medium strength, grey and slightly pale brown.	7		D:0.31 ; A:0.52				6.78-6.8, P, °, °, UN, RO, CL, OP, crushed bedding partings between start -end points
					SHA			MW					6.83-6.88, XWS, °, °
													6.95, P, 5°, °, UN, RO, CL, OP
									D:0.69 ; A:0.68				7.08, P, 10°, °, IR, VR, CL, OP
													7.2, P, 3°, °, UN, RO, CL, OP
							7.4						7.33, P, 3°, °, UN, RO, CL, OP
		7.50	111.5			As above, but: slightly to fresh weathered, medium strength, grey.	7.50				RQD = 88% TCR = 100%		7.35-7.39, P, °, °, IR, VR, CL, OP, Crushed bedding partings between the points
					SHA			SW - F					7.41, P, 5°, °, UN, RO, CL, OP
							7.9						
					LAM	LAMINITE: slightly to fresh Continued on next page		SW - F					

morrow

Borehole No: BH104

UTM	: 56H	**Driller Rig**	: Massenza Rig	**Job Number**	: P3585
Easting	: 329342.10	**Driller Supplier**	: Sytech Drilling Pty Ltd	**Client**	: Edwards St Residence DM Pty Ltd c/- CPDM
Northing	: 6263592.79	**Logged By**	: Omer Turkarslan	**Project**	: Gordon
RL	: 118.98(m)	**Reviewed By**	: Mark Peach	**Location**	: 1 Edward St, Gordon NSW 2072, Australia
Total Depth	: 9.13 m	**Date**	: 08/08/2025	**Loc Comment**	:

Drilling Method	Water	Depth. (m)	Elevation (m)	Graphic Log	Classification Code	Material Description	Depth (m)	Weathering	Testing: Is(50)	Estimated Strength	RQD% and TCR%	Defect Spacing (mm)	Defect Description (type, inclination, planarity, roughness, coating, thickness)
NMLC Coring		8.50	110.5		LAM	LAMINITE: slightly to fresh weathered, medium to high strength, grey pale grey, fine to medium grained, sub - horizontal shale laminations. (continued)	8.50	SW - F	D:0.87 ; A:3.67		RQD = 88% TCR = 100%		8.3, P, 10°, °, UN, VR, CL, OP
					SST	SANDSTONE: fresh weathered, medium to high strength, pale grey, fine to medium grained, dry, generally massive.	8.75	F	D:0.66 ; A:1.38		RQD = 100% TCR = 100%		8.71, P, 5°, °, UN, VR, STN, OP 8.73-8.75, P, °, °, IR, VR, STN, OP, crushed bedding partings
		9	110.0			**BH104 Reached Target Depth at 9.13 m**	9						

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Photo description	BH104 Box 1 of 1		
Client	Edwards St Residence DM Pty Ltd c/- CPDM		
Location	1 Edward St, Gordon NSW 2072, Australia		
Project name	Gordon		
Project No	P3585	**Scale**	Not to Scale
BH No	BH104	**BH Depth**	6m to 9.13m

morrow

Borehole No: BH105

UTM	**: 56H**	**Driller Rig**	**: Hand Auger**	**Job Number**	**: P3585**
Latitude	**: -33.75430**	**Driller Supplier**	**: MG**	**Client**	**: Edwards St Residence DM Pty Ltd c/- CPDM**
Longitude	**: 151.15751**	**Logged By**	**: Omer Turkarslan**	**Project**	**: Gordon**
Elevation	**: 117(m)**	**Reviewed By**	**: Mark Peach**	**Location**	**: 1 Edward St, Gordon NSW 2072, Australia**
Total Depth	**: 2.45 m**	**Date**	**: 08/08/2025**	**Loc Comment**	**:**

Drilling Method	Water	Testing DCP	Elevation / Depth (m)	Material Type	Graphic Log	Classification Code	Material Description	Depth (m)	Consistency	Weathering (XW DW HW MW SW F)	Moisture
Hand Auger			116.8	TOPSOIL		CL - CI	SILTY CLAY: soft to firm, low to medium plasticity, dark brown, Trace fine sand, trace fine to medium gravel, w < pl, low resistance, with rootlets.	0.2	S - F		w < PL
		1	0.2	FILL		FILL	FILL firm to stiff, low to medium plasticity, orange mottled brown, Trace fine sand, w < pl, low to medium resistance.		F - St		w < PL
		2									
		3									
		3						0.50			
		5									
		4									
		4									
		3									
		5						1			
			115.9					1.1			
		15	1.1	FILL		FILL	As above, but: with fine to medium gravel.				w < PL
		10									
		13									
	▶	7						1.50			
		5									
		4									
			115.3					1.7			
		5	1.7	Residual		CI - CH	SILTY CLAY: very stiff to hard, medium to high plasticity, orange red mottled, w = pl, with ironstone bands, with extremely weathered shale bands, with very low to low strength shale bands.		VSt - H		w ≈ PL
		6						2			
		7									
		10									
		10									
		10									
		12									
		11									
		9					**BH105 Refusal at 2.45 m**				
		16									
		+25									

APPENDIX C

Lotsearch Report

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 30 Jul 2025 11:40:08

Reference: LS089557 EP

Address: 1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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	24/06/2025	24/06/2025	Monthly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	20/05/2025	20/05/2025	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority NSW	15/07/2025	08/07/2025	Monthly	1000m	0	0	3
Contaminated Land Records of Notice	Environment Protection Authority NSW	15/07/2025	15/07/2025	Monthly	1000m	0	0	2
Former Gasworks	Environment Protection Authority NSW	20/05/2025	15/05/2025	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority NSW	30/06/2025	30/06/2025	Monthly	1000m	0	0	1
National Waste Management Facilities Database	Geoscience Australia	30/05/2025	19/01/2023	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	16/10/2024	19/01/2023	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority NSW	30/06/2025	05/02/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	15/07/2025	15/07/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	15/07/2025	15/07/2025	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	15/07/2025	21/05/2025	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	15/07/2025	15/07/2025	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	11/06/2025	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Australian Department of Defence	15/07/2025	15/07/2025	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority NSW	28/11/2024	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority NSW	24/07/2025	24/07/2025	Monthly	1000m	0	0	1
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority NSW	24/07/2025	24/07/2025	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority NSW	24/07/2025	24/07/2025	Monthly	1000m	0	0	3
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	3	4
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	0	1
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	66
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	8
Points of Interest	NSW Department of Customer Service - Spatial Services	19/05/2025	19/05/2025	Quarterly	1000m	0	1	56
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/05/2025	19/05/2025	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/05/2025	19/05/2025	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	20/05/2025	20/05/2025	Quarterly	1000m	0	0	4
State Forest	Forestry Corporation of NSW	18/12/2024	11/11/2024	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Geoscience Australia	22/04/2025	19/08/2019	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024	NSW Department of Climate Change, Energy, the Environment and Water	13/05/2025	28/06/2024	Quarterly	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	30/05/2025	04/03/2025	Annually	2000m	0	0	13
NSW Seamless Geology Single Layer: Rock Units	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	1	1	2
NSW Seamless Geology Single Layer: Geological Boundaries and Faults	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	0	0	0
NSW Seamless Geology Single Layer: Trendlines	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	0	0	0
NSW Seamless Geology Single Layer: Fold Axes	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Department of Primary Industries and Regional Development	05/05/2025	30/09/2015	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	15/01/2025	17/02/2011	Annually	1000m	1	1	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Climate Change, Energy, the Environment and Water	18/12/2024	27/07/2020	Annually	1000m	2	3	3
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Housing and Infrastructure	26/06/2025	09/05/2025	Monthly	500m	1	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	15/01/2025	21/02/2013	Annually	1000m	1	1	1
Dryland Salinity - National Assessment	Australian Bureau of Agricultural and Resource Economics and Sciences	03/06/2025	15/04/2025	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service	20/05/2025	20/05/2025	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Primary Industries and Regional Development	09/07/2025	09/07/2025	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Primary Industries and Regional Development	09/07/2025	09/07/2025	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Primary Industries and Regional Development	09/07/2025	09/07/2025	Monthly	1000m	11	11	15
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Housing and Infrastructure	26/06/2025	08/09/2023	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Housing and Infrastructure	26/06/2025	13/06/2025	Monthly	1000m	1	1	85
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	1000m	1	1	1
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	20/05/2025	21/03/2025	Quarterly	1000m	0	0	6
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Housing and Infrastructure	26/06/2025	13/06/2025	Monthly	1000m	1	10	122
Bush Fire Prone Land	NSW Rural Fire Service	24/06/2025	23/06/2025	Monthly	1000m	0	0	3
NSW Native Vegetation Type Map	NSW Department of Climate Change, Energy, the Environment and Water	28/05/2025	04/10/2024	Quarterly	1000m	1	4	44
Ramsar Wetlands of Australia	Australian Department of Climate Change, Energy, the Environment and Water	19/05/2025	05/03/2025	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	19/06/2024	Annually	1000m	0	0	0

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

Site Diagram

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 5996m²

Total Perimeter: 307m

Scale: 0 15 30 Meters

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

Disclaimers:

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

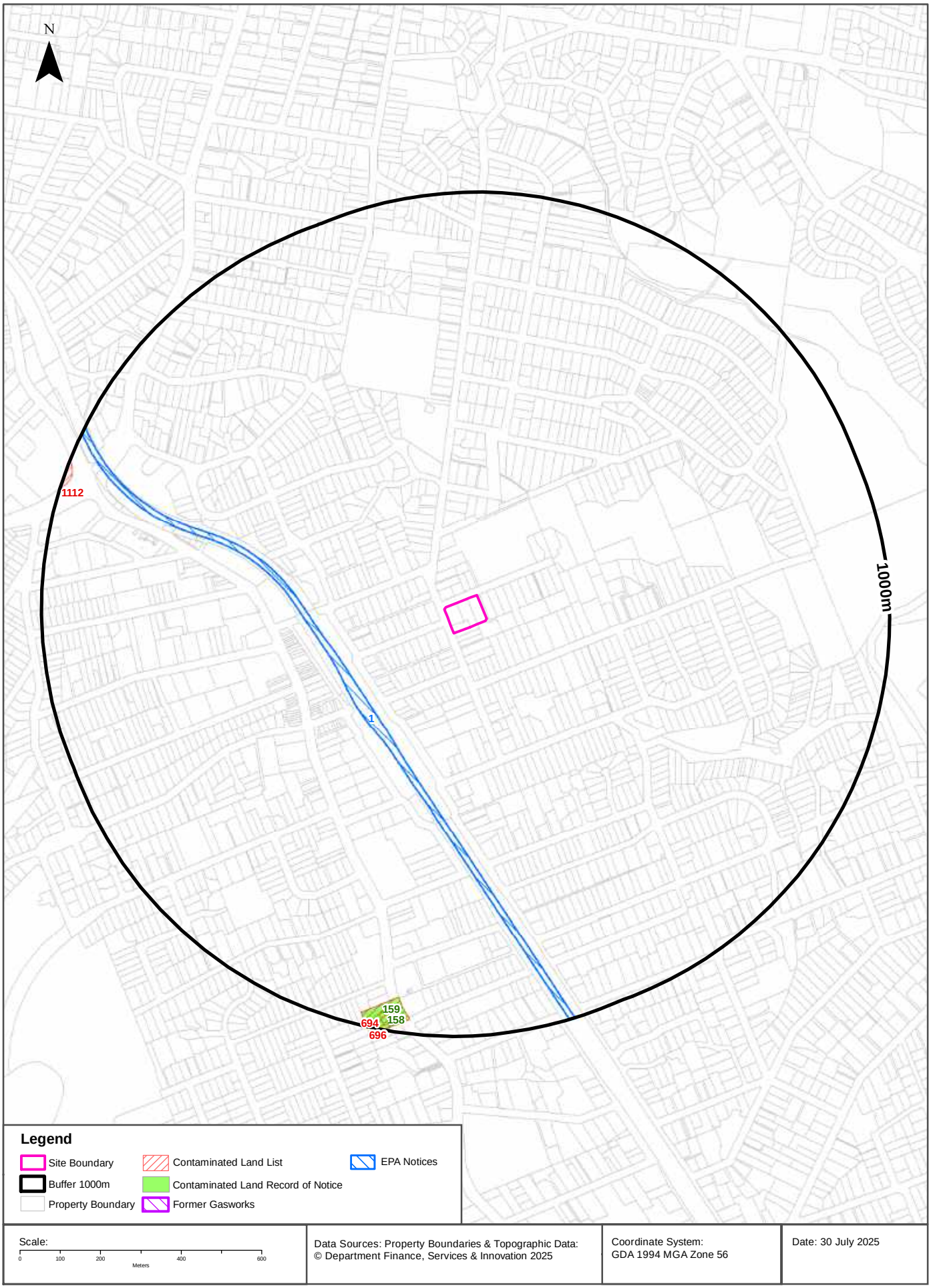
Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Coordinate System: GDA 1994 MGA Zone 56

Date: 30 July 2025

Contaminated Land

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Contaminated Land

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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
696	Land Adjacent to Former Service Station Site	684-684a, 690, 692 and 696 Pacific Highway	Killara	Service Station	Contamination formerly regulated under the CLM Act	Current EPA List	Premise Match	914m	South
694	Former Caltex Service Station	692B-694 Pacific Highway	Killara	Service Station	Contamination formerly regulated under the CLM Act	Current EPA List	Premise Match	945m	South
1112	Former 3M site	950 Pacific Highway	Pymble	Gasworks	Regulation under CLM Act not required	Current EPA List	Premise Match	983m	West

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

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

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
159	Land adjacent to Former Service Station Site	684-684a, 690, 692 and 696 Pacific Highway	Killara	22 former	3349	Premise Match	914m	South
158	Former Caltex Service Station	692B-694 Pacific Highway	Killara	1 former	3343	Premise Match	945m	South

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

EPA Notices

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

Map ID	Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
1	3173530755	Penalty Notice	SYDNEY TRAINS	SYDNEY TRAINS, HAYMARKET, NSW 1238	Issued	10/11/2021	Protection of the Environment Operations Act 1997 - 64(1)	Contravene condition of licence - Corporation	31/05/2021	Network of Features	273m	South West

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

Waste Management & Liquid Fuel Facilities

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

National Waste Management Facilities Database

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

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

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

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

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

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

PFAS Investigation & Management Programs

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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:

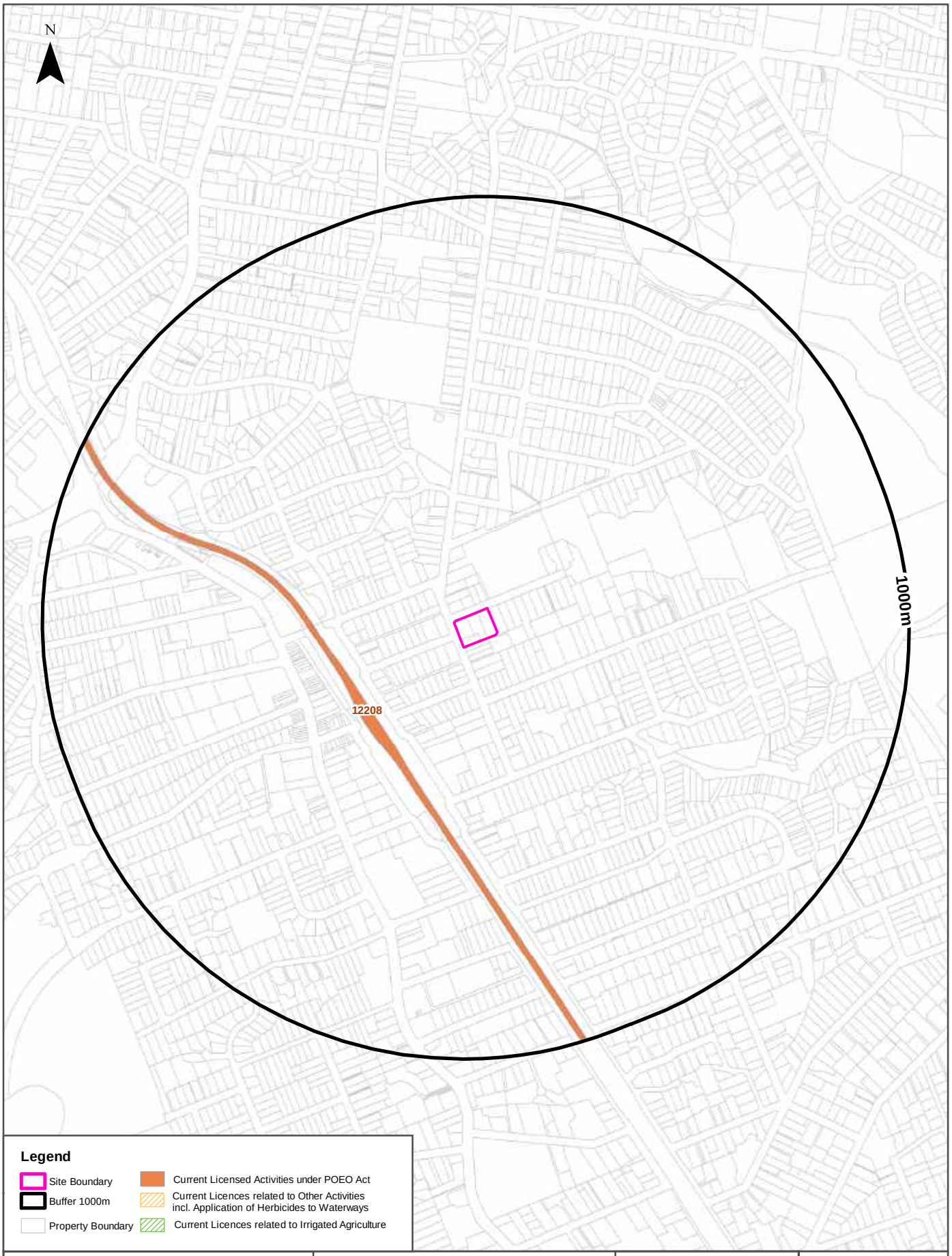
Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



EPA Activities

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Licensed Activities under the POEO Act 1997

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

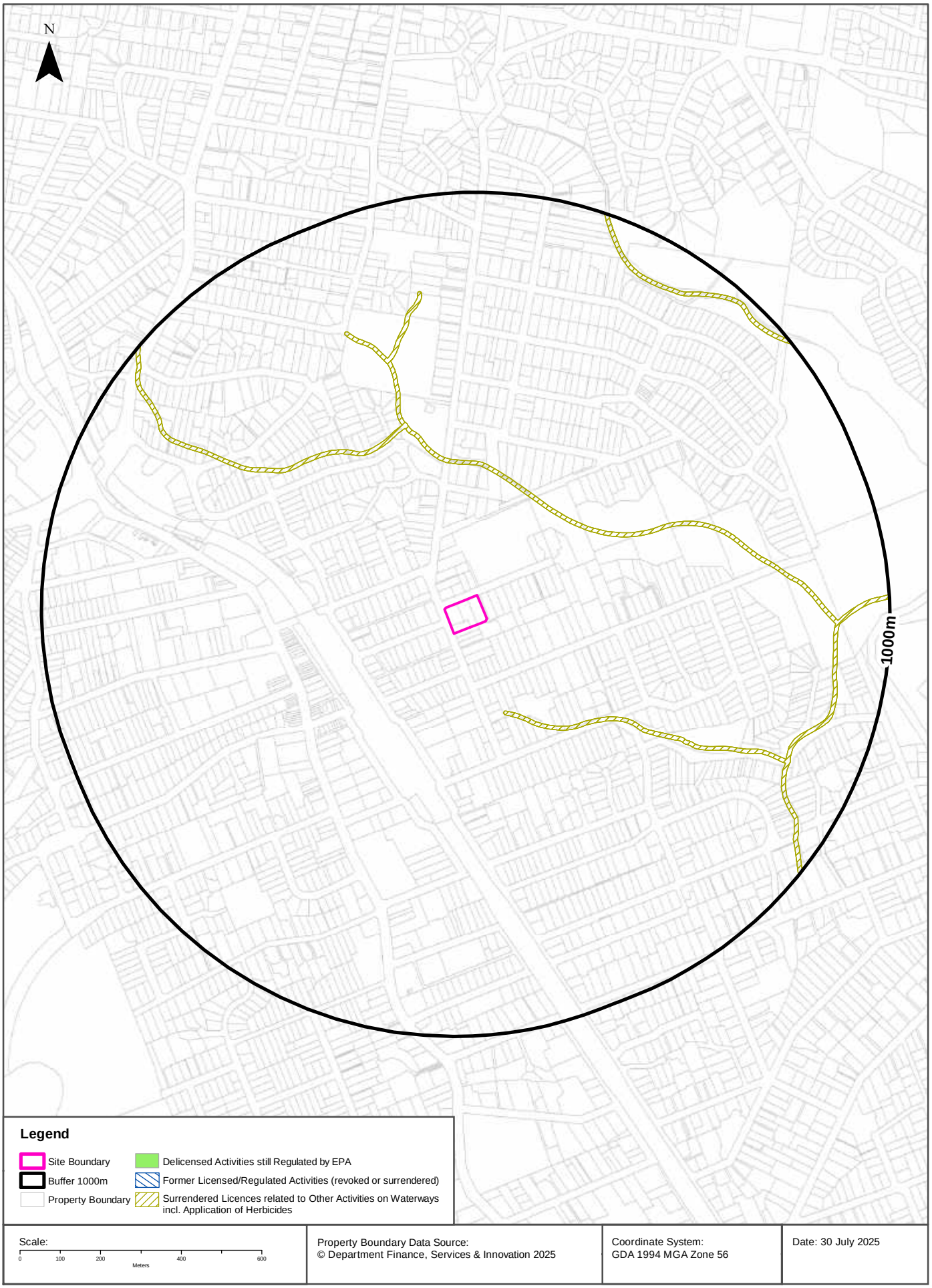
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
12208	SYDNEY TRAINS		SYDNEY TRAINS, HAYMARKET, NSW 1238		Railway systems activities	Network of Features	273m	South West

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



EPA Activities

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Delicensed Activities still regulated by the EPA

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

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

Delicensed Activities Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

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

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

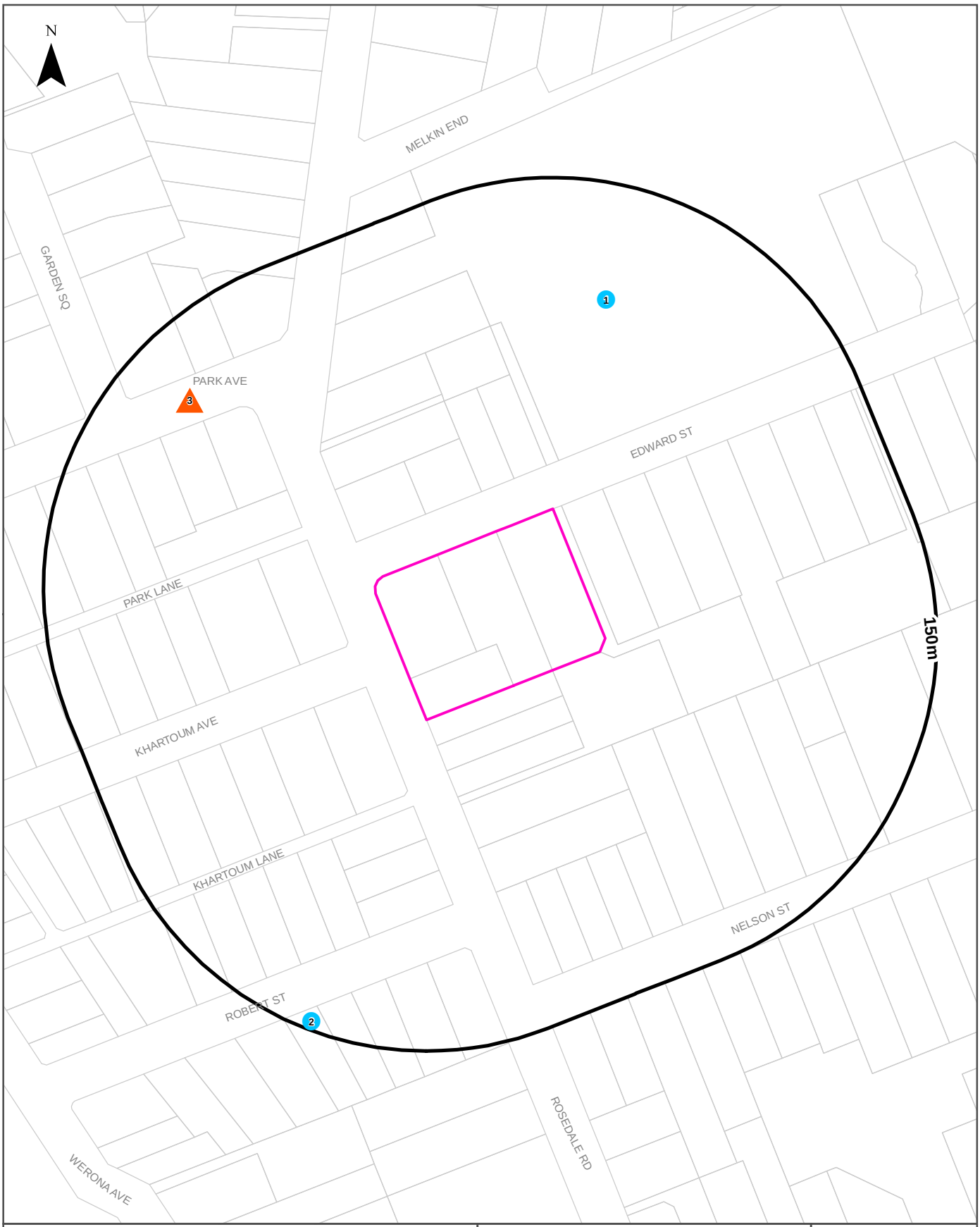
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	225m	North East
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	225m	North East
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	225m	North East

Former Licensed Activities Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Historical Business Directories

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Legend

- Site Boundary
- Buffer 150m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 30 60 90 120 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 30 July 2025

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018
Property Boundaries © NSW Department Finance, Services & Innovation 2025

Historical Business Directories

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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	Homes & Institutions	Lady Gowrie Red Cross Convalescent Home, 10 Edward St., Gordon	100558	1965	Premise Match	22m	North
	Hospitals - Public	Lady Gowrie Red Cross Convalescent Home, 10 Edward St., Gordon	101097	1965	Premise Match	22m	North
	HOMES & INSTITUTIONS	Lady Gowrie Red Cross Convalescent Home, 10 Edward St., Gordon	324476	1961	Premise Match	22m	North
2	VACUUM CLEANER SALES & SERVICE	Margetts, P. E., 9 Robert St., Gordon	111451	1950	Premise Match	139m	South West

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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
3	CARRIERS & CARTAGE CONTRACTORS	Hellies, M. F., Park Ave., Gordon	19013	1950	Road Match	101m

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Dry Cleaners, Motor Garages & Service Stations

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Legend

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

Scale: 0 90 180 270 360 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 30 July 2025

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018
Property Boundaries © NSW Department Finance, Services & Innovation 2025

Historical Business Directories

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Dry Cleaners, Motor Garages & Service Stations 1948-1993 Premise or Road Intersection Matches

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

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

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	DRY CLEANERS, PRESSERS/DYERS.	Washington Dry Cleaners., 14 St. Johns Ave., Gordon	24958	1962	Premise Match	377m	South West
	DRY CLEANERS, PRESSERS / DYERS	Washington Dry Cleaners, 14 St. Johns Ave., Gordon	299314	1961	Premise Match	377m	South West
	DRY CLEANERS, PRESSERS/DYERS	Washington Dry Cleaners., 14 St Johns Ave Gordon	13302	1959	Premise Match	377m	South West
	DRY CLEANERS, PRESSERS & DYERS	Washington Dry Cleaners., 14 St Johns Ave Gordon	424	1958	Premise Match	377m	South West
2	DRY CLEANERS & PRESSERS.	Mark Mayne, 733 Pacific Hghwy, Gordon. 2072	53200	1988	Premise Match	379m	South West
	DRY CLEANERS & PRESSERS.	Mark Mayne, 733 Pacific H'way., Gordon. 2072	25426	1986	Premise Match	379m	South West
	DRY CLEANERS & PRESSERS.	Mark Mayne., 733 Pacific Hghwy, Gordon. 2072	34646	1985	Premise Match	379m	South West
	DRY CLEANERS & PRESSERS.	Mark Mayne, 733 Pacific Hghwy, Gordon. 2072	22093	1984	Premise Match	379m	South West
	DRY CLEANERS & PRESSERS.	Mark Mayne., 733 Pacific H'way., Gordon 2072	8689	1983	Premise Match	379m	South West
	DRY CLEANERS & PRESSERS.(D8500)	Mark Mayne, 733 Pacific H'way., Gordon. 2072.	23957	1982	Premise Match	379m	South West
	DRY CLEANERS & PRESSERS.	Mark Mayne., 733 Pacific H'way., Gordon. 2072	63446	1981	Premise Match	379m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Mayne Mark., 733 Pacific H'way., Gordon 2072	23695	1976	Premise Match	379m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Mayne, Mark, 733 Pacific H'way, Gordon. 2072	24220	1975	Premise Match	379m	South West
3	DRY CLEANERS & PRESSERS.	Gordon Valet Service, 770 Pacific Hghwy, Gordon. 2072	53096	1988	Premise Match	425m	South West
	DRY CLEANERS & PRESSERS.	Gordon Valet Service, 770 Pacific H'way., Gordon. 2072	25322	1986	Premise Match	425m	South West
	DRY CLEANERS & PRESSERS.	Gordon Valet Service, 770 Pacific Hghwy, Gordon. 2072	34540	1985	Premise Match	425m	South West
	DRY CLEANERS & PRESSERS.	Gordon Valet Service, 770 Pacific Hghwy, Gordon. 2072	21988	1984	Premise Match	425m	South West
	DRY CLEANERS & PRESSERS.	Gordon Valet Service., 770 Pacific H'way Gordon 2072	8579	1983	Premise Match	425m	South West
	DRY CLEANERS & PRESSERS.(D8500)	Gordon Valet Service, 770 Pacific H'way., Gordon. 2072.	23856	1982	Premise Match	425m	South West
	DRY CLEANERS & PRESSERS.	Gordon Valet Service., 770 Pacific H'way., Gordon. 2072	63340	1981	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Gordon Valet Service., 770 Pacific Highway., Gordon. 2072	46770	1980	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Gordon Valet Service., 770 Pacific Highway., Gordon. 2072.	35368	1979	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS	Gordon Valet Service, 770 Pacific H'way., Gordon. 2072	20793	1978	Premise Match	425m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
3	DRY CLEANERS, PRESSERS &/OR DYERS.	Gordon Valet Service., 768 Pacific H'way., Gordon 2072	23532	1976	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Gordon Valet Service, 768 Pacific H'way, Gordon. 2072	24057	1975	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Gordon Valet Service., 770 Pacific Hghwy., Gordon	2919	1972	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS	Gordon Valet Service., 770 Pacific Hghwy., Gordon	51070	1971	Premise Match	425m	South West
	DRY CLEANERS,PRESSERS /DYERS (D710)	Gordon Valet Service., 770 Pacific Highway., Gordon	292321	1970	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS/ DYERS	Gordon Valet Service., 770 Pacific Hghwy., Gordon	37126	1969	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS/DYERS	Gordon Valet Service., 770 Pacific Hghwy., Gordon	20586	1968	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS/ DYERS	Gordon Valet Service., 770 Pacific Hghwy Gordon	6142	1967	Premise Match	425m	South West
	DRY CLEANERS, PRESSERS/ DYERS	Gordon Valet Service., 770 Pacific Hghwy., Gordon	52670	1966	Premise Match	425m	South West
	Dry Cleaners, Pressers/Dyers	Gordon Valet Service, 770 Pacific Highway., Gordon	76176	1965	Premise Match	425m	South West
4	DRY CLEANERS, PRESSERS &/OR DYERS.	Lindfield Laundry., 764 Pacific H'way., Gordon 2072	23655	1976	Premise Match	430m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Lindfield Laundry, 764 Pacific H'way., Gordon. 2072	24180	1975	Premise Match	430m	South West
	DRY CLEANERS, PRESSERS & DYERS	Lindfield Laundry and Dry Cleaners Pty. Ltd. 764 Pacific Highway., Gordon	35415	1950	Premise Match	430m	South West
	DRY CLEANERS, PRESSERS & DYERS.	Lindfield Laundry And Dry Cleaners Pty. Ltd., 764 Pacific Hghwy., Gordon	17278	1948-49	Premise Match	430m	South West
5	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Radford Motors Pty. Ltd., 810 Pacific H'way., Gordon 2072	21448	1983	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Radford Motors Pty. Ltd., 810 Pacific H'way, Gordon. 2072.	57435	1982	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Radford Motors Pty Ltd., 810 Pacific H'way., Gordon 2072	3978	1981	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Radford Motors Pty. Ltd., 810 Pacific H'way., Gordon. 2072	58714	1980	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Radford Motors Pty. Ltd., 810 Pacific Highway., Gordon. 2072.	46210	1979	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Radford Motors Pty. Ltd., 810 Pacific H'way, Gordon. 2072	50713	1978	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Radford Motors Pty. Ltd., 810 Pacific H'way., Gordon 2072	34780	1976	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS.	Radford Motors Pty. Ltd., 810 Pacific H'way, Gordon. 2072	59437	1975	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS.	Radford Motors Pty. Ltd., 810 Pacific Hghwy., Gordon	12234	1972	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS.	Radford Motors Pty. Ltd., 810 Pacific Hghwy., Gordon	56846	1971	Premise Match	435m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	MOTOR GARAGES & ENGINEERS(M6S6)	Radford Motors Pty. Ltd., 810 Pacific Highway., GORDON	338472	1970	Premise Match	435m	West
	MOTOR GARAGES & ENGINEERS.	Radford Motors Pty. Ltd., 810 Pacific Hghwy, Gordon	42261	1969	Premise Match	435m	West
	MOTOR GARAGES & ENGINEERS	Radford Motors Pty. Ltd., 810 Pacific Hghwy., Gordon	25782	1968	Premise Match	435m	West
	MOTOR GARAGES & ENGINEERS.	Radford Motors Pty. Ltd., 810 Pacific Hghwy., Gordon	10285	1967	Premise Match	435m	West
	MOTOR GARAGES & ENGINEERS.	Radford Motors Pty. Ltd., 810 Pacific Hghway., Gordon	56176	1966	Premise Match	435m	West
	Motor Garages & Engineers	Radford Motors Pty. Ltd., 810 Pacific Highway. Gordon	122709	1965	Premise Match	435m	West
	MOTOR GARAGES & ENGINEERS	Radford Motors Pty. Ltd., 810 Pacific Highway Gordon	47974	1964	Premise Match	435m	West
	MOTOR GARAGES & ENGINEERS.	Radford Motors Pty. Ltd., 810 Pacific Hghwy., Gordon	29495	1962	Premise Match	435m	West
	MOTOR GARAGES & ENGINEERS	Radford Motors Pty. Ltd., 810 Pacific Highway., Gordon	347971	1961	Premise Match	435m	West
	MOTOR GARAGES & ENGINEERS.	Radford & Sons., 810 Pacific Hghwy, Gordon	14156	1959	Premise Match	435m	West
	MOTOR GARAGE/ENGINEERS.	Radford And Sons., 810 Pacific Hghwy., Gordon	4810	1958	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS.	Radford And Sons., 810 Pacific Hghwy., Gordon	61338	1956	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS.	Radford And Sons., 810 Pacific Hghwy., Gordon	49896	1954	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS.	Radford And Sons., 810 Pacific Hghwy., Gordon	40547	1953	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS.	Radford And Sons., 810 Pacific Hghwy., Gordon	32121	1952	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS	Radford and Sons, 810 Pacific Highway., Gordon	84251	1950	Premise Match	435m	West
	MOTOR SERVICE STATIONS-PETROL, Etc.	Radford and Sons, 810 Pacific Highway., Gordon	86314	1950	Premise Match	435m	West
	MOTOR GARAGES &/OR ENGINEERS.	Radford And Sons., 810 Pacific Hghwy., Gordon	22772	1948-49	Premise Match	435m	West
	MOTOR SERVICE STATIONS-PETROL, ETC.	Radford and Sons., 810 Pacific Hghwy., Gordon	26718	1948-49	Premise Match	435m	West

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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
6	MOTOR GARAGES &/OR ENGINEERS.	Bradford & Sons., Pacific Hghwy., Gordon	57309	1956	Road Match	395m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Burnett's Service Station., Pacific Hghwy Gordon	62114	1956	Road Match	395m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Burnett's Service Station., Pacific Hghwy., Gordon	61821	1956	Road Match	395m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Burnett's Service Station., Pacific Hghwy., Gordon	54412	1954	Road Match	395m
	MOTOR SERVICE STATIONS–PETROL, ETC.	Burnett's Service Station., Pacific Hghwy., Gordon	44028	1953	Road Match	395m
	MOTOR SERVICE STATIONS–PETROL, ETC.	Burnett's Service Station., Pacific Hghwy., Gordon	35797	1952	Road Match	395m
	MOTOR SERVICE STATIONS-PETROL, Etc.	Burnett's Service Station., Pacific Highway., Gordon	85836	1950	Road Match	395m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Burnett's Service Station., Pacific Hghwy., Gordon	23160	1948-49	Road Match	395m

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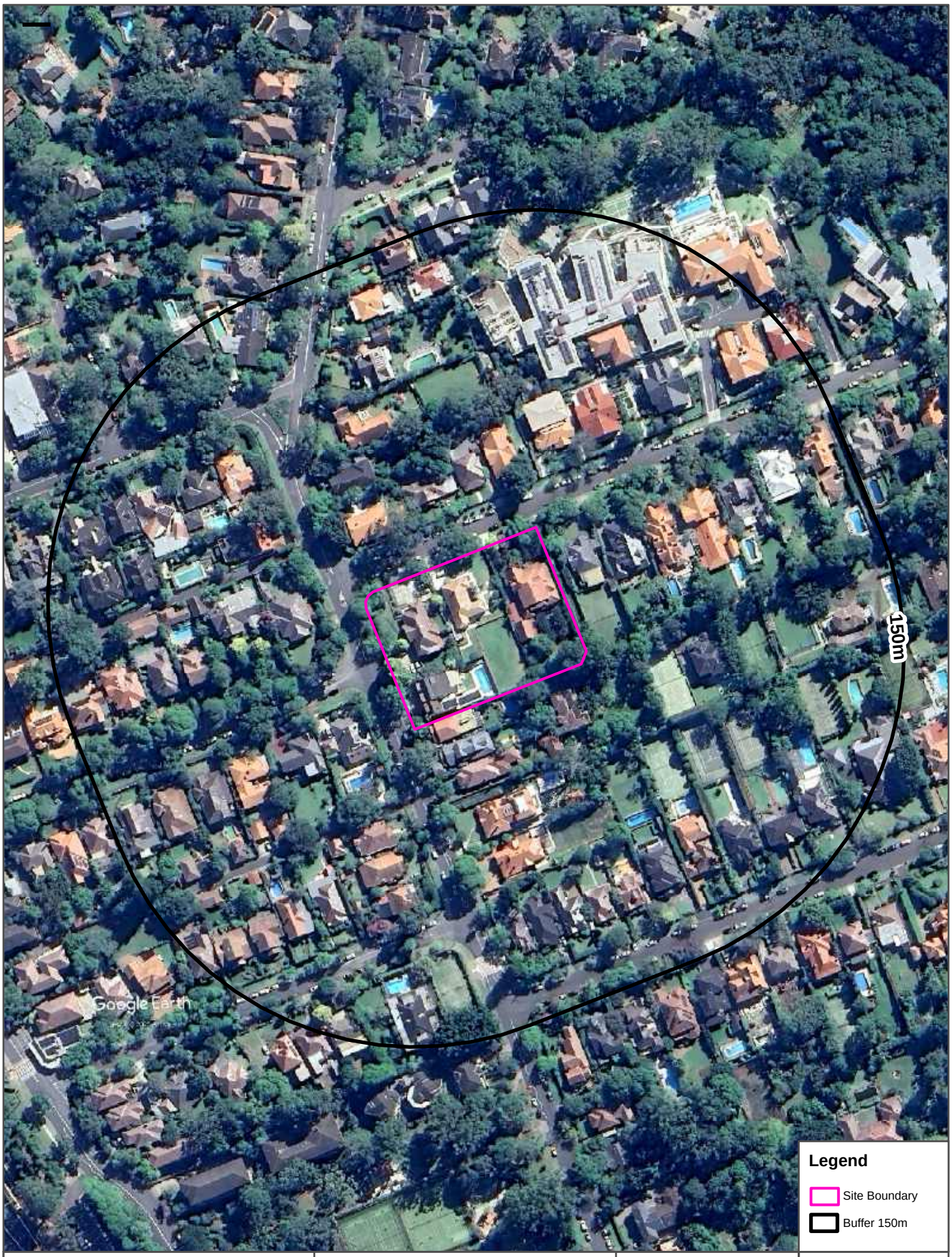
Aerial Imagery 2025

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale:
0 25 50 75 100
Meters

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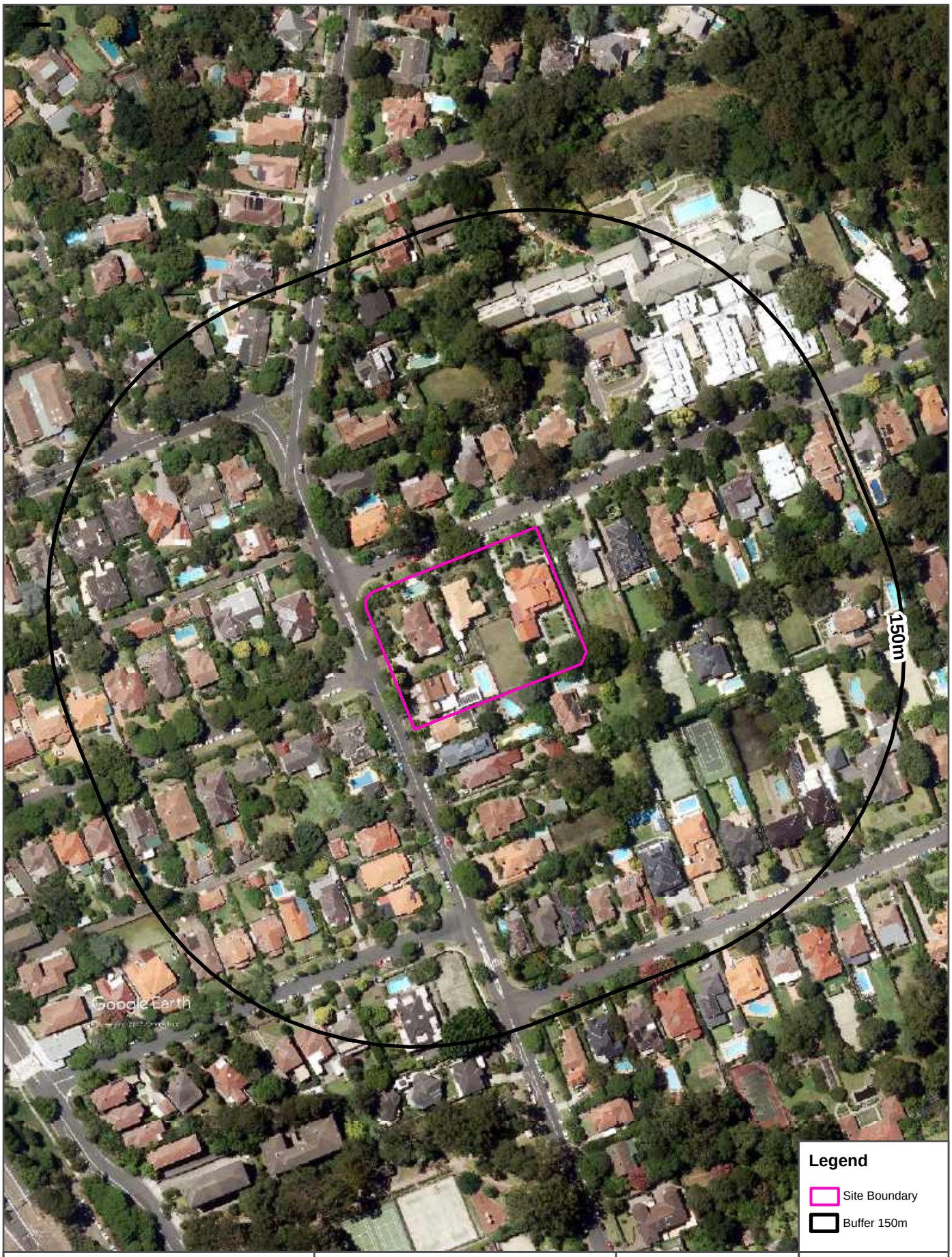
Coordinate System:
GDA 1994 MGA Zone 56

Date: 29 July 2025

Aerial Imagery 2014

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



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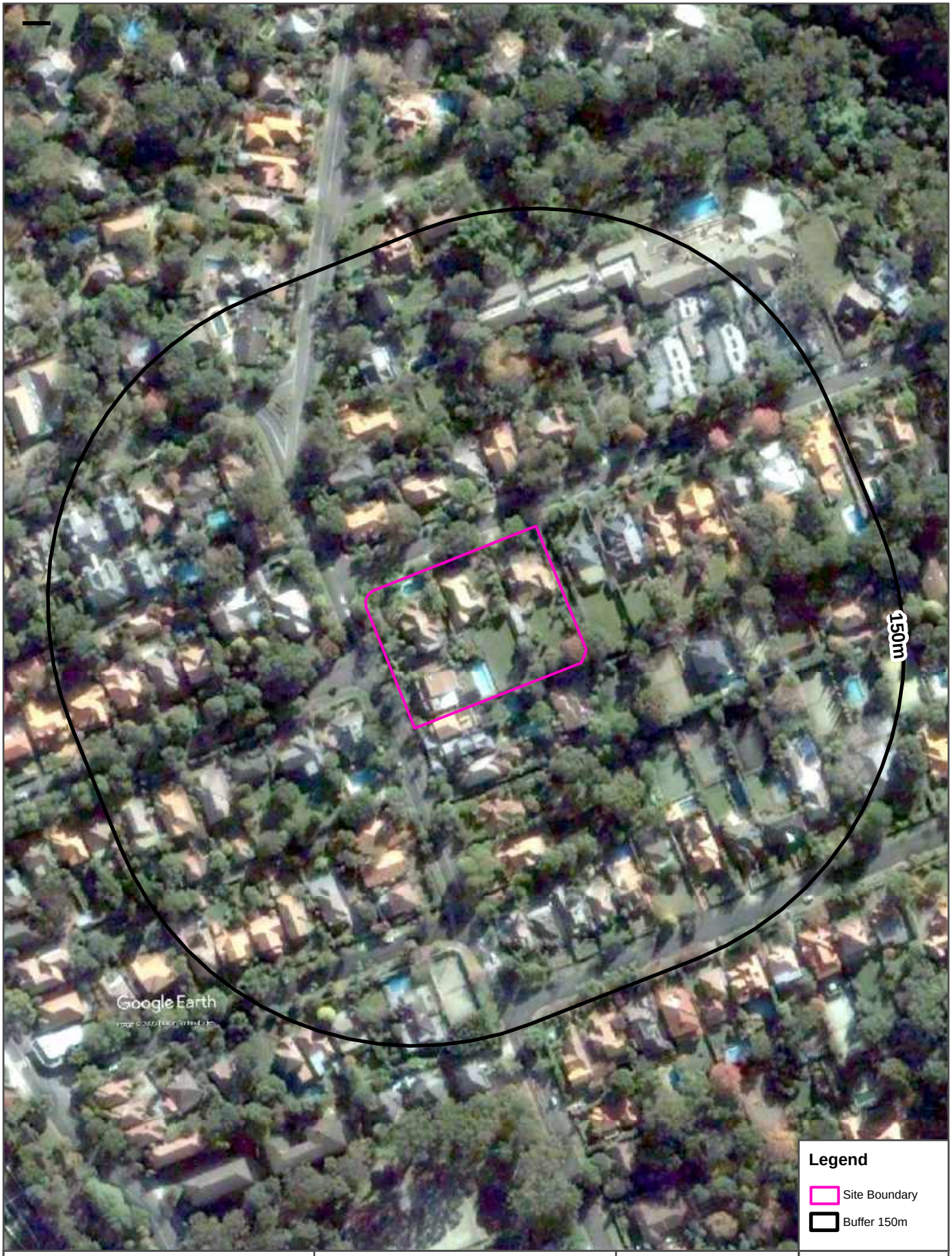
Coordinate System:
GDA 1994 MGA Zone 56

Date: 29 July 2025

Aerial Imagery 2005

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



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Meters

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Coordinate System:
GDA 1994 MGA Zone 56

Date: 29 July 2025

Aerial Imagery 1994

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 29 July 2025
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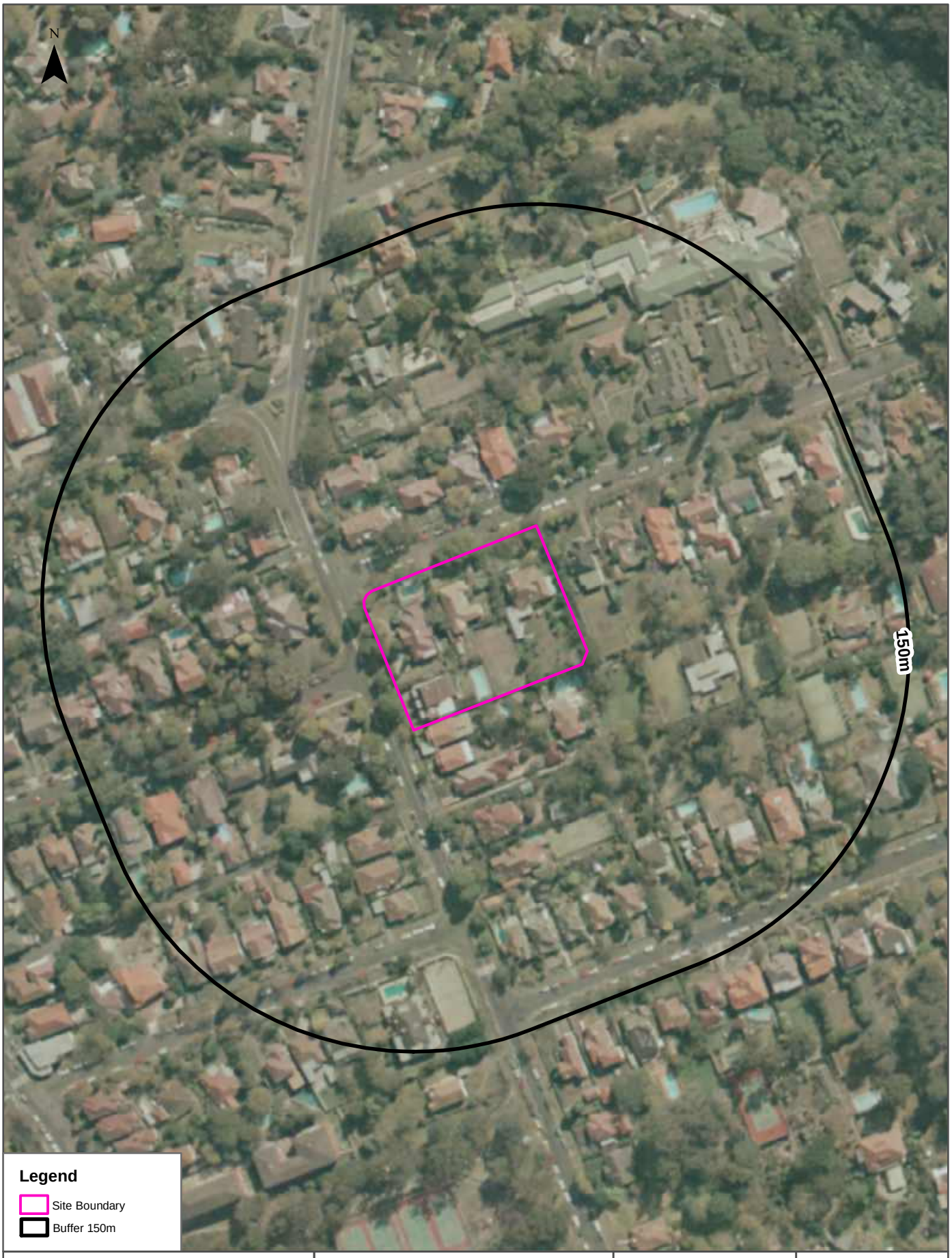
Aerial Imagery 1991

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 29 July 2025
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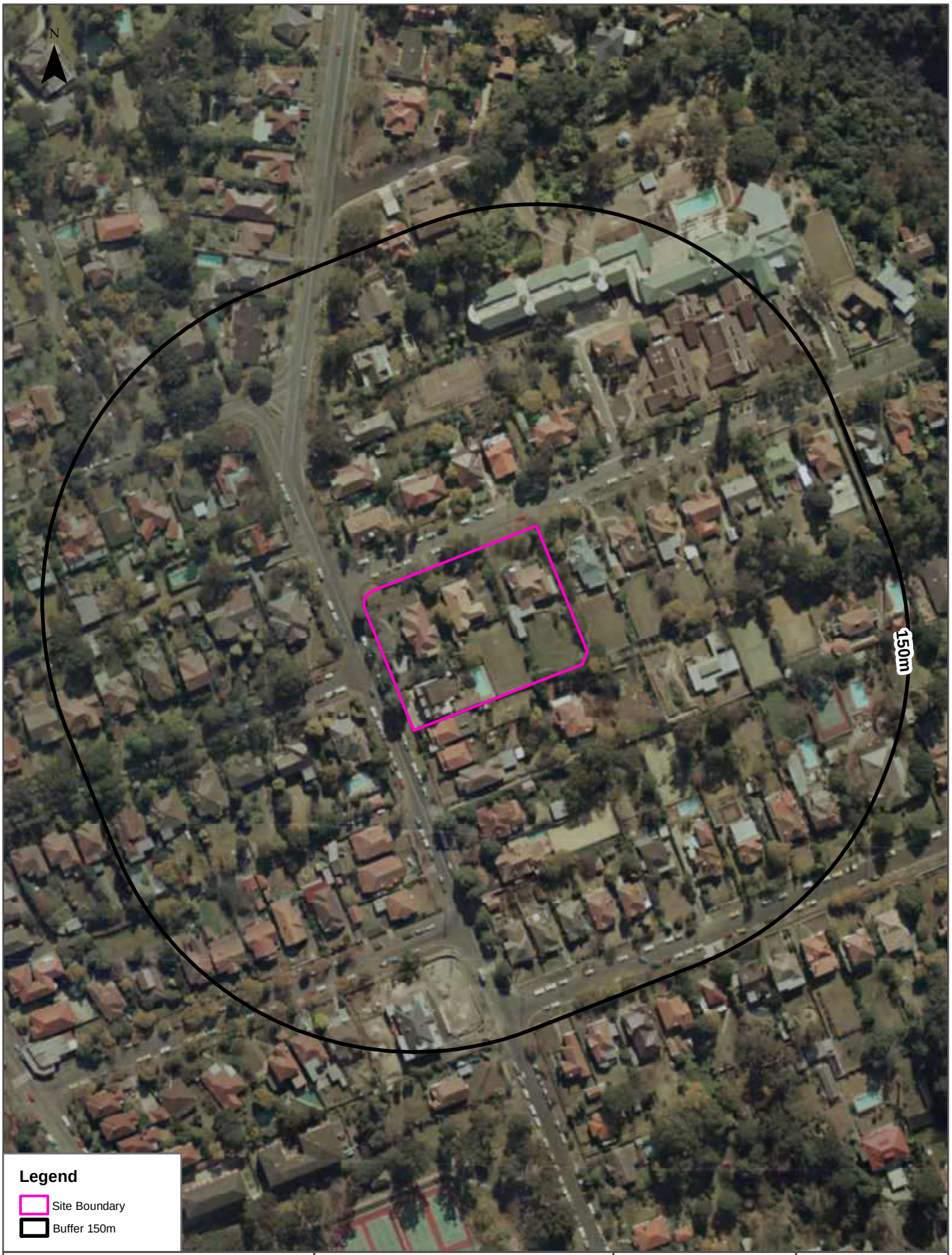
Aerial Imagery 1986

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Scale:	Data Sources: Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 29 July 2025

Aerial Imagery 1982

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 29 July 2025
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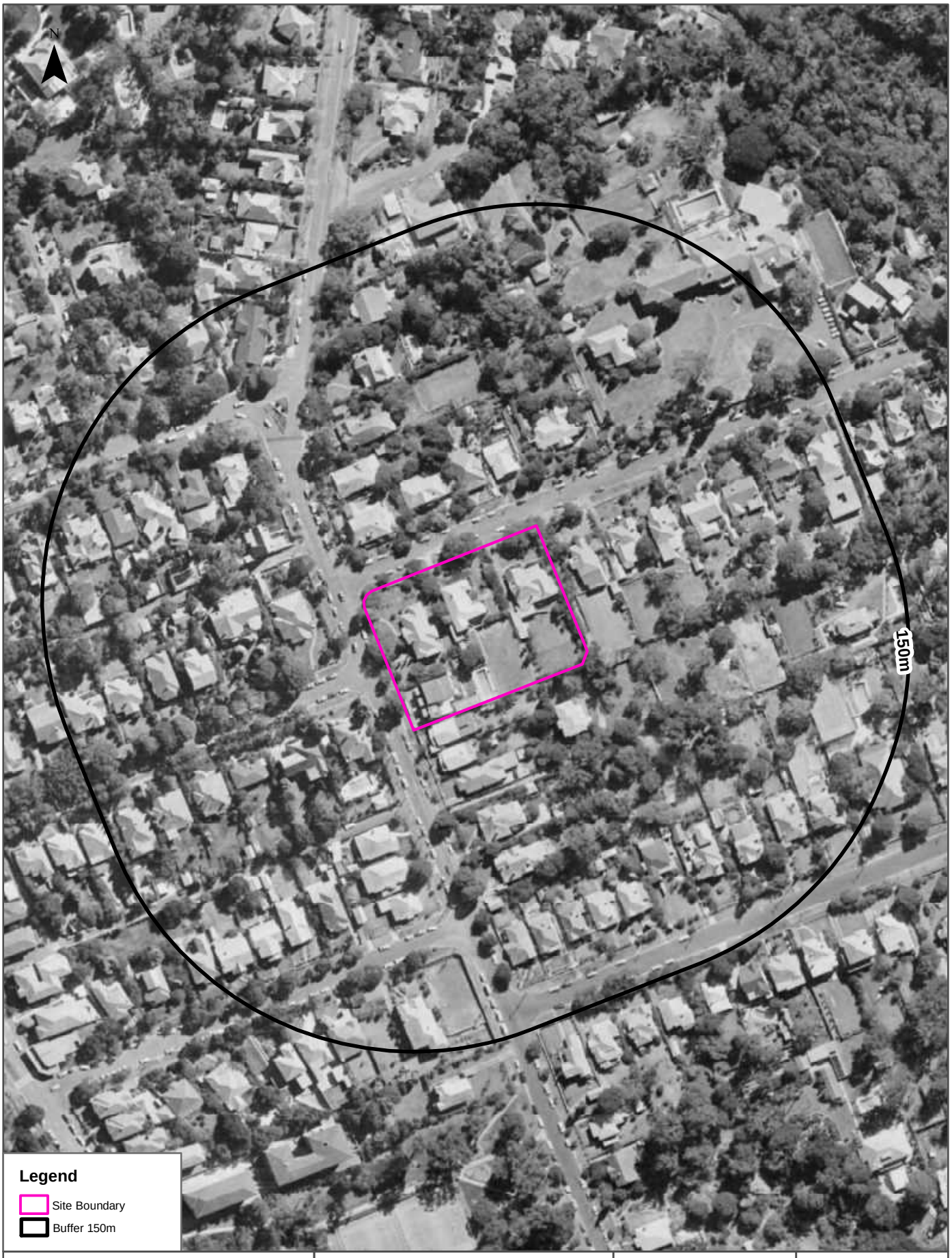
Aerial Imagery 1978

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 29 July 2025
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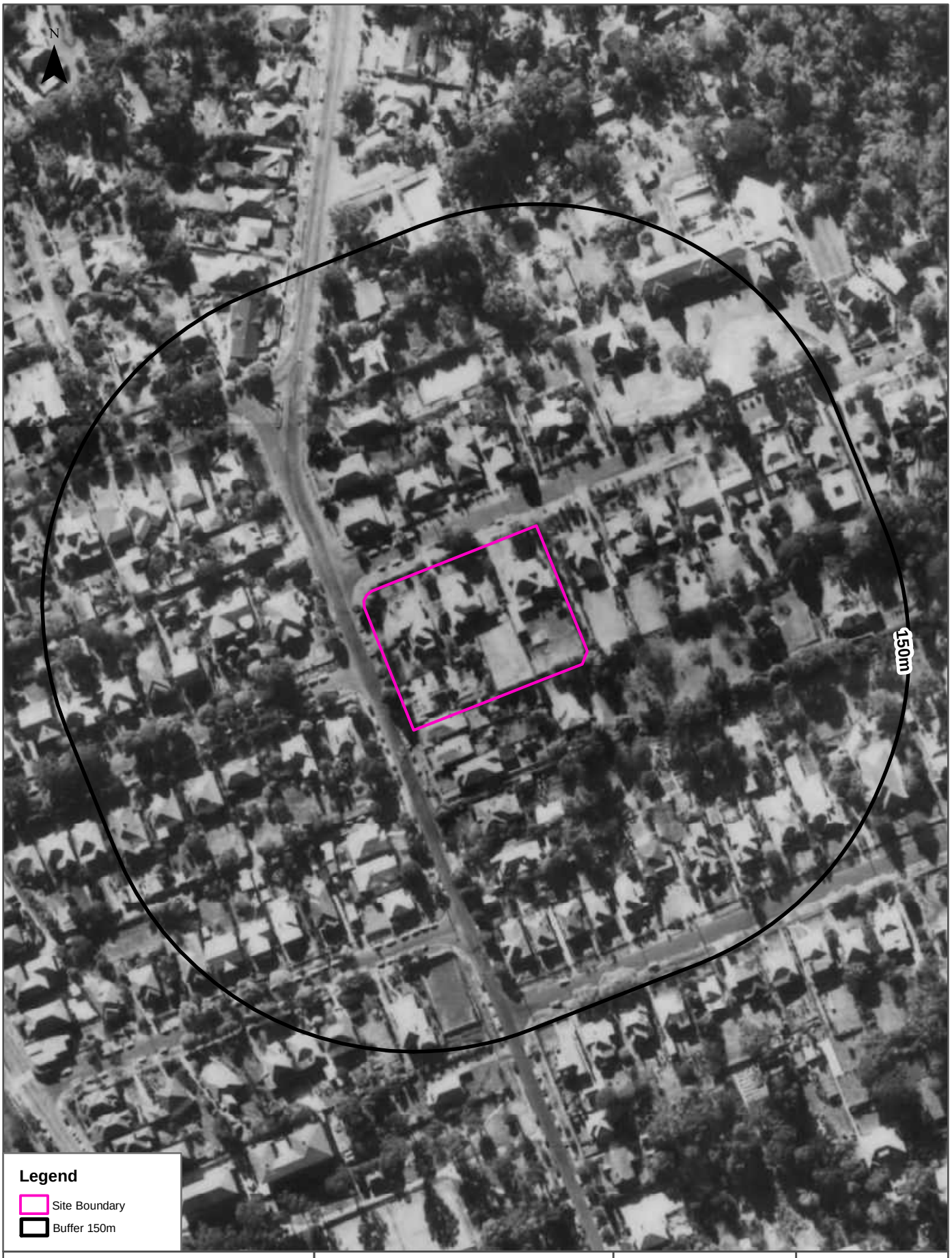
Aerial Imagery 1970

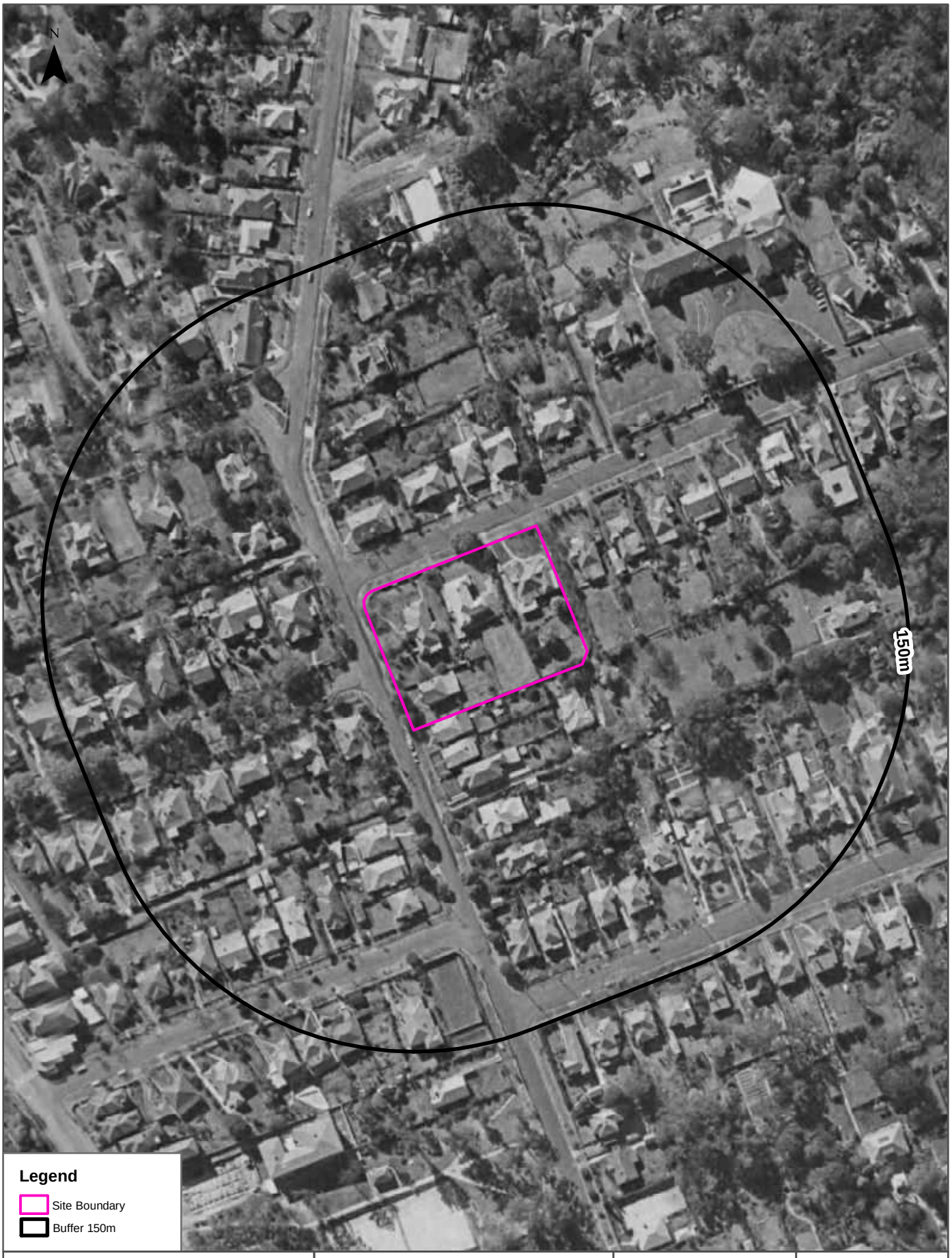
1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 29 July 2025

Aerial Imagery 1965

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 29 July 2025
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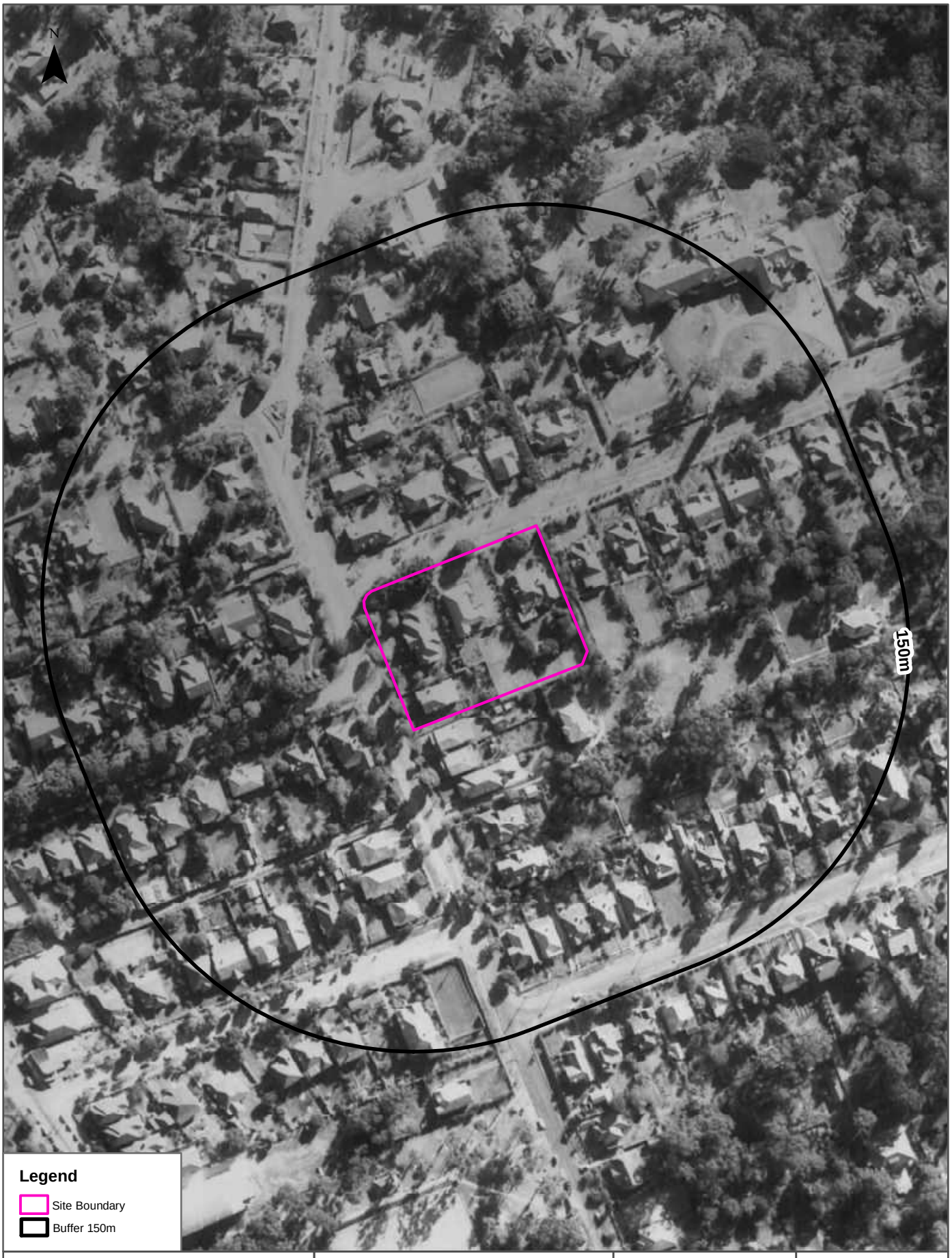
Aerial Imagery 1961

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



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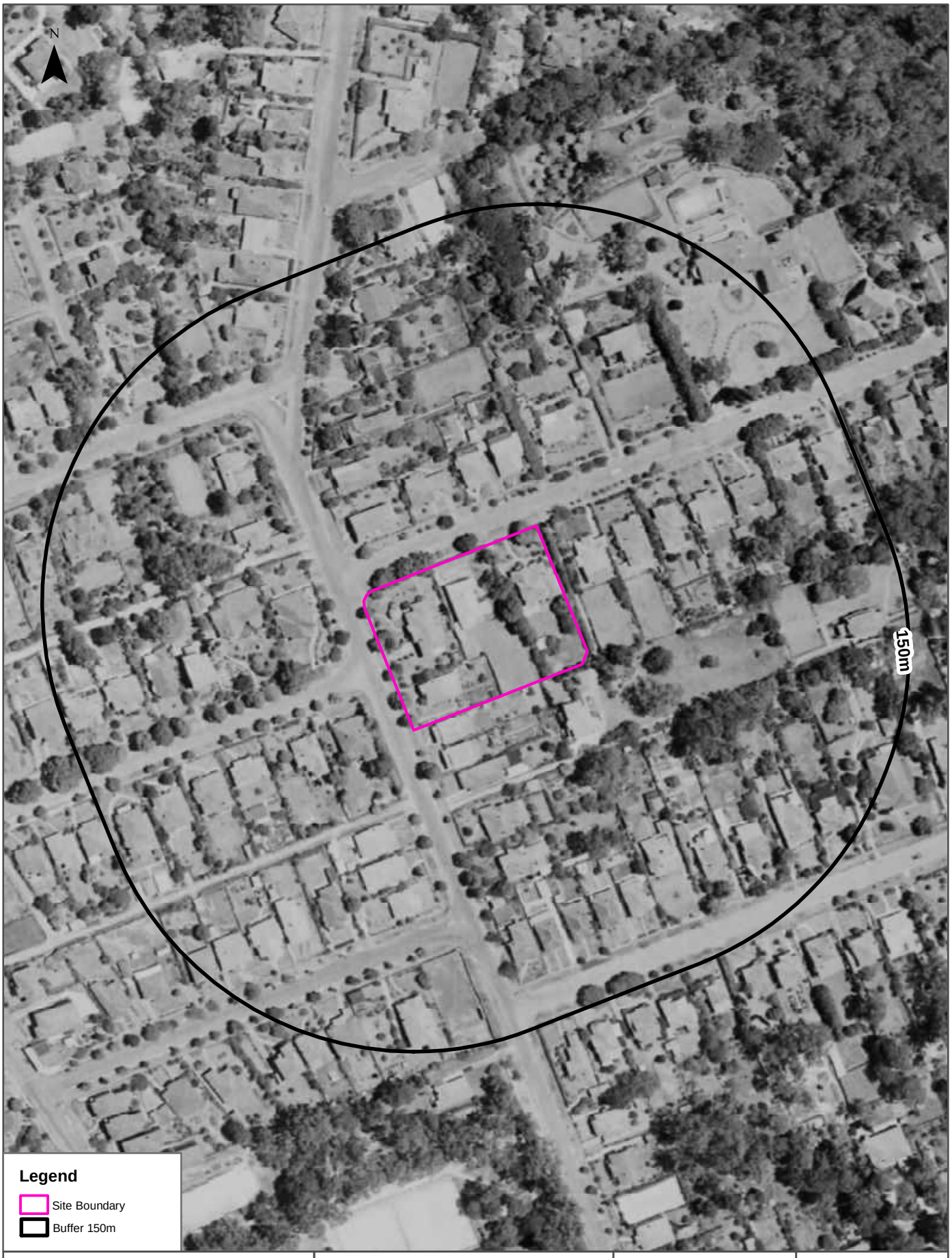
Aerial Imagery 1955, 1956

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



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

Coordinate System:
GDA 1994 MGA Zone 56

Date: 29 July 2025

Aerial Imagery 1951

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 29 July 2025
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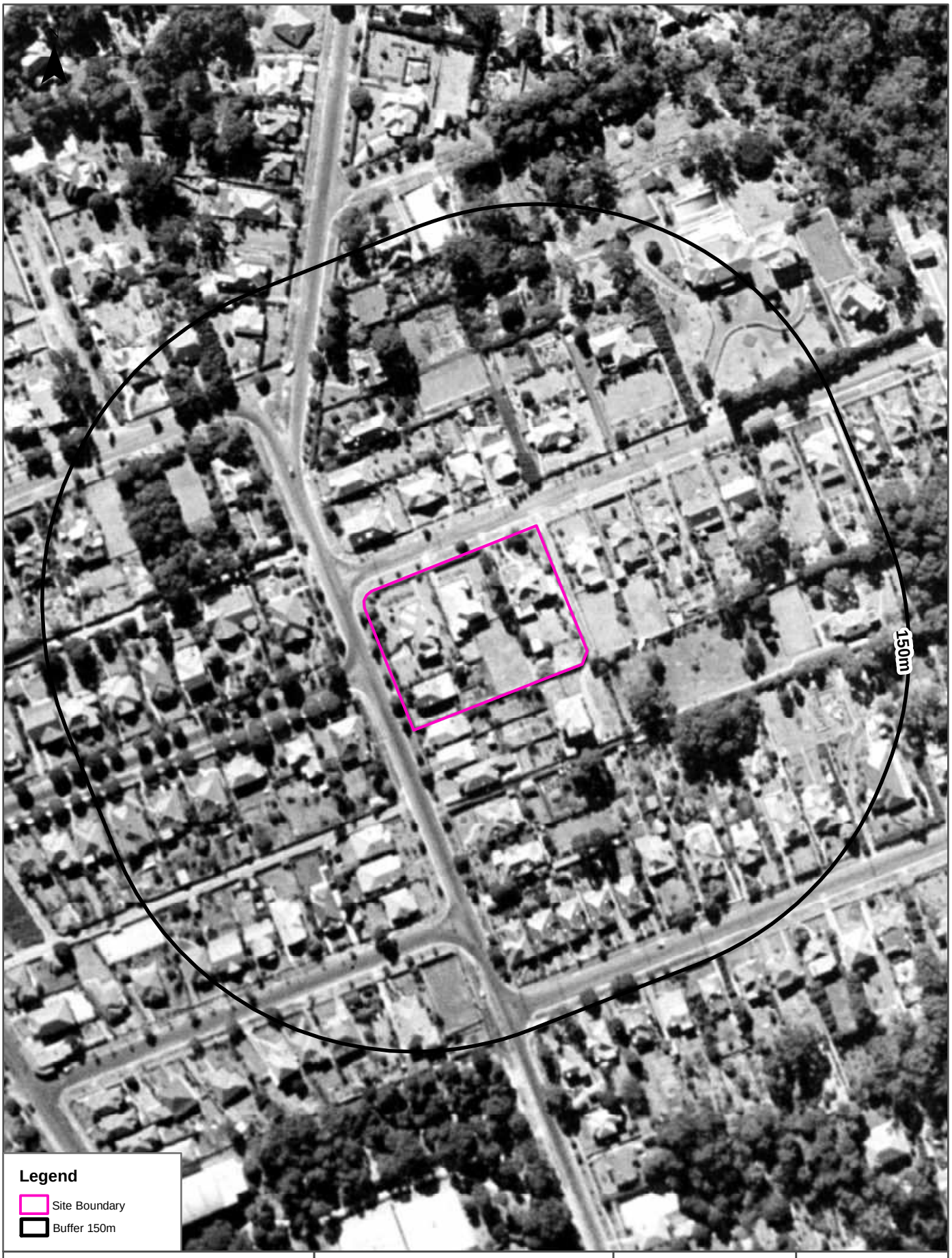
Aerial Imagery 1943

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale:	Data Sources Aerial Imagery:	Coordinate System:	Date: 29 July 2025
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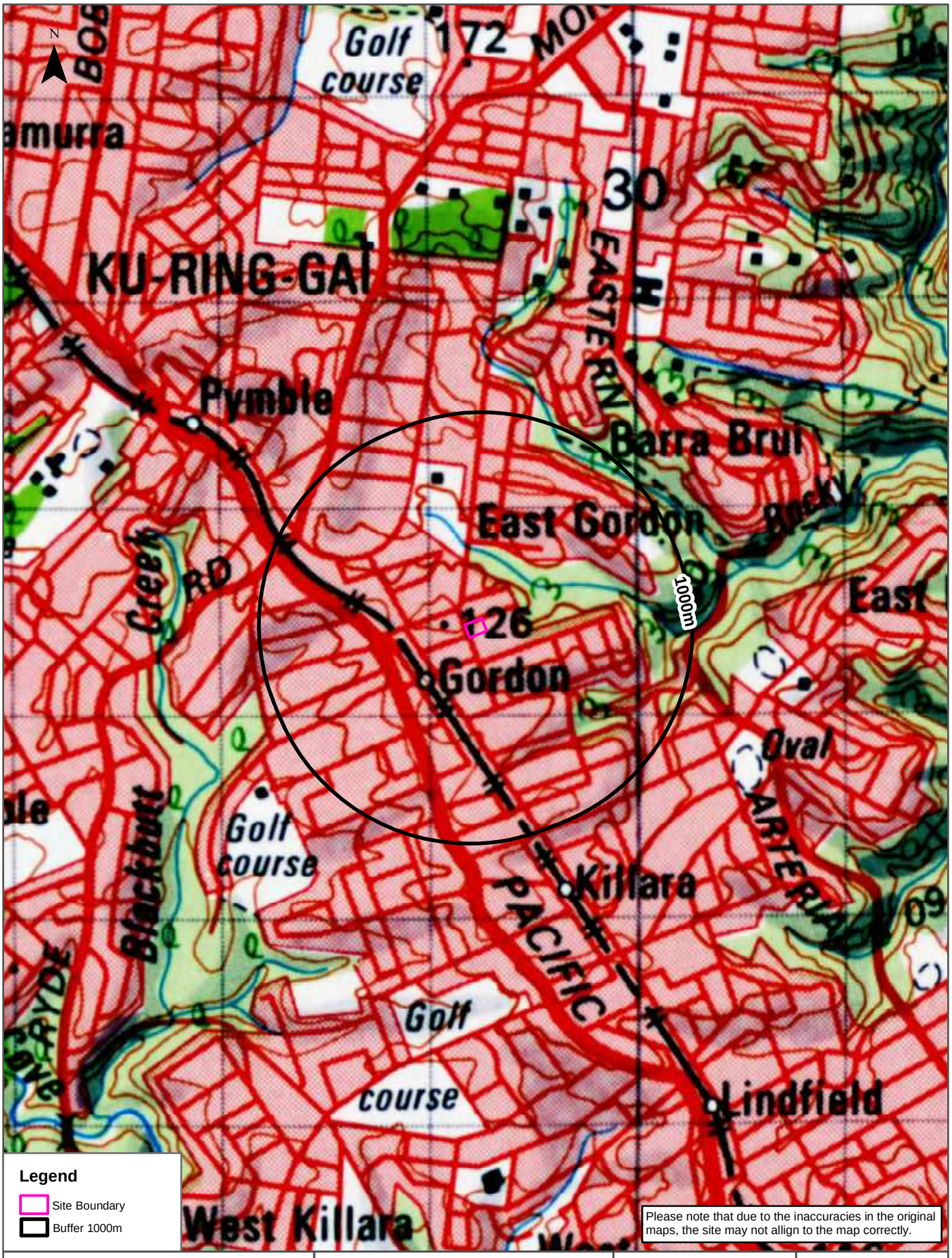
Aerial Imagery 1930

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © Geoscience Australia	Coordinate System: GDA 1994 MGA Zone 56	Date: 29 July 2025

Historical Map 1975

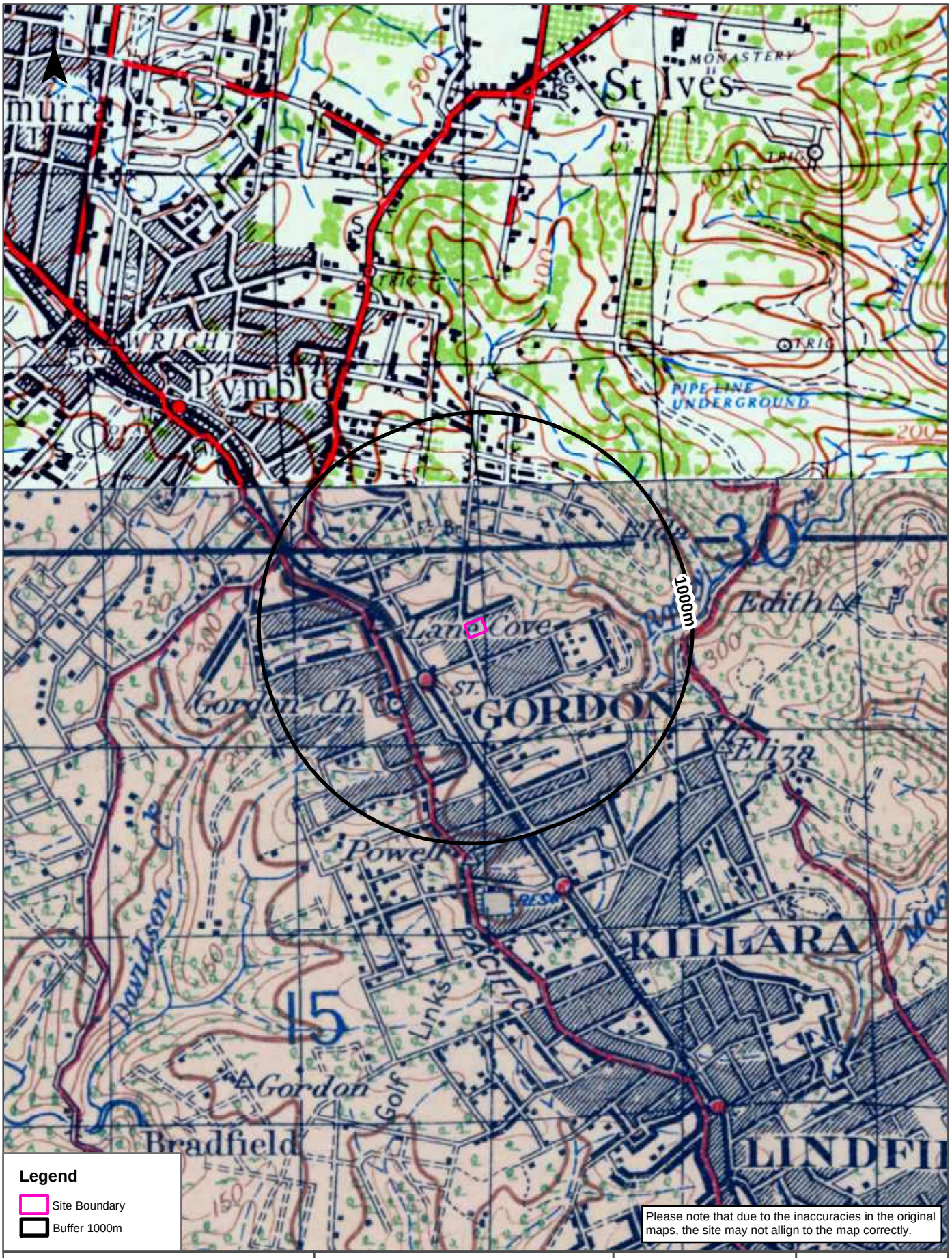
1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale: 0 290 580 Meters 870 1,160	Data Sources: NATMAP 1:100,000 Topographic Maps Geoscience Australia	Coordinate System: GDA 1994 MGA Zone 56	Date: 29 July 2025

Historical Map 1936 - 1942

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale:
0 290 580 870 1,160
Meters

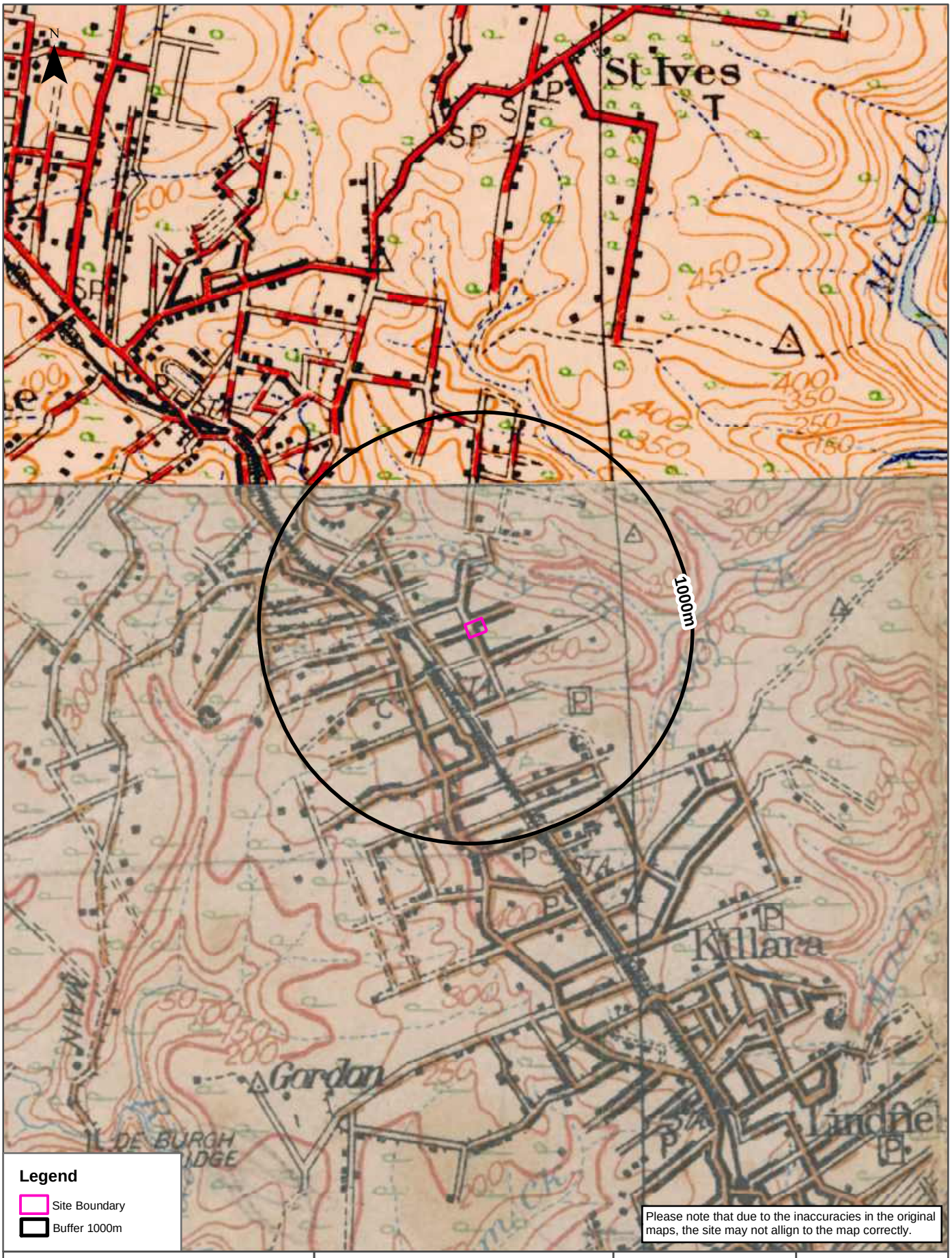
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 29 July 2025

Historical Map 1917 - 1920

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale: 0 290 580 870 1,160 Meters

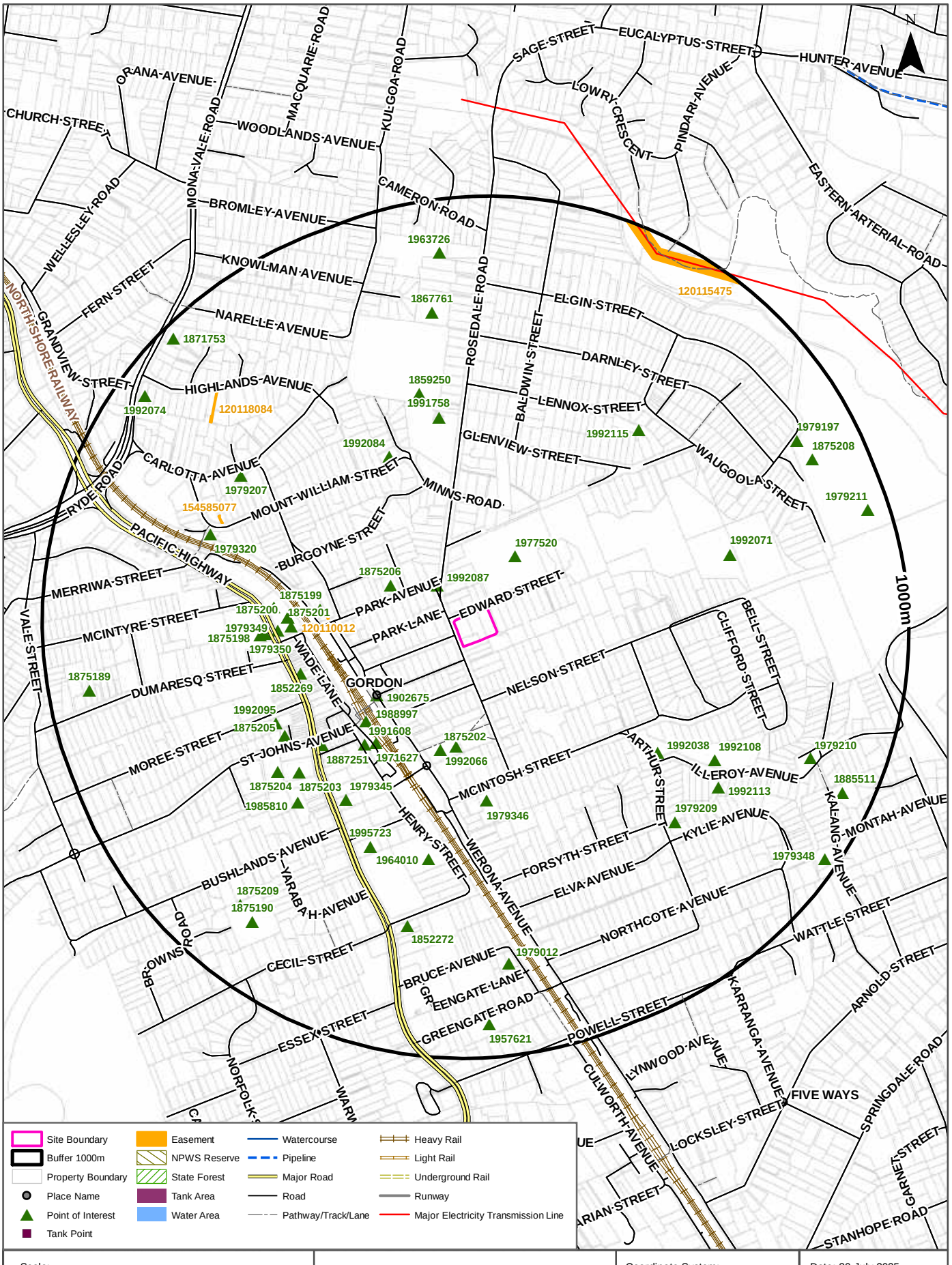
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 29 July 2025

Topographic Features

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Site Boundary · Buffer 1000m · Property Boundary · Place Name · Point of Interest · Tank Point

Easement · NPWS Reserve · State Forest · Tank Area · Water Area

Watercourse · Pipeline · Major Road · Road · Pathway/Track/Lane

Heavy Rail · Light Rail · Underground Rail · Runway · Major Electricity Transmission Line

Scale: 0 100 200 400 600 Meters

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 30 July 2025

Topographic Features

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
1992087	Monument	JOHN JOB CREW BRADFIELD MEMORIAL	96m	North West
1977520	Retirement Village	GOWRIE VILLAGE	142m	North East
1875206	Place Of Worship	BAPTIST CHURCH	178m	North West
1902675	Suburb	GORDON	241m	South West
1992066	Sports Court	GORDON TENNIS COURTS	243m	South
1875202	Park	GORDON RECREATION GROUNDS	257m	South
1988997	Railway Station	GORDON RAILWAY STATION	298m	South West
1971627	Transport Interchange	GORDON BUS INTERCHANGE	315m	South West
1875199	Child Care Centre	GORDON PRE-SCHOOL	327m	West
1991608	Park	ANNIE FORSYTH WYATT GARDEN	337m	South West
1979346	Historic Site	ERYLDENE	377m	South
1852269	Post Office	GORDON POST OFFICE	393m	West
1875201	Police Station	GORDON POLICE STATION	396m	West
1979208	Community Facility	GORDON LIBRARY MEETING ROOM 2	404m	West
1875200	Library	KU-RING-GAI GORDON LIBRARY	404m	West
1979284	Community Facility	AWOL YOUTH HUB	404m	West
1887251	Park	HERITAGE SQUARE	418m	South West
1979349	Monument	GORDON REMEMBRANCE CLOCK	429m	West
1992084	Park	ASHLEY GROVE RESERVE	430m	North West
1979344	Historic Site	GORDON PUBLIC SCHOOL	439m	West
1979350	Monument	KU-RING-GAI WAR MEMORIAL	460m	West
1979345	Historic Site	TULKIYAN	469m	South West
1875198	Local Government Chambers	KU-RING-GAI COUNCIL	471m	West
1991758	Community Facility	2ND GORDON SCOUT HALL	477m	North
1875205	Place Of Worship	CATHOLIC CHURCH	485m	South West
1992038	Park	TERRUM-BINE RESERVE	487m	South East
1992095	Park	CAR PARK PLACE	492m	South West
1875203	Place Of Worship	ST JOHN THE EVANGELIST CHURCH	502m	South West
1964010	Combined Primary-Secondary School	RAVENSWOOD SCHOOL FOR GIRLS	524m	South
1995723	Nursing Home	HORTON HOUSE	536m	South West
1875204	Cemetery	GORDON CEMETERY	544m	South West
1859250	Park	RICHMOND PARK	546m	North

Map Id	Feature Type	Label	Distance	Direction
1985810	Psychiatric Hospital	GORDON PRIVATE HOSPITAL	552m	South West
1992115	Park	LENNOX STREET RESERVE	568m	North East
1992071	Park	KU-RING-GAI FLYING FOX RESERVE	596m	East
1992108	Park	ILLEROY FOREST	614m	South East
1979207	Park	CARLOTTA RESERVE	628m	North West
1979320	Community Facility	KU-RING-GAI GUIDE HALL	629m	West
1979209	Park	FORSYTH END	631m	South East
1992113	Park	KYLIE WALK	656m	South East
1852272	Place Of Worship	UNITING CHURCH	691m	South
1867761	Sports Court	RICHMOND PARK TENNIS COURTS	729m	North
1979012	Park	GREENGATE PARK	777m	South
1979210	Park	KALANG RESERVE	821m	East
1875209	Club	GORDON BOWLING CLUB	829m	South West
1875190	Sports Field	BOWLING GREENS	843m	South West
1979197	Park	PLAYGROUND	855m	North East
1875208	Sports Field	EAST GORDON PARK / DARNLEY OVAL	868m	North East
1963726	Primary School	GORDON EAST PUBLIC SCHOOL	870m	North
1875189	Park	GORDON GLEN	901m	West
1957621	Nursing Home	KILLARA GARDENS AGED CARE	918m	South
1885511	Park	QUARRY MASONS FOREST	925m	South East
1992074	Park	KIRBY PARK	930m	North West
1979211	Park	BUSHRANGER RESERVE	947m	East
1979348	Historic Site	HARRY AND PENELOPE SEIDLER HOUSE	968m	South East
1871753	Park	BOWES THISTLETHWAYTE PARK	968m	North West

Topographic Data Source: © Land and Property Information (2015)
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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
120110012	Primary	Undefined		304m	West
154585077	Primary	Right of way	variable	611m	North West
120118084	Primary	Undefined		762m	North West
120115475	Primary	Undefined		938m	North East

Easements Data Source: © Land and Property Information (2015)
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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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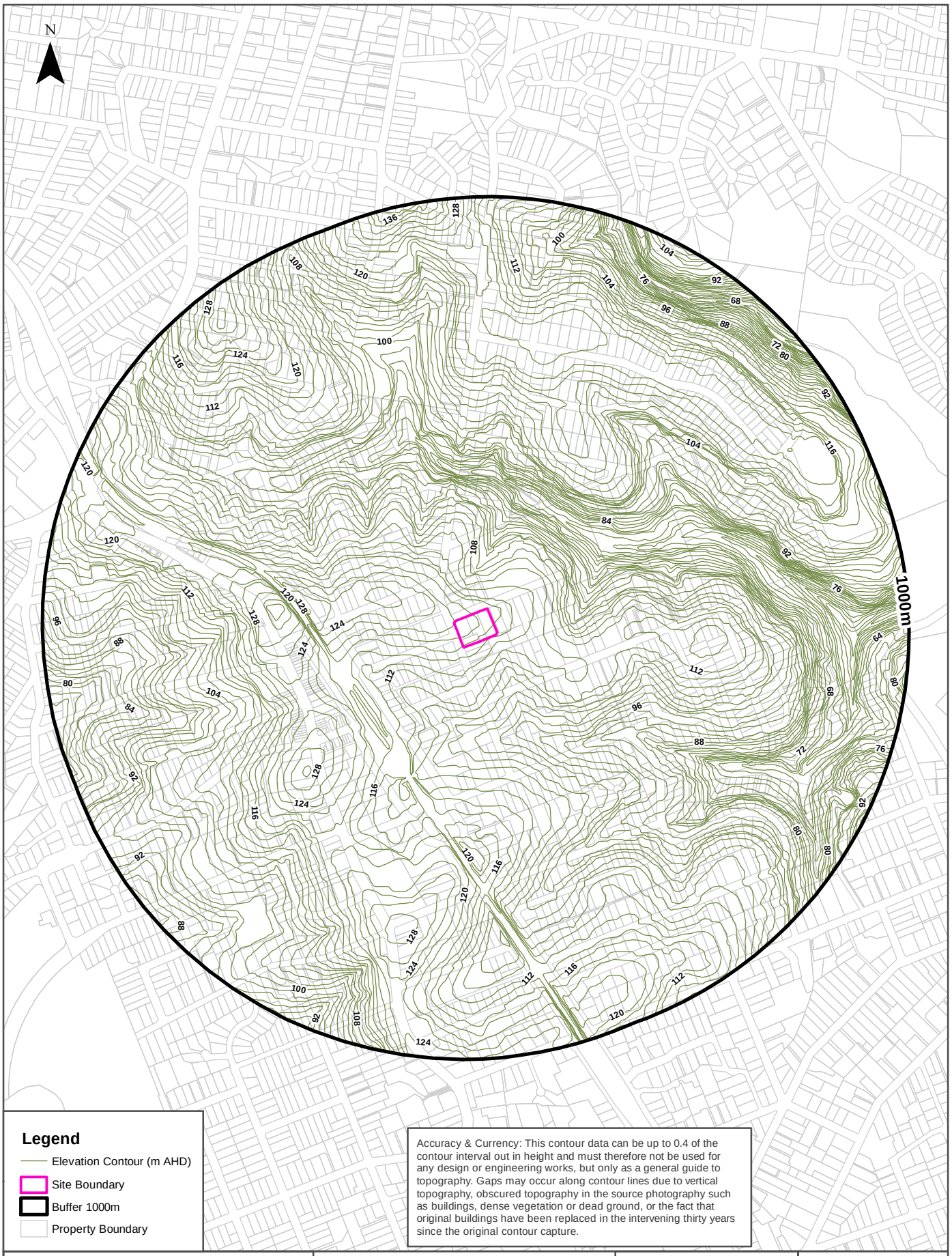
Elevation Contours (m AHD)

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Hydrogeology & Groundwater

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Hydrogeology

Description of aquifers within the dataset buffer:

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

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024

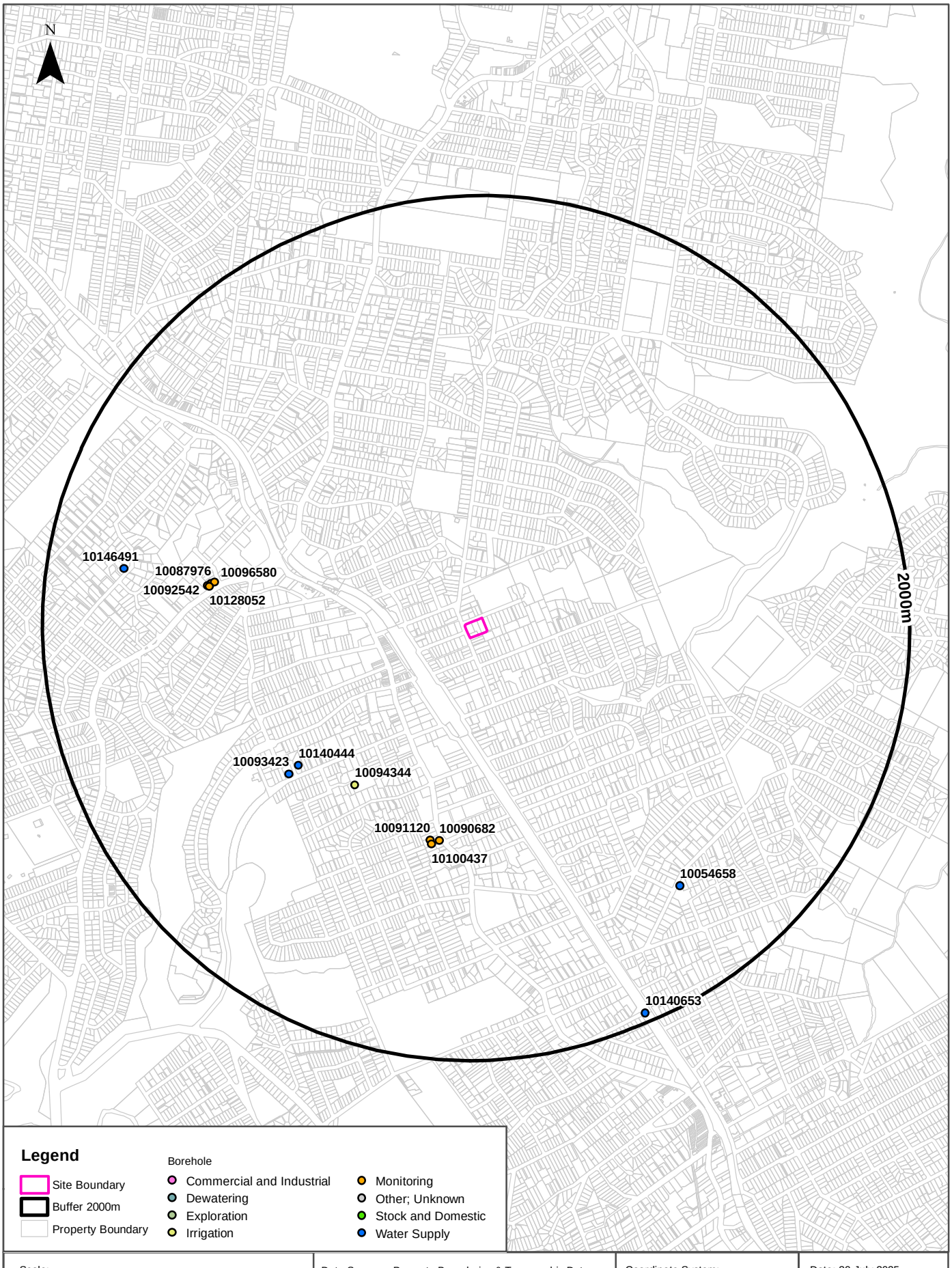
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

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

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

Groundwater Boreholes

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Hydrogeology & Groundwater

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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
10094344	GW024606	Irrigation	Unknown	01/09/1966	76.50		AHD				882m	South West
10090682	GW104668	Monitoring	Functioning	16/02/2001	16.20		AHD				969m	South
10091120	GW104670	Monitoring	Unknown	16/02/2001	8.50		AHD				975m	South
10100437	GW104669	Monitoring	Functioning	16/02/2001	7.00		AHD				994m	South
10140444	GW023699	Water Supply	Unknown	01/12/1965	4.80		AHD				1011m	South West
10093423	GW107984	Water Supply	Unknown	01/01/1980	10.00		AHD				1072m	South West
10096580	GW110263	Monitoring	Unknown	22/05/2009	10.00		AHD			7.50	1201m	West
10087976	GW110264	Monitoring	Unknown	22/05/2009	10.00		AHD			8.20	1218m	West
10128052	GW110266	Monitoring	Unknown	22/05/2009	10.00		AHD			7.80	1222m	West
10092542	GW110265	Monitoring	Unknown	22/05/2009	10.00		AHD				1233m	West
10054658	GW106029	Water Supply	Functioning	11/05/2004	180.00		AHD	1140	0.900	63.00	1512m	South East
10146491	GW029666	Water Supply	Functioning	01/09/1966	25.90		AHD		0.710	4.50	1635m	West
10140653	GW023498	Water Supply	Unknown	01/01/1966	8.20		AHD	Good			1957m	South East

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

Driller's Logs

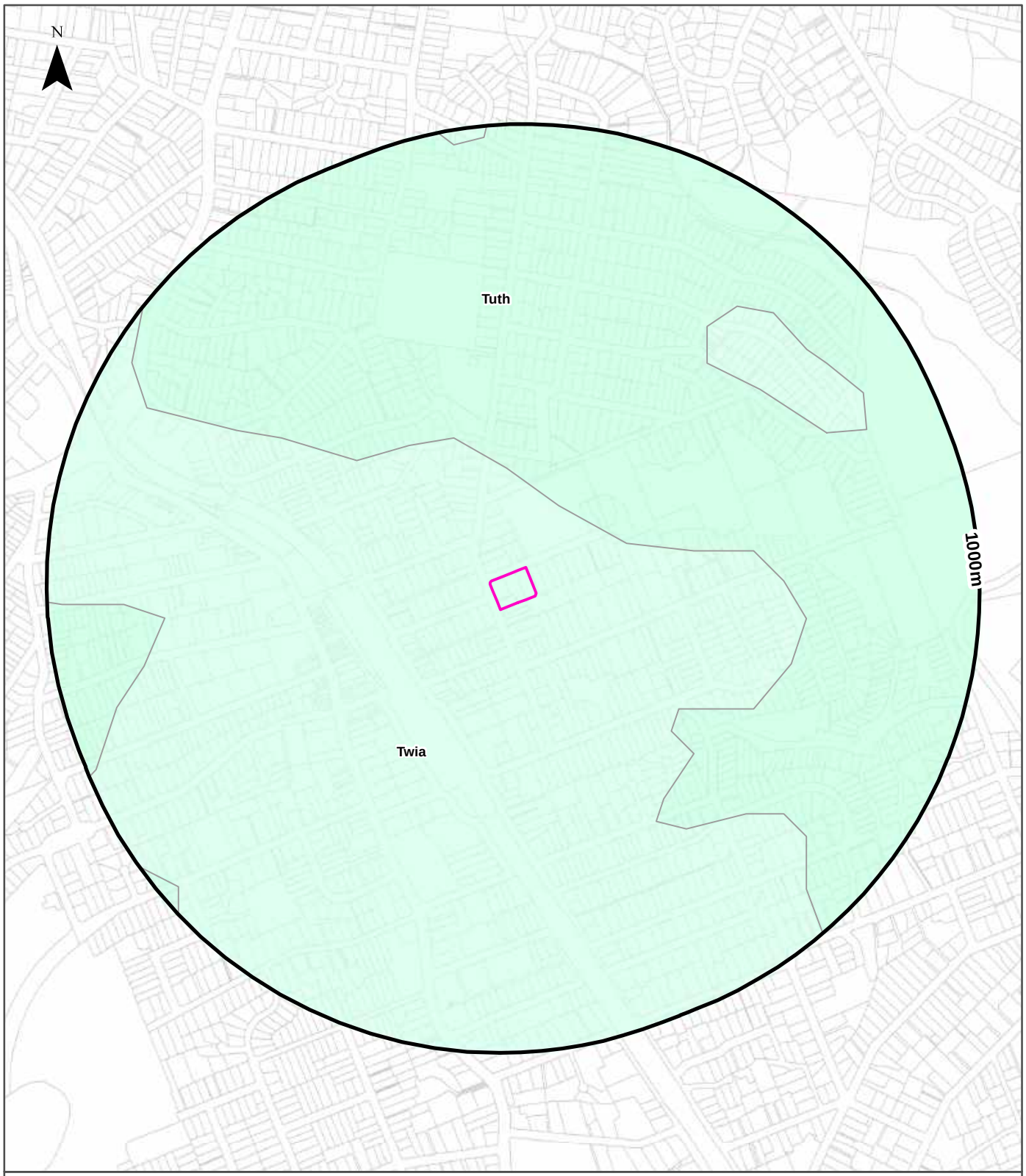
Drill log data relevant to the boreholes within the dataset buffer:

NGIS Bore ID	Drillers Log	Distance	Direction
10094344	0.00m-2.43m Topsoil 0.00m-2.43m Clay Dark Brown 2.43m-2.74m Sandstone Soft 2.43m-2.74m Clay White 2.74m-3.65m Sandstone Soft 3.65m-5.18m Clay White 3.65m-5.18m Sandstone Soft 5.18m-5.79m Sandstone Soft 5.79m-7.31m Clay Grey Sandstone 7.31m-9.75m Clay White 7.31m-9.75m Sandstone Interlayere 9.75m-39.92m Sandstone White Grey 39.92m-49.37m Sandstone White 39.92m-49.37m Shale Traces 49.37m-63.09m Sandstone White Soft 63.09m-66.29m Sandstone White 66.29m-76.50m Sandstone White Bands Ironstone	882m	South West
10090682	0.00m-1.00m FILL, SILTY CLAY/BROWN 1.00m-3.70m FILL,SILTY CLAY RED-BROWN 3.70m-5.70m FILL,SILTY CLAY RED-BROWN/IRONS.GRAV 5.70m-11.00m SHALEY CLAY/IRONSTONE/GRAVELS 11.00m-16.20m SHALE GREY WITH SILTY CLAY	969m	South
10091120	0.00m-0.50m BITUMEN,FILL,SILTY CLAY 0.50m-4.00m SILTY CLAY/ORANGE BROWN 4.00m-8.50m SILTY CLAY,HIGH PLASTICITY,GREY	975m	South
10100437	0.00m-1.50m FILL, SILTY CLAY 1.50m-7.00m SILTY CLAY, ORANGE BROWN	994m	South
10140444	0.00m-4.57m Clay Sand 4.57m-4.87m Sand Water Supply	1011m	South West
10096580	0.00m-1.50m FILL, BROWN AND GREY CLAYEY SAND WITH GRAVEL 1.50m-2.50m SANDY CLAY, BROWN,FINE TO MEDIUM 2.50m-10.00m SANDSTONE BROWN,VERY WEATHERED	1201m	West
10087976	0.00m-2.80m FILL,BROWN TO BLACK,SAND AND CLAY 2.80m-3.20m SANDY CLAY,DARK GREY TO BLACK,FINE TO MED.GRAINED 3.20m-10.00m SANDSTONE, BROWN,GREY AND RED,FINE TO MED GRAINED	1218m	West
10128052	0.00m-1.90m FILL, BROWN SAND,GRAVEL, RUBBLE AND CLAY 1.90m-2.40m SANDY CLAY BROWN,FINE TO MED. GRAINED 2.40m-10.00m SANDSTONE,BROWN,FINE TO MED GRAINED	1222m	West
10092542	0.00m-2.50m FILL. BROWN,SANDY CLAY,CLAYEY SAND WITH GRAVEL 2.50m-3.50m SANDSTONE BROWN,WHITE,YELLOW,BROWN CLAY BANDS 3.50m-10.00m SANDSTONE BROWN AND WHITE,FINE TO MED. GRAINED	1233m	West
10054658	0.00m-1.50m topsoil 1.50m-9.00m shale 9.00m-54.00m sandstone, grey 54.00m-56.10m sandstone, grey 56.10m-69.50m sandstone, grey & siltstone 69.50m-70.00m sandstone, grey with 0.1 70.00m-86.50m siltstone 86.50m-86.90m sandstone, grey light grey 86.90m-104.40m sandstone, light grey 104.40m-124.00m sandstone, grey dark grey 124.00m-151.50m sandstone, light grey 151.50m-158.00m sandstone, light grey - grey 158.00m-175.50m sandstone, light grey & quartz 175.50m-180.00m sandstone grey	1512m	South East
10146491	0.00m-1.52m Loam 1.52m-4.57m Sandstone 4.57m-10.66m Water Supply 10.66m-25.90m Sandstone	1635m	West
10140653	0.00m-6.70m Sand White 6.70m-8.22m Sand White Fossils:shell Fragments Water Supply	1957m	South East

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

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Legend

Linear Geological Structures and Boundaries

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

Scale: 0 100 200 400 600 Meters

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 30 July 2025

Geology

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Geological Units

Geological units within the dataset buffer:

Code	Unit Name	Description	Stratigraphy	Age Range	Dominant Lithology	Dist	Dir
Twia	Ashfield Shale	Black to light grey shale and laminite.	/Wianamatta Group//Ashfield Shale//	Middle Triassic (base) to Middle Triassic (top)	Shale	0m	On-site
Tuth	Hawkesbury Sandstone	Medium- to coarse-grained quartz sandstone displaying small- to large-scale, high-angle cross-bedding; minor shale and laminite lenses.	/Ungrouped Triassic units//Hawkesbury Sandstone//	Anisian (base) to Anisian (top)	Sandstone	158m	North East

Linear Geological Structures

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

Map ID	Boundary Type	Feature Description	Fault Dip Angle	Fault Dip Direction	Dist	Dir
NA	No records in buffer					

Trendlines within the dataset buffer:

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

Fold axes within the dataset buffer:

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

Marker beds within the dataset buffer:

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

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

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

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

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

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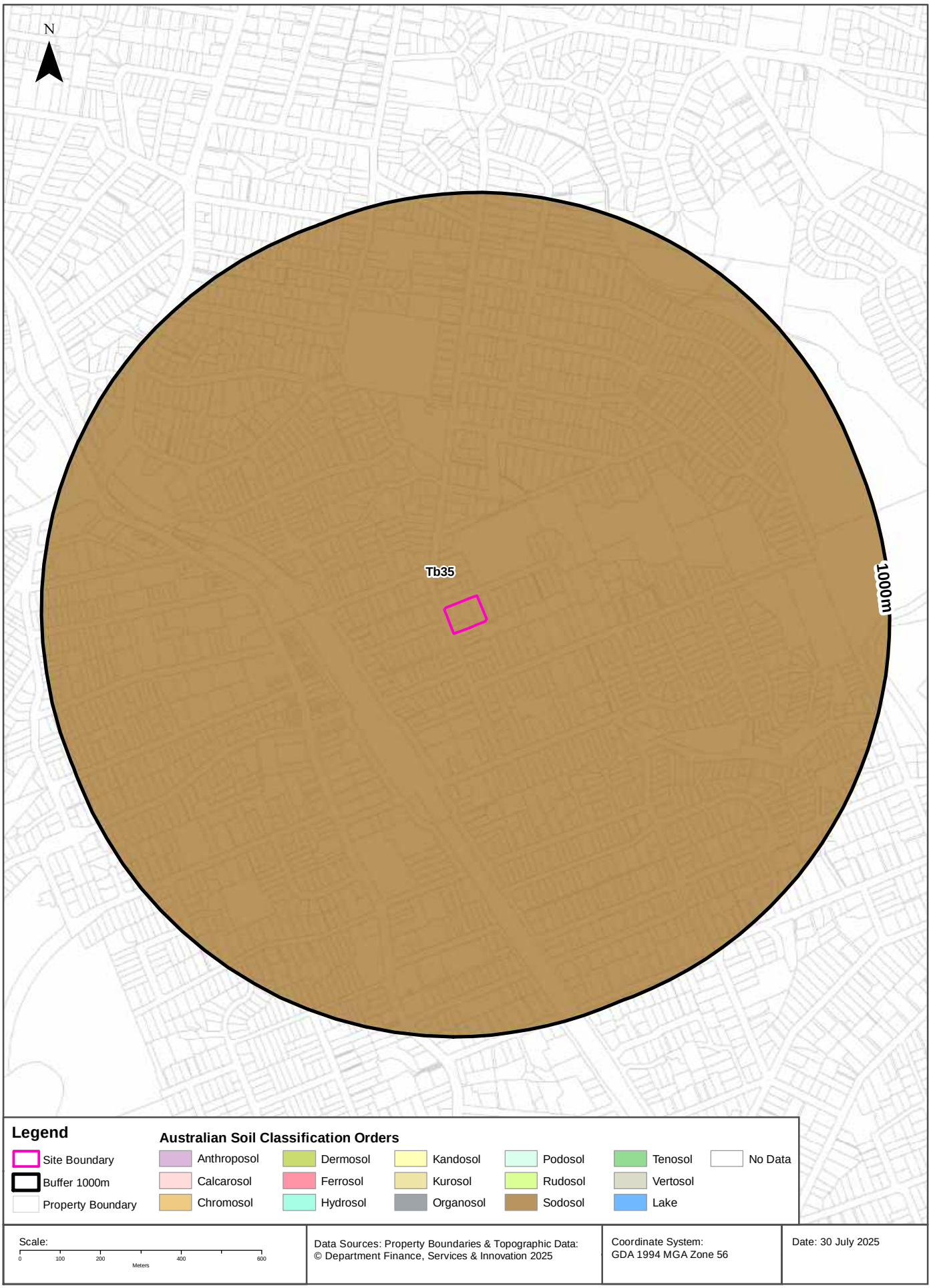
Atlas of Australian Soils

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Soils

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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

Atlas of Australian Soils Data Source: CSIRO
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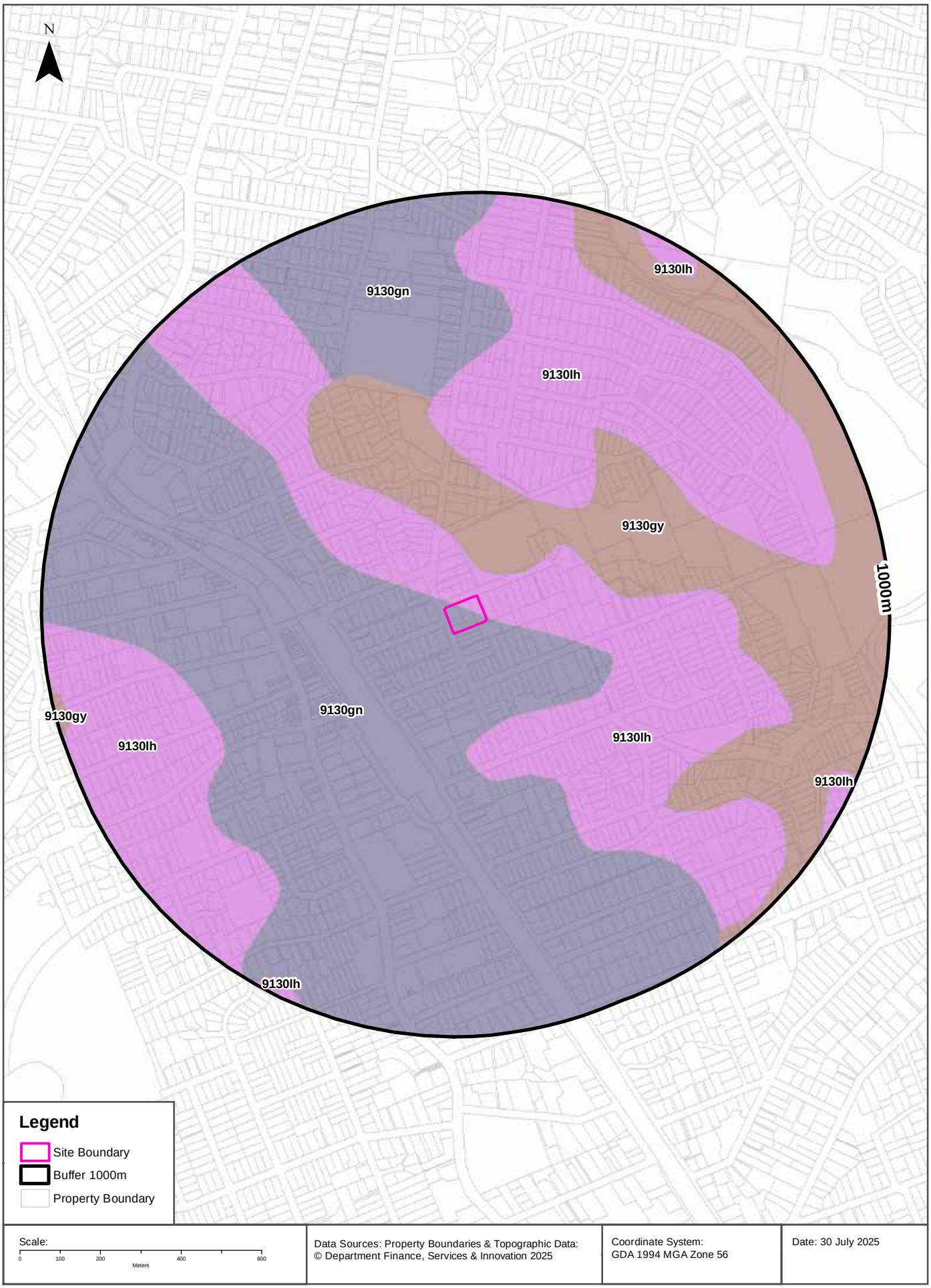
Soil Landscapes of Central and Eastern NSW

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Soil Landscapes of Central and Eastern NSW

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

Soil Code	Name	Distance	Direction
9130gn	Glenorie	0m	On-site
9130lh	Lucas Heights	0m	On-site
9130gy	Gymea	64m	East

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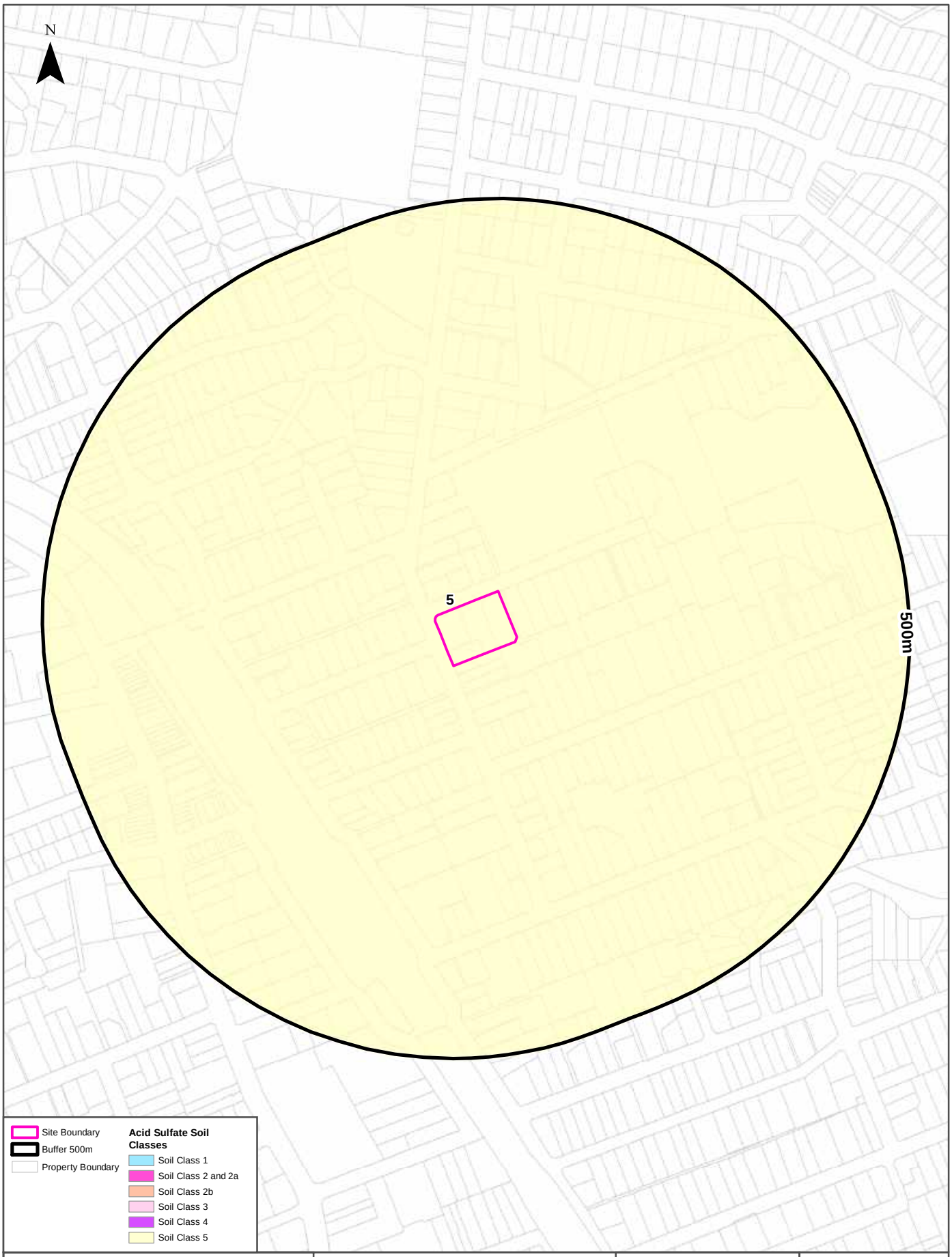
Acid Sulfate Soils

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Acid Sulfate Soils

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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
5	Works within 500 metres of adjacent Class 1, 2, 3, or 4 land that is below 5 metres AHD and by which the watertable is likely to be lowered below 1 metre AHD on adjacent Class 1, 2, 3 or 4 land, present an environmental risk	Ku-ring-gai Local Environmental Plan 2015

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

Soil Class	Description	EPI Name	Distance	Direction
None				

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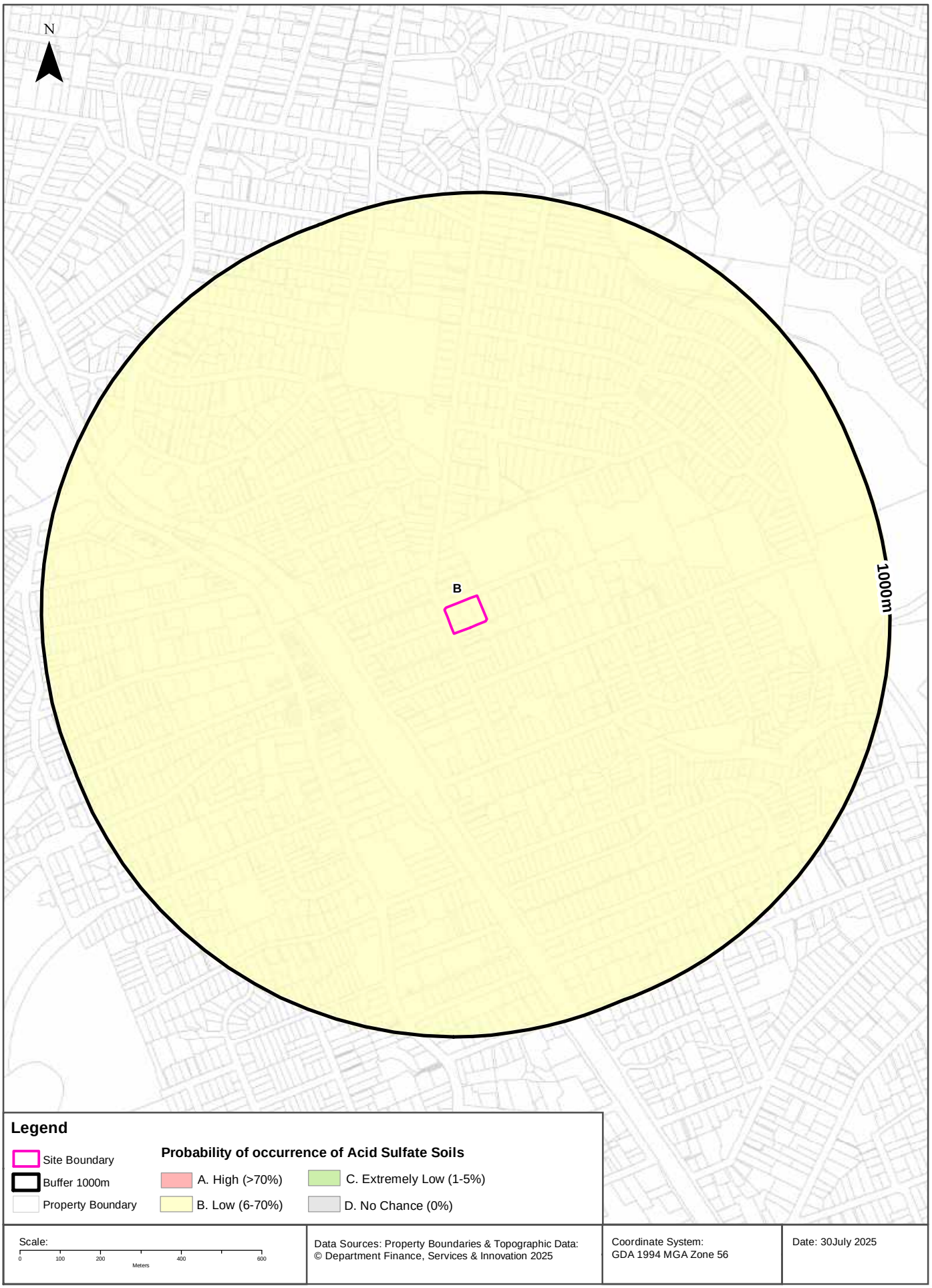
Atlas of Australian Acid Sulfate Soils

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Acid Sulfate Soils

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO
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Dryland Salinity

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

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

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

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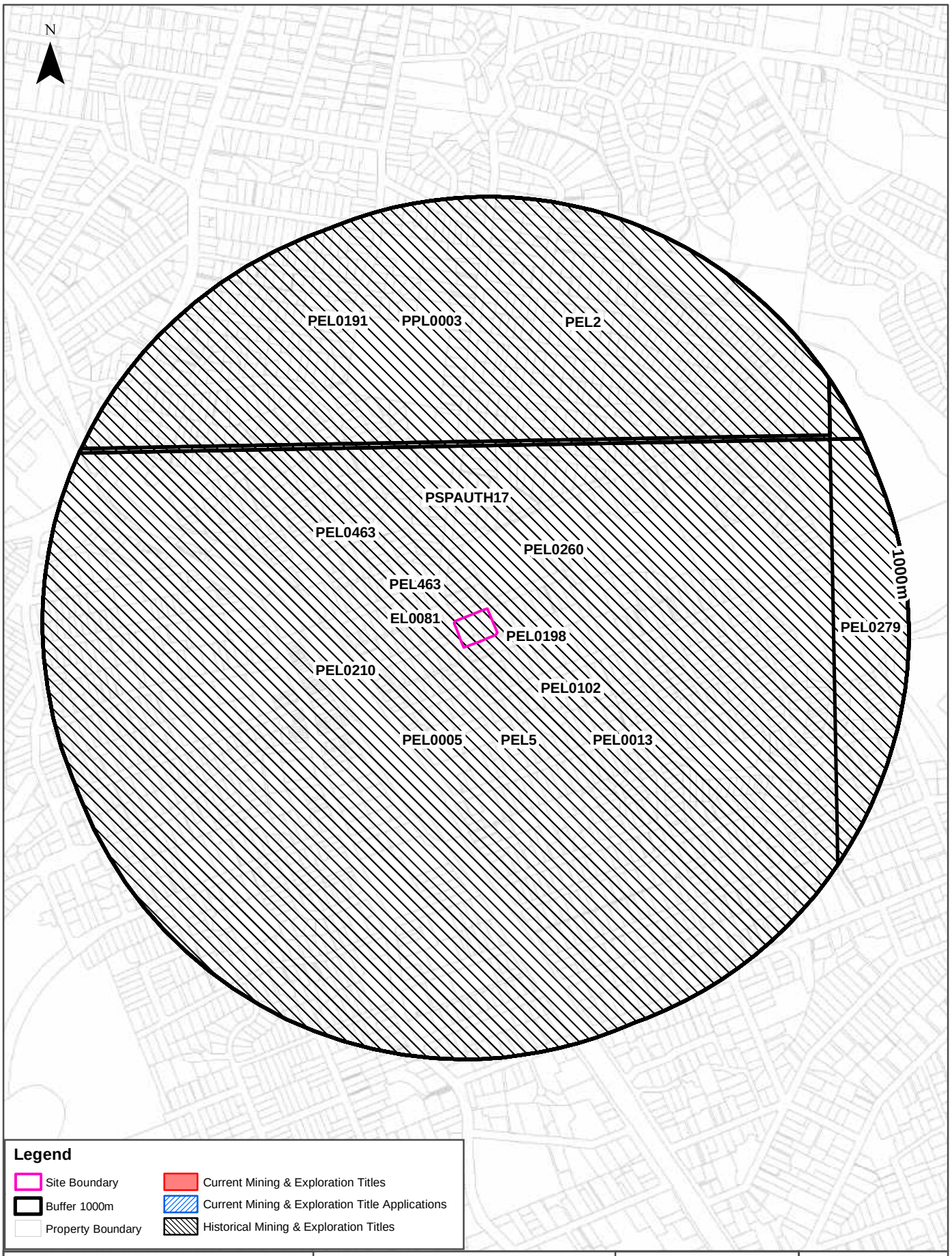

Mining

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

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

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

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Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

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

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

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Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
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
PEL0463	DART ENERGY (APOLLO) PTY LTD	20091010	20150603	PETROLEUM	Petroleum	0m	On-site
PEL0198	JOHN STREVENS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
EL0081	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	19670201	19680201	MINERALS		0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	20070803	20080703	PETROLEUM	Petroleum	0m	On-site
PEL0005	AGL UPSTREAM INVESTMENTS PTY LIMITED	19931111	20150403	PETROLEUM	Petroleum	0m	On-site
PPL0003	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	395m	North
PEL0191	NORTHWEST OIL AND MINERALS CO NL			PETROLEUM	Petroleum	395m	North
PEL2	AGL UPSTREAM INVESTMENTS PTY LIMITED	20000120	20001108	MINERALS		406m	North
PEL0279	THE ELECTRICITY COMMISSION OF NSW (TRADING AS PACIFIC POWER)	19910504	19931111	PETROLEUM	Petroleum	817m	East

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

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State Environmental Planning Policy

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

State Significant Precincts

What SEPP State Significant Precincts exist within the dataset buffer?

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

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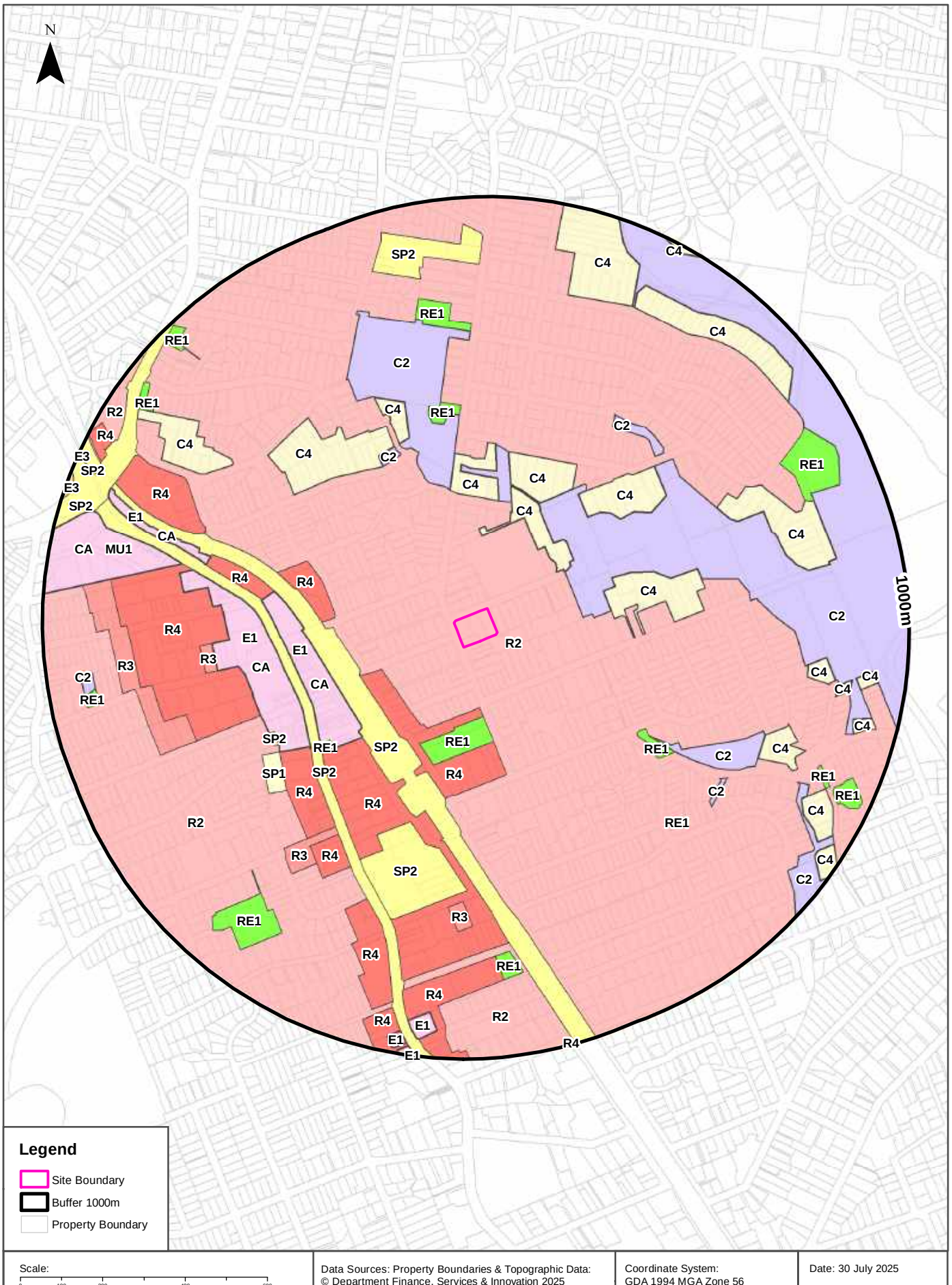
EPI Planning Zones

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Scale:	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025 Planning: NSW Crown Copyright - Planning & Environment	Coordinate System: GDA 1994 MGA Zone 56	Date: 30 July 2025

Environmental Planning Instrument

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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
R2	Low Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	0m	On-site
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	151m	South
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	173m	South
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	176m	North East
C2	Environmental Conservation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	205m	East
SP2	Infrastructure	Railway Infrastructure	Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	251m	South West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	262m	North
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	275m	East
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	285m	North East
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	291m	West
C2	Environmental Conservation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	302m	North
CA	Complex Area		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	312m	West
E1	Local Centre		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	312m	West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	328m	North East
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	330m	South
SP2	Infrastructure	Classified Road	Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	394m	South West
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	398m	South West
C2	Environmental Conservation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	414m	North West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	414m	North West
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	416m	South East
CA	Complex Area		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	420m	West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E1	Local Centre		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	420m	West
SP2	Infrastructure	Educational Establishment	Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	442m	South
C2	Environmental Conservation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	442m	South East
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	445m	West
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	447m	South West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	450m	North
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	461m	North
SP2	Infrastructure	Local Road	Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	505m	South West
R2	Low Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	508m	South West
SP1	Special Activities	Cemetery	Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	515m	South West
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	520m	West
C2	Environmental Conservation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	534m	North East
R3	Medium Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	534m	South West
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	549m	South West
R3	Medium Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	587m	West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	608m	East
E1	Local Centre		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	613m	West
CA	Complex Area		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	613m	West
R3	Medium Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	617m	South
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	619m	South East
C2	Environmental Conservation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	643m	South East
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	644m	North West
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	656m	South
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	661m	North West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	674m	North
CA	Complex Area		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	680m	West
MU1	Mixed Use		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	680m	West
R3	Medium Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	688m	West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	695m	East
R2	Low Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	725m	South
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	745m	South
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	747m	South West
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	753m	South
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	757m	East
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	785m	North
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	790m	North East
C2	Environmental Conservation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	811m	South East
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	813m	North East
SP2	Infrastructure	Educational Establishment	Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	817m	North
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	833m	East
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	840m	South East
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	843m	South East
SP2	Infrastructure	Classified Road	Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	870m	North West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	877m	East
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	885m	West
C2	Environmental Conservation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	886m	West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	888m	East
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	888m	North West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
CA	Complex Area		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	889m	South
E1	Local Centre		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	889m	South
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	893m	South
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	894m	North West
RE1	Public Recreation		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	900m	South East
R2	Low Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	931m	North West
SP2	Infrastructure	Railway Infrastructure	Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	935m	North West
R4	High Density Residential		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	938m	North West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	939m	South East
CA	Complex Area		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	945m	South
E1	Local Centre		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	945m	South
E3	Productivity Support		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	952m	North West
C4	Environmental Living		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	969m	North East
E1	Local Centre		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	977m	South
CA	Complex Area		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	977m	South
E3	Productivity Support		Ku-ring-gai Local Environmental Plan 2015	14/04/2023	26/04/2023	06/09/2024	Map Amendment No 4	983m	West

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Heritage Items

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Legend

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

Scale: 0 100 200 400 600 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025
Heritage - NSW Crown Copyright - Planning & Environment

Coordinate System: GDA 1994 MGA Zone 56

Date: 30 July 2025

Heritage

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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
106268	National Trust Urban Conservation Areas of Kur-ring-gai	Pacific Hwy Wahroonga NSW	1/13/020/0060	Historic	Nominated place		0m	On-site

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
5012021	Gordon Railway Station group	Middlemiss Street, Gordon	KU-RING-GAI	02/04/1999	01150	2407	251m	South West
5045350	Eryldene	17 McIntosh Street Gordon	KU-RING-GAI	02/04/1999	00019	188	351m	South
5045087	Gordon Public School	799 Pacific Highway Gordon	KU-RING-GAI	02/04/1999	00757	1819	394m	West
5001053	Tulkiyan	707 Pacific Highway Gordon	KU-RING-GAI	27/05/2005	01733	2004	431m	South West
5045073	Iolanthe	691 Pacific Highway Gordon	KU-RING-GAI	02/04/1999	00227	606	562m	South West
5049861	Harry and Penelope Seidler House	13 Kalang Avenue Killara	KU-RING-GAI	20/06/2008	01793	2187	939m	South East

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

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

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
C13	Roberts Grant Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	0m	On-site
C39	Robert Street/Khartoum Avenue Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	20m	South West
I26	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	40m	South West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I189	Lady Gowrie Retirement Village (formerly known as Burnham Thorpe)	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	48m	North East
I73	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	58m	North West
I7	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	78m	West
I1102	Bradfield Memorial Gardens	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	78m	North West
I1114	Denholm, dwelling house and interior	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	21/06/2024	21/06/2024	21/06/2024	82m	East
I239	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	87m	North
I205	Dwelling House "Gowanlea"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	97m	East
I190	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	105m	East
I221	Dwelling house Annie Wyatt House	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	120m	North West
C12	Gordondale Estate Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/08/2023	18/08/2023	21/06/2024	120m	North West
I20	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	132m	West
I207	Dwelling House "Theace"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	134m	East
I238	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	03/03/2023	03/03/2023	21/06/2024	140m	North West
I204	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	150m	South
I25	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	150m	South West
C15	Gordon Park Estate, Mcintosh and Ansell Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	150m	South East
I222	Baptist Church & Manse	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	152m	North West
I191	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	167m	North East
I209	Dwelling House "Trewayr"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	172m	East
I193	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	178m	North West
I206	Dwelling House "Aberdour"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	180m	South East
I21	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	187m	West
I192	Baptist Church & Manse	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	188m	North West
I208	Dwelling house "Carinya"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	203m	South East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
C14	Love Estate, Thorne Grant Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	205m	East
I22	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	209m	West
I194	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	217m	North West
I199	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	218m	North
I1	Eudesmia, dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	229m	North West
I210	Dwelling House "Mandalay"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	236m	East
I6	Gordon Station Railway Group	Item - General	State	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	251m	South West
I211	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	273m	East
I212	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	289m	East
I213	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	305m	East
I23	Gordon Pre-School building	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	311m	West
I214	Dwelling House "Millthorn"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	312m	East
I14	Former Gordon Post Office	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	338m	South West
I18	Commonwealth Bank	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	341m	South West
C17	Gordon Park Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	349m	South
I5	Westward-Ho, residential flat building	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	350m	South West
I8	Eryldene, dwelling house	Item - General	State	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	351m	South
I215	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	03/03/2023	03/03/2023	21/06/2024	353m	East
I195	Dwelling house "Killarney Castle"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	364m	North
I24	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	374m	West
I216	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	381m	East
I16	Old Gordon Primary School	Item - General	State	Ku-ring-gai Local Environmental Plan 2015	03/03/2023	03/03/2023	21/06/2024	395m	West
I11	Tulkiyan, dwelling house	Item - General	State	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	431m	South West
I19	St John's Church and Cemetery	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	447m	South West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
C16	St Johns Avenue Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/08/2023	18/08/2023	21/06/2024	447m	South West
I17	Ku-ring-gai Council Chamber	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	448m	West
I29	Rochester, dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	456m	South
I198	Dwelling house "Matong"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	462m	East
I28	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	472m	South
I15	Windsor House, dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	484m	South West
I32	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	507m	South
I10	Iolanthe, dwelling house	Item - General	State	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	517m	South
I13	Seventh Day Adventist Office	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	519m	South West
I9	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	542m	West
I27	Oberon, dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	565m	South West
C20	Greengate Estate Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	576m	South East
C18	Yarabah Avenue Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	599m	South West
I12	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	03/03/2023	03/03/2023	21/06/2024	599m	South West
I264	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	603m	South East
I2	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	617m	South
I3	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	03/03/2023	03/03/2023	21/06/2024	632m	South
I4	Dwelliing house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	03/03/2023	03/03/2023	21/06/2024	644m	South
I243	Dwelling house "J. Tuck House"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	660m	North East
I30	Nebraska, dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	663m	South West
C19	Smith Grant Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/08/2023	18/08/2023	21/06/2024	727m	South West
I196	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	751m	North West
I294	Dwelling House "Deepdene"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	757m	South East
I240	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	757m	North

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I31	Fane Edge, dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	18/06/2021	28/06/2021	21/06/2024	776m	South
I329	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	776m	East
I333	Dwelling house "Arthur Kennedy House"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	778m	East
I331	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	779m	East
I332	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	780m	East
I200	"Birralee" Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	15/07/2022	15/07/2022	21/06/2024	785m	South West
I279	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	792m	South East
I278	Dwelling house "Misrule"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	792m	South
I280	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	793m	South East
I281	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	795m	South East
I241	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	809m	North
I218	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	812m	North East
I295	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	819m	South East
I274	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	821m	South
I201	Moree Street Cottage Group	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	828m	South West
I296	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	836m	South East
I202	Moree Street Cottage Group	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	837m	West
I330	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	837m	East
I277	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	859m	South
I282	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	863m	South East
I276	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	869m	South
C21	Springdale Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	875m	South East
I275	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	880m	South
I203	Moree Street Cottage Group	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	889m	West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I344	Greengate Hotel	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	889m	South
I498	Dwelling house "Glengariff"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	21/10/2016	21/10/2016	21/06/2024	889m	North West
I591	"Narrelle" Weatherboard cottage	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	890m	North West
I297	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	891m	South East
I186	Cedar Bank, dwelling house former 7 Stuart Street	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	03/03/2023	03/03/2023	21/06/2024	894m	South West
I353	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	909m	South East
I351	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	909m	South
I354	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	913m	South East
I283	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	914m	East
I574	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	931m	North West
I349	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	932m	South
I355	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	933m	South East
I187	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	938m	South West
I284	Dwelling house "Harry and Penelope Seidler House"	Item - General	State	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	939m	South East
I346	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	952m	South
I592	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	959m	North West
I185	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	976m	South West
C23	Lynwood Avenue Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	978m	South East
C9	Fernwalk Conservation Area	Conservation Area - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	987m	North West
I575	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	987m	North West
I350	Dwelling House "Woodfield"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	989m	South
I352	Dwelling house "Currawinya"	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	989m	South
I576	Dwelling house	Item - General	Local	Ku-ring-gai Local Environmental Plan 2015	05/03/2015	02/04/2015	21/06/2024	993m	North West

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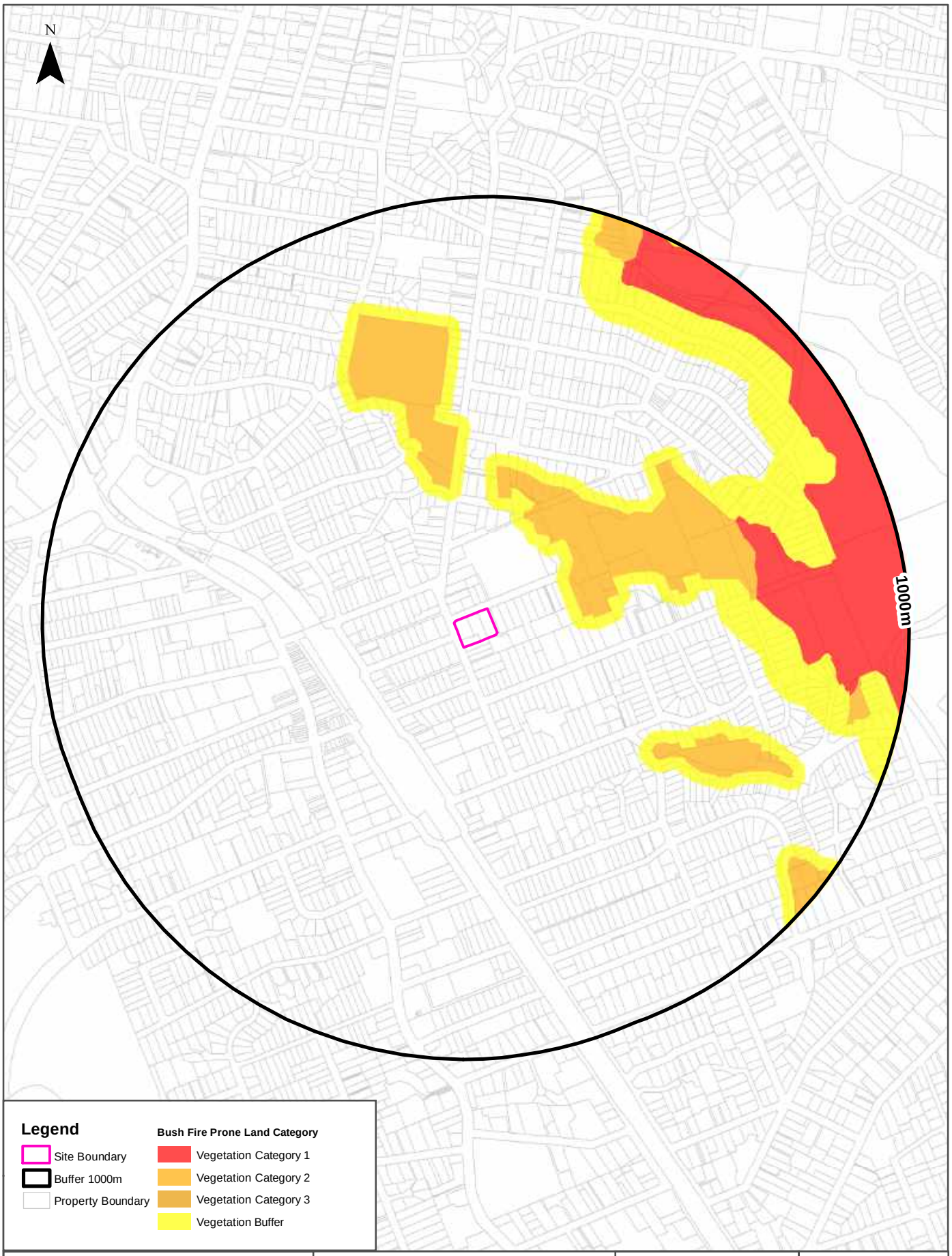
Natural Hazards - Bush Fire Prone Land

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Data Sources: Bush Fire Prone Land: © NSW Rural Fire Service 2025. Property Boundaries: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 30 July 2025

Natural Hazards

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Bush Fire Prone Land

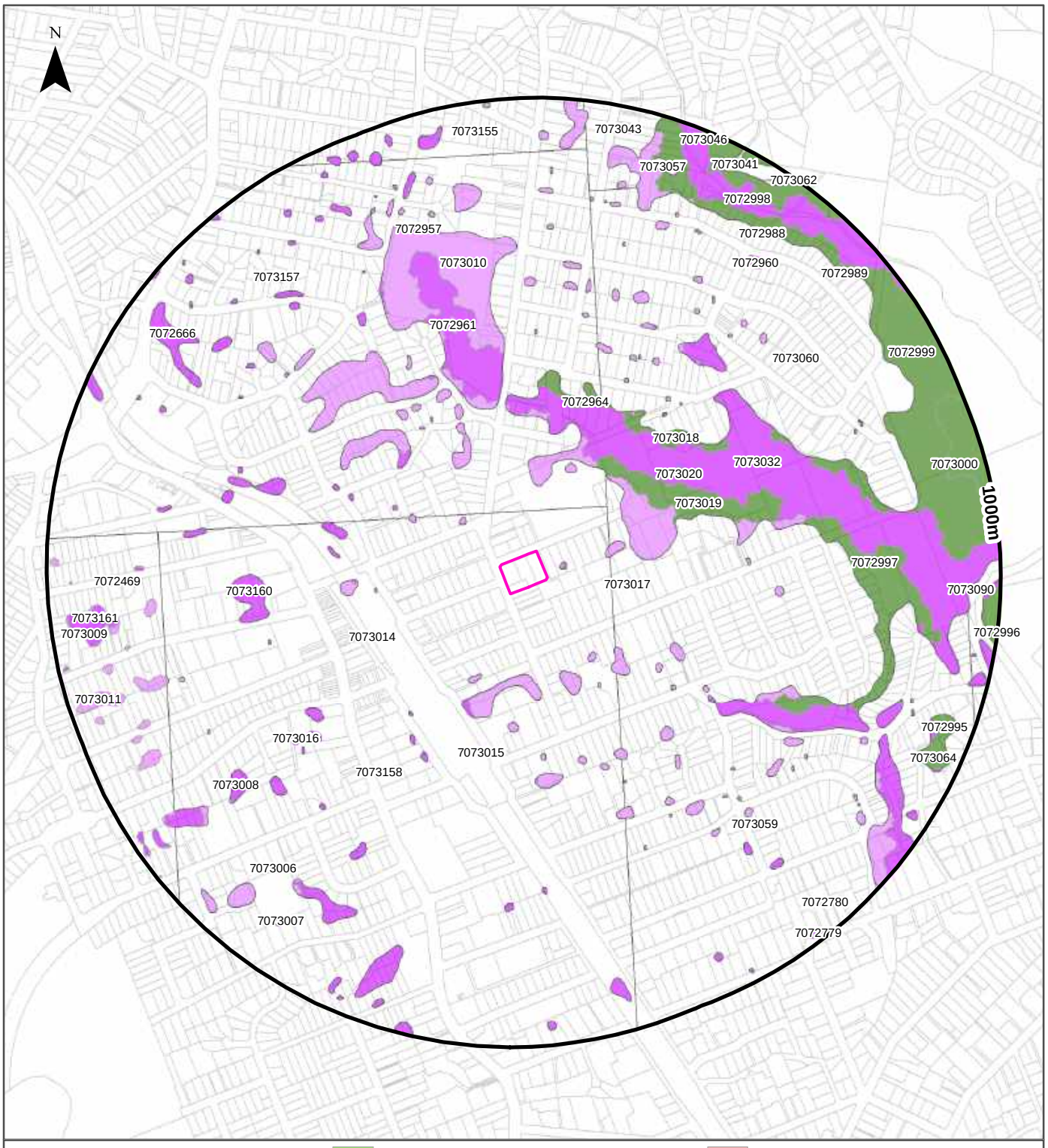
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Buffer	177m	North East
Vegetation Category 2	207m	North East
Vegetation Category 1	632m	East

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

Ecological Constraints - Vegetation & Ramsar Wetlands

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Site Boundary
ReportBuffer
Property Boundary
Ramsar Wetland

Native Vegetation

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

Scale: 0 100 200 400 600 Meters

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 30 July 2025

Ecological Constraints

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
7073158	Not classified	(Not classified) Not classified	Not classified	0m	On-site
7072666	Wet Sclerophyll Forests (Shrubby sub-formation)	(Wet Sclerophyll Forests (Shrubby sub-formation)) Blue Gum High Forest	North Coast Wet Sclerophyll Forests	33m	West
7073010	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	33m	North
7073157	Not classified	(Not classified) Not classified	Not classified	89m	North West
7073059	Not classified	(Not classified) Not classified	Not classified	139m	South East
7073017	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	174m	East
7073019	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	224m	North East
7073032	Wet Sclerophyll Forests (Shrubby sub-formation)	(Wet Sclerophyll Forests (Shrubby sub-formation)) Sydney Enriched Sandstone Moist Forest	North Coast Wet Sclerophyll Forests	232m	North East
7073014	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	311m	South West
7072964	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	325m	North
7073018	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	336m	North East
7073015	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	346m	South
7073020	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	346m	North East
7073060	Not classified	(Not classified) Not classified	Not classified	355m	North East
7072961	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	513m	North
7073160	Not classified	(Not classified) Not classified	Not classified	551m	West
7072999	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	563m	North East
7073016	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	565m	South West
7072997	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	568m	East
7073011	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	667m	South West
7073008	Wet Sclerophyll Forests (Shrubby sub-formation)	(Wet Sclerophyll Forests (Shrubby sub-formation)) Blue Gum High Forest	North Coast Wet Sclerophyll Forests	709m	South West
7072469	Not classified	(Not classified) Not classified	Not classified	750m	West
7072957	Wet Sclerophyll Forests (Shrubby sub-formation)	(Wet Sclerophyll Forests (Shrubby sub-formation)) Blue Gum High Forest	North Coast Wet Sclerophyll Forests	758m	North
7072960	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Coastal Shale-Sandstone Forest	Northern Hinterland Wet Sclerophyll Forests	759m	North East
7073009	Wet Sclerophyll Forests (Shrubby sub-formation)	(Wet Sclerophyll Forests (Shrubby sub-formation)) Sydney Enriched Sandstone Moist Forest	North Coast Wet Sclerophyll Forests	787m	West

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
7073006	Wet Sclerophyll Forests (Shrubby sub-formation)	(Wet Sclerophyll Forests (Shrubby sub-formation)) Blue Gum High Forest	North Coast Wet Sclerophyll Forests	797m	South West
7073043	Not classified	(Not classified) Not classified	Not classified	803m	North
7072988	Rainforests	(Rainforests) Sydney Coastal Coachwood Gallery Rainforest	Northern Warm Temperate Rainforests	858m	North East
7073007	Wet Sclerophyll Forests (Shrubby sub-formation)	(Wet Sclerophyll Forests (Shrubby sub-formation)) Blue Gum High Forest	North Coast Wet Sclerophyll Forests	879m	South West
7073155	Not classified	(Not classified) Not classified	Not classified	879m	North
7073057	Not classified	(Not classified) Not classified	Not classified	881m	North
7073161	Not classified	(Not classified) Not classified	Not classified	898m	West
7072998	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	899m	North East
7073000	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Sandstone Bloodwood Shrub Forest	Sydney Coastal Dry Sclerophyll Forests	902m	East
7072995	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	903m	East
7072989	Rainforests	(Rainforests) Sydney Coastal Coachwood Gallery Rainforest	Northern Warm Temperate Rainforests	911m	North East
7073090	Not classified	(Not classified) Not classified	Not classified	927m	East
7073064	Not classified	(Not classified) Not classified	Not classified	931m	South East
7073041	Not classified	(Not classified) Not classified	Not classified	936m	North East
7072780	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	937m	South East
7073062	Not classified	(Not classified) Not classified	Not classified	955m	North East
7072996	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) Sydney Coastal Enriched Sandstone Forest	Sydney Coastal Dry Sclerophyll Forests	960m	East
7072779	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) Sydney Turpentine Ironbark Forest	Northern Hinterland Wet Sclerophyll Forests	973m	South East
7073046	Not classified	(Not classified) Not classified	Not classified	976m	North East

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

What Ramsar Wetland areas exist within the dataset buffer?

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

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

Ecological Constraints

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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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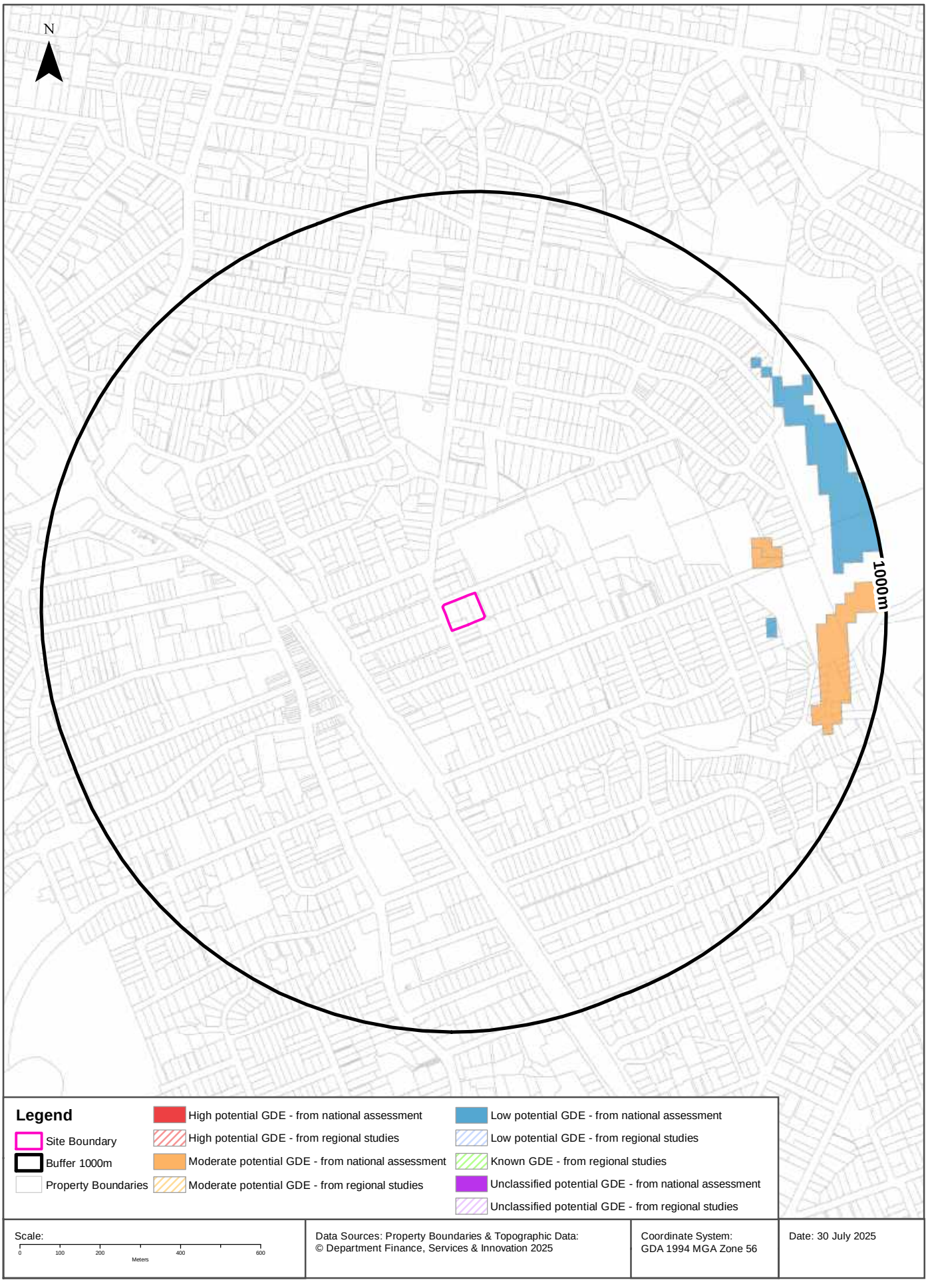
Ecological Constraints - Groundwater Dependent Ecosystems Atlas

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Ecological Constraints

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	Moderate potential GDE - from national assessment	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	677m	East
Terrestrial	Low potential GDE - from national assessment	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	699m	East

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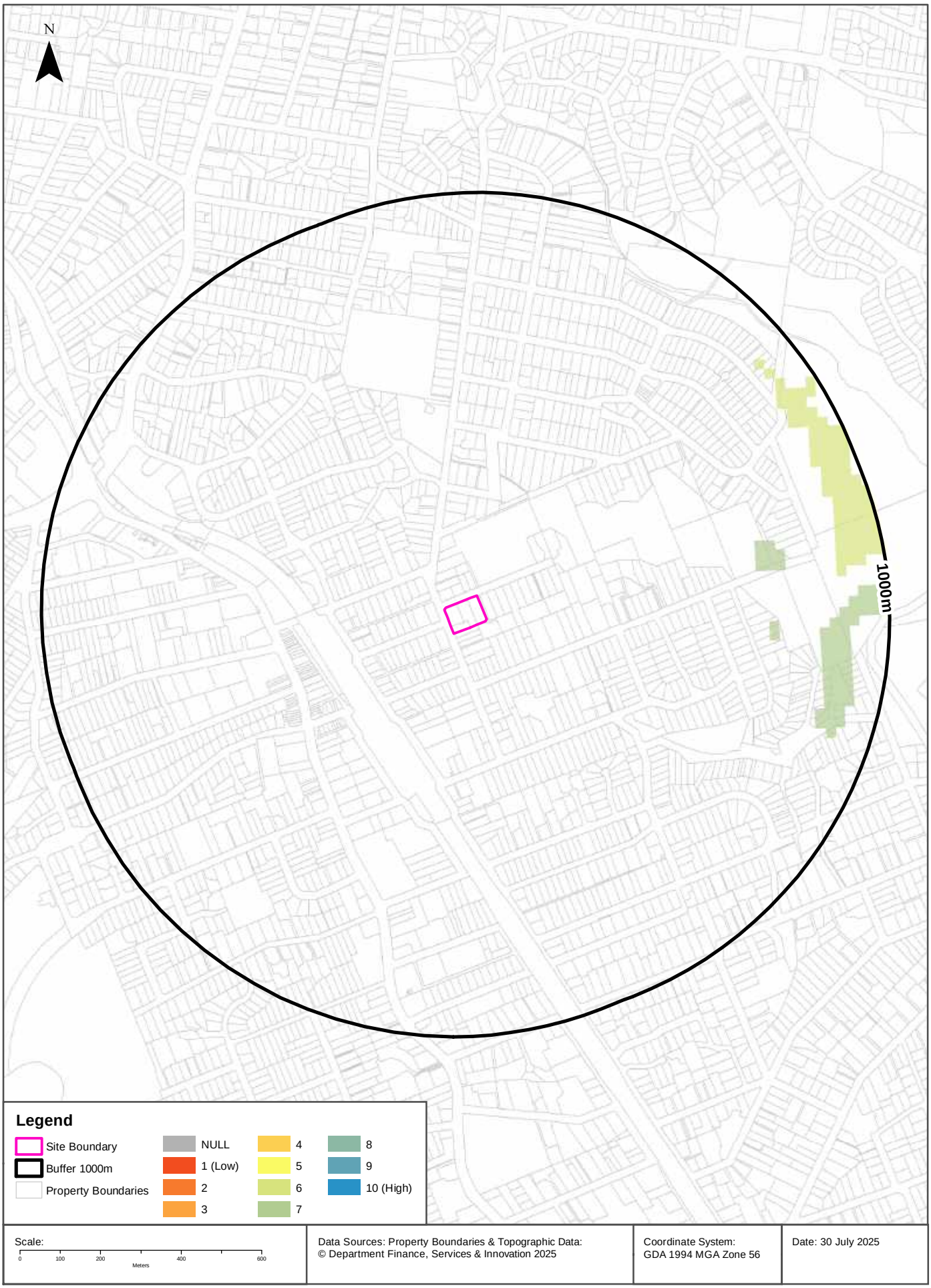
Ecological Constraints - Inflow Dependent Ecosystems Likelihood

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072



Ecological Constraints

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	7	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	677m	East
Terrestrial	6	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	874m	East

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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Ecological Constraints

1-1a Edward & 25-27 Rosedale Streets, Gordon, NSW 2072

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	Heleioporus australiacus	Giant Burrowing Frog	Not Sensitive	Vulnerable	Vulnerable	
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	Amaurornis moluccana	Pale-vented Bush-hen	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 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	Vulnerable	Vulnerable	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	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris falcinellus	Broad-billed Sandpiper	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Not Sensitive	Critically Endangered	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ruficollis	Red-necked Stint	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Category 3	Endangered	Endangered	
Animalia	Aves	Calyptorhynchus banksii banksii	Red-tailed Black-Cockatoo (coastal subspecies)	Category 2	Critically Endangered	Not Listed	
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	Cecropis daurica	Red-rumped Swallow	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Certhionyx variegatus	Pied Honeyeater	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

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Not Sensitive	Endangered	Vulnerable	
Animalia	Aves	Ephippiorhynchus asiaticus	Black-necked Stork	Not Sensitive	Endangered	Not Listed	
Animalia	Aves	Esacus magnirostris	Beach Stone-curlew	Not Sensitive	Critically Endangered	Not Listed	
Animalia	Aves	Falco hypoleucos	Grey Falcon	Category 2	Vulnerable	Vulnerable	
Animalia	Aves	Falco subniger	Black Falcon	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;JAMBA
Animalia	Aves	Grantiella picta	Painted Honeyeater	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	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	Limosa lapponica	Bar-tailed Godwit	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Not Sensitive	Endangered	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophochroa leadbeateri	Pink Cockatoo	Category 2	Vulnerable	Endangered	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Menura alberti	Albert's Lyrebird	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Nettapus coromandelianus	Cotton Pygmy-Goose	Not Sensitive	Endangered	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 minutus	Little Curlew	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Onychoprion fuscatus	Sooty Tern	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pachycephala olivacea	Olive Whistler	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Parvipsitta pusilla	Little Lorikeet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Not Sensitive	Vulnerable	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Petroica rodinogaster	Pink Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Polytelis anthopeplus monarchoides	Regent Parrot (eastern subspecies)	Category 3	Endangered	Vulnerable	
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Category 3	Vulnerable	Vulnerable	
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	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	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	Todiramphus chloris	Collared Kingfisher	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Tringa brevipes	Grey-tailed Tattler	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	Gastropoda	Pommerhelix duralensis	Dural Land Snail	Not Sensitive	Endangered	Endangered	
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	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	Eubalaena australis	Southern Right Whale	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Isoodon obesulus obesulus	Southern Brown Bandicoot (eastern)	Not Sensitive	Endangered	Endangered	
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	Notamacropus parma	Parma Wallaby	Not Sensitive	Vulnerable	Vulnerable	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Petauroides volans	Southern Greater Glider	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Phoniscus papuensis	Golden-tipped Bat	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	Vulnerable	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Vespadelus troughtoni	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	Cyclodomorphus melanops elongatus	Mallee Slender Blue-tongue Lizard	Not Sensitive	Endangered	Not Listed	
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	Eulamprus kosciuskoi	Alpine Water Skink	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Hemiaspis damelii	Grey Snake	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Myuchelys bellii	Western Sawshelled Turtle, Bell's Turtle	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Pseudonaja modesta	Ringed Brown Snake	Not Sensitive	Endangered	Not Listed	
Animalia	Reptilia	Suta flagellum	Little Whip Snake	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Tiliqua multifasciata	Centralian Blue-tongued Lizard	Not Sensitive	Vulnerable	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	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Fungi	Flora	Hygrocybe lanecovensis		Not Sensitive	Endangered	Not Listed	
Fungi	Flora	Hygrocybe reesiae		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 cluniesrossiae	Kanangra Wattle	Not Sensitive	Vulnerable	Not Listed	
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	Caladenia tessellata	Thick Lip Spider Orchid	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Category 3	Vulnerable	Not Listed	
Plantae	Flora	Cryptostylis hunteriana	Leafless Tongue Orchid	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Darwinia biflora		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Darwinia peduncularis		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Davidsonia jerseyana	Davidson's Plum	Category 2	Endangered	Endangered	
Plantae	Flora	Deyeuxia appressa		Not Sensitive	Endangered	Endangered	
Plantae	Flora	Diuris bracteata		Category 2	Endangered	Extinct	
Plantae	Flora	Epacris purpurascens var. purpurascens		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Epacris sparsa	Sparse Heath	Not Sensitive	Vulnerable	Endangered	
Plantae	Flora	Eucalyptus camfieldii	Camfield's Stringybark	Not Sensitive	Vulnerable	Vulnerable	
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 scoparia	Wallangarra White Gum	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Galium australe	Tangled Bedstraw	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Gaudium deanei		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Genoplesium baueri	Bauer's Midge Orchid	Category 2	Endangered	Endangered	
Plantae	Flora	Genoplesium plumosum	Tallong Midge Orchid	Category 2	Critically 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	Grevillea hilliana	White Yiel Yiel	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Grevillea juniperina subsp. juniperina	Juniper-leaved Grevillea	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Haloragodendron lucasii		Not Sensitive	Endangered	Endangered	
Plantae	Flora	Hibbertia puberula		Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Hibbertia spanantha	Julian's Hibbertia	Category 2	Critically Endangered	Critically Endangered	
Plantae	Flora	Hibbertia superans		Not Sensitive	Endangered	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Isotoma fluviatilis subsp. fluviatilis		Category 3	Not Listed	Extinct	
Plantae	Flora	Lasiopetalum joyceae		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	Microtis angusii	Angus's Onion Orchid	Category 2	Endangered	Endangered	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Category 3	Endangered	Endangered	
Plantae	Flora	Persoonia mollis subsp. maxima		Not Sensitive	Endangered	Endangered	
Plantae	Flora	Persoonia pauciflora	North Rothbury Persoonia	Category 3	Critically Endangered	Critically Endangered	
Plantae	Flora	Pimelea curviflora var. curviflora		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Prostanthera marifolia	Seaforth Mintbush	Category 3	Critically Endangered	Critically Endangered	
Plantae	Flora	Pterostylis nigricans	Dark Greenhood	Category 2	Vulnerable	Not Listed	
Plantae	Flora	Rhizanthella slateri	Eastern Australian Underground Orchid	Category 2	Vulnerable	Endangered	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Not Sensitive	Critically Endangered	Critically Endangered	
Plantae	Flora	Sarcochilus hartmannii	Hartman's Sarcochilus	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Senecio behrianus		Not Sensitive	Extinct	Endangered	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Tetratheca glandulosa		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Tetratheca juncea	Black-eyed Susan	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Wilsonia backhousei	Narrow-leafed Wilsonia	Not Sensitive	Vulnerable	Not Listed	

Source: NSW BioNet Species Sightings

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Location Confidences

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

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

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APPENDIX D

Historical Title Search Results

ADVANCE LEGAL SEARCHERS PTY LTD

(ACN 147 943 842)
ABN 82 147 943 842

18/36 Osborne Road,
Manly NSW 2095

Mobile: +61 412 169 809
Email: search@alsearchers.com.au

30th July, 2025

GEO_ENVIRONMENTAL ENGINEERING PTY LTD
Unit 2, 5 -7 Malta Street,
FAIRFIELD EAST, NSW 2165

Attention: Stephen McCormack,

RE: **1 & 1A Edward Street,**
&
25 & 27 Rosedale Street,
Gordon

Note 1:	**Lot A**	**DP 189351**	**(No. 1 Edward Street)**	(page 1)
Note 2:	**Lot C**	**DP 334965**	**(No. 1 Edward Street)**	(page 4)
Note 3:	**Lot B**	**DP 334965**	**(No. 25 Rosedale Street)**	(page 6)
Note 4:	**Lot A**	**DP 334965**	**(No. 275 Rosedale Street)**	(page 8)

Note 1:

Current Search

Folio Identifier A/189351 (title attached)
DP 189351 (plan attached)
Dated 29th July, 2025
Registered Proprietor:
WING FOO CHANG

Title Tree
Lot A DP 189351

Folio Identifier A/189351

Certificate of Title Volume 5030 Folio 118

Certificate of Title Volume 2636 Folio 218

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Index

T – Transfer
AA – Section 94 Application

****

Summary of Proprietor(s)
Lot A DP 189351

Year	Proprietor (s)	
	(Lot A DP 189351)	
06 Apr 2006 todate	Wing Foo Chang	T
11 Apr 1990	Wilfred Philip McDowell, company director	
	(Lot A DP 189351 – Area 1 Rood 32 ¾ Perches – CTVol 5030 Fol 118)	
16 May 1973	Wilfred Philip McDowell, company director	T
06 Feb 1963	Birriga Investments Pty Limited	T
04 Apr 1962	Mary Rosalind Martell, widow	AA
22 Jul 1954	Carl Ramsay Martell, retired bank manager	T
30 Mar 1939	Mary Rosalind Martell, wife of Carl Ramsay Martell, bank manager	
	(Lot 23 DP 2834 – Area 2 Roods 4 ½ Perches – CTVol 2636 Fol 218)	
30 Dec 1935	Mary Rosalind Martell, wife of Carl Ramsay Martell, bank manager	T
22 May 1917	Eleanor Una Roberts, married woman	T
12 Jan 1916	Rose Elizabeth Maud Greenaway, wife of Stanley James Greenaway, grazier	

****

Note 2:

Current Search

Folio Identifier C/334965 (title attached)
DP 334965 (plan attached)
Dated 29th July, 2025
Registered Proprietor:
JIAYUE LI

Title Tree
Lot C DP 334965

Folio Identifier C/334965

Certificate of Title Volume 4856 Folio 191

(a)	**(b)**
CTVol 1502 Folio 232	CTVol 4845 Folio 130
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Index

T – Transfer
TA – Transmission Application
AA – Section 94 Application

****

Summary of Proprietor(s)
Lot C DP 334965

Year **Proprietor (s)**

	(Lot C DP 334965)	
19 Jul 2021 todate	Jiayue Li	T
17 Jun 2019	Yarrabung Pty Ltd *(ACN 632 983 469)*	T
14 May 2019	Ian Arthur Dreverman	TA
09 Apr 1990	Arthur Henry Dreverman, chartered engineer	
	(Lot C DP 334965 – Area 1 Rood 27 ½ Perches – CTVol 4856 Fol 191)	
16 Feb 1962	Arthur Henry Dreverman, chartered engineer	T
02 Sep 1958	Ronald Edmond Ewington, purchasing manager	T
05 Aug 1958	Elizabeth Geraldine Lawrie, femme sole Ailsa Joyce Lindeman, married woman	AA
10 May 1949	Margaret Lawrie Morrison	TA
16 Jul 1937	Lucy Elizabeth Chisholm, widow	T

See Notes (a) & (b)

Note (a)

	(Lot 24 DP 2834 – Area 1 Rood 8 ¼ Perches – CTVol 1502 Fol 232)	
02 Dec 1903	Margaret Elizabeth Cook, spinster	T

****

Note (b)

	(Lots 25 & 26 DP 2834 – Area 2 Roods 33 ½ Perches – CTVol 4845 Fol 130)	
07 Jun 1937	Herbert Langley Tress, solicitor Elsie Violette Tress, his wife	T
01 Jun 1937	Public Trustee	

****

Note 3:

Current Search

Folio Identifier B/334965 (title attached)
DP 334965 (plan attached)
Dated 29th July, 2025
Registered Proprietor:
GAOFENG MA
RUOLAN SHEN

Title Tree
Lot B DP 334965

Folio Identifier B/334965

Certificate of Title Volume 11227 Folio 20

Certificate of Title Volume 8417 Folio's 136 & 137

Certificate of Title Volume 4856 Folio 220

Certificate of Title Volume 1502 Folio 232

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Index

T – Transfer
AA – Section 94 Application

****

Summary of Proprietor(s)
Lot B DP 334965

Year	Proprietor (s)	
	(Lot B DP 334965)	
09 Nov 2018 todate	Gaofeng Ma Ruolan Shen	T
24 May 2000	Andrew Jonathan Smith Louise Smith	T
28 Aug 1989	Leo Arthur Feain, medical practitioner Madeline Jean Feain, his wife	
	(Lot B DP 334965 – CTVol 11227 Fol 20)	
02 Jun 1971	Leo Arthur Feain, medical practitioner Madeline Jean Feain, his wife	T
15 Jan 1970	A.M.K. Constructions Pty Limited	
	(Lot B DP 334965 – Area 33 ½ Perches – CTVol 8417 Fol's 136 & 137)	
31 Oct 1969	Ada Kathleen Bell, widow	AA
02 Apr 1968	Dorothy Adelaide Dowling, spinster	T
07 Dec 1962	Dorothy Adelaide Dowling, spinster Vivian Maud Dowling, spinster	T
	(Lot B DP 334965 – Area 33 ½ Perches – CTVol 4856 Fol 220)	
09 Feb 1954	Sybilla Aird, widow	T
19 Jul 1937	Margaret Elizabeth Leet, widow	T
	(Lot 24 DP 2834 – Area 1 Rood 8 ¼ Perches – CTVol 1502 Fol 232)	
02 Dec 1903	Margaret Elizabeth Cook, spinster	T

****

Note 4:

Current Search

Folio Identifier A/334965 (title attached)
DP 334965 (plan attached)
Dated 29th July, 2025
Registered Proprietor:
GORDON DENTAL PTY LTD *(ACN 163 687 554)*

Title Tree
Lot A DP 334965

Folio Identifier A/334965

Certificate of Title Volume 4849 Folio 46

Certificate of Title Volume 4845 Folio 130

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Index

T – Transfer
ND – Notice of Death

****

Summary of Proprietor(s)
Lot A DP 334965

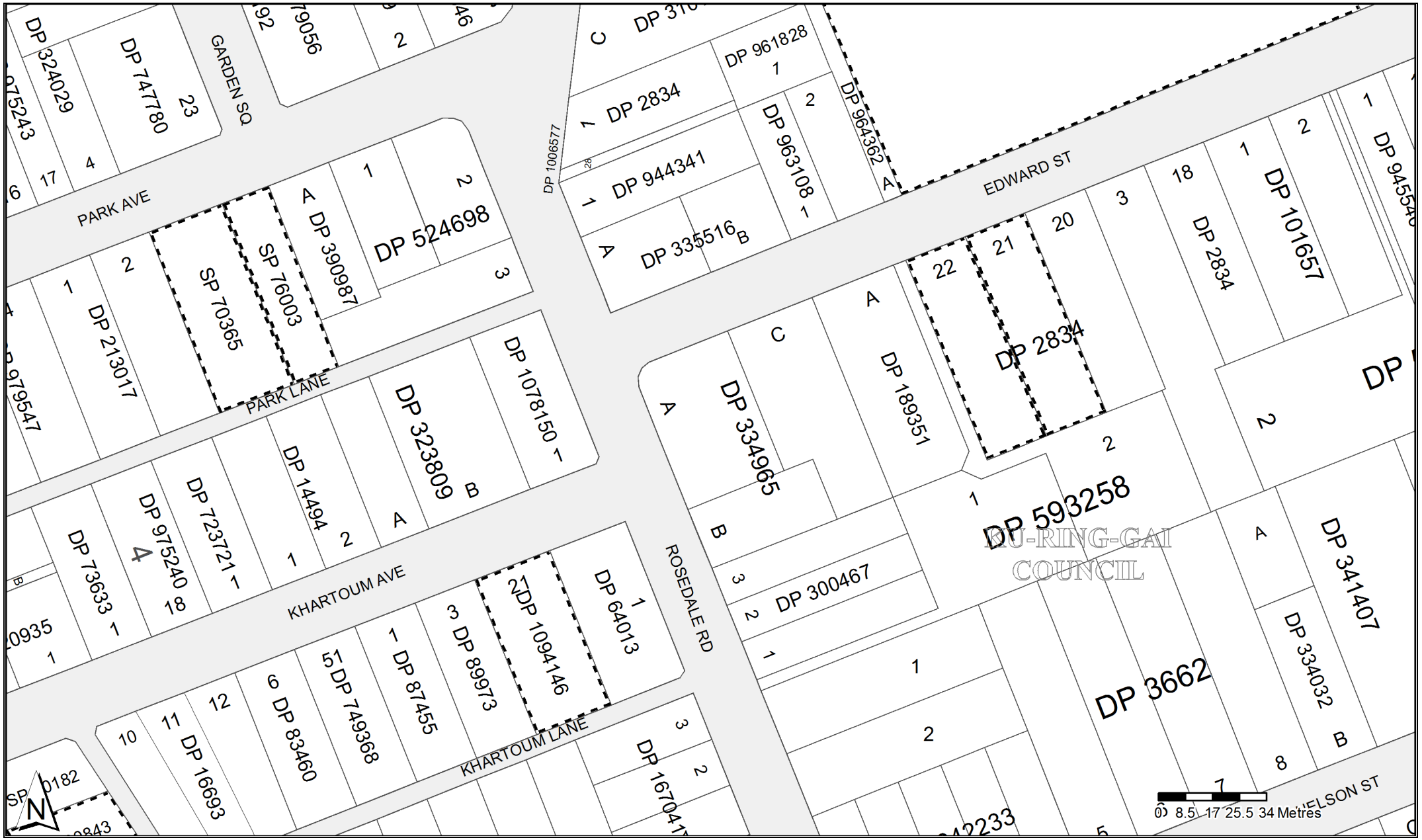
Year	Proprietor (s)	
	(Lot A DP 334965)	
20 Jun 2013 todate	Gordon Dental Pty Ltd **(***ACN 163 687 554)*	T
24 Jun 1994	Randy Allan Yee Linda Gaye Yee	T
19 Mar 1990	Dale Thomas Goodman, company director	
	(Lot A DP 334965 – Area 1 Rood 20 ¾ Perches – CTVol 4849 Fol 46)	
09 Mar 1981	Dale Thomas Goodman, company director	T
08 Jan 1981	Francis Broughton Tress, retired Helen Lilian Marshall, married woman John Owen Maddox, solicitor	T
16 Apr 1943	Elsie Violette Tress, widow	ND
16 Jun 1937	Herbert Langley Tress, solicitor Elsie Violette Tress, his wife	
	(Lots 25 & 26 DP 2834 – Area 2 Roods 33 ½ Perches – CTVol 4845 Fol 130)	
07 Jun 1937	Herbert Langley Tress, solicitor Elsie Violette Tress, his wife	T
01 Jun 1937	Public Trustee	

****

Cadastral Records Enquiry Report : Lot A DP 334965

Ref : NOUSER

Locality : GORDON
Parish : GORDON
LGA : KU-RING-GAI
County : CUMBERLAND



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This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

	Status	Surv/Comp	Purpose
DP2834			
Lot(s): 21, 22			
DP1037402	REGISTERED	SURVEY	EASEMENT
DP1094146			
Lot(s): 21			
CA98224 - LOT 21 DP1094146			
DP1239849			
Lot(s): 1			
DP566257	HISTORICAL	COMPILATION	SUBDIVISION
DP624543	HISTORICAL	SURVEY	CONSOLIDATION
DP668686	HISTORICAL	COMPILATION	DEPARTMENTAL
DP1275333	REGISTERED	SURVEY	EASEMENT
SP70365			
DP512465	HISTORICAL	COMPILATION	SUBDIVISION
DP1053033	HISTORICAL	SURVEY	SUBDIVISION
SP76003			
DP512465	HISTORICAL	COMPILATION	SUBDIVISION
DP1089980	HISTORICAL	SURVEY	REDEFINITION
SP80843			
DP401432	HISTORICAL	COMPILATION	UNRESEARCHED
DP1126710	HISTORICAL	SURVEY	REDEFINITION

Caution: This information is provided as a searching aid only. Whilst every endeavour is made the ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL ACTIVITY PRIOR TO SEPTEMBER 2002** you must refer to the RGs Charting and Reference Maps.

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Plan	Surv/Comp	Purpose
DP2834	SURVEY	UNRESEARCHED
DP3662	SURVEY	UNRESEARCHED
DP8488	SURVEY	UNRESEARCHED
DP14494	SURVEY	UNRESEARCHED
DP16693	SURVEY	UNRESEARCHED
DP64013	SURVEY	UNRESEARCHED
DP73633	COMPILATION	UNRESEARCHED
DP83460	SURVEY	UNRESEARCHED
DP87455	SURVEY	UNRESEARCHED
DP89973	SURVEY	UNRESEARCHED
DP101657	COMPILATION	UNRESEARCHED
DP167041	COMPILATION	UNRESEARCHED
DP189351	COMPILATION	UNRESEARCHED
DP213017	COMPILATION	SUBDIVISION
DP235798	SURVEY	SUBDIVISION
DP300467	COMPILATION	UNRESEARCHED
DP310124	SURVEY	UNRESEARCHED
DP320935	COMPILATION	UNRESEARCHED
DP323809	COMPILATION	UNRESEARCHED
DP324029	COMPILATION	UNRESEARCHED
DP331567	COMPILATION	UNRESEARCHED
DP334032	COMPILATION	UNRESEARCHED
DP334346	SURVEY	UNRESEARCHED
DP334965	COMPILATION	UNRESEARCHED
DP335516	SURVEY	UNRESEARCHED
DP341407	COMPILATION	UNRESEARCHED
DP384254	SURVEY	UNRESEARCHED
DP390987	COMPILATION	UNRESEARCHED
DP504958	SURVEY	SUBDIVISION
DP524698	COMPILATION	SUBDIVISION
DP525879	COMPILATION	SUBDIVISION
DP593258	COMPILATION	SUBDIVISION
DP632984	COMPILATION	CONSOLIDATION
DP723721	COMPILATION	DEPARTMENTAL
DP747780	COMPILATION	CONSOLIDATION
DP749368	SURVEY	OLD SYSTEM CONVERSION
DP942233	COMPILATION	UNRESEARCHED
DP944341	COMPILATION	UNRESEARCHED
DP945540	SURVEY	UNRESEARCHED
DP961828	COMPILATION	UNRESEARCHED
DP963108	COMPILATION	UNRESEARCHED
DP964362	COMPILATION	UNRESEARCHED
DP975240	COMPILATION	UNRESEARCHED
DP975243	COMPILATION	UNRESEARCHED
DP979547	COMPILATION	UNRESEARCHED
DP1006577	COMPILATION	DEPARTMENTAL
DP1078150	COMPILATION	DEPARTMENTAL
DP1079056	COMPILATION	DEPARTMENTAL
DP1094146	COMPILATION	LIMITED FOLIO CREATION
DP1239849	SURVEY	CONSOLIDATION
DP1239849	UNRESEARCHED	CONSOLIDATION
SP30182	COMPILATION	STRATA PLAN
SP70365	COMPILATION	STRATA PLAN
SP76003	COMPILATION	STRATA PLAN
SP80843	COMPILATION	STRATA PLAN

Caution: This information is provided as a searching aid only. Whilst every endeavour is made the ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL ACTIVITY PRIOR TO SEPTEMBER 2002** you must refer to the RGs Charting and Reference Maps.

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NEW SOUTH WALES

[redacted]ICATE OF TITLE

[redacted]L PROPERTY ACT, 1900

11227/20

Vol. 11227 Fol. 20

Appln No 5199

Prior Titles Vol. 8417 Fols. 136 & 137

EDITION ISSUED

26 8 1980

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

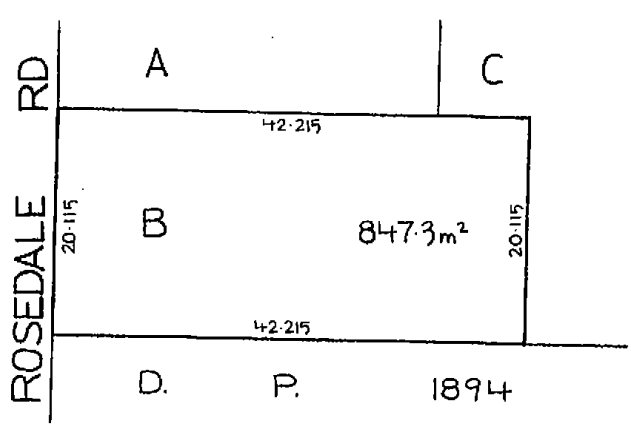
[redacted]

Registrar General.

PLAN SHOWING LOCATION OF LAND

AUTO FOLIO

LENGTHS ARE IN METRES



R878219 LB

REDUCTION RATIO 1:500

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot B in Deposited Plan 334965 at Gordon in the Municipality of Ku-ring-gai Parish of Gordon County of Cumberland being part of Portion 47 granted to William Roberts on 12-11-1856.

FIRST SCHEDULE

LEO ARTHUR FEAIN of Gordon, Medical Practitioner and MARIE MADELINE JEAN FEAIN his wife, as Tenants in Common in equal shares.

SECOND SCHEDULE

GRY

1. Reservations and conditions, if any, contained in the Crown grant above referred to.
~~2. N774892 Mortgage to The Mutual Home Loan Fund of Australia Limited.~~ X502502
~~3. P239811 Mortgage to Commonwealth Trading Bank of Australia Limited.~~ X517971
~~4. R509669 Mortgage to The Mutual Home Loan Fund of Australia Limited.~~ X502502
~~5. P239811 Mortgage) affected by R509669 Postponement of mortgage.~~
~~R509669 Mortgage) Priority now R509669, P239811.~~ X502502

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

Req:R655932 /Doc:CT 11227-020 CT /Rev:21-Dec-2010 /NSW LRS /Pgs:ALL /Prt:29-Jul-2025 10:32 /Seq:2 of 4
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Vol. 11227 Fol. 20

X503572

X502502D

X517970D

X615975M

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
~~Mortgage~~	~~B938572~~	~~to Intercapital Finance Corporation Limited~~	17-10-1980		Discharged	X517970
Mtge X615975 P	Mortgage to Commonwealth Bank of Australia Registered 17-6-1988					

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900, as amended.

NEW SOUTH WALES

TORRENS TITLE
Register Book

Vol. 11227 Fol. 20

Appln. No.5199

Prior Titles Vol.8417 Fols.136 and 137

CDS

Edition issued 15-1-1970

L657152

CANCELLED

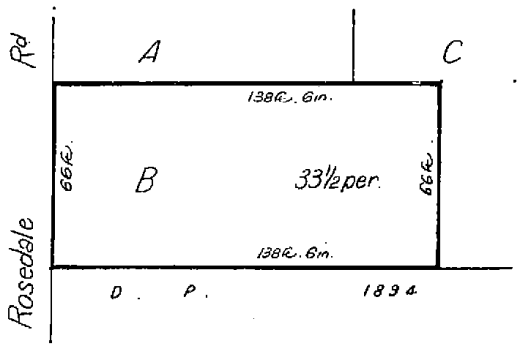
(Page 1) Vol. 11227 Fol. 20

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness B. Hinchey

Registrar General.

PLAN SHOWING LOCATION OF LAND



L657152. J.E.

Scale: 50 feet to one inch.

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot B in plan lodged with Transfer No.C544764 (filed as F.P.334965) at Gordon in the Municipality of Ku-ring-gai Parish of Gordon and County of Cumberland being part of Portion 47 granted to William Roberts on 12-11-1856.

FIRST SCHEDULE

~~A. M. K. CONSTRUCTIONS PTY. LIMITED~~.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

Registrar General

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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17 V.C.N. Blight, Government Printer

Vol. 11227 Fol 20

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
Leo Arthur Feain of Gordon, Medical Practitioner and Marie Madeleine Jean Feain his wife as tenants in common in equal shares	Transfer	M285755	19.5.1971	2.6.1971	

CANCELLED
See new edition issued 26.5.1980
vide R676219
11227-20

REGISTRAR GENERAL

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
~~Mortgage~~	~~M449827~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 5 Limited~~	~~11.10.1971~~		Discharged	R509653	
~~Mortgage~~	~~M449828~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 6 Limited~~	~~11.10.1971~~		Discharged	R509654	
~~Mortgage~~	~~M449829~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 7 Limited~~	~~11.10.1971~~		Discharged	R509655	
~~Mortgage~~	~~M449830~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 8 Limited~~	~~11.10.1971~~		Discharged	R509656	
~~Mortgage~~	~~M449831~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 9 Limited~~	~~11.10.1971~~		Discharged	R509657	
~~Mortgage~~	~~M449832~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 9 Limited~~	~~11.10.1971~~		Discharged	R509658	
~~Mortgage~~	~~M449833~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 9 Limited~~	~~11.10.1971~~		Discharged	R509659	
~~Mortgage~~	~~M449834~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 11 Limited~~	~~11.10.1971~~		Discharged	R509660	
~~Mortgage~~	~~M449835~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 12 Limited~~	~~11.10.1971~~		Discharged	R509661	
~~Mortgage~~	~~M449836~~	~~23.9.1971~~	~~to United Stars Bowkett Co-operative Building Society No 13 Limited~~	~~11.10.1971~~		Discharged	R509662	
Mortgage	N774892	18.3.1974	to the Mutual Home Loans Fund of Australia Limited.	26.4.1974				
Postponement	N774893	18.3.1974	whereby Mortgage No. N774892 is entitled in priority as if it had been registered before Mortgages Nos M449827 to M449836 inclusive.	26.4.1974				
Mortgage	P239811	———	to Commonwealth Trading Bank of Australia	9-5-1975.				
Mortgage	R509669		to The Mutual Home Loans Fund of Australia Limited	19-12-1979				
Mortgages	P239811 R509669		Affected by R509670 Postponement of Mortgage Priority now R509669, P239811	19-12-1979				

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

(Page 2 of 2 pages)

M285755
N774892 M
-893 Part
C915-11-73
C921-4 75
P239811 M.P
R509653 M
R509667
R509670
P239811 D
R838572 M

Req:R656063 /Doc:DL 6806910 /Rev:30-May-2000 /NSW LRS /Pgs:ALL /Prt:29-Jul-2025 10:39 /Seq:1 of 1
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Form: 97-01T
Licence: 026CN/0526/96

TRANSFER

New South Wales

Real Property Act 1900

00009TUN

Instructions for filling out this form are available from the Land Titles Office

Office of State Revenue use only

OFFICE OF STATE REVENUE (N.S.W. TREASURY)
CLIENT No. 1390884 2 STAMP No. 246
STAMP DUTY 22 SIGNATURE
TRANSACTION No. DATE 8.5.2000
ASSESSMENT DETAILS

(A) **LAND TRANSFERRED**
Show no more than 20 titles. If appropriate, specify the share or part transferred.

Folio Identifier B/334965

(B) **LODGED BY**

LTO Box	Name, Address or DX and Telephone
1820	[illegible] DX [illegible]
	REFERENCE (15 character maximum):

(C) **TRANSFEROR** **LEO ARTHUR FEAIN & MARIE MADELINE JEAN FEAIN**

(D) acknowledges receipt of the consideration of **$892,000.00**
and as regards the land specified above transfers to the transferee an estate in fee simple.

(E) Encumbrances (if applicable) 1. 2. 3.

(F) **TRANSFEREE**

T **TS** (s713 LGA) **TW** (Sheriff)	**ANDREW JONATHAN SMITH & LOUISE SMITH**
(G)	**TENANCY:** JOINT TENANTS

(H) We certify this dealing correct for the purposes of the Real Property Act 1900. **DATE** 19/05/00
Signed in my presence by the transferor who is personally known to me.

Signature of Witness

Genevieve Gittoes
Name of Witness (BLOCK LETTERS)

14 Kingussie St. KENMORE, 4069.
Address of Witness

L A Feain
M. Feain
Signature of Transferor

Signed in my presence by the transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

(DAVID MARINIC)
Signature of Transferee's Solicitor

NB: if signed on the tranferee's behalf by a solicitor or licensed conveyancer, show the signatory's full name in block letters.

CHECKED BY (LTO use) .....

Req:R656064 /Doc:DL AH815705 /Rev:26-Jun-2013 /NSW LRS /Pgs:ALL /Prt:29-Jul-2025 10:39 /Seq:1 of 1
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Form: 01T
Release: 6·1

TRANSFER

New South Wales
Real Property Act 1900

AH815705N

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY Office of State Revenue use only

Office of State Revenue (NSW)
Client No: 1411509 3876
Duty: $10·00 Trans No: 7127094
Asst details: TS 31/5/2013

(A) **TORRENS TITLE** A/334965

(B) **LODGED BY**

Document Collection Box 535G	Name, Address or DX, Telephone, and Customer Account Number if any	CODES
	SAI GLOBAL LLPN:123854C DX 885 SYDNEY 9210 0700 Reference: ~~CJB 13156~~ 3135400J	

(C) **TRANSFEROR** RANDY ALLAN YEE and LINDA GAYE YEE

(D) **CONSIDERATION** The transferor acknowledges receipt of the consideration of $ 1,940,000.00 and as regards

(E) **ESTATE** the abovementioned land transfers to the transferee an estate in fee simple

(F) **SHARE TRANSFERRED**

(G) Encumbrances (if applicable):

(H) **TRANSFEREE** GORDON DENTAL PTY LTD ACN 163 687 554

(I) **TENANCY:**

DATE _____

(J) I certify I am an eligible witness and that the transferor signed this dealing in my presence. [See note* below]

Signature of witness:

Name of witness: CHRISTINE ROGERS
Address of witness: 11 BRIDGE STREET
EPPING 2121

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

Certified correct for the purposes of the Real Property Act 1900 on behalf of the transferee by the person whose signature appears below.

Signature:

Signatory's name: Christopher John Boyd
Signatory's capacity: solicitor

(K) The transferee certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. 408989 Full name: CHRISTOPHER JOHN BOYD Signature:

* *s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.*

ALL HANDWRITING MUST BE IN BLOCK CAPITALS

1303

Req:R656065 /Doc:DL AP249354 /Rev:13-May-2019 /NSW LRS /Prt:29-Jul-2025 10:39 /Seq:1 of 1
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Lodger Details

Lodger Code	502010
Name	ANTHONY HAMER & ASSOCIATES
Address	PO BOX 29 GORDON 2072
Lodger Box	1W
Phone	
Email	
Reference	DREVERMAN TA

For Office Use Only

AP249354

TRANSMISSION APPLICATION

Jurisdiction NEW SOUTH WALES

Privacy Collection Statement

Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

Land Title Reference

C/334965

Deceased Registered Proprietor

Given Name(s)	ARTHUR HENRY
Family Name	DREVERMAN
Date of Death	2018-12-26
Pursuant to	Probate No. 2019/00069650
Granted on	2019-04-04

Applicant

Given Name(s)	IAN ARTHUR
Family Name(s)	DREVERMAN
Capacity	EXECUTOR
Tenancy	SOLE PROPRIETOR

The Applicant applies to be registered as proprietor of the Estate of the deceased registered proprietor as specified in this Instrument.

APPLICANT EXECUTION

The Certifier has taken reasonable steps to verify the identity of the applicant.

The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.

The Certifier has retained the evidence supporting this Registry Instrument or Document.

The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.

Executed on behalf of	IAN ARTHUR DREVERMAN
Signer Name	ANTHONY JUSTIN HAMER
Signer Organisation	HAMER LEGAL PTY LTD
Signer Role	PRACTITIONER CERTIFIER
Execution Date	13/05/2019

Req:R656992 /Doc:DL AR255867 /Rev:19-Jul-2021 /NSW LRS /Prt:29-Jul-2025 11:38 /Seq:1 of 2
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System Document Identification

Form Number: 01T-e
Template Number: t_nsw18
ELN Document ID: 558767367
ELN NOS ID: 558767368

TRANSFER

New South Wales
Real Property Act 1900

Land Registry Document Identification

AR255867

Stamp Duty: 10147315-001

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

LODGED BY:

Responsible Subscriber:	GEA LAWYERS ABN 24169919724
Address:	SE 42, 47 Neridah ST Chatswood 2067
Email:	help@gealawyers.com.au
ELNO Subscriber Number:	23946
Customer Account Number:	503268Y
Document Collection Box:	1W
Client Reference:	SZ: 21-078 YARR

LAND TITLE REFERENCE

C/334965

TRANSFEROR

YARRABUNG PTY LTD ACN 632983469
Registered company

TRANSFEREE

JIAYUE LI

Tenancy: Sole Proprietor

CONSIDERATION

The transferor acknowledges receipt of the consideration of $3,400,000.00

ESTATE TRANSFERRED

FEE SIMPLE

The Transferor transfers to the Transferee the Estate specified in this Instrument and acknowledges receipt of any Consideration shown.

SIGNING FOR TRANSFEROR

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
4. The Certifier has taken reasonable steps to verify the identity of the transferor or his, her or its administrator or attorney.

Party Represented by Subscriber:

YARRABUNG PTY LTD

Signed By: Hao Zhang
Signer Capacity: Practitioner Certifier
ELNO Signer Number: 50624
Digital Signing Certificate Number:

Signed for Subscriber: EXECUTIVE LEGAL PTY LTD ABN 35752924882

EXECUTIVE LEGAL PTY LTD

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Subscriber Capacity: Representative Subscriber
ELNO Subscriber Number: 22463 **Customer Account Number:** 502465
Date: 16/07/2021

SIGNING FOR TRANSFEREE

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
4. The Certifier has taken reasonable steps to verify the identity of the transferee or his, her or its administrator or attorney.

Party Represented by Subscriber:

JIAYUE LI

Signed By: Jia Hong Zou **Signer Capacity:** Practitioner Certifier
ELNO Signer Number: 59641 **Digital Signing Certificate Number:**

Signed for Subscriber: GEA LAWYERS PTY. LTD. ABN 24169919724

GEA LAWYERS

Subscriber Capacity: Representative Subscriber
ELNO Subscriber Number: 23946 **Customer Account Number:** 503268
Date: 19/07/2021

Req:R655931 /Doc:DP 0189351 P /Rev:06-Mar-2019 /NSW LRS /Prt:29-Jul-2025 10:32 /Seq:1 of 2
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C737909

Plan Form No. 7 (for compilations)

11244

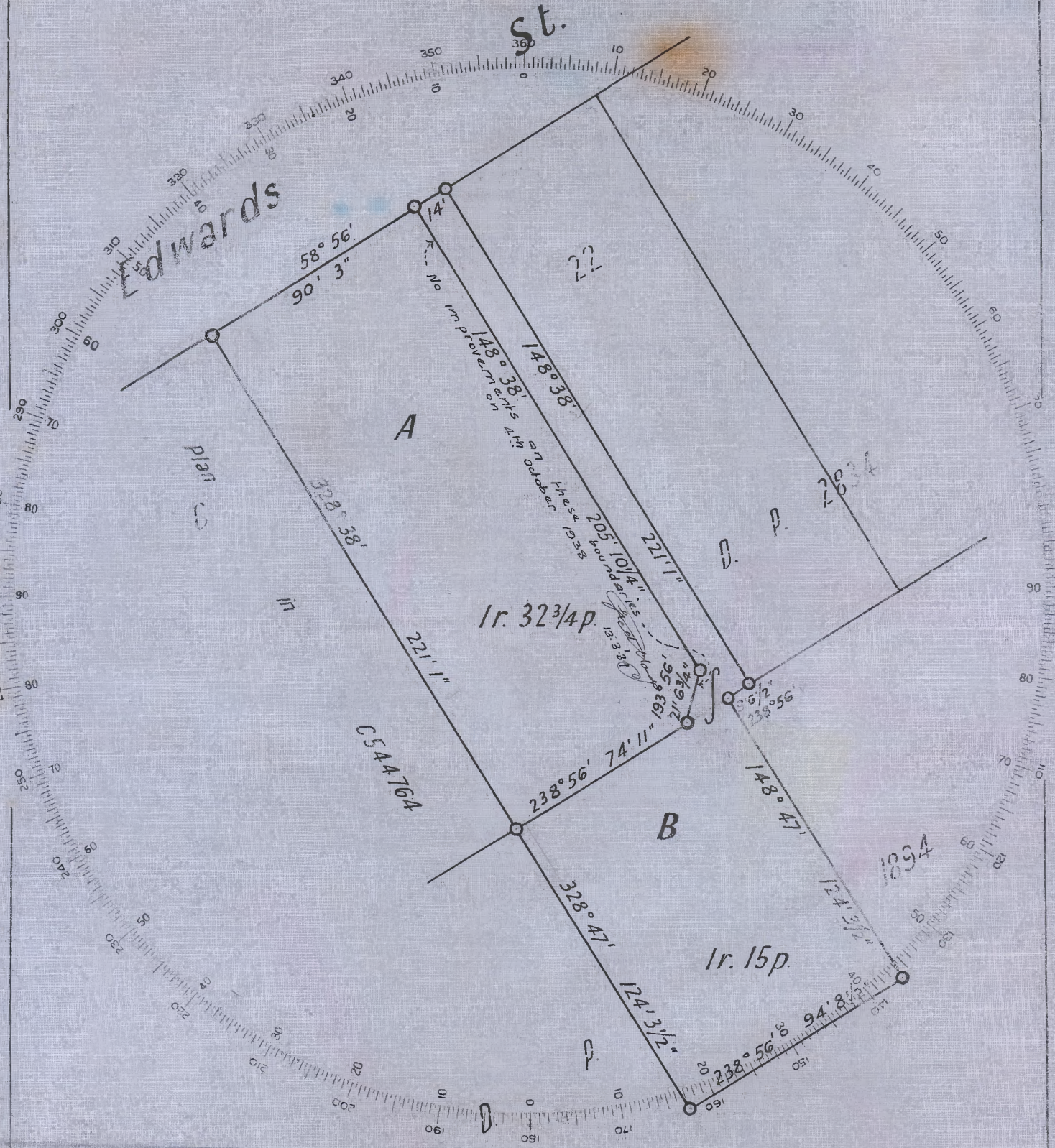
Municipality of Ku-ring-gai
Shire of C737909

PLAN F.P 189351

of subdivision of Lot 23 D.P. 2834 and C.T. Vo. 2786 Fo. 228

Parish of Gordon County of Cumberland

Scale 50 Feet to an Inch.



This margin to be left free from writing

Certificate No. 38/102
Subdivision certified approved by the Council of Municipality of Ku-ring-gai, the requirements of the Settlement Acts (if any) or other than the requirement of plan of lowing been complied with.
In the Council on the 4th day of
Town Clerk.

I certify that this plan has been compiled from the information in D.P 2834 & C.T. Vo 2786 Fo 228 and is correct.

Surveyor registered under Surveyors Act, 1929

16.8.1937

This is the plan marked "A" referred to in Transfer dated 1st March 1938

Signatures of parties to be made in this margin.

Req:R655931 /Doc:DP 0189351 P /Rev:06-Mar-2019 /NSW LRS /Prt:29-Jul-2025 10:32 /Seq:2 of 2
© Office of the Registrar-General /Src:GlobalX /Ref:advlegs

CONVERSION TABLE ADDED IN
DEPARTMENT OF LANDS

DP 189351

FEET	INCHES	METRES
9	6 3/4	2.915
14	-	4.267
21	6 3/4	6.572
56	-	17.069
74	11	22.835
90	3	27.508
94	8 1/2	28.867
100	-	30.480
124	3 1/2	37.884
205	10 1/4	62.744
221	1	67.386

AC	RD	P	SQ M
-	1	15	1391
-	1	32 3/4	1840

C 544764

C544764 F.P.334965. 37/496

Plan Form No. 7 (for compilations)

Municipality of Ku-ring-gai
Shire of

M.M.

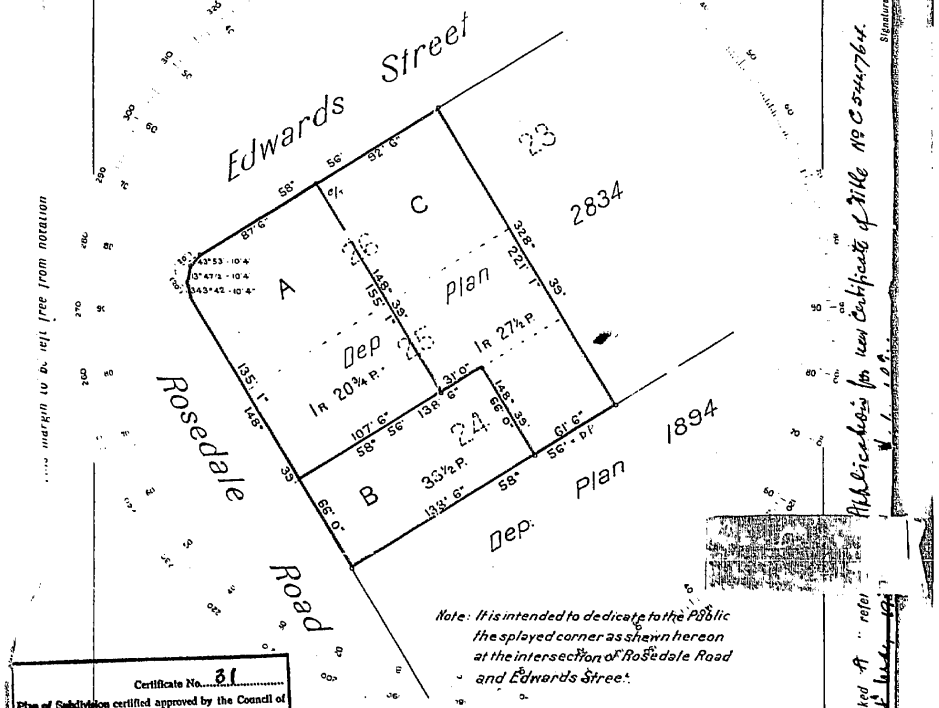
PLAN

of re-subdivision of lots 24. 25. 26 on Deposited Plan 2834

Parish of Gordon County of Cumberland

Scale . 60 Feet to an Inch.

Misc. Plan of Subdn. (R.P.)
Plan No. 34965



Note: It is intended to dedicate to the Public the splayed corner as shewn hereon at the intersection of Rosedale Road and Edwards Street.

Certificate No. 31

Plan of Subdivision certified approved by the Council of the Municipality of Ku-ring-gai, the requirements of the Local Government Act 1919 (other than the requirement for the registration of plans) having been complied with.

Approved by the Council on the 11th day of May 1937.

Town Clerk.

I certify that this plan has been compiled from the information in Deposited Plan 2834 and is correct.

Surveyor, registered under Surveyors Act, 1929

27. 4. 1937

This is the plan marked A referred to in Certificate of Title No. C 544764.

Signature of position to be made in this margin.

Particulars for new Certificate of Title

Do not write in the left free from notation

CONVERSION TABLE ADDED IN DEPARTMENT OF LANDS

DP 334965

FEET	INCHES	METRES
10	4	3.150
20	-	6.096
31	-	9.449
61	6	18.745
66	-	20.117
87	6	26.670
92	6	28.194
107	6	32.766
135	1	41.173
138	6	42.215
155	1	47.269
221	1	67.386

AC	RD	P	SQ M
-	-	33 1/2	847.3
-	1	20 3/4	1537
-	1	27 1/2	1707

401/8 F.P. 28/11/37

I, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 13th day of June, 1978

Table of mm

Req:R655930 /Doc:DP 0334965 P /Rev:07-Nov-1992 /NSW LRS /Pgs:ALL /Prt:29-Jul-2025 10:32 /Seq:1 of 1
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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/7/2025 10:32AM

FOLIO: A/189351

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 5030 FOL 118

Recorded	Number	Type of Instrument	C.T. Issue
2/9/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
11/4/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
25/8/1998	5220392	DISCHARGE OF MORTGAGE	EDITION 1
6/4/2006	AC226183	TRANSFER	
6/4/2006	AC226184	MORTGAGE	EDITION 2
15/9/2018	AN713146	DEPARTMENTAL DEALING	EDITION 3 CORD ISSUED
20/10/2020	AQ486730	DISCHARGE OF MORTGAGE	EDITION 4
27/5/2025	AV89436	CAVEAT	EDITION 5

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/7/2025 10:32AM

FOLIO: A/334965

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4849 FOL 46

Recorded	Number	Type of Instrument	C.T. Issue
2/9/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
19/3/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
11/8/1992	E671381	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 1
24/6/1994	U379730	TRANSFER	
24/6/1994	U379731	MORTGAGE	EDITION 2
16/9/2010	AF763643	MORTGAGE	EDITION 3
20/6/2013	AH815704	DISCHARGE OF MORTGAGE	
20/6/2013	AH815705	TRANSFER	
20/6/2013	AH815706	MORTGAGE	EDITION 4
8/9/2018	AN695391	DEPARTMENTAL DEALING	EDITION 5 CORD ISSUED
27/5/2025	AV89439	CAVEAT	EDITION 6

*** END OF SEARCH ***

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SEARCH DATE
29/7/2025 10:32AM

FOLIO: B/334965

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 11227 FOL 20

Recorded	Number	Type of Instrument	C.T. Issue
29/7/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/8/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
1/4/1998	3893499	DISCHARGE OF MORTGAGE	
1/4/1998	3893500	MORTGAGE	EDITION 1
24/5/2000	6806909	DISCHARGE OF MORTGAGE	
24/5/2000	6806910	TRANSFER	
24/5/2000	6806911	MORTGAGE	EDITION 2
2/5/2016	AK397296	DEPARTMENTAL DEALING	
2/9/2018	AN678864	DEPARTMENTAL DEALING	EDITION 3 CORD ISSUED
9/11/2018	AN846596	DISCHARGE OF MORTGAGE	
9/11/2018	AN846597	TRANSFER	EDITION 4
27/5/2025	AV89438	CAVEAT	EDITION 5

*** END OF SEARCH ***

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SEARCH DATE
29/7/2025 10:32AM

FOLIO: C/334965

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4856 FOL 191

Recorded	Number	Type of Instrument	C.T. Issue
2/9/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
9/4/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
8/9/2018	AN695391	DEPARTMENTAL DEALING	EDITION 1 CORD ISSUED
14/5/2019	AP249353	DISCHARGE OF MORTGAGE	
14/5/2019	AP249354	TRANSMISSION APPLICATION (EXECUTOR, ADMINISTRATOR, TRUSTEE)	EDITION 2
17/6/2019	AP324490	TRANSFER	EDITION 3
19/7/2021	AR255867	TRANSFER	EDITION 4
1/11/2021	AR570973	MORTGAGE	EDITION 5
27/5/2025	AV89437	CAVEAT	EDITION 6

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: A/189351

SEARCH DATE	TIME	EDITION NO	DATE
29/7/2025	10:32 AM	5	27/5/2025

LAND

LOT A IN DEPOSITED PLAN 189351
AT GORDON
LOCAL GOVERNMENT AREA KU-RING-GAI
PARISH OF GORDON COUNTY OF CUMBERLAND
TITLE DIAGRAM DP189351

FIRST SCHEDULE

WING FOO CHANG (T AC226183)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
* 2 AV89436 CAVEAT BY EDWARD ST RESIDENCE HOLDING PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: A/334965

SEARCH DATE	TIME	EDITION NO	DATE
29/7/2025	10:32 AM	6	27/5/2025

LAND

LOT A IN DEPOSITED PLAN 334965
AT GORDON
LOCAL GOVERNMENT AREA KU-RING-GAI
PARISH OF GORDON COUNTY OF CUMBERLAND
TITLE DIAGRAM DP334965

FIRST SCHEDULE

GORDON DENTAL PTY LTD (T AH815705)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 AH815706 MORTGAGE TO WESTPAC BANKING CORPORATION
* 3 AV89439 CAVEAT BY EDWARD ST RESIDENCE HOLDING PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: B/334965

SEARCH DATE	TIME	EDITION NO	DATE
29/7/2025	10:32 AM	5	27/5/2025

LAND

LOT B IN DEPOSITED PLAN 334965
AT GORDON
LOCAL GOVERNMENT AREA KU-RING-GAI
PARISH OF GORDON COUNTY OF CUMBERLAND
TITLE DIAGRAM DP334965

FIRST SCHEDULE

GAOFENG MA
RUOLAN SHEN
AS JOINT TENANTS (T AN846597)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
* 2 AV89438 CAVEAT BY EDWARD ST RESIDENCE HOLDING PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: C/334965

SEARCH DATE	TIME	EDITION NO	DATE
29/7/2025	10:32 AM	6	27/5/2025

LAND

LOT C IN DEPOSITED PLAN 334965
AT GORDON
LOCAL GOVERNMENT AREA KU-RING-GAI
PARISH OF GORDON COUNTY OF CUMBERLAND
TITLE DIAGRAM DP334965

FIRST SCHEDULE

JIAYUE LI (T AR255867)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 AR570973 MORTGAGE TO DAN LI
* 3 AV89437 CAVEAT BY EDWARD ST RESIDENCE HOLDING PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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APPENDIX E

Data Quality Objectives

INTRODUCTION

The Data Quality Objectives (DQOs) process was used to define the type, quantity and quality of the data needed to support decisions relating to the environmental condition of a site (reference 1). The process consists of seven steps, with the output from each step influencing the choices that will be made later in the process.

According to USEPA (reference 2), DQOs are qualitative and quantitative statements, derived from the first six steps of the process, that:

- ◊ Clarify the study objective.
- ◊ Define the most appropriate type of data to collect.
- ◊ Determine the most appropriate conditions from which to collect the data. and
- ◊ Specify tolerable limits on decision errors which will be used as the basis for establishing the quantity and quality of data needed to support the decision.

The DQOs are then used to develop a scientific and resource-effective data collection design.

STEP 1 - STATE THE PROBLEM

The problem is the potential for the site to be impacted by contamination caused by past activities undertaken on or adjacent to the site, at levels more than those permissible for the proposed land-use and which could impact upon anticipated receiving environments and the health of current/future users of the site.

STEP 2 - IDENTIFY THE DECISION STATEMENT

The following decision were required to be made:

- ◊ Does the dataset adequately characterise the site for the purpose of assessing the suitability of the site for the proposed land uses and (if required) remedial options,
- ◊ Is the dataset sufficient to enable the preparation of defensible RAP for the site (if required),

- Do the concentrations of potential contaminants in the soil (fill and natural soil) exceed acceptable levels for the proposed land-use?
- Are there any aesthetic issues relating to the fill and natural soils at the site?
- Is the data reliable?
- Does the groundwater need to be sampled and analysed?

STEP 3 - IDENTIFY INPUTS TO THE DECISION

The following information inputs are required to resolve the decision statement:

- A review of the environmental and physical setting in which the site lies, including geology, hydrogeology and topography,
- Review of the site's history to research potential contaminating activities on the site or on nearby sites,
- Detailed site inspection for sources of potential contamination,
- The drilling of boreholes in a judgemental pattern across the site (subject to access and utility constraints) while also targeting any areas of concern,
- Collection of environmental soil samples using appropriate methods. This includes from the stockpile located in the eastern corner,
- Analysis of soil samples for the contaminants of concern identified by the history search and site inspection,
- Analysis of any surface or buried fibro samples to confirm the presence of asbestos fibres,
- Comparison of the results with relevant Site Assessment Criteria (SAC) as defined in the main body of the report, and
- Accurate measurements of sample locations to allow for accurate mapping and contouring of contamination (if identified).

STEP 4 - DEFINE THE BOUNDARIES OF THE STUDY

The site covers an area of approximately 5,999.24m^2 (by title) and encompasses the following four allotments:

- ◊ Lot A in Deposited Plan (DP) 189351 (No. 1 Edward Street).
- ◊ Lot C in DP 334965 (No. 1A Edward Street).
- ◊ Lot B in DP 334965 (No. 25 Rosedale Road).
- ◊ Lot A in DP 334965 (No. 27 Rosedale Road).

The lateral extent of the study is the boundaries of the site (as depicted on **Figure 2**). The vertical extent of this preliminary and detailed study is approximately 0.5m into the natural soil profile or surface of the bedrock.

STEP 5 - DEVELOP A DECISION RULE

The decision rules for this investigation are as follows:

- ◊ If it is determined that the data generated through this investigation are reliable and adequately characterise soil conditions at the site, the data will be compared against the adopted Site Assessment Criteria (SAC),
- ◊ If all the data meets the adopted SAC, then the site will be considered suitable for the proposed development,
- ◊ If the data do not meet the adopted SAC, then further investigations or the development of an RAP will be recommended as a basis for making the site suitable for the proposed development. Further investigations may include:
  - Additional soil or groundwater sampling points to delineate impacts,
  - Analysis of soil and/or groundwater for additional analytes/CoPC,
  - Undertaking soil vapour investigations, and/or
  - Undertaking a human health and/or ecological risk assessment to assess site suitability and, if not suitable, assess the requirement for remediation and/or management.

If it is determined that the data generated through this investigation are not reliable and/or do not suitably characterise the site, then further investigations may be recommended prior to comparison against the SAC.

STEP 6 - SPECIFY ACCEPTABLE LIMITS ON DECISION ERRORS

The null hypothesis is that the material is contaminated and exceeds the adopted criteria. The alternative hypothesis is that the material is not contaminated above the adopted criteria.

Possible decision errors include:

- ◊ the material being accepted as suitable for the proposed land use when it is not, thereby potentially risking human health or environmental impacts
- ◊ unnecessary disposal of the material offsite, imposing needless financial and resource burdens on the development project and resulting in an inappropriate waste classification.

Stated hypotheses:

- ◊ null hypothesis (H_0): the 95% UCL, and other requirements, are > the action level
- ◊ alternate hypothesis (H_A): the 95% UCL, and other requirements, are ≤ the action level.

Potential outcomes include Type I and Type II errors:

- ◊ Type I error of determining the material is acceptable for the proposed land use when it is not (wrongly rejects true H0).
- ◊ Type II error of determining the material is unacceptable for the proposed land use when it is acceptable (wrongly accepts false H0).

The more severe consequences are with decision error (1) since the risk of jeopardising human health outweighs the consequences of paying more for remediation.

For performance criteria, the acceptable limits on the likelihood of making decision errors to be applied are:

- ◊ alpha risk (Type I error) of $\alpha = 0.05$
- ◊ beta risk (Type II error) of $\beta = 0.2$.

No previously collected data are available for use, therefore acceptance criteria are not required.

STEP 7 - OPTIMISING THE DESIGN FOR OBTAINING DATA

The purpose of this step is to identify a resource-effective data collection design for generating data that are expected to satisfy the DQOs.

To ensure the design satisfies the DQOs a comprehensive Quality Assurance and Quality Control Plan will be implemented.

References

1. NSW EPA, 2017: New South Wales Environment Protection Authority (2017): Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (3rd edition).
2. USEPA, 2000: *Guidance for Data Quality Objectives Process*. EPA QA/G-4.

APPENDIX F

GEE Borehole Logs

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH01**
Hole Depth: **0.90 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL119.0m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger					ML	Fill	**FILL**- Sandy Silt, dark brown, low plasticity, trace clay, roots and fine gravel.	m	SM080825-01 / 100 0.05-0.20m	
					CL-Cl	Natural	**Silty CLAY**- red-brown, medium to high plasticity, trace roots and fine to coarse ironstone gravel. becoming grey mottled red brown from 0.7m.	m	SM080825-02 0.35-0.45m SM080825-03 0.80-0.90m	
		1.0	118.0				**Hole Terminated at 0.90m** target depth reached			Bore dry upon completion
		2.0	117.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Zachery Ziesel** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:02 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

geo-environmental ENGINEERING

Hole ID. **BH02**
Hole Depth: **1.00 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL118.2m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Garden Bed			
Hand Auger			118.0		SM	Fill	**FILL**- Silty Sand, dark brown / black, fine to medium grained, trace clay, fine to coarse gravel and roots. some organics noted at 0.3m.	m	SM080825-04 0.05-0.15m	
		1.0			CI-CH	Natural	**Silty CLAY**- brown-orange, medium to high plasticity, trace roots and fine gravel. becoming brown-red at 0.7m.	m	SM080825-05 0.45-0.55m SM080825-06 0.90-1.00m	
			117.0				**Hole Terminated at 1.00m** target depth reached			Bore dry upon completion
		2.0	116.0							

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:02 AM

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Zachery Ziesel** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

geo-environmental ENGINEERING

Hole ID. **BH03**
Hole Depth: **1.00 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL117.8m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger					SM	Fill	**FILL**- Silty Sand, dark brown, fine to medium grained, trace clay and roots.	m	SM080825-07 / 101 0.05-0.15m	
					CI-CH	Natural	**Silty CLAY**- brown-red, medium to high plasticity, trace fine to medium gravel.	m	SM080825-08 0.30-0.40m	
		1.0	117.0				becoming grey mottled red-brown from 0.7m.		SM080825-09 0.90-1.00m	
		2.0	116.0				**Hole Terminated at 1.00m** target depth reached			Bore dry upon completion

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Zachery Ziesel** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:03 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH04**
Hole Depth: **1.40 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL116.6m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger			116.0		SM	Fill	**FILL**- Silty Sand, dark brown, brown, fine to medium grained, pockets of silty clay and gravel, trace roots.	m	SM080825-10 / 102 0.05-0.20m SM080825-11 0.60-0.70m	
		1.0			CI-CH	Natural	**Silty CLAY**- brown / red, medium to high plasticity, trace fine to coarse ironstone gravel bands and roots. becoming mottled grey from 1.1m.	m	SM080825-12 0.80-0.90m SM080825-13 1.30-1.40m	Slight seepage noted in gravel bands
		2.0	115.0				**Hole Terminated at 1.40m** target depth reached			Bore dry upon completion

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Zachery Ziesel** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:03 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH05**
Hole Depth: **1.20 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL119.4m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Paver			
Hand Auger					SP	Fill	**FILL**- Paver.			
							FILL- Sand, brown, medium to coarse grained, trace silt.	vm	SM080825-14 0.10-0.20m	
					CL-CI		**FILL**- Silty Clay, brown, dark brown, low to medium plasticity, trace fine to medium gravel.	m		
			119.0		CI-CH	Natural	**Silty CLAY**- brown-red, medium to high plasticity, trace fine to coarse ironstone gravel.	m	SM080825-15 0.40-0.50m	
		1.0					becoming grey mottled red from 0.9m. bands of XW-HW shale from 1.0m.		SM080825-16 1.00-1.10m	
							Hole Terminated at 1.20m target depth reached			Bore dry upon completion
			118.0							
		2.0								
			117.0							

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:04 AM

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Zachery Ziesel** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH06**
Hole Depth: **1.40 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL118.0m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Topsoil			
Hand Auger					CL-Cl	Fill	**FILL**- Silty Clay, dark brown, low to medium plasticity, with fine to coarse sand and fine gravel (slag/sandstone).	m	SM080825-17 0.10-0.20m	
								w	SM080825-18 0.50-0.60m	PVC pipe observed on the side of the bore at 0.4m
		1.0	117.0		Cl-CH	Natural	**Silty CLAY**- red-brown, trace fine to coarse ironstone gravel. becoming mottled grey from 1.0m. bands of ironstone/shale gravel from 1.2m.	m	SM080825-19 0.80-0.90m SM080825-20 1.30-1.40m	
		2.0	116.0				**Hole Terminated at 1.40m** target depth reached			Bore dry upon completion

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:04 AM

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Zachery Ziesel** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH07**
Hole Depth: **0.90 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL118.1m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger			118.0		CI-CH	Natural	**Silty CLAY**- brown-red, medium to high plasticity.	m	SM080825-21 / 104 0.05-0.15m	
							bands of fine to coarse ironstone gravel.			
							becoming grey mottled red from 0.7m, bands of ironstone/shale gravel.		SM080825-22 0.80-0.90m	
		1.0	117.0				**Hole Terminated at 0.90m** target depth reached			Bore dry upon completion
		2.0	116.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Zachery Ziesel** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:05 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

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Hole ID. **BH08**
Hole Depth: **0.90 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL120.3m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger					SC	Fill	**FILL**- Clayey Sand, dark brown-brown, fine to coarse grained, trace silt, fine to coarse gravel, rootlets and plastics.	m	SM080825-30 / 107 0.05-0.20m	
			120.0		CI-CH	Natural	**Silty CLAY**- brown with some orange, medium to high plasticity, trace charcoal.	m	SM080825-31 0.30-0.40m	
							becoming grey with brown and trace orange from 0.8m.		SM080825-32 0.80-0.90m	
		1.0	119.0				**Hole Terminated at 0.90m** target depth reached			Bore dry upon completion
		2.0	118.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Sean Gao** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:05 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH09**
Hole Depth: **0.90 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL119.1m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
SFA			119.0		CL-CI	Fill	**FILL**- Silty Clay, dark brown, low to medium plasticity, with sand, gravels and anthropogenic inclusions (concrete and plastics).	m	SM080825-33 / 108 0.05-0.20m	
					CI-CH	Natural	**Silty CLAY**- orange with red mottled grey, medium to high plasticity.	m	SM080825-34 0.60-0.70m	
		1.0	118.0				**Refusal at 0.90m** on inferred bedrock			Bore dry upon completion
		2.0	117.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Sean Gao** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

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Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH10**
Hole Depth: **0.55 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL119.6m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger					CL-Cl	Fill	**FILL**- Silty Clay, dark brown, low to medium plasticity, trace gravels, cobbles and rootlets.	m	SM080825-35 0.05-0.20m	
					Cl-CH	Natural	**Silty CLAY**- orange with brown and grey, medium to high plasticity. becoming grey from 0.4m.	m	SM080825-36 0.30-0.40m SM080825-37 0.45-0.55m	
		1.0	119.0				**Refusal at 0.55m** on inferred bedrock			Bore dry upon completion
		2.0	118.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Sean Gao** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:06 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH11**
Hole Depth: **1.80 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL118.2m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger			118.0		CL-CI	Fill	**FILL**- Silty Clay, dark brown, low to medium plasticity, with gravel, trace cobble and rootlets.	m	SM080825-38 / 109 0.05-0.20m	
		1.0	117.0		CL-CI	Fill	**FILL**- Silty Clay, orange, brown mottled dark brown, low to medium plasticity, with anthropogenic inclusions (glass). trace sand and some sandstone cobble and gravel at 1.3m.	m	SM080825-39 0.30-0.40m	
					CI-CH	Natural	**Silty CLAY**- orange with red, medium to high plasticity, with ironstone and charcoal.	m	SM080825-40 1.70-1.80m	
		2.0	116.0				**Hole Terminated at 1.80m** target depth reached			Bore dry upon completion

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:07 AM

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Sean Gao** Date: **8/08/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

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Hole ID. **BH12**
Hole Depth: **0.70 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL121.9m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger					CL	Fill	**FILL**- Clayey Sand/sandy Clay, dark brown / dark grey, low plasticity, fine to coarse grained, trace silt and fine to medium gravel (charcoal / ironstone), with roots.	m	SM080825-60 / 110 0.05-0.20m	
					CI-CH	Natural	**Silty CLAY**- orange-brown / red to mottled, medium to high plasticity, trace fine to medium roots and gravel.	m	SM080825-61 0.30-0.45m	
							becoming orange brown and pale brown mottle.		SM080825-62 0.60-0.70m	
		1.0	121.0				**Hole Terminated at 0.70m** target depth reached			Bore dry upon completion
		2.0	120.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Stephen McCormack** Date: **8/08/2025**
Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:07 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH13**
Hole Depth: **1.20 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL121.5m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger					SM	Fill	**FILL**- Silty Sand, dark grey, fine to medium grained, with roots.	m	SM080825-63 / 111 0.05-0.15m	
					CL		**FILL**- Gravelly Clay, dark brown / brown / grey, low plasticity, fine to coarse gravel and sand, with anthropogenic inclusions (bricks).	m	SM080825-64 0.20-0.30m	
			121.0		SM		**TOPSOIL / FILL**- Silty Sand, dark brown / dark grey, fine to medium grained, with fine to coarse gravel and roots.	m	SM080825-65 0.40-0.50m	
		1.0			CI-CH	Natural	**Silty CLAY**- red-brown, medium to high plasticity. becoming red-brown mottle orange brown from 0.9m.	m	SM080825-66 0.70-0.80m SM080825-67 1.10-1.20m	
		2.0	120.0				**Hole Terminated at 1.20m** target depth reached			Bore dry upon completion
			119.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Stephen McCormack** Date: **8/08/2025**
Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:08 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH14**
Hole Depth: **0.70 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL120.9m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger					SM	Fill	**FILL**- Silty Sand, dark grey / dark brown, fine to medium grained, with roots.	m	SM080825-68 0.05-0.20m	
					Cl-CH	Natural	**Silty CLAY**- red brown, medium to high plasticity.	m	SM080825-69 0.30-0.40m	
							becoming orange brown / red-brown mottled from 0.6m.		SM080825-70 0.60-0.70m	
		1.0	120.0				**Hole Terminated at 0.70m** target depth reached			Bore dry upon completion
		2.0	119.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Stephen McCormack** Date: **8/08/2025**
Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:08 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

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Hole ID. **BH15**
Hole Depth: **0.80 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL119.7m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Grass			
Hand Auger					SM	Fill	**Topsoil / FILL**- Silty Sand, dark brown / dark grey, fine to medium grained, with roots.	m	SM080825-71 0.05-0.20m	
			119.0		CI-CH	Natural	**Silty CLAY**- red-brown, medium to high plasticity, trace fine to coarse ironstone gravel.	m	SM080825-72 0.30-0.40m SM080825-73 0.70-0.80m	
		1.0	118.0				**Hole Terminated at 0.80m** target depth reached			Bore dry upon completion
		2.0								

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Stephen McCormack** Date: **8/08/2025**
Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:08 AM

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH16**
Hole Depth: **0.50 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **8/08/2025** Ground Level: **RL120.1m** (approx)
Drill Method: **Hand Auger** Date Completed: **8/08/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Paver			
Hand Auger			120.0		SP	Fill	**FILL**- Paver (sandstone).			
							FILL- Sand, brown, fine to coarse grained, with fine to coarse sandstone gravel.	m	SM080825-74 0.05-0.10m	
					CI-CH	Natural	**Silty CLAY**- red brown, medium to high plasticty.	m		
		1.0	119.0				**Hole Terminated at 0.50m** target depth reached			Bore dry upon completion
		2.0	118.0							

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:09 AM

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Stephen McCormack** Date: **8/08/2025**
Checked By: **Stephen McCormack** Date: **9/09/2025**

Borehole Log Report

Geo Environmental Engineering Pty Ltd
Unit 2/5-7 Malta Street
Fairfield East NSW 2165
T 02 9420 3361

Hole ID. **BH17**
Hole Depth: **1.10 m**
Sheet: **1 of 1**

Project Name: **Site Contamination Investigation** Project Number: **E25008GOR**
Location / Site: **1 - 1A Edward St & 25 - 27 Rosedale St, Gordon NSW** Client: **Edward St Residence DM Pty Ltd**

Drilling Company: **Geo Environmental Engineering** Date Started: **3/09/2025** Ground Level: **RL121.4m** (approx)
Drill Method: **Hand Auger** Date Completed: **3/09/2025** Easting: ----------
Equipment: **Manual** Northing: ----------

Method	Water Level	Depth (m)	RL (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests ID No.	Observations / Comments
							Surface: Concrete			
DT						Fill	**FILL**- Concrete (190mm).			
HA			121.0		GP		**FILL**- Sandy Gravel, brown, grey, fine to coarse grained, with some roots and anthropogenic inclusions (concrete, crushed sandstone gravel and pockets of clay).	m	ZG030925-01 0.20-0.30m ZG030925-02 0.50-0.60m ZG030925-03 1.00-1.10m	
		1.0								
			120.0				**Refusal at 1.10m** on concrete boulder			Bore dry upon completion
		2.0								
			119.0							

Moisture	
D	Dry
Dp	Damp
SM	Slightly Moist
M	Moist
VM	Very Moist
W	Wet
Sd	Saturated

Additional Comments

Logged By: **Sean Gao** Date: **3/09/2025** Checked By: **Stephen McCormack** Date: **9/09/2025**

GEE BH LOG E25008GOR.GPJ GEE.GDT 10/9/25 8:58:09 AM

Geo Environmental Engineering
82 Bridge Street
Lane Cove NSW 2066
E info@geoenvironmental.com.au

Log Report Legend

MATERIAL SYMBOL

FILL

CONCRETE

ASPHALT

TOPSOIL

ORGANICS

ESTUARINE MUD

CLAY

SAND

SILT

GRAVEL

Sandy CLAY

Clayey SAND

Clayey SILT

Clayey GRAVEL

Silty CLAY

Silty SAND

Sandy SILT

Sandy GRAVEL

Gravelly CLAY

Gravelly SAND

Gravelly SILT

Silty GRAVEL

CLAY & SAND

SAND & CLAY

SILT & CLAY

GRAVEL & CLAY

CLAY & SILT

SAND & SILT

SILT & SAND

GRAVEL & SAND

CLAY & GRAVEL

SAND & GRAVEL

SILT & GRAVEL

GRAVEL & SILT

Sandy Silty CLAY

Clayey Silty SAND

Sandy Clayey SILT

Sandy Clayey GRAVEL

Silty Sandy CLAY

Silty Clayey SAND

Clayey Sandy SILT

Clayey Sandy GRAVEL

Sandy Gravelly CLAY

Clayey Gravelly SAND

Sandy Gravelly SILT

Silty Clayey GRAVEL

Silty Gravelly CLAY

Silty Gravelly SAND

Clayey Gravelly SILT

Clayey Silty GRAVEL

Gravelly Silty CLAY

Gravelly Silty SAND

Gravelly Clayey SILT

Sandy Silty GRAVEL

Gravelly Sandy CLAY

Gravelly Clayey SAND

Gravelly Sandy SILT

Silty Sandy GRAVEL

SANDSTONE

SHALE

GRANITE

BASALT

SHALE / SANDSTONE

PORCELLANITE

GNEISS

SHALE / CLAYSTONE

MUDSTONE

CLAYSTONE

MUDSTONE / CLAYSTONE

SHALE / SILTSTONE

IRONSTONE

WATER LEVELS

Encountered Water

Standing Water

ABBREVIATIONS

PT	Pushtube
SFA	Solid Flight Auger
PWS	Percussion Window Sampler
HA	Hand Auger
HFA	Hollow Flight Auger

WELL GRAPHICS

Cuttings

Bentonite

Screen

Gravel Pack

Grout

Cave-in

GEE LEGEND * * 29/10/09 5:04:07 PM

APPENDIX G

Quality Assurance Assessment Report

G1. INTRODUCTION

A detailed Quality Assurance (QA) assessment, including the analysis of Quality Control (QC) samples, was carried out by GEE to determine the reliability of field procedures and analytical results.

G2. QUALITY ASSURANCE

Quality Assurance (QA) involves all of the actions, procedures, checks and decisions undertaken to ensure the representativeness and integrity of samples and accuracy and reliability of analysis results (reference 1).

In accordance with AS4482.1 (reference 2), a series of QA procedures were integrated within the sampling and analysis plan and included:

- ◊ The collection of Quality Control (QC) samples.
- ◊ The use of standardised field sampling forms developed by GEE.
- ◊ Documentation of calibration and use of field instruments.

To ensure QA in the field, samples were collected by experienced and trained personnel using appropriate methods detailed herein, including appropriate sample handling, containment and transport, and calibrated equipment. Additionally, QC samples were collected and analysed as discussed in Section G3.

To ensure QA in the laboratory, GEE used laboratories that are NATA accredited for the analytical tests carried out, therefore it is reasonable for GEE to rely on the laboratories to be proficient in all tests conducted. This encompasses all actions, procedures, checks and decisions undertaken, to ensure the accuracy and reliability of the analysis results. As part of the laboratory QA, QC samples were analysed with each batch of samples as part of this investigation as required by NATA. A discussion of the laboratory QC samples analysed as part of this investigation is provided in Section G3.3.2.

G3. QUALITY CONTROL

QC involves those parts of QA which serve to monitor and measure the effectiveness of QA procedures. QC samples assess sample integrity, accuracy and precision and can be separated into field and laboratory QC.

G3.1 DEFINITIONS

Table G1 provides a description and objective of each of the field and laboratory QC samples used during this investigation.

Table G1: QC Sample Types, Descriptions and Recommended Frequency of Analysis

Type	Description	Purpose	Recommended Frequency
	FIELD QC SAMPLES		
Blind Replicate	A sample collected at the same time and from the same sampling point as the corresponding primary sample[1], and analysed at the same laboratory. Blind replicates are collected, preserved, stored, transported and analysed in the same manner as the primary sample, with the laboratory having no knowledge of the source of the replicate sample. The assessment of blind replicates samples is undertaken by calculating the Relative Percent Difference (RPD) which is defined as: $RPD\ (\%) = 100 \times \frac{\text{Result No. 1 – Result No. 2}}{\text{Mean Result}}$	Used to evaluate total sampling and analysis precision and, in the case of soil samples, sample variability.	In accordance with AS4482.1 (reference 2) and NEPM (reference 3) it is recommended that 1 blind replicate sample is collected for every 20 primary samples.
Split Duplicate	A sample collected at the same time and from the same sampling point as the corresponding primary sample, and analysed at a separate laboratory. Split duplicates are collected, preserved, stored, transported and analysed in the same manner as the primary sample, with the laboratories having no knowledge of the purpose of the sample. The assessment of split duplicates samples is undertaken by calculating the Relative Percent Difference (RPD) which is defined as: $RPD\ (\%) = 100 \times \frac{\text{Result No. 1 – Result No. 2}}{\text{Mean Result}}$	Used to provide a check on the analytical proficiency of the laboratories and hence precision and comparability.	In accordance with AS4482.1 (reference 2) and NEPM (reference 3) it is recommended that 1 split duplicate sample is collected for every 20 primary samples.

[1] Primary samples are the original representative samples of soil or groundwater collected for analysis to determine aspects of their chemical composition. Primary samples are the original sample taken from a particular location and other samples from the same location are duplicates, replicates or splits.

Table G1 Continued

Type	Description	Purpose	Recommended Frequency
Trip Blank	Trip blanks are laboratory supplied test samples of analyte-free media (either washed sand or de-ionised water) which remain in the sample storage eskies during sampling activities and returned to the laboratory unopened. For soil sampling programmes, the trip blank consists of acid-washed quartz sand that has been heated to 400ºC. For water sampling programs trip blanks comprise pre-washed glass vials containing distilled or de-ionised water with appropriate preservatives. The USEPA has shown that cross-contamination only occurs with volatile organics (reference 4), therefore, trip blanks are only analysed for volatile organics.	Used to measure cross-contamination during sampling, transport, sample preparation and analysis.	Industry standard is 1 trip blank per batch of primary samples.
Trip Spike	Trip spikes, like trip blanks, are supplied by the primary laboratory using analyte-free media (either washed sand or de-ionised water) and remain in the sample storage eskies during sampling activities and returned to the laboratory unopened. The sample media, however, is spiked with BTEX. For water sampling programmes the BTEX concentration is known and standardised by each laboratory, while for soil sampling programmes the exact spike concentration is not known, rather two identical jars of sand are spiked the same concentration with one sample becoming the trip-spike and the other becoming a control sample, which remains in a refrigerator at the laboratory. The trip spike is analysed after returning from the field and the % recovery of the known spike (for water sampling programs), or of the control sample (for soil sampling programs), is calculated.	Used to monitor VOC losses during transit.	Industry standard is 1 trip spike per batch of primary samples where volatile concentrations are being measured.
Rinsate	This is a sample of distilled or de-ionised water poured over the surface of a decontaminated piece of sampling equipment and collected in appropriate laboratory supplied sample containers. The sample is then analysed for contaminants of concern analysed as part of the investigation.	Provides an assessment of potential cross contamination of chemicals from sampling equipment caused by inadequate decontamination procedures.	In accordance with AS4482.1 – (reference 2) one rinsate sample should be collected each day per piece of sampling equipment and.

Table G1 Continued

Type	Description	Purpose	Recommended Frequency
	LABORATORY QC SAMPLES		
Laboratory Duplicate	Laboratory duplicates are field samples which are prepared and analysed in the same manner twice. The assessment of laboratory duplicates is undertaken by calculating the (RPD) which is defined as: $\text{RPD (\%)} = 100 \times \frac{\text{Result No. 1 – Result No. 2}}{\text{Mean Result}}$	Determines analytical precision for a sample batch	NATA specifies 1 per 10 samples for trace element and inorganic analysis
Laboratory Control Sample (LCS)	Laboratory Control Samples (LCS) are analyte-free matrices (de-ionised water or clean sand) spiked with a known concentration of target analytes and carried through the entire preparation and analysis. Assessment of LCS is undertaken by calculating the percent recovery (%R) of the spike which is defined as: $\text{Percent Recovery (\%R)} = 100 \times \frac{\text{Spikes Sample Result (SSR) – Sample Result (SR)}}{\text{Concentration of Spike Added (SA)}}$	Determines analytical accuracy and precision for a batch of samples	NATA specifies 1 per batch of up to 20 samples
Surrogates	Surrogates are organic compounds added to field samples and laboratory QC samples prior to preparation. They are similar in chemical behaviour to the target analytes and are not expected to be present in samples from part of the laboratory QC for organic analyses, and are used to indicate the presence of sample specific interferences. The surrogate is added at the extraction stage then analysed with the batch of samples. Like LCSs, surrogates are assessed by calculating the percent recovery (%R), although the definition is slightly different as shown below: $\text{Percent Recovery (\%R)} = 100 \times \frac{\text{Spiked Sample Result (SSR)}}{\text{Concentration of Spike Added (SA)}}$	Used to demonstrate that the surrogate does not interfere with the target analytes, therefore determines analytical accuracy for each sample	Added to every blank, field and laboratory QC sample
Matrix Spikes	Field samples spiked with a known concentration of a target analytes and carried through the entire preparation and analysis. Matrix spike samples are assessed by calculating the percent recovery (%R) of the spike which is defined as: $\text{Percent Recovery (\%R)} = 100 \times \frac{\text{Spikes Sample Result (SSR) – Sample Result (SR)}}{\text{Concentration of Spike Added (SA)}}$	Determine the effects of matrix interferences on analytical accuracy of a sample.	Performed at least 1 per batch of up to 20 samples.
Method Blank	Method blanks are an analyte-free matrices (reagent water or clean sand) that is carried through the entire preparation and analysis.	Establishes that laboratory contamination does not cause false positives.	Prepared with every batch of up to 20 samples for all organic and inorganic analyses.

G3.2 CRITERIA / ACCEPTABLE RANGE

The QC Acceptance Criteria adopted for this investigation is provided in Table G2 and is in general accordance with the Table 4 of AS4482.1 (reference 2) and NEPM (reference 3).

Table G2: QC Sample Acceptance Criteria

QC Sample	Criteria / Acceptable Range
FIELD QC SAMPLES	
Blind Replicate & Split Duplicate	RPD < 50 % When average concentration is > 10 x LOR/PQL[2] RPD < 75 % When average concentration is 5 to 10 x LOR/PQL RPD < 150 % When average concentration is < 5 x LOR/PQL
Trip Blank	Analytical Result < LOR/PQL
Trip Spike	± 30%
Rinsate	Analytical Result < LOR/PQL
LABORATORY QC SAMPLES	
Laboratory Duplicates	RPD < 30 % When average concentration is > 10 x LOR/PQL RPD < 50 % When average concentration is 4 to 10 x LOR/PQL RPD < 100 % When average concentration is< 4 x LOR/PQL
Laboratory Control Samples	%R of 70 – 130% (General analytes) %R of 50 – 130% (Phenols) %R of 60 – 130% (OCP/OPPs) %R of 62 – 130% (Chromium)
Surrogates	%R of 70 – 130% (General analytes) %R of 50 – 130% (Phenols) %R of 60 – 130% (OCP/OPPs)
Matrix Spikes	%R of 70 – 130% (General analytes) %R of 50 – 130% (Phenols) %R of 60 – 130% (OCP/OPPs) %R of 62 – 130% (Chromium)
Method Blanks	Analytical Results < LOR/PQL

If data do not meet the QC Acceptance Criteria, then a judgement is made as to whether the exceedance is critical in relation to the suitability of the data set. Otherwise, the following steps will be taken:

- ◊ Request that the laboratory re-check or even re-analyse the sample.
- ◊ Inspect the sample for anomalies which may be causing the failure.
- ◊ If necessary, undertake additional sampling and analyses.

[2] Both the LOR and PQL are interchangeable terms used by laboratories and is defined as the lowest concentration that can be reliably achieved within specific limits of precision and accuracy during routine laboratory operating conditions (reference 5).

G3.3 RESULTS

G3.3.1 Field QC Samples

Field QC samples collected and analysed as part of this investigation comprised:

- ◊ Three blind replicates (SM080825-102, SM080825-107, SM080825-110)
- ◊ Three split duplicates (SM080825-104, SM080825-108, SM080825-111)
- ◊ One trip blank per batch of samples (labelled 'trip blank')
- ◊ One trip spike per batch of samples (labelled 'trip spike)
- ◊ One Rinsate from the hand auger (SM080825-R)

Tabulated results are presented at the conclusion of this Appendix. Table G3 provides a summary of the frequency of QC samples and lists results which do not meet the criteria established in Table G2.

Table G3: QC Sample Acceptance Criteria - Soil

Type	Frequency Conducted	Results Not Meeting the Criteria
Blind Replicates	Metals - 3 per 39 samples (7.7%)	Cr in 1 of the samples (RPD 52%)
	TRH/BTEXN - 1 per 8 samples (12.5%)	--
	PAHs – 2 per 22 samples (9.1%)	Total PAHs in 2 of the samples (61% to 80%)
	OCPs – 2 per 25 samples (8.0%)	--
	OPPs – 1 per 17 samples (5.9%)	--
	PCBs – 1 per 8 samples (12.5%)	--
Split Duplicate	Metals - 3 per 39 samples (7.7%)	Cu, Pb and Zn in 1 of the samples (RPD 59% to 81%)
	TRH/BTEXN - 1 per 8 samples (12.5%)	--
	PAHs – 2 per 22 samples (9.1%)	--
	OCPs – 2 per 25 samples (8.0%)	--
	OPPs – 1 per 17 samples (5.9%)	--
	PCBs – 1 per 8 samples (12.5%)	--
Rinsate	Hand Auger	--
Trip Spike	1 per sample batch	--
Trip Blank	1 per sample batch	--

The soil program quality control results all conformed to the sample acceptance criteria except an elevated RPDs for some metals and total PAHs in one or more of the blind replicates and split duplicates. The elevated RPDs is attributed to the heterogeneous nature of the samples rather than an error with the lab's precision.

Regardless, GEE has adopted to highest concentrations when assessing contamination risk and when making conclusions about the site.

G3.3.2 Laboratory QC

Laboratory QC results are provided in the laboratory reports while a summary of the results which exceeded the acceptance criteria is provided in Table G4.

Table G4: QC Sample Acceptance Criteria

Type	Results Exceeding Criteria
Laboratory Duplicates	--
Laboratory Control Samples	--
Surrogates	--
Matrix Spikes	--
Method Blanks	--

G4. DATA QUALITY ASSESSMENT

In accordance with reference 1, Data Quality Indicators (DQIs), specifically, precision, accuracy, representativeness, completeness and comparability, were used to assess the reliability of field procedures and analytical results.

G4.1 PRECISION

This is the measure of the variability (or reproducibility) of the data. In the field precision is achieved by using standard operating procedures which were adopted by GEE during this investigation. For laboratory analysis precision is assessed using blind replicates and trip spikes. The measured RPDs for the blind replicate samples and split samples were considered acceptable as were the analytical results for the trip spike.

F4.2 ACCURACY

Accuracy is a measure of the closeness of a measurement to the true parameter value. In the field, accuracy is achieved by using standard operating procedures which were adopted by GEE. For laboratory analysis, accuracy is assessed using tip blanks, rinsate blanks, method blanks, matrix spikes, surrogates and laboratory control samples. Considering that these QC samples were of an acceptable standard, GEE considers the laboratory data set to be accurate.

G4.3 REPRESENTATIVENESS

This is the confidence (expressed qualitatively) that the data are representative of each media present on the site. This is achieved in the field and laboratory by using an adequate number of sampling points to characterise the site and ensuring that the samples collected were representative of the media from which they were collected. Additionally, samples should be analysed within necessary holding times depending on the analyte.

Environmental samples were collected from each borehole in general accordance with techniques described in Australian Standards AS4482.1 (reference 2) AS4482.2 (reference 6) and NEPM (reference 1), to maintain the representativeness and integrity of the samples. The number of sampling points exceeded the minimum required sampling density as defined by NSW EPA (reference 7), however, were considered sufficient for the purpose of this investigation.

Finally, all samples were analysed within holding times.

G4.4 COMPLETENESS

This is a measure of whether all the data necessary to meet the project objectives, were collected. In the field and laboratory, this is achieved by sampling all critical locations and depths using acceptable methods and ensuring samples are analysed for appropriate chemicals.

GEE selected sufficient enough sample points for the purpose of the investigation as defined by the NSW EPA (reference 7). Additionally, samples were analysed for chemicals of concern based on appropriate field screening measures and logging of unusual aesthetics which may indicate contamination. Combined with the fact that standard operating procedures were adopted by GEE, the investigation is assessed as being complete.

G4.5 COMPARABILITY

This is a measure of confidence that data may be considered to be equivalent for each sampling and analysis event. Soil samples were collected by experienced GEE personnel using standard operating procedures and analysed in accordance with NATA accredited laboratory methods. The comparability of the data should be consistent as sampling protocols were employed throughout the duration of the fieldwork and analysis was undertaken by NATA registered laboratories using accredited analytical methods.

G5. CONCLUSION

A review of the DQIs indicates that the field procedures and analytical results adopted for this investigation are able to be relied upon for making conclusions and recommendations regarding the contamination status of the site.

References

1. *NEPC, 1999: National Environment Protection Council (1999). National Environment Protection (Assessment of Site Contamination) Measure, 1999. Schedule B(2) Site Characterisation.*

2. *Australian Standard AS4482.1 – 2005: Guide to the sampling and investigation of potentially contaminated soil Part 1: Non-volatile and semi-volatile compounds.*

3. *NEPC, 1999: National Environment Protection Council (1999). National Environment Protection (Assessment of Site Contamination) Measure. Schedule B(3) Guideline of Laboratory Analysis of Potentially contaminated Soils.*

4. *Keith, 1991: Environmental sampling and Analysis, A practical guide. Lewis Publishers.*

5. *Popek (2003). Sampling and Analysis of Environmental Chemical Pollutants. Academic Press.*

6. *Australian Standard AS4482.2 – 1999: Guide to the sampling and investigation of potentially contaminated soil Part 2: Volatile substances.*

7. *NSW EPA, 2022: Environment Protection Authority NSW, 2022: Contaminated Land Guidelines: Sampling Design – Part 1. August 2022.*

SOIL - Blind Replicate Results

			Sample Date	8/08/2025	8/08/2025	RPD	8/08/2025	8/08/2025	RPD	8/08/2025	8/08/2025	RPD
			Sample Identification	SM080825-10	SM080825-102		SM080825-30	SM080825-107		SM080825-60	SM080825-110	
Analyte	LOR	Units										
Total Metals												
Arsenic	4	mg/kg		<4	<4	--	12	8	40%	5	5	0%
Cadmium	0.4	mg/kg		<0.4	<0.4	--	<0.4	<0.4	--	<0.4	<0.4	--
Chromium	1	mg/kg		10	17	**52%**	13	13	0%	11	13	17%
Copper	1	mg/kg		17	18	6%	24	21	13%	24	23	4%
Lead	1	mg/kg		120	150	22%	170	110	43%	100	130	26%
Mercury	0.1	mg/kg		<0.1	<0.1	--	0.1	0.1	0%	<0.1	<0.1	--
Nickel	1	mg/kg		4	7	55%	5	4	22%	4	4	0%
Zinc	1	mg/kg		78	86	10%	86	100	15%	95	92	3%
BTEXN												
Benzene	0.2	mg/kg		-	-	--	<0.2	<0.2	--	-	-	--
Toluene	0.5	mg/kg		-	-	--	<0.5	<0.5	--	-	-	--
Ethylbenzene	1	mg/kg		-	-	--	<1	<1	--	-	-	--
Total Xylenes	1	mg/kg		-	-	--	<1	<1	--	-	-	--
Naphthalene	1	mg/kg		-	-	--	<1	<1	--	-	-	--
Total Recoverable Hydrocarbons												
F1 (C6-C10)	25	mg/kg		-	-	--	<25	<25	--	-	-	--
F2 (>C10-C16)	50	mg/kg		-	-	--	<50	<50	--	-	-	--
F3 (>C16-C34)	100	mg/kg		-	-	--	<100	<100	--	-	-	--
F4 (>C34-C40)	100	mg/kg		-	-	--	<100	<100	--	-	-	--
Polycyclic Aromatic Hydrocarbons (PAH)												
Benzo(a)pyrene	0.05	mg/kg		0.3	-	**--**	0.3	0.1	100%	0.64	0.4	46%
Benzo(a)pyrene TEQ	0.5	mg/kg		<0.5	-	--	<0.5	<0.5	--	0.8	<0.5	--
Total PAHs	0.05	mg/kg		2.7	-	**--**	2.8	1.2	**80%**	6.4	3.4	**61%**
Organochlorine Pesticides (OCP)												
Heptachlor	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Aldrin	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Dieldrin	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Endrin	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
gamma-Chlordane	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
alpha-chlordane	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Endosulfan I	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Endosulfan II	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
HCB	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Methoxychlor	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
DDE + DDD + DDT	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Remaining OCPs	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Organophosphate Pesticides (OPPs)												
Chlorpyriphos	0.1	mg/kg		<0.1	-	--	-	-	--	<0.1	<0.1	--
Remaining OPPs	0.1	mg/kg		<0.1	-	--	-	-	--	<0.1	<0.1	--
Polychlorinated Biphenyls (PCBs)												
Total PCBs	0.1	mg/kg		-	-	--	<0.1	<0.1	--	-	-	--

Values in Bold Indicate:

RPD > 50 % When average concentration is > 10 x LOR
RPD > 75 % When average concentration is 5 to 10 x LOR
RPD > 150 % When average concentration is < 5 x LOR

SOIL - Split Duplicate Results

			Sample Date	8/08/2025	8/08/2025		8/08/2025	8/08/2025		8/08/2025	8/08/2025	
			Sample Identification	**SM080825-21**	**SM080825-104**	**RPD**	**SM080825-33**	**SM080825-108**	**RPD**	**SM080825-63**	**SM080825-111**	**RPD**
Analyte	LOR	Units										
Total Metals												
Arsenic	4	mg/kg		7	7.4	6%	16	13	21%	7	5.8	19%
Cadmium	0.4	mg/kg		<0.4	<0.4	--	0.9	<0.4	--	0.5	0.7	33%
Chromium	1	mg/kg		20	25	22%	21	20	5%	10	11	10%
Copper	1	mg/kg		16	15	6%	470	200	**81%**	58	55	5%
Lead	1	mg/kg		28	27	4%	780	410	**62%**	160	180	12%
Mercury	0.1	mg/kg		<0.1	<0.1	--	0.3	0.19	45%	<0.1	<0.10	--
Nickel	1	mg/kg		2	2.4	18%	11	5.6	65%	4	3.8	5%
Zinc	1	mg/kg		5	4.8	4%	590	320	**59%**	70	82	16%
BTEXN												
Benzene	0.2	mg/kg		-	-	--	<0.2	<0.20	--	-	-	--
Toluene	0.5	mg/kg		-	-	--	<0.5	<0.50	--	-	-	--
Ethylbenzene	1	mg/kg		-	-	--	<1	<1.0	--	-	-	--
Total Xylenes	1	mg/kg		-	-	--	<1	<1.0	--	-	-	--
Naphthalene	1	mg/kg		-	-	--	<1	<1.0	--	-	-	--
Total Recoverable Hydrocarbons												
F1 (C6-C10)	25	mg/kg		-	-	--	<25	<25	--	-	-	--
F2 (>C10-C16)	50	mg/kg		-	-	--	<50	<50	--	-	-	--
F3 (>C16-C34)	100	mg/kg		-	-	--	<100	<100	--	-	-	--
F4 (>C34-C40)	100	mg/kg		-	-	--	<100	<100	--	-	-	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
Benzo(a)pyrene	0.05	mg/kg		-	-	--	0.1	0.13	26%	0.3	0.27	11%
Benzo(a)pyrene TEQ	0.5	mg/kg		-	-	--	<0.5	<0.50	--	<0.5	<0.50	--
Total PAHs	0.05	mg/kg		-	-	--	1.2	1.5	22%	2.6	2.7	4%
Organochlorine Pesticides (OCP)												
Heptachlor	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Aldrin	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Dieldrin	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Endrin	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
gamma-Chlordane	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
alpha-chlordane	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Endosulfan I	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Endosulfan II	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
HCB	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Methoxychlor	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
DDE + DDD + DDT	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Remaining OCPs	0.1	mg/kg		<0.1	-	--	<0.1	<0.1	--	<0.1	<0.1	--
Organophosphate Pesticides (OPPs)												
Chlorpyriphos	0.1	mg/kg		<0.1	-	--	-	-	--	<0.1	<0.1	--
Remaining OPPs	0.1	mg/kg		<0.1	-	--	-	-	--	<0.1	<0.1	--
Polychlorinated Biphenyls (PCBs)												
Total PCBs	0.1	mg/kg		-	-	--	<0.1	<0.1	--	-	-	--

Values in Bold Indicate:

RPD > 50 % When average concentration is > 10 x LOR
RPD > 75 % When average concentration is 5 to 10 x LOR
RPD > 150 % When average concentration is < 5 x LOR

SOIL - Trip Blank Results

Laboratory:		Envirolab
Laboratory Report Number:		388097
Sample ID		**Trip Blank**
Analyte	Units	
BTEXN		
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
meta- & para-Xylene	mg/kg	<2
ortho-Xylene	mg/kg	<1
Total Xylenes	mg/kg	<1
Naphthalene	mg/kg	<1
Total Petroleum Hydrocarbons		
TRH C_6 - C_{10} (F1)	mg/kg	<25

Values in Bold Indicate: Detection above Laboratory Limit Of Reporting

SOIL - Trip Spike Results

Laboratory:		Envirolab
Laboratory Report Number:		388097
Sample ID		**Trip Spike**
Analyte	Units	
BTEXN		
Benzene	mg/kg	98
Toluene	mg/kg	98
Ethylbenzene	mg/kg	99
meta- & para-Xylene	mg/kg	99
ortho-Xylene	mg/kg	98
Total Xylenes	mg/kg	-
Naphthalene	mg/kg	-

Values in Bold Indicate: Data Outside Acceptable Range of 70 - 130

SOIL - Rinsate Results

Laboratory Report Number:		388097
Sample ID		**SM080825-R**
Analyte	Units	
Total Metals		
Arsenic	mg/L	<0.05
Cadmium	mg/L	<0.01
Chromium	mg/L	<0.01
Copper	mg/L	<0.01
Lead	mg/L	<0.03
Mercury	mg/L	<0.0005
Nickel	mg/L	<0.02
Zinc	mg/L	<0.02
BTEXN		
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
Total Petroleum Hydrocarbons		
F1 (C6-C10)	µg/L	<10
F2 (>C10-C16)	µg/L	<50
F3 (>C16-C34)	µg/L	<100
F4 (>C34-C40)	µg/L	<100

Values in Bold Indicate: Detection above Laboratory Limit Of Reporting

APPENDIX H

Laboratory Reports

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CERTIFICATE OF ANALYSIS 388097

Client Details

Client	Geo-Environmental Engineering
Attention	Stephen McCormack
Address	82 Bridge St, Lane Cove, NSW, 2066

Sample Details

Your Reference	**E25008GOR**
Number of Samples	55 Soil, 1 Water
Date samples received	08/08/2025
Date completed instructions received	08/08/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. 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	15/08/2025
Date of Issue	15/08/2025

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Jack Wallis, Senior Chemist
Larry Ye, Senior Chemist
Loren Bardwell, Development Chemist
Lucy Zhu, Asbestos Supervisor
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		388097-14	388097-17	388097-23	388097-26	388097-32
Your Reference	UNITS	SM080825-14	SM080825-17	SM080825-30	SM080825-33	SM080825-39
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	95	88	97	91	94

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		388097-38	388097-48	388097-51	388097-54	388097-55
Your Reference	UNITS	SM080825-64	SM080825-74	SM080825-107	Trip Blank	Trip Spike
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	[NA]
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	[NA]
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	[NA]
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	98%
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	98%
Ethylbenzene	mg/kg	<1	<1	<1	<1	99%
m+p-xylene	mg/kg	<2	<2	<2	<2	99%
o-Xylene	mg/kg	<1	<1	<1	<1	98%
Naphthalene	mg/kg	<1	<1	<1	<1	[NA]
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	[NA]
Surrogate aaa-Trifluorotoluene	%	98	99	96	99	99

svTRH (C10-C40) in Soil						
Our Reference		388097-14	388097-17	388097-23	388097-26	388097-32
Your Reference	UNITS	SM080825-14	SM080825-17	SM080825-30	SM080825-33	SM080825-39
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
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	%	84	79	87	79	81

svTRH (C10-C40) in Soil				
Our Reference		388097-38	388097-48	388097-51
Your Reference	UNITS	SM080825-64	SM080825-74	SM080825-107
Date Sampled		08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	11/08/2025	11/08/2025	11/08/2025
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50
Surrogate o-Terphenyl	%	86	88	81

PAHs in Soil						
Our Reference		388097-1	388097-4	388097-10	388097-14	388097-15
Your Reference	UNITS	SM080825-01	SM080825-04	SM080825-10	SM080825-14	SM080825-15
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	0.3	0.3	0.2	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	1.1	0.8	0.4	0.1	<0.1
Pyrene	mg/kg	1.2	0.8	0.4	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.8	0.5	0.2	<0.1	<0.1
Chrysene	mg/kg	0.8	0.5	0.2	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	2	1	0.4	<0.2	<0.2
Benzo(a)pyrene	mg/kg	1.1	0.70	0.3	0.06	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	0.4	0.2	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	0.2	0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.8	0.5	0.2	<0.1	<0.1
Total +ve PAH's	mg/kg	8.5	5.5	2.7	0.3	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.6	1.0	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.6	1.0	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.6	1.0	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	98	94	95	95	88

PAHs in Soil						
Our Reference		388097-17	388097-18	388097-19	388097-23	388097-26
Your Reference	UNITS	SM080825-17	SM080825-18	SM080825-19	SM080825-30	SM080825-33
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	0.7	<0.1	<0.1	0.3	0.2
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	1.7	<0.1	<0.1	0.5	0.3
Pyrene	mg/kg	1.8	<0.1	<0.1	0.4	0.2
Benzo(a)anthracene	mg/kg	0.9	<0.1	<0.1	0.2	0.1
Chrysene	mg/kg	0.8	<0.1	<0.1	0.2	0.1
Benzo(b,j+k)fluoranthene	mg/kg	1	<0.2	<0.2	0.5	0.2
Benzo(a)pyrene	mg/kg	0.86	<0.05	<0.05	0.3	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	0.4	<0.1	<0.1	0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.5	<0.1	<0.1	0.2	<0.1
Total +ve PAH's	mg/kg	9.1	<0.05	<0.05	2.8	1.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.2	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.2	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.2	<0.5	<0.5	0.5	<0.5
Surrogate p-Terphenyl-d14	%	105	88	91	94	104

PAHs in Soil						
Our Reference		388097-28	388097-31	388097-32	388097-33	388097-34
Your Reference	UNITS	SM080825-35	SM080825-38	SM080825-39	SM080825-40	SM080825-60
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	0.4	0.2	<0.1	<0.1	0.6
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Fluoranthene	mg/kg	0.6	0.3	<0.1	<0.1	1.2
Pyrene	mg/kg	0.6	0.3	<0.1	<0.1	1.1
Benzo(a)anthracene	mg/kg	0.2	0.1	<0.1	<0.1	0.5
Chrysene	mg/kg	0.3	0.2	<0.1	<0.1	0.6
Benzo(b,j+k)fluoranthene	mg/kg	0.5	0.2	<0.2	<0.2	1
Benzo(a)pyrene	mg/kg	0.3	0.2	<0.05	<0.05	0.64
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.3
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	<0.1	<0.1	0.4
Total +ve PAH's	mg/kg	3.1	1.6	<0.05	<0.05	6.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.8
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.9
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.9
Surrogate p-Terphenyl-d14	%	98	91	92	98	101

PAHs in Soil						
Our Reference		388097-37	388097-38	388097-42	388097-48	388097-51
Your Reference	UNITS	SM080825-63	SM080825-64	SM080825-68	SM080825-74	SM080825-107
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.4	0.2	<0.1	<0.1	0.2
Pyrene	mg/kg	0.4	0.2	<0.1	<0.1	0.2
Benzo(a)anthracene	mg/kg	0.2	0.1	<0.1	<0.1	0.1
Chrysene	mg/kg	0.2	0.1	<0.1	<0.1	0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.4	0.2	<0.2	<0.2	0.2
Benzo(a)pyrene	mg/kg	0.3	0.1	0.05	<0.05	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
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	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	2.6	0.99	0.05	<0.05	1.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	92	88	88	95	101

PAHs in Soil		
Our Reference		388097-52
Your Reference	UNITS	SM080825-110
Date Sampled		08/08/2025
Type of sample		Soil
Date extracted	-	11/08/2025
Date analysed	-	12/08/2025
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.2
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	0.6
Pyrene	mg/kg	0.5
Benzo(a)anthracene	mg/kg	0.2
Chrysene	mg/kg	0.3
Benzo(b,j+k)fluoranthene	mg/kg	0.6
Benzo(a)pyrene	mg/kg	0.4
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2
Total +ve PAH's	mg/kg	3.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	0.6
Surrogate p-Terphenyl-d14	%	86

Organochlorine Pesticides in soil						
Our Reference		388097-1	388097-2	388097-4	388097-7	388097-10
Your Reference	UNITS	SM080825-01	SM080825-02	SM080825-04	SM080825-07	SM080825-10
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	95	97	97	101	98

Organochlorine Pesticides in soil						
Our Reference		388097-14	388097-17	388097-21	388097-23	388097-24
Your Reference	UNITS	SM080825-14	SM080825-17	SM080825-21	SM080825-30	SM080825-31
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	4.4	<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	4.4	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	98	104	93	94	94

Organochlorine Pesticides in soil						
Our Reference		388097-26	388097-27	388097-28	388097-31	388097-32
Your Reference	UNITS	SM080825-33	SM080825-34	SM080825-35	SM080825-38	SM080825-39
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	101	98	99	95	93

Organochlorine Pesticides in soil						
Our Reference		388097-34	388097-37	388097-38	388097-39	388097-42
Your Reference	UNITS	SM080825-60	SM080825-63	SM080825-64	SM080825-65	SM080825-68
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	94	95	92	95	90

Organochlorine Pesticides in soil						
Our Reference		388097-43	388097-45	388097-46	388097-48	388097-51
Your Reference	UNITS	SM080825-69	SM080825-71	SM080825-72	SM080825-74	SM080825-107
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	102	96	92	89	96

Organochlorine Pesticides in soil		
Our Reference		388097-52
Your Reference	UNITS	SM080825-110
Date Sampled		08/08/2025
Type of sample		Soil
Date extracted	-	11/08/2025
Date analysed	-	12/08/2025
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Total Positive Aldrin+Dieldrin	mg/kg	<0.1
Surrogate 4-Chloro-3-NBTF	%	88

Organophosphorus Pesticides in Soil						
Our Reference		388097-1	388097-2	388097-4	388097-7	388097-10
Your Reference	UNITS	SM080825-01	SM080825-02	SM080825-04	SM080825-07	SM080825-10
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	95	97	97	101	98

Organophosphorus Pesticides in Soil						
Our Reference		388097-21	388097-24	388097-27	388097-28	388097-31
Your Reference	UNITS	SM080825-21	SM080825-31	SM080825-34	SM080825-35	SM080825-38
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	93	94	98	99	95

Organophosphorus Pesticides in Soil						
Our Reference		388097-34	388097-37	388097-39	388097-42	388097-43
Your Reference	UNITS	SM080825-60	SM080825-63	SM080825-65	SM080825-68	SM080825-69
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	94	95	95	90	102

Organophosphorus Pesticides in Soil				
Our Reference		388097-45	388097-46	388097-52
Your Reference	UNITS	SM080825-71	SM080825-72	SM080825-110
Date Sampled		08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025
Dichlorvos	mg/kg	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	96	92	88

PCBs in Soil						
Our Reference		388097-14	388097-17	388097-23	388097-26	388097-32
Your Reference	UNITS	SM080825-14	SM080825-17	SM080825-30	SM080825-33	SM080825-39
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
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	%	91	98	91	96	92

PCBs in Soil				
Our Reference		388097-38	388097-48	388097-51
Your Reference	UNITS	SM080825-64	SM080825-74	SM080825-107
Date Sampled		08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	88	86	92

Acid Extractable metals in soil						
Our Reference		388097-1	388097-2	388097-4	388097-5	388097-7
Your Reference	UNITS	SM080825-01	SM080825-02	SM080825-04	SM080825-05	SM080825-07
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Arsenic	mg/kg	6	6	6	6	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	13	19	12	13	14
Copper	mg/kg	22	15	21	12	17
Lead	mg/kg	140	21	190	44	83
Mercury	mg/kg	0.1	<0.1	0.1	<0.1	<0.1
Nickel	mg/kg	5	4	5	2	10
Zinc	mg/kg	64	7	150	90	120

Acid Extractable metals in soil						
Our Reference		388097-8	388097-10	388097-11	388097-12	388097-14
Your Reference	UNITS	SM080825-08	SM080825-10	SM080825-11	SM080825-12	SM080825-14
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Arsenic	mg/kg	8	<4	27	11	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	10	16	20	12
Copper	mg/kg	9	17	13	8	15
Lead	mg/kg	16	120	62	24	21
Mercury	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Nickel	mg/kg	2	4	3	2	4
Zinc	mg/kg	3	78	61	8	18

Acid Extractable metals in soil						
Our Reference		388097-15	388097-17	388097-18	388097-19	388097-21
Your Reference	UNITS	SM080825-15	SM080825-17	SM080825-18	SM080825-19	SM080825-21
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Arsenic	mg/kg	5	55	12	7	7
Cadmium	mg/kg	<0.4	0.7	<0.4	<0.4	<0.4
Chromium	mg/kg	16	23	13	15	20
Copper	mg/kg	22	60	11	13	16
Lead	mg/kg	23	760	34	20	28
Mercury	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Nickel	mg/kg	4	7	3	2	2
Zinc	mg/kg	30	410	59	8	5

Acid Extractable metals in soil						
Our Reference		388097-22	388097-23	388097-24	388097-26	388097-27
Your Reference	UNITS	SM080825-22	SM080825-30	SM080825-31	SM080825-33	SM080825-34
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Arsenic	mg/kg	5	12	7	16	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	0.9	<0.4
Chromium	mg/kg	8	13	13	21	9
Copper	mg/kg	8	24	9	470	29
Lead	mg/kg	14	170	22	780	19
Mercury	mg/kg	<0.1	0.1	<0.1	0.3	<0.1
Nickel	mg/kg	<1	5	4	11	<1
Zinc	mg/kg	2	86	110	590	7

Acid Extractable metals in soil						
Our Reference		388097-28	388097-29	388097-31	388097-32	388097-33
Your Reference	UNITS	SM080825-35	SM080825-36	SM080825-38	SM080825-39	SM080825-40
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Arsenic	mg/kg	48	<4	10	5	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	36	8	15	15	22
Copper	mg/kg	28	8	19	29	10
Lead	mg/kg	180	19	110	28	19
Mercury	mg/kg	0.1	<0.1	0.1	<0.1	<0.1
Nickel	mg/kg	14	<1	4	4	3
Zinc	mg/kg	140	4	80	39	3

Acid Extractable metals in soil						
Our Reference		388097-34	388097-35	388097-37	388097-38	388097-39
Your Reference	UNITS	SM080825-60	SM080825-61	SM080825-63	SM080825-64	SM080825-65
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Arsenic	mg/kg	5	11	7	9	6
Cadmium	mg/kg	<0.4	<0.4	0.5	<0.4	<0.4
Chromium	mg/kg	11	14	10	16	16
Copper	mg/kg	24	8	58	24	11
Lead	mg/kg	100	18	160	150	53
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	2	4	5	4
Zinc	mg/kg	95	3	70	110	24

Acid Extractable metals in soil						
Our Reference		388097-40	388097-42	388097-43	388097-45	388097-46
Your Reference	UNITS	SM080825-66	SM080825-68	SM080825-69	SM080825-71	SM080825-72
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Arsenic	mg/kg	8	7	6	8	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	12	16	14	14
Copper	mg/kg	7	14	8	29	11
Lead	mg/kg	20	150	19	190	16
Mercury	mg/kg	<0.1	0.1	<0.1	0.2	<0.1
Nickel	mg/kg	1	4	3	4	3
Zinc	mg/kg	3	59	6	120	11

Acid Extractable metals in soil					
Our Reference		388097-48	388097-50	388097-51	388097-52
Your Reference	UNITS	SM080825-74	SM080825-102	SM080825-107	SM080825-110
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Arsenic	mg/kg	5	<4	8	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	14	17	13	13
Copper	mg/kg	6	18	21	23
Lead	mg/kg	8	150	110	130
Mercury	mg/kg	<0.1	<0.1	0.1	<0.1
Nickel	mg/kg	4	7	4	4
Zinc	mg/kg	17	86	100	92

Moisture						
Our Reference		388097-1	388097-2	388097-4	388097-5	388097-7
Your Reference	UNITS	SM080825-01	SM080825-02	SM080825-04	SM080825-05	SM080825-07
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Moisture	%	21	23	18	24	19

Moisture						
Our Reference		388097-8	388097-10	388097-11	388097-12	388097-14
Your Reference	UNITS	SM080825-08	SM080825-10	SM080825-11	SM080825-12	SM080825-14
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Moisture	%	22	18	23	25	19

Moisture						
Our Reference		388097-15	388097-17	388097-18	388097-19	388097-21
Your Reference	UNITS	SM080825-15	SM080825-17	SM080825-18	SM080825-19	SM080825-21
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Moisture	%	21	28	20	20	26

Moisture						
Our Reference		388097-22	388097-23	388097-24	388097-26	388097-27
Your Reference	UNITS	SM080825-22	SM080825-30	SM080825-31	SM080825-33	SM080825-34
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Moisture	%	21	20	22	27	16

Moisture						
Our Reference		388097-28	388097-29	388097-31	388097-32	388097-33
Your Reference	UNITS	SM080825-35	SM080825-36	SM080825-38	SM080825-39	SM080825-40
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Moisture	%	30	20	28	23	25

Moisture						
Our Reference		388097-34	388097-35	388097-37	388097-38	388097-39
Your Reference	UNITS	SM080825-60	SM080825-61	SM080825-63	SM080825-64	SM080825-65
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Moisture	%	22	23	20	18	29

Moisture						
Our Reference		388097-40	388097-42	388097-43	388097-45	388097-46
Your Reference	UNITS	SM080825-66	SM080825-68	SM080825-69	SM080825-71	SM080825-72
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Moisture	%	24	18	25	22	21

Moisture					
Our Reference		388097-48	388097-50	388097-51	388097-52
Your Reference	UNITS	SM080825-74	SM080825-102	SM080825-107	SM080825-110
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Date analysed	-	12/08/2025	12/08/2025	12/08/2025	12/08/2025
Moisture	%	13	19	20	20

Asbestos ID - soils						
Our Reference		388097-1	388097-4	388097-7	388097-10	388097-14
Your Reference	UNITS	SM080825-01	SM080825-04	SM080825-07	SM080825-10	SM080825-14
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	15/08/2025	15/08/2025	15/08/2025	15/08/2025	15/08/2025
Sample mass tested	g	Approx. 15g	Approx. 20g	Approx. 25g	Approx. 25g	Approx. 30g
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		388097-17	388097-21	388097-23	388097-26	388097-28
Your Reference	UNITS	SM080825-17	SM080825-21	SM080825-30	SM080825-33	SM080825-35
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	15/08/2025	15/08/2025	15/08/2025	15/08/2025	15/08/2025
Sample mass tested	g	Approx. 25g	Approx. 35g	Approx. 30g	Approx. 25g	Approx. 25g
Sample Description	-	Brown coarse-grained soil & rocks	Brown clayey 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		388097-31	388097-32	388097-34	388097-37	388097-38
Your Reference	UNITS	SM080825-38	SM080825-39	SM080825-60	SM080825-63	SM080825-64
Date Sampled		08/08/2025	08/08/2025	08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	15/08/2025	15/08/2025	15/08/2025	15/08/2025	15/08/2025
Sample mass tested	g	Approx. 30g	Approx. 25g	Approx. 60g	Approx. 70g	Approx. 50g
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		388097-42	388097-45	388097-48
Your Reference	UNITS	SM080825-68	SM080825-71	SM080825-74
Date Sampled		08/08/2025	08/08/2025	08/08/2025
Type of sample		Soil	Soil	Soil
Date analysed	-	15/08/2025	15/08/2025	15/08/2025
Sample mass tested	g	Approx. 40g	Approx. 30g	Approx. 30g
Sample Description	-	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
Asbestos comments	-	Nil	Nil	Nil
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected

vTRH(C6-C10)/BTEXN in Water		
Our Reference	UNITS	388097-53
Your Reference		SM080825-R
Date Sampled		08/08/2025
Type of sample		Water
Date extracted	-	11/08/2025
Date analysed	-	12/08/2025
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	%	105
Surrogate Toluene-d8	%	98
Surrogate 4-Bromofluorobenzene	%	109

svTRH (C10-C40) in Water		
Our Reference	UNITS	388097-53
Your Reference		SM080825-R
Date Sampled		08/08/2025
Type of sample		Water
Date extracted	-	11/08/2025
Date analysed	-	12/08/2025
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	102

Metals in Waters - Acid extractable		
Our Reference		388097-53
Your Reference	UNITS	SM080825-R
Date Sampled		08/08/2025
Type of sample		Water
Date prepared	-	12/08/2025
Date analysed	-	13/08/2025
Arsenic - Total	mg/L	<0.05
Cadmium - Total	mg/L	<0.01
Chromium - Total	mg/L	<0.01
Copper - Total	mg/L	<0.01
Lead - Total	mg/L	<0.03
Mercury - Total	mg/L	<0.0005
Nickel - Total	mg/L	<0.02
Zinc - Total	mg/L	<0.02

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.
Metals-020	Determination of various metals/elements by ICP-AES. Total Phosphate determined stochiometrically 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. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs. Where molecular anion forms are calculated from an element (e.g. SO4 from S or PO4 from P stoichiometrically), the assumption is that the element is only present in that molecular anion form.
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.

Method ID	Methodology Summary
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.
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	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.
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)-BTEX 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)-BTEX 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.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	388097-26
Date extracted	-			11/08/2025	14	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			12/08/2025	14	12/08/2025	12/08/2025		12/08/2025	12/08/2025
TRH C_6 - C_9	mg/kg	25	Org-023	<25	14	<25	<25	0	102	90
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	14	<25	<25	0	102	90
Benzene	mg/kg	0.2	Org-023	<0.2	14	<0.2	<0.2	0	97	86
Toluene	mg/kg	0.5	Org-023	<0.5	14	<0.5	<0.5	0	102	89
Ethylbenzene	mg/kg	1	Org-023	<1	14	<1	<1	0	109	96
m+p-xylene	mg/kg	2	Org-023	<2	14	<2	<2	0	101	90
o-Xylene	mg/kg	1	Org-023	<1	14	<1	<1	0	113	104
Naphthalene	mg/kg	1	Org-023	<1	14	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	102	14	95	95	0	96	86

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]	23	11/08/2025	11/08/2025		[NT]	[NT]
Date analysed	-			[NT]	23	12/08/2025	12/08/2025		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	23	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	23	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	23	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	23	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	23	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	23	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	23	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	23	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	23	97	90	7	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	388097-26
Date extracted	-			11/08/2025	14	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			11/08/2025	14	11/08/2025	11/08/2025		11/08/2025	11/08/2025
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	14	<50	<50	0	96	112
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	14	<100	<100	0	86	102
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	14	<100	<100	0	86	74
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	14	<50	<50	0	96	112
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	14	<100	<100	0	86	102
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	14	<100	<100	0	86	74
Surrogate o-Terphenyl	%		Org-020	90	14	84	77	9	82	100

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	23	11/08/2025	11/08/2025		[NT]	[NT]
Date analysed	-			[NT]	23	11/08/2025	11/08/2025		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	23	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	23	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	23	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	23	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	23	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	23	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	23	87	81	7	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	388097-4
Date extracted	-			11/08/2025	1	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			12/08/2025	1	12/08/2025	12/08/2025		12/08/2025	12/08/2025
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	106	116
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	112	#
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	110	128
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	0.3	0.3	0	112	#
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	1.1	1.1	0	112	#
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	1.2	1.1	9	112	#
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.8	0.8	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	0.8	0.8	0	102	#
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	2	2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	1.1	1.1	0	98	#
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	0.5	0.5	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.2	0.2	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	0.8	0.7	13	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	93	1	98	101	3	100	105

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	388097-26
Date extracted	-			[NT]	14	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			[NT]	14	12/08/2025	12/08/2025		12/08/2025	12/08/2025
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	110	106
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	114	108
Fluorene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	110	105
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	114	104
Anthracene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	14	0.1	0.2	67	118	112
Pyrene	mg/kg	0.1	Org-022/025	[NT]	14	0.1	0.1	0	116	110
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	104	94
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	14	0.06	0.09	40	108	94
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	14	95	92	3	104	99

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	23	11/08/2025	11/08/2025		[NT]	[NT]
Date analysed	-			[NT]	23	12/08/2025	12/08/2025		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	23	0.3	0.2	40	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	23	0.5	0.5	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	23	0.4	0.4	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	23	0.2	0.2	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	23	0.2	0.2	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	23	0.5	0.4	22	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	23	0.3	0.3	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	23	0.1	0.2	67	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	23	0.2	0.2	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	23	94	93	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	388097-4
Date extracted	-			11/08/2025	1	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			12/08/2025	1	12/08/2025	12/08/2025		12/08/2025	12/08/2025
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	108
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	110	110
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	108	114
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	84	88
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	118	124
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	104	112
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	122	118
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	108	124
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	110	120
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	106	122
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	98	1	95	98	3	98	102

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	388097-26
Date extracted	-			[NT]	14	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			[NT]	14	12/08/2025	12/08/2025		12/08/2025	12/08/2025
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	118	110
HCB	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	116	106
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	110	104
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	88	84
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	116	117
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	104	106
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	122	115
Endrin	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	102	109
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	112	116
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	104	112
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	14	98	100	2	103	101

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	23	11/08/2025	11/08/2025		[NT]	[NT]
Date analysed	-			[NT]	23	12/08/2025	12/08/2025		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	23	94	96	2	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	43	11/08/2025	11/08/2025		[NT]	[NT]
Date analysed	-			[NT]	43	12/08/2025	12/08/2025		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	43	102	96	6	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	388097-4
Date extracted	-			11/08/2025	1	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			12/08/2025	1	12/08/2025	12/08/2025		12/08/2025	12/08/2025
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	128	116
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	108	95
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	124	110
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	122	113
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	124	106
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	116	107
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	112	111
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	98	1	95	98	3	98	93

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			[NT]	43	11/08/2025	11/08/2025		11/08/2025	[NT]
Date analysed	-			[NT]	43	12/08/2025	12/08/2025		12/08/2025	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	130	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	112	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	130	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	122	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	120	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	122	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	112	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	43	102	96	6	103	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	388097-26
Date extracted	-			11/08/2025	14	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			12/08/2025	14	12/08/2025	12/08/2025		12/08/2025	12/08/2025
Aroclor 1016	mg/kg	0.1	Org-021/022/025	<0.1	14	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	<0.1	14	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	<0.1	14	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	<0.1	14	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	<0.1	14	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	<0.1	14	<0.1	<0.1	0	128	120
Aroclor 1260	mg/kg	0.1	Org-021/022/025	<0.1	14	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	93	14	91	92	1	94	92

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			[NT]	23	11/08/2025	11/08/2025		11/08/2025	[NT]
Date analysed	-			[NT]	23	12/08/2025	12/08/2025		12/08/2025	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	23	<0.1	<0.1	0	131	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	23	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	23	91	90	1	92	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	388097-4
Date prepared	-			11/08/2025	1	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			12/08/2025	1	12/08/2025	12/08/2025		12/08/2025	12/08/2025
Arsenic	mg/kg	4	Metals-020	<4	1	6	6	0	101	96
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	90	79
Chromium	mg/kg	1	Metals-020	<1	1	13	13	0	95	92
Copper	mg/kg	1	Metals-020	<1	1	22	24	9	99	96
Lead	mg/kg	1	Metals-020	<1	1	140	110	24	98	79
Mercury	mg/kg	0.1	Metals-021	<0.1	1	0.1	<0.1	0	105	107
Nickel	mg/kg	1	Metals-020	<1	1	5	5	0	99	91
Zinc	mg/kg	1	Metals-020	<1	1	64	59	8	97	101

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	388097-26
Date prepared	-			[NT]	14	11/08/2025	11/08/2025		11/08/2025	11/08/2025
Date analysed	-			[NT]	14	12/08/2025	12/08/2025		12/08/2025	12/08/2025
Arsenic	mg/kg	4	Metals-020	[NT]	14	<4	4	0	99	93
Cadmium	mg/kg	0.4	Metals-020	[NT]	14	<0.4	<0.4	0	87	77
Chromium	mg/kg	1	Metals-020	[NT]	14	12	13	8	92	90
Copper	mg/kg	1	Metals-020	[NT]	14	15	14	7	97	#
Lead	mg/kg	1	Metals-020	[NT]	14	21	25	17	96	#
Mercury	mg/kg	0.1	Metals-021	[NT]	14	<0.1	<0.1	0	106	97
Nickel	mg/kg	1	Metals-020	[NT]	14	4	4	0	96	88
Zinc	mg/kg	1	Metals-020	[NT]	14	18	23	24	94	#

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	23	11/08/2025	11/08/2025		[NT]	[NT]
Date analysed	-			[NT]	23	12/08/2025	12/08/2025		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	23	12	11	9	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	23	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	23	13	14	7	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	23	24	21	13	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	23	170	130	27	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	23	0.1	0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	23	5	5	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	23	86	72	18	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	43	11/08/2025	11/08/2025		[NT]	[NT]
Date analysed	-			[NT]	43	12/08/2025	12/08/2025		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	43	6	5	18	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	43	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	43	16	15	6	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	43	8	8	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	43	19	17	11	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	43	3	3	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	43	6	7	15	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			11/08/2025	[NT]	[NT]	[NT]	[NT]	11/08/2025	[NT]
Date analysed	-			12/08/2025	[NT]	[NT]	[NT]	[NT]	12/08/2025	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	85	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	87	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate Toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	106	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			11/08/2025	[NT]	[NT]	[NT]	[NT]	11/08/2025	[NT]
Date analysed	-			12/08/2025	[NT]	[NT]	[NT]	[NT]	12/08/2025	[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]	107	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[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]	107	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	97	[NT]	[NT]	[NT]	[NT]	130	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			12/08/2025	[NT]	[NT]	[NT]	[NT]	12/08/2025	[NT]
Date analysed	-			13/08/2025	[NT]	[NT]	[NT]	[NT]	13/08/2025	[NT]
Arsenic - Total	mg/L	0.05	Metals-020	<0.05	[NT]	[NT]	[NT]	[NT]	106	[NT]
Cadmium - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	101	[NT]
Chromium - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	101	[NT]
Copper - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	103	[NT]
Lead - Total	mg/L	0.03	Metals-020	<0.03	[NT]	[NT]	[NT]	[NT]	102	[NT]
Mercury - Total	mg/L	0.0005	Metals-021	<0.0005	[NT]	[NT]	[NT]	[NT]	82	[NT]
Nickel - Total	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	104	[NT]
Zinc - Total	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	100	[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.

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.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

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.

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.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

Report Comments

PAHs in Soil - # Percent recovery for the surrogate/matrix spike is not possible to report as the high concentration of analytes in sample/s 388097-4ms have caused interference.

8 metals in soil - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Total metals: no unfiltered, preserved sample was received, therefore analysis was conducted from the unpreserved sample bottle.
Note: there is a possibility some elements may be underestimated.

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: Samples 388097-21 & 48 were sub-sampled from jars provided by the client.
Note: Sample 388097-34 was sub-sampled from a bag provided by the client.

Gc: 8/8/25 1631

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client:	Geo-Environmental Engineering Pty Ltd	**Client Project Name and Number:** E25008GOR	**Envirolab Services** 12 Ashley St, Chatswood, NSW, 2067 Phone: 02 9910 6200 Fax: 02 9910 6201 E-mail: sydney@envirolab.com.au
Project Mgr:	Stephen McCormack		
Sampler:	Stephen Mccormack	**PO No.:**	
Address:	Unit 2, 5-7 Malta Street, Fairfield East	**Envirolab Services Quote No. :**	
Email:	stephen@geoenvironmental.com.au	**Date results required:** Or choose: standard / 1 day / 2 day / 3 day / 5 day — Standard	
Phone:	0431 480 980 (Stephen)	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	

Sample information				Tests Required											Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Combination 3	Combination 3a	Combination 5	Combination 5a	PAHs	Metals (S8)	OCP/OPPs	Asbestos ID			TRH (vol)/BTEXN	BTEXN	Combo 1m			Provide as much information about the sample as you can
1	SM080825-01	8/08/2025	Soil					1	1	1	1								
2	SM080825-02	8/08/2025	Soil						1	1									
3	SM080825-03	8/08/2025	Soil																
4	SM080825-04	8/08/2025	Soil					1	1	1	1								
5	SM080825-05	8/08/2025	Soil						1										
6	SM080825-06	8/08/2025	Soil																
7	SM080825-07	8/08/2025	Soil						1	1	1								
8	SM080825-08	8/08/2025	Soil						1										
9	SM080825-09	8/08/2025	Soil																
10	SM080825-10	8/08/2025	Soil					1	1	1	1								
11	SM080825-11	8/08/2025	Soil						1										
12	SM080825-12	8/08/2025	Soil						1										
13	SM080825-13	8/08/2025	Soil																
14	SM080825-14	8/08/2025	Soil				1												
15	SM080825-15	8/08/2025	Soil					1	1										
16	SM080825-16	8/08/2025	Soil																

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 388097
Date Received: 08/08/25
Time Received: 1230
Received By: SP
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Relinquished by (company):	Geo-Environmental Engineering	**Received by (company):** ELS SYD	**Samples Received:** Cool or Ambient (circle one)
Print Name:	Stephen McCormack	**Print Name:** Sarah P	**Temperature Recieved at:** 4°C (if applicable)
Date & Time:	08-Aug-25	**Date & Time:** 08/08/25, 14:58 1230	**Transported by:** Hand delivered / courier
Signature:		**Signature:**	**Page No:** 1 of 4

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client:	Geo-Environmental Engineering Pty Ltd	**Client Project Name and Number:**	**Envirolab Services**
Project Mgr:	Stephen McCormack	E25008GOR	12 Ashley St, Chatswood, NSW, 2067
Sampler:	Stephen Mccormack	**PO No.:**	Phone: 02 9910 6200
Address:	Unit 2, 5-7 Malta Street, Fairfield East	**Envirolab Services Quote No. :**	Fax: 02 9910 6201
Email:	stephen@geoenvironmental.com.au	**Date results required:** Or choose: standard / 1 day / 2 day / 3 day / 5 day **Standard**	E-mail: sydney@envirolab.com.au
Phone:	0431 480 980 (Stephen)	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	

Sample Information				Tests Required													Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Combination 3	Combination 3a	Combination 5	Combination 5a	PAHs	Metals (S8)	OCP/OPPs	Asbestos ID			TRH (vol)/BTEXN	BTEXN	Combo 1m			Provide as much information about the sample as you can
17	SM080825-17	8/08/2025	Soil				1												
18	SM080825-18	8/08/2025	Soil					1	1										
19	SM080825-19	8/08/2025	Soil					1	1										
20	SM080825-20	8/08/2025	Soil																
21	SM080825-21	8/08/2025	Soil						1	1	1								
22	SM080825-22	8/08/2025	Soil						1										
23	SM080825-30	8/08/2025	Soil				1												
24	SM080825-31	8/08/2025	Soil						1	1									
25	SM080825-32	8/08/2025	Soil																
26	SM080825-33	8/08/2025	Soil				1												
27	SM080825-34	8/08/2025	Soil						1	1									
28	SM080825-35	8/08/2025	Soil					1	1	1	1								
29	SM080825-36	8/08/2025	Soil						1										
30	SM080825-37	8/08/2025	Soil																
31	SM080825-38	8/08/2025	Soil					1	1	1	1								08/08/25
32	SM080825-39	8/08/2025	Soil				1												#388097 SP
33	SM080825-40	7/04/2025	Soil					1	1										

Relinquished by (company):	Geo-Environmental Engineering	**Received by (company):** ELS SYD	**Samples Received: Cool or Ambient (circle one)**
Print Name:	Stephen McCormack	**Print Name:** Sarah P	**Temperature Recieved at:** (if applicable)
Date & Time:	08-Aug-25	**Date & Time:** 08/08/25, 1230	**Transported by: Hand delivered / courier**
Signature:		**Signature:**	**Page No: 2 of 4**

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client:	Geo-Environmental Engineering Pty Ltd	**Client Project Name and Number:** E25008GOR	**Envirolab Services** 12 Ashley St, Chatswood, NSW, 2067 Phone: 02 9910 6200 Fax: 02 9910 6201 E-mail: sydney@envirolab.com.au
Project Mgr:	Stephen McCormack		
Sampler:	Stephen Mccormack	**PO No.:**	
Address:	Unit 2, 5-7 Malta Street, Fairfield East	**Envirolab Services Quote No. :**	
Email:	stephen@geoenvironmental.com.au	**Date results required:** Or choose: standard / 1 day / 2 day / 3 day / 5 day **Standard**	
Phone:	0431 480 980 (Stephen)	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	

Sample information				Tests Required													Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Combinatiion 3	Combination 3a	Combination 5	Combination 5a	PAHs	Metals (S8)	OCP/OPPs	Asbestos ID			TRH (vol)/BTEXN	BTEXN	Combo 1m			Provide as much information about the sample as you can
34	SM080825-60	8/08/2025	Soil					1	1	1	1								
35	SM080825-61	8/08/2025	Soil						1										
36	SM080825-62	8/08/2025	Soil																
37	SM080825-63	8/08/2025	Soil					1	1	1	1								
38	SM080825-64	8/08/2025	Soil				1												
39	SM080825-65	8/08/2025	Soil						1	1									
40	SM080825-66	8/08/2025	Soil						1										
41	SM080825-67	8/08/2025	Soil																
42	SM080825-68	8/08/2025	Soil					1	1	1	1								
43	SM080825-69	8/08/2025	Soil						1	1									
44	SM080825-70	8/08/2025	Soil																
45	SM080825-71	8/08/2025	Soil						1	1	1								
46	SM080825-72	8/08/2025	Soil						1	1									
47	SM080825-73	8/08/2025	Soil																
48	SM080825-74	8/08/2025	Soil				1												#388097 08/08/25 SP

Relinquished by (company):	Geo-Environmental Engineering	**Received by (company):** ELS SYD	**Samples Received: Cool or Ambient (circle one)**
Print Name:	Stephen McCormack	**Print Name:** Sarah P	**Temperature Recieved at:** (if applicable)
Date & Time:	08-Aug-25	**Date & Time:** 08/08/25, 1230	**Transported by: Hand delivered / courier**
Signature:		**Signature:**	**Page No: 3 of 4**

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client:	Geo-Environmental Engineering Pty Ltd	**Client Project Name and Number:**	**Envirolab Services**
Project Mgr:	Stephen McCormack	E25008GOR	12 Ashley St, Chatswood, NSW, 2067
Sampler:	Stephen Mccormack	**PO No.:**	Phone: 02 9910 6200
Address:	Unit 2, 5-7 Malta Street, Fairfield East	**Envirolab Services Quote No. :**	Fax: 02 9910 6201
Email:	stephen@geoenvironmental.com.au	**Date results required:** Or choose: standard / 1 day / 2 day / 3 day / 5 day **Standard**	E-mail: sydney@envirolab.com.au
Phone:	0431 480 980 (Stephen)	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	

Sample information				Tests Required												Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Combinatiion 3	Combination 3a	Combination 5	Combination 5a	PAHs	Metals (S8)	OCP/OPPs	Asbestos ID			TRH (vol)/BTEXN	BTEXN	Combo 1m			Provide as much information about the sample as you can
49	SM080825-100	8/08/2025	Soil																
50	SM080825-102	8/08/2025	Soil						1										
51	SM080825-107	8/08/2025	Soil			1													
52	SM080825-110	8/08/2025	Soil					1	1	1									
53	SM080825-R	8/08/2025	water													1			
54	Trip Blank	8/08/2025	Soil											1					
55	Trip Spike	8/08/2025	Soil												1				
56	SM080825-109		Soil																

Extra sample -SP.

#388097
08/08/25
SP.

Relinquished by (company):	Geo-Environmental Engineering	**Received by (company):** ELS SYD	**Samples Received: Cool or Ambient (circle one)**
Print Name:	Stephen McCormack	**Print Name:** Sarah P	**Temperature Recieved at:** (if applicable)
Date & Time:	08-Aug-25	**Date & Time:** 08/08/25, 1230	**Transported by: Hand delivered / courier**
Signature:		**Signature:**	**Page No: 4 of 4**

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 389914

Client Details

Client	Geo-Environmental Engineering
Attention	Stephen McCormack
Address	82 Bridge St, Lane Cove, NSW, 2066

Sample Details

Your Reference	**E25008GOR**
Number of Samples	5 Soil
Date samples received	03/09/2025
Date completed instructions received	03/09/2055

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. 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	09/09/2025
Date of Issue	09/09/2025

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean
Authorised by Asbestos Approved Signatory: Nyovan Moonean

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Nyovan Moonean, Asbestos Approved Identifier/Counter
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		389914-1	389914-4	389914-5
Your Reference	UNITS	ZG030925-01	Trip Blank	Trip Spike
Type of sample		Soil	Soil	Soil
Date extracted	-	04/09/2025	04/09/2025	04/09/2025
Date analysed	-	05/09/2025	05/09/2025	05/09/2025
TRH C_6 - C_9	mg/kg	<25	<25	[NA]
TRH C_6 - C_{10}	mg/kg	<25	<25	[NA]
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	[NA]
Benzene	mg/kg	<0.2	<0.2	102%
Toluene	mg/kg	<0.5	<0.5	103%
Ethylbenzene	mg/kg	<1	<1	101%
m+p-xylene	mg/kg	<2	<2	101%
o-Xylene	mg/kg	<1	<1	100%
Naphthalene	mg/kg	<1	<1	[NA]
Total +ve Xylenes	mg/kg	<1	<1	[NA]
Surrogate aaa-Trifluorotoluene	%	93	107	103

svTRH (C10-C40) in Soil		
Our Reference	UNITS	389914-1
Your Reference		ZG030925-01
Type of sample		Soil
Date extracted	-	04/09/2025
Date analysed	-	05/09/2025
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	99

PAHs in Soil				
Our Reference		389914-1	389914-2	389914-3
Your Reference	UNITS	ZG030925-01	ZG030925-02	ZG030925-03
Type of sample		Soil	Soil	Soil
Date extracted	-	04/09/2025	04/09/2025	04/09/2025
Date analysed	-	05/09/2025	05/09/2025	05/09/2025
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.2	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.3	<0.1	0.1
Anthracene	mg/kg	0.2	<0.1	<0.1
Fluoranthene	mg/kg	0.7	0.1	0.2
Pyrene	mg/kg	0.8	0.1	0.2
Benzo(a)anthracene	mg/kg	1.5	<0.1	0.1
Chrysene	mg/kg	0.8	<0.1	0.1
Benzo(b,j+k)fluoranthene	mg/kg	2.2	<0.2	0.2
Benzo(a)pyrene	mg/kg	1.5	0.09	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	0.8	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	0.2	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	1	<0.1	0.1
Total +ve PAH's	mg/kg	10	0.4	1.3
Benzo(a)pyrene TEQ calc (zero)	mg/kg	2.1	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	2.1	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	2.1	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	87	75	83

Organochlorine Pesticides in soil		
Our Reference		389914-1
Your Reference	UNITS	ZG030925-01
Type of sample		Soil
Date extracted	-	04/09/2025
Date analysed	-	05/09/2025
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Total Positive Aldrin+Dieldrin	mg/kg	<0.1
Surrogate 4-Chloro-3-NBTF	%	68

PCBs in Soil		
Our Reference		389914-1
Your Reference	UNITS	ZG030925-01
Type of sample		Soil
Date extracted	-	04/09/2025
Date analysed	-	05/09/2025
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate 2-Fluorobiphenyl	%	83

Acid Extractable metals in soil					
Our Reference		389914-1	389914-2	389914-3	389914-6
Your Reference	UNITS	ZG030925-01	ZG030925-02	ZG030925-03	ZG030925-01 - [TRIPLICATE]
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	04/09/2025	04/09/2025	04/09/2025	04/09/2025
Date analysed	-	04/09/2025	04/09/2025	04/09/2025	04/09/2025
Arsenic	mg/kg	6	4	<4	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	7	36	12
Copper	mg/kg	25	12	28	7
Lead	mg/kg	30	30	28	29
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	6	3	24	3
Zinc	mg/kg	30	42	44	17

Moisture				
Our Reference		389914-1	389914-2	389914-3
Your Reference	UNITS	ZG030925-01	ZG030925-02	ZG030925-03
Type of sample		Soil	Soil	Soil
Date prepared	-	04/09/2025	04/09/2025	04/09/2025
Date analysed	-	05/09/2025	05/09/2025	05/09/2025
Moisture	%	19	21	17

Asbestos ID - soils				
Our Reference		389914-1	389914-2	389914-3
Your Reference	UNITS	ZG030925-01	ZG030925-02	ZG030925-03
Type of sample		Soil	Soil	Soil
Date analysed	-	09/09/2025	09/09/2025	09/09/2025
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 35g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Grey 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
Asbestos comments	-	Nil	Nil	Nil
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected

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.
Metals-020	Determination of various metals/elements by ICP-AES. Total Phosphate determined stochiometrically 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. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs. Where molecular anion forms are calculated from an element (e.g. SO4 from S or PO4 from P stoichiometrically), the assumption is that the element is only present in that molecular anion form.
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.

Method ID	Methodology Summary
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.
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)-BTEX 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)-BTEX 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.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			04/09/2025	1	04/09/2025	04/09/2025		04/09/2025	[NT]
Date analysed	-			05/09/2025	1	05/09/2025	05/09/2025		05/09/2025	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	100	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	100	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	93	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	90	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	113	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	103	[NT]
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	103	[NT]
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	107	1	93	95	2	93	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			04/09/2025	1	04/09/2025	04/09/2025		04/09/2025	[NT]
Date analysed	-			05/09/2025	1	05/09/2025	05/09/2025		05/09/2025	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	118	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	106	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	86	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	118	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	106	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	86	[NT]
Surrogate o-Terphenyl	%		Org-020	81	1	99	81	20	90	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			04/09/2025	1	04/09/2025	04/09/2025		04/09/2025	[NT]
Date analysed	-			05/09/2025	1	05/09/2025	05/09/2025		05/09/2025	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	0.2	<0.1	67	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	74	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	0.3	<0.1	100	88	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.2	<0.1	67	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	0.7	0.2	111	86	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	0.8	0.2	120	92	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	1.5	0.2	153	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	0.8	0.1	156	78	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	2.2	0.2	167	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	1.5	0.2	153	82	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	0.8	<0.1	156	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.2	<0.1	67	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	1	0.1	164	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	85	1	87	83	5	90	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			04/09/2025	1	04/09/2025	04/09/2025		04/09/2025	[NT]
Date analysed	-			05/09/2025	1	05/09/2025	05/09/2025		05/09/2025	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	[NT]
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	86	[NT]
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	90	[NT]
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	94	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	[NT]
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	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	84	[NT]
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	94	[NT]
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	86	[NT]
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	79	1	68	67	1	85	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			04/09/2025	1	04/09/2025	04/09/2025		04/09/2025	[NT]
Date analysed	-			05/09/2025	1	05/09/2025	05/09/2025		05/09/2025	[NT]
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	99	[NT]
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	84	1	83	84	1	84	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	389914-1
Date prepared	-			04/09/2025	1	04/09/2025	04/09/2025		04/09/2025	04/09/2025
Date analysed	-			04/09/2025	1	04/09/2025	04/09/2025		04/09/2025	04/09/2025
Arsenic	mg/kg	4	Metals-020	<4	1	6	8	29	113	109
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	107	95
Chromium	mg/kg	1	Metals-020	<1	1	12	12	0	106	106
Copper	mg/kg	1	Metals-020	<1	1	25	8	103	109	102
Lead	mg/kg	1	Metals-020	<1	1	30	36	18	106	105
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	90	96
Nickel	mg/kg	1	Metals-020	<1	1	6	3	67	109	98
Zinc	mg/kg	1	Metals-020	<1	1	30	20	40	108	93

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.

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.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

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.

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.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

Report Comments

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for 389914-1 for Cu and Zn. Therefore a triplicate result has been issued as laboratory sample number 389914-6.

PAHs in Soil - The RPD for duplicate results is accepted due to the non homogenous nature of sample 389914-1.

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: Samples 389914-1-3 were sub-sampled from jars provided by the client.

CHAIN OF CUSTODY FORM - Client

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Company:	GEO-ENVIRONMENTAL ENG	Client Project Name/Number/Site etc (ie report title):	E25008GOR
Contact Person:	S. MCCORMACK		
Project Mgr:	"	PO No. (if applicable):	
Sampler:	"	Envirolab Quote No. :	
Address:	82 BRIDGE ST LANE COVE	Date results required: Or choose: ☐ Standard ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day	4DAY ?
Phone:	Mob:	Note: Inform lab in advance if urgent turnaround is required - surcharges apply	
Email Results to:		Additional report format: Esdat ☐ Equis ☐ Datanest ☐	
Email Invoice to:		Lab Comments: ID	

Sample information					Tests Required																Comments
Envirolab Sample ID (Lab use only)	Client Sample ID or Information	Depth	Date Sampled	Type of Sample	combo 5a	Metals 5B	PAHs	Asbestos		VTRH + BTEXN	BTEX										Provide as much information about the sample as you can
1	ZG030925-01				■																
2	" 02					■	■	■													
3	" 03					■	■	■													
4	TRIP BLANK									■											
5	TRID SPIKE										■										

☐ *Please tick the box if observed settled sediment present in water samples is to be included in the extraction and/or analysis*

				Lab Use Only	
Relinquished by (Company):	GEE	Received by (Company):	ENS SYD		
Print Name:	S. MCCORMACK	Print Name:	R. Chavez	Job number: 389914	Cooling: Ice / Ice pack / None
Date & Time:	3/9/25	Date & Time:	3/9/25 0940	Temperature: 20 °C	Security seal: Intact / Broken / None
Signature:		Signature:	R.C	TAT Req - SAME day / 1 / 2 / 3 / 4 / STD	

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Certificate of Analysis MGH0163

Client Details

Client	Geo-Environmental Engineering Pty Ltd
Contact	Stephen McCormack
Address	82 Bridge Street, LANE COVE, NSW, 2066

Sample Details

Your Reference	E25008GOR
Number of Samples	4 Soil
Date Samples Received	12/08/2025
Date Instructions Received	12/08/2025

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 soils and on an as received basis for other matrices.

Report Details

Date Final Results Expected	18/08/2025
Date of Issue	18/08/2025

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Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Chris De Luca, Lab Manager Maggie Hu, Organics Supervisor Tara White, Metals Supervisor
Laboratory Manager	Chris De Luca

Certificate of Analysis MGH0163

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MGH0163-01	SM080825-101	Soil	08/08/2025	12/08/2025
MGH0163-02	SM080825-104	Soil	08/08/2025	12/08/2025
MGH0163-03	SM080825-108	Soil	08/08/2025	12/08/2025
MGH0163-04	SM080825-111	Soil	08/08/2025	12/08/2025

Volatile TRH and BTEX (Soil)

Envirolab ID	Units	PQL	MGH0163-03
Your Reference			SM080825-108
Date Sampled			08/08/2025
TRH C6-C9	mg/kg	25	<25
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 less BTEX (F1)	mg/kg	25	<25
Methyl tert butyl ether (MTBE)	mg/kg	0.50	<0.50
Benzene	mg/kg	0.20	<0.20
Toluene	mg/kg	0.50	<0.50
Ethylbenzene	mg/kg	1.0	<1.0
meta+para Xylene	mg/kg	2.0	<2.0
ortho-Xylene	mg/kg	1.0	<1.0
Total +ve Xylenes	mg/kg	1.0	<1.0
Naphthalene (value used in F2 calc)	mg/kg	1.0	<1.0
Total +ve BTEX	mg/kg	0.20	<0.20
Surrogate aaa-Trifluorotoluene	%		*94.2*

Semi-volatile TRH (Soil)

Envirolab ID	Units	PQL	MGH0163-03
Your Reference			SM080825-108
Date Sampled			08/08/2025
TRH C10-C14	mg/kg	50	<50
TRH C15-C28	mg/kg	100	<100
TRH C29-C36	mg/kg	100	<100
Total +ve TRH C10-C36	mg/kg	50	<50
TRH >C10-C16	mg/kg	50	<50
TRH >C10-C16 less Naphthalene F2	mg/kg	50	<50
TRH >C16-C34 (F3)	mg/kg	100	<100
TRH >C34-C40 (F4)	mg/kg	100	<100
Total +ve TRH >C10-C40	mg/kg	50	<50
Surrogate o-Terphenyl	%		*83.1*

Polycyclic Aromatic Hydrocarbons (Soil)

Envirolab ID	Units	PQL	MGH0163-03	MGH0163-04
Your Reference			SM080825-108	SM080825-111
Date Sampled			08/08/2025	08/08/2025
Naphthalene	mg/kg	0.10	<0.10	<0.10
Acenaphthylene	mg/kg	0.10	<0.10	<0.10
Acenaphthene	mg/kg	0.10	<0.10	<0.10
Fluorene	mg/kg	0.10	<0.10	<0.10
Phenanthrene	mg/kg	0.10	0.12	0.28
Anthracene	mg/kg	0.10	<0.10	<0.10
Fluoranthene	mg/kg	0.10	0.37	0.56
Pyrene	mg/kg	0.10	0.38	0.56
Benzo(a)anthracene	mg/kg	0.10	0.10	0.20
Chrysene	mg/kg	0.10	0.12	0.22
Benzo(b,j,k)fluoranthene	mg/kg	0.20	0.24	0.40
Benzo(a)pyrene	mg/kg	0.050	0.13	0.27
Indeno(1,2,3-c,d)pyrene	mg/kg	0.10	<0.10	0.11
Dibenzo(a,h)anthracene	mg/kg	0.10	<0.10	<0.10
Benzo(g,h,i)perylene	mg/kg	0.10	<0.10	0.13
Total +ve PAH	mg/kg	0.050	1.5	2.7
Benzo(a)pyrene TEQ calc zero	mg/kg	0.50	<0.50	<0.50
Benzo(a)pyrene TEQ calc Half	mg/kg	0.50	<0.50	<0.50
Benzo(a)pyrene TEQ calc PQL	mg/kg	0.50	<0.50	<0.50
Surrogate p-Terphenyl-D14	%		*135*	*96.2*

Organochlorine Pesticides (Soil)

Envirolab ID	Units	PQL	MGH0163-03	MGH0163-04
Your Reference			SM080825-108	SM080825-111
Date Sampled			08/08/2025	08/08/2025
alpha-BHC	mg/kg	0.10	<0.10	<0.10
Hexachlorobenzene	mg/kg	0.10	<0.10	<0.10
beta-BHC	mg/kg	0.10	<0.10	<0.10
gamma-BHC	mg/kg	0.10	<0.10	<0.10
delta-BHC	mg/kg	0.10	<0.10	<0.10
Heptachlor	mg/kg	0.10	<0.10	<0.10
Aldrin	mg/kg	0.10	<0.10	<0.10
Heptachlor epoxide	mg/kg	0.10	<0.10	<0.10
trans-Chlordane	mg/kg	0.10	<0.10	<0.10
cis-Chlordane	mg/kg	0.10	<0.10	<0.10
Endosulfan I	mg/kg	0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.10	<0.10	<0.10
Dieldrin	mg/kg	0.10	<0.10	<0.10
Endrin	mg/kg	0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.10	<0.10	<0.10
Endosulfan II	mg/kg	0.10	<0.10	<0.10
Endrin aldehyde	mg/kg	0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.10	<0.10	<0.10
Endosulfan sulfate	mg/kg	0.10	<0.10	<0.10
Endrin ketone	mg/kg	0.10	<0.10	<0.10
Methoxychlor	mg/kg	0.10	<0.10	<0.10
Mirex	mg/kg	0.10	<0.10	<0.10
Total +ve DDT+DDD+DDE	mg/kg	0.10	<0.10	<0.10
Total +ve Aldrin + Dieldrin	mg/kg	0.10	<0.10	<0.10
Total +ve OCP	mg/kg	0.10	<0.10	<0.10
Surrogate 4-chloro-3-nitrobenzotrifluoride	%		*94.4*	*109*

Organophosphorus Pesticides (Soil)

Envirolab ID	Units	PQL	MGH0163-04
Your Reference			SM080825-111
Date Sampled			08/08/2025
Dichlorvos	mg/kg	0.10	<0.10
Dimethoate	mg/kg	0.10	<0.10
Diazinon	mg/kg	0.10	<0.10
Chlorpyrifos-methyl	mg/kg	0.10	<0.10
Ronnel	mg/kg	0.10	<0.10
Fenitrothion	mg/kg	0.10	<0.10
Malathion	mg/kg	0.10	<0.10
Chlorpyrifos	mg/kg	0.10	<0.10
Parathion	mg/kg	0.10	<0.10
Bromophos-ethyl	mg/kg	0.10	<0.10
Ethion	mg/kg	0.10	<0.10
Coumaphos	mg/kg	0.10	<0.10
Disulfoton	mg/kg	0.10	<0.10
Fenamiphos	mg/kg	0.10	<0.10
Fenthion	mg/kg	0.10	<0.10
Methidathion	mg/kg	0.10	<0.10
Mevinphos	mg/kg	0.10	<0.10
Parathion-methyl	mg/kg	0.10	<0.10
Phorate	mg/kg	0.10	<0.10
Phosalone	mg/kg	0.10	<0.10
Azinphos-methyl	mg/kg	0.10	<0.10
Surrogate 4-chloro-3-nitrobenzotrifluoride	%		*109*

Polychlorinated Biphenyls (Soil)

Envirolab ID	Units	PQL	MGH0163-03
Your Reference			SM080825-108
Date Sampled			08/08/2025
Aroclor 1016	mg/kg	0.10	<0.10
Aroclor 1221	mg/kg	0.10	<0.10
Aroclor 1232	mg/kg	0.10	<0.10
Aroclor 1242	mg/kg	0.10	<0.10
Aroclor 1248	mg/kg	0.10	<0.10
Aroclor 1254	mg/kg	0.10	<0.10
Aroclor 1260	mg/kg	0.10	<0.10
Total +ve PCB (1016-1260)	mg/kg	0.10	<0.10
Surrogate 2-Fluorobiphenyl	%		*83.7*

Acid Extractable Metals (Soil)

Envirolab ID	Units	PQL	MGH0163-02	MGH0163-03	MGH0163-04
Your Reference			SM080825-104	SM080825-108	SM080825-111
Date Sampled			08/08/2025	08/08/2025	08/08/2025
Arsenic	mg/kg	4.0	7.4	13	5.8
Cadmium	mg/kg	0.40	<0.40	<0.40	0.70
Chromium	mg/kg	1.0	25	20	11
Copper	mg/kg	1.0	15	200	55
Mercury	mg/kg	0.10	<0.10	0.19	<0.10
Nickel	mg/kg	1.0	2.4	5.6	3.8
Lead	mg/kg	1.0	27	410	180
Zinc	mg/kg	1.0	4.8	320	82

Certificate of Analysis MGH0163

Inorganics - Moisture (Soil)

Envirolab ID	Units	PQL	MGH0163-02	MGH0163-03	MGH0163-04
Your Reference			SM080825-104	SM080825-108	SM080825-111
Date Sampled			08/08/2025	08/08/2025	08/08/2025
Moisture	%	0.10	25	28	21

Method Summary

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-OES. 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.
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_PCB	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS.
ORG-022	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.
ORG-022_OC	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.
ORG-022_PAH	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and solids using DCM/Acetone/Methanol. For PAHs:- Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. 1. 'TEQ 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. 'TEQ 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. 'TEQ 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, for Total +ve calculations, the PQL is reflective of the lowest individual PQL and therefore, for example, "Total +ve PAHs" is simply a sum of the positive individual PAHs.
ORG-023_F1_TOT	Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX 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 therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

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.

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.

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.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

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.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

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 QAQC tables for details (available on request); <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; 60-140% for organics (+/-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 typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

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. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

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 or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volume(s) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MGH0163

Client Details

Client	Geo-Environmental Engineering Pty Ltd
Your Reference	E25008GOR
Date Issued	18/08/2025

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MGH0163

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
vTRH&MBTEXN | Soil	3	08/08/2025	13/08/2025	14/08/2025	Yes
sTRH | Soil	3	08/08/2025	13/08/2025	14/08/2025	Yes
PAH | Soil	3-4	08/08/2025	13/08/2025	15/08/2025	Yes
OCP | Soil	3-4	08/08/2025	13/08/2025	15/08/2025	Yes
OPP (21 list) | Soil	4	08/08/2025	13/08/2025	15/08/2025	Yes
PCB | Soil	3	08/08/2025	13/08/2025	15/08/2025	Yes
Metals | Soil	2-4	08/08/2025	13/08/2025	14/08/2025	Yes
Metals-Hg | Soil	2-4	08/08/2025	13/08/2025	14/08/2025	Yes
Moisture | Soil	2-4	08/08/2025	13/08/2025	15/08/2025	Yes

Outliers: Matrix Spike

ORG-020|Semi-volatile TRH (Soil)| Batch BGH1971

Sample ID	Analyte	% Limits	% Recovery
BGH1971-MS1#	TRH >C34-C40 (F4)	60 - 140	##[2]
BGH1971-MS1#	TRH C29-C36	60 - 140	##[1]

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Soil)| Batch BGH1971

Sample ID	Analyte	% Limits	% Recovery
BGH1971-MS2#	Fluorene	60 - 140	52.4[2]

Quality Control MGH0163

ORG-023_F1_TOT|Volatile TRH and BTEX (Soil) | Batch BGH1970

Analyte	Units	PQL	Blank	DUP1 BGH1970-DUP1# Samp | QC | RPD %	DUP2 BGH1970-DUP2# Samp | QC | RPD %	LCS %	Spike % BGH1970-MS2#
TRH C6-C9	mg/kg	25	<25	<25 | <25 | [NA]	<25 | <25 | [NA]	117	124
TRH C6-C10	mg/kg	25	<25	<25 | <25 | [NA]	<25 | <25 | [NA]	116	122
Methyl tert butyl ether (MTBE)	mg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	[NA]	[NA]
Benzene	mg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	97.9	103
Toluene	mg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	101	108
Ethylbenzene	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	86.9	93.3
meta+para Xylene	mg/kg	2.0	<2.0	<2.0 | <2.0 | [NA]	<2.0 | <2.0 | [NA]	90.0	97.1
ortho-Xylene	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	88.2	94.5
Naphthalene (value used in F2 calc)	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	[NA]	[NA]
Surrogate aaa-Trifluorotoluene	*%*		*100*	*97.8 | 96.7*	*97.3 | 95.2*	*102*	*103*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-020|Semi-volatile TRH (Soil) | Batch BGH1971

Analyte	Units	PQL	Blank	DUP1 BGH1971-DUP1# Samp | QC | RPD %	DUP2 BGH1971-DUP2# Samp | QC | RPD %	LCS %	Spike % BGH1971-MS1#
TRH C10-C14	mg/kg	50	<50	<50 | <50 | [NA]	<50 | <50 | [NA]	120	111
TRH C15-C28	mg/kg	100	<100	<100 | <100 | [NA]	<100 | <100 | [NA]	96.6	88.5
TRH C29-C36	mg/kg	100	<100	<100 | 119 | [NA]	<100 | <100 | [NA]	108	##[1]
TRH >C10-C16	mg/kg	50	<50	<50 | <50 | [NA]	<50 | <50 | [NA]	95.1	87.8
TRH >C16-C34 (F3)	mg/kg	100	<100	104 | 134 | [NA]	<100 | <100 | [NA]	98.9	89.2
TRH >C34-C40 (F4)	mg/kg	100	<100	<100 | <100 | [NA]	<100 | <100 | [NA]	95.4	##[2]
Surrogate o-Terphenyl	*%*		*77.3*	*88.1 | 84.0*	*74.9 | 75.1*	*91.7*	*87.4*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Soil) | Batch BGH1971

Analyte	Units	PQL	Blank	DUP1 BGH1971-DUP1# Samp | QC | RPD %	DUP2 BGH1971-DUP2# Samp | QC | RPD %	LCS %	Spike % BGH1971-MS2#
Naphthalene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	88.6	93.6
Acenaphthylene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Acenaphthene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	101	98.3
Fluorene	mg/kg	0.10	<0.10	<0.20 | <0.20 | [NA] [3]	<0.10 | <0.10 | [NA]	94.6	52.4[2]
Phenanthrene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	103	103
Anthracene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Fluoranthene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	101	114
Pyrene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	112	122
Benzo(a)anthracene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Chrysene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	101	102
Benzo(b,j,k)fluoranthene	mg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	[NA]	[NA]
Benzo(a)pyrene	mg/kg	0.050	<0.050	<0.050 | <0.050 | [NA]	<0.050 | <0.050 | [NA]	85.2	97.8
Indeno(1,2,3-c,d)pyrene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Dibenzo(a,h)anthracene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Benzo(g,h,i)perylene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Surrogate p-Terphenyl-D14	*%*		*120*	*114 | 112*	*104 | 114*	*117*	*113*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MGH0163

ORG-022_OC|Organochlorine Pesticides (Soil) | Batch BGH1971

Analyte	Units	PQL	Blank	DUP1 BGH1971-DUP1# Samp | QC | RPD %	DUP2 BGH1971-DUP2# Samp | QC | RPD %	LCS %	Spike % BGH1971-MS2#
alpha-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	109	112
Hexachlorobenzene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
beta-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	88.8	92.5
gamma-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
delta-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Heptachlor	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	77.9	71.2
Aldrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	119	117
Heptachlor epoxide	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	79.7	96.6
trans-Chlordane	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
cis-Chlordane	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Endosulfan I	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
4,4'-DDE	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	117	112
Dieldrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	97.7	99.3
Endrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	73.9	77.1
4,4'-DDD	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	137	134
Endosulfan II	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Endrin aldehyde	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
4,4'-DDT	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Endosulfan sulfate	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	78.0	82.4
Endrin ketone	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Methoxychlor	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Mirex	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Surrogate 4-chloro-3-nitrobenzotrifluoride	*%*		*112*	*113 | 113*	*107 | 113*	*109*	*117*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-022|Organophosphorus Pesticides (Soil) | Batch BGH1971

Analyte	Units	PQL	Blank	DUP1 BGH1971-DUP1# Samp | QC | RPD %	DUP2 BGH1971-DUP2# Samp | QC | RPD %	LCS %	Spike % BGH1971-MS2#
Dichlorvos	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	70.8	79.3
Dimethoate	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Diazinon	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Chlorpyrifos-methyl	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	83.9	79.6
Ronnel	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	88.3	81.8
Fenitrothion	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	99.7	104
Malathion	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	115	125
Chlorpyrifos	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	78.9	94.7
Parathion	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	113	114
Bromophos-ethyl	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Ethion	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	85.7	107
Coumaphos	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Disulfoton	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Fenamiphos	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Fenthion	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Methidathion	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Mevinphos	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Parathion-methyl	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Phorate	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Phosalone	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Azinphos-methyl	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Surrogate 4-chloro-3-nitrobenzotrifluoride	*%*		*112*	*113 | 113*	*107 | 113*	*109*	*117*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MGH0163

ORG-021/022/025_PCB|Polychlorinated Biphenyls (Soil) | Batch BGH1971

Analyte	Units	PQL	Blank	DUP1 BGH1971-DUP1# Samp | QC | RPD %	DUP2 BGH1971-DUP2# Samp | QC | RPD %	LCS %	Spike % BGH1971-MS2#
Aroclor 1016	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Aroclor 1221	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Aroclor 1232	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Aroclor 1242	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Aroclor 1248	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Aroclor 1254	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
Aroclor 1260	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	[NA]
PCB C103	mg/kg			0.00 | 0.00 | [NA]	0.00 | 0.00 | [NA]	76.3	72.6
Surrogate 2-Fluorobiphenyl	*%*		*88.5*	*83.4 | 89.2*	*82.2 | 79.4*	*78.5*	*82.8*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-020|Acid Extractable Metals (Soil) | Batch BGH1969

Analyte	Units	PQL	Blank	DUP1 BGH1969-DUP1# Samp | QC | RPD %	DUP2 BGH1969-DUP2# Samp | QC | RPD %	LCS %	Spike % BGH1969-MS1#
Arsenic	mg/kg	4.0	<4.0	<4.0 | <4.0 | [NA]		106	99.2
Cadmium	mg/kg	0.40	<0.40	<0.40 | <0.40 | [NA]		114	96.2
Chromium	mg/kg	1.0	<1.0	20.9 | 19.2 | 8.57		111	108
Copper	mg/kg	1.0	<1.0	13.2 | 12.4 | 6.13		112	115
Lead	mg/kg	1.0	<1.0	23.0 | 20.9 | 9.53		103	97.0
Mercury	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		113	103
Nickel	mg/kg	1.0	<1.0	8.30 | 7.59 | 8.94		111	101
Zinc	mg/kg	1.0	<1.0	31.3 | 28.1 | 10.5		116	101

Analyte	Units	PQL	Blank	DUP3 BGH1969-DUP3# Samp | QC | RPD %	DUP4 BGH1969-DUP4# Samp | QC | RPD %	LCS %
Arsenic	mg/kg	4		<4.0 | <4.0 | [NA]		[NA]
Cadmium	mg/kg	0.4		<0.40 | <0.40 | [NA]		[NA]
Chromium	mg/kg	1		21.3 | 14.3 | 39.7		[NA]
Copper	mg/kg	1		3.69 | 2.14 | [NA]		[NA]
Lead	mg/kg	1		9.58 | 7.37 | 26.1		[NA]
Mercury	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Nickel	mg/kg	1		4.91 | 3.28 | [NA]		[NA]
Zinc	mg/kg	1		3.66 | 2.43 | [NA]		[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-008|Inorganics - Moisture (Soil) | Batch BGH1963

Analyte	Units	PQL	Blank	DUP1 BGH1963-DUP1# Samp | QC | RPD %	DUP2 BGH1963-DUP2# Samp | QC | RPD %	LCS %
Moisture	%	0.1		8.65 | 8.66 | 0.116	16.6 | 18.3 | 9.51	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

QC Comments

Identifier	Description
[1]	Spike recovery is not applicable due to the relatively high analyte background in the sample (>3* spike level). However, the LCS recovery is within acceptance criteria.
[2]	Spike recovery is outside routine acceptance criteria (60-140%), this may be due to suspected non-homogeneity and/or matrix interference effects. However, an acceptable recovery was achieved for the LCS.
[3]	PQL(s) has/have been raised due to matrix interference.

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client:	Geo-Environmental Engineering Pty Ltd
Project Mgr:	Stephen McCormack
Sampler:	Stephen Mccormack
Address:	Unit 2, 5-7 Malta Street, Fairfield East
Email:	stephen@geoenvironmental.com.au
Phone:	0431 480 980 (Stephen)

Client Project Name and Number: E25008GOR

PO No.:

Envirolab Services Quote No. :

Date results required:
Or choose: standard / 1 day / 2 day / 3 day / 5 day — Standard

Note: Inform lab in advance if urgent turnaround is required - surcharge applies

Envirolab Services
5 Research Dr, Croydon South VIC 3136
Phone: 03 9763 2500

E-mail: melbourne@envirolab.com.au

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Combinatiion 3	Combination 3a	Combination 5	Combination 5a	PAHs	Metals (S8)	OCP/OPPs				TRH (vol)/BTEXN	BTEXN	Combo 1m		Hold	Provide as much information about the sample as you can
1	SM080825-101	8/08/2025	Soil																
2	SM080825-104	8/08/2025	Soil						1										
3	SM080825-108	8/08/2025	Soil			1													
4	SM080825-111	8/08/2025	Soil					1	1	1									
																			#388097

Relinquished by (company):	Geo-Environmental Engineering
Print Name:	Stephen McCormack
Date & Time:	08-Aug-25
Signature:	

Received by (company):	ELS SYD
Print Name:	Sarah P
Date & Time:	08/08/25, 1230
Signature:	

Samples Received: Cool or Ambient (circle one)
Temperature Recieved at: 4°C (if applicable)
Transported by: Hand delivered / courier

Page No: 1 of 1

Relinquished by: ELS SYD
Alexandra Deales
11.8.25 1210
AD

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: [redacted]0163
Date Received: 12-8-25 11.7
Time Received: 12.45pm
Received By: MM
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None